



## INSTRUCTIONS FOR HEARING VISION SCREENING (HVS) FORM

### I. General Instructions

The Hearing Vision Screening (HVS) form collects basic information regarding the participant's hearing and vision capabilities to aide in determining eligibility for the study. The auditory screening is based on pure tone audiometry screening guidelines established by the American Speech Language Hearing Association. The vision screening is completed using the MNREAD Acuity Chart. Further audiometric testing will be completed at a later date for participants who enter the study. Please note that Q3 on this form is an automatically generated output based on calculations performed in CDART2.

This form is to be completed during the screening visit (visit 0).

### II. Detailed Instructions for Each Item– Clinic Exam

- 0a. Enter the date on which the participant was seen in the clinic.
- 0b. Enter the staff ID for the person who completed this form.

#### Otoscopy Results

Otoscopy is performed by examining the participant's ear canal with an otoscope. Please tell the participant:

*"I'm going to use this instrument to look into your ear canal. You will feel me gently pulling on your ear. I need you to sit quietly while I look."*

As you perform otoscopy, remember to gently pull the participant's pinna (ear) back to open the canal and brace against the participant's cheek with the back of your hand to prevent injury should the participant suddenly move or jerk their head. When recording results, impacted will be defined as an inability to visualize <75% of the eardrum. The "other" result must be specified with a brief description.

- 1a. Record results for right ear
- 1b. Record results for left ear

#### Audiometric Results

Audiometric screening is performed using an audiometer with the participant in a quiet room or sound booth. Say to the participant:

*"You are going to hear a series of tones or beeps through the headphones/ear buds. Your job is to <<raise your hand, press a button, say 'yes'>> each time you hear a tone. Some of the tones you will be able to hear easily and others will be very soft or quiet. I want you to respond even if the tone sounds very soft or far away. Do you have any questions?"*

For screening, only 500, 1000, 2000, and 4000 Hz need to be tested. Remember to use the Hughston-Westlake procedure specified in the ACHIEVE MOP Appendix A (start at 30 dB at 500 Hz, decrease by

10 dB whenever the participant responds, increase by 5 dB whenever the participant does not respond, the threshold is the lowest decibel level at which they respond on an ascending measure twice). Remember to present the tone for 1-2 second durations and try to vary the rhythm of testing so participants don't fall into a pattern of responding.

2a1-4. Record thresholds for Right ear frequencies (500-4000 Hz)

2b1-4. Record thresholds for Left ear frequencies (500-4000 Hz)

### **Hearing in Better Ear Results**

This is a measure calculated based on the information provided in 2a1-4 and 2b1-4. Participants with a result of "Mild" or "Moderate" are eligible for the study.

### **Vision Results**

Vision screening is completed using the MNREAD Acuity Chart (with a 16 inch string attached to it). Please say to the participant:

*"If you wear glasses, please put them on. Please read the smallest line you are able to read holding the card no closer than the string will allow you to. You may hold the card farther from you if that is a more comfortable reading distance. You may use your reading glasses."*

Have the participant read the smallest line they can and record the corresponding acuity measure on the HVS form (box 4). Participants with vision no worse than **20/63** are eligible for the study.

4. Record the results of the MNREAD Acuity Chart task.

### **ACHIEVE procedure for assessing vision with illiteracy**

If the staff member determines that the participant is likely having difficulty with the MNRead chart due to illiteracy rather than vision then the following instructions should be used. These instructions are adapted from EyeDoc procedures used at the Jackson field site. If you have any questions about these instructions please contact Arichelp (arichelp@unc.edu)

- a. Give the attached reference pages (below) containing word lists to the study participant. These words should be size 14 in Times New Roman font. Each word on the MNRead Acuity Chart is presented on these reference pages. Explain to the participant that one page shows the words in alphabetical order and the other page shows the words by length – the participant can use either page to do the matching task.
- b. Instruct the participant to **match** the words from the MN chart to the guide.
- c. If the participant miss-matches three or more words the line is not counted and is considered incorrect/failed.
- d. Within the HVS form in CDART use the notelog of Q4 to indicate that the matching chart was used. Record the results of the MNREAD Acuity Chart Task in Q4.

a	fish	lunch	tells
about	for	man	than
after	four	me	that
and	friends	men	the
ask	from	miles	The
asked	fruit	milk	They
back	garden	more	this
be	gets	morning	Three
bed	girls	mother	to
been	glass	mountain	today
before	grandfather	must	told
better	had	my	two
boat	hand	My	understand
box	has	never	up
boy	He	not	us
brother	hear	Nothing	vegetables
brothers	heavy	of	visit
cake	held	old	wanted
carry	help	one	wants
caught	here	Our	warm
children	high	out	wash
circus	his	outside	we
city	home	pictures	wear
climb	hot	play	week
clothes	how	pretty	went
coats	hundred	questions	when
could	I	school	why
do	in	see	with
draw	inside	should	would
ducks	is	showed	you
during	It	sing	young
early	larger	so	your
ever	leave	son	
father	long	story	
fire	loves	teacher	

a	son	told	young
I	the	warm	asked
be	The	wash	before
do	two	wear	better
He	why	week	caught
in	you	went	circus
is	ask	when	father
It	back	with	garden
me	been	your	inside
my	boat	about	larger
of	cake	after	mother
so	city	carry	pretty
to	draw	climb	school
up	ever	coats	should
us	fire	could	showed
we	fish	ducks	wanted
and	four	early	would
bed	from	fruit	brother
box	gets	girls	clothes
boy	hand	glass	during
for	hear	heavy	friends
had	held	leave	morning
has	help	loves	Nothing
his	here	lunch	outside
hot	high	miles	teacher
how	home	never	brothers
man	long	story	children
men	milk	tells	hundred
My	more	They	mountain
not	must	this	pictures
old	play	Three	questions
one	sing	today	understand
Our	than	visit	vegetables
out	that	wants	grandfather
see			

