

Attachment 1

Automated Audiometry for the NIH Toolbox (AANT)

Name of test: Automated Audiometry for the NIH Toolbox (AANT)

Estimated time burden: 7 minutes

Number of items: Five hearing frequencies will be tested

Child (3-7): Instruction Script for AANT (to be read by the examiner):

We are going to do an activity with whistles. For this activity, you get to wear these headphones. Once you put these on, the computer will explain the activity. Your job is to listen carefully and to follow the instructions. Let me show you how to choose the buttons. [Demonstrate button selection]. You will hear a voice that will help you get started and show you how to do the exercise. I am going to put the headphones on you now and then we can get started.”

If the child has difficulty using the mouse, he/she may point and the examiner may operate the mouse and/or keyboard. The examiner should say something like the following: **“You can point to your choice and then I will enter your choice.”** For children with motor problems, they can respond by saying “Yes” or “No” and the examiner can say **“You can say ‘Yes’ if you heard a whistle and ‘No’ if you did not hear a whistle.”**

Child: Automated instructions for AANT (Graphics on the monitor are synchronized with recorded instructions). This is the list of possible statements presented by the computer.

“Hello! We are going to do a whistle activity. First let’s see if you can hear me OK.”

“Choose the big ear if you can hear me OK.”

“Choose the little ear if I’m talking too softly. Choose the big ear or little ear now.”

“Choose the big or little ear now.”

“Could you hear and understand the person talking?”

“OK, be sure to choose the big ear if you hear the sound. Choose the big ear now.”

“OK, Let’s see if you can hear me at a louder level. Choose the little ear now.”

“Good Listening. We want to see if you can hear different whistles like this one.”

“Some whistles will be easy to hear and some whistles will be hard to hear. Sometimes there will be no sound at all. When it is time to listen for a whistle, you’ll see me with the headphones on. *[the examiner should point to the icon showing the smiley face with the earphones.]*”

“Here is a quiet rabbit. He is not making any sound at all.”

“Here is a bird who makes whistle sounds.”

“If you hear a whistle, choose the bird. If you don’t hear any whistle at all, choose the rabbit.”

“Let’s try one...”

“Choose the bird if you heard a whistle. Choose the rabbit if you did not hear a whistle.”

“Choose the bird if you heard a whistle. Choose the rabbit if didn’t hear a whistle.”

“OK, we’ll try another in a minute.”

“Great. Now we are ready to continue!”

“Some whistles will be in this ear.”

“Some whistles will be in the other ear. Choose the bird if you hear a whistle in either ear. Choose the rabbit if you do not hear a whistle.”

“Let’s practice again. Listen carefully for a whistle.”

“Choose the bird if you heard a whistle. Choose the rabbit if you did not hear a whistle.”

“Oops. That time the bird whistled and you chose the rabbit. Let’s try that again.”

“Great. Let’s try some more!”

“Press the bird if you heard a whistle. Press the rabbit if you did not hear a whistle.”

“Oops. That time it was quiet and you chose the bird. Remember: listen carefully. Press the bird if you hear a whistle. Choose the rabbit if it is quiet.”

“Great! Now let’s get started with the whistle activity.”

“The hearing activity has finished. Now you are ready for the next activity.”

If examiner determines that the child cannot reliably respond using the mouse, the examiner should switch to the verbal response mode in which the child responds verbally and the examiner enters the response on the child’s behalf with the examiner clicking the mouse according to the child’s verbal responses.

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Adult (8-85): Instruction Script for AANT (to be read by the examiner):

It is expected that the participant will use the mouse to indicate his or her responses.

The examiner says: **“Now I will ask you to wear these headphones. If you are wearing hearing aids, I will ask you to remove them for the hearing test. Once the headphones are on, we will begin testing your hearing. I will ask you to choose your response with the mouse. The computer will give you the instructions. I will put the headphones on you now and we can get started with the instructions.”**

If a participant has difficulty using the mouse or keyboard, he/she may point and the examiner may choose the response. The examiner should say something like the following to the participant: **“You can point to your choice and then I will enter your choice.”** For participants with motor difficulties, verbal response mode will be used in which the participant can say Yes when a tone is heard, and No when a tone is not heard.

Adult: Automated instructions for AANT (Note: written instructions will appear on the monitor and will be synchronized with recorded instructions). This is the list of possible statements presented by the computer.

“Welcome to the hearing assessment.”

“Choose LOUDER if this sound is too soft.”

“Choose OK if this is loud enough.”

“Could you hear and understand the person talking?”

“OK, as we go forward, be sure to choose OK if you hear the sound. Choose OK now.”

“OK, Let’s see if you can hear it at a louder level. Choose LOUDER now.”

“Good. Let’s review the instructions.”

“When you see and hear the “LISTEN NOW” prompt, listen carefully. You may hear a beep like this one.”

“Listen Now”

“Some beeps will be very soft.”

“After the Listen Now prompt, choose YES if you hear a beep. Choose NO if you do not hear a beep.”

“Let’s practice one now.”

“Did you hear a beep?” “YES” “NO”

“You responded NO when a tone was presented. Let’s try again.”

“Great. Now we are ready to continue.”

“The beep can be in either ear.”

“Sometimes there won’t be any beep at all. If you choose “YES” and no beep was played, you will get a warning message like this:”

“You chose “YES” when no beep was played. Listen Carefully. Choose “YES” only when you hear a beep.”

“Did you understand the instructions? Choose “YES” or “NO””

“Good. Let’s get started with the hearing assessment.”

“OK, let’s go through it again.”

“The hearing assessment has finished. Now you are ready for the next assessment.”