



INSTRUCTIONS FOR THE SIX ITEM SCREENER (04/29/2015) (SIS, Version 1, 6/12/2019)

I. General Instructions

The Six-item Screener (SIS) is administered by telephone directly to the participant (not a proxy). It consists of 3-item recall and 3-item temporal orientation.

We would like to capture the participant's optimal cognitive performance. There are several factors which could hamper a participant's performance (e.g., significant hearing loss or extraneous background noise at the participant's home). When, in the interviewer's judgment, administration of the SIS is not possible or unduly influenced by extraneous factors (such as hearing loss), the SIS is discontinued and the reason noted. If administration of the SIS is interrupted for some reason and not completed, the interviewer should attempt to re-contact the participant at a convenient time. The SIS may also be completed at a home interview.

Interviewer behavior may also affect results. During administration of the SIS, there should be no extraneous background noise or interruptions in the interviewer's immediate surroundings as these distractions may affect test results. Instructions and questions should be presented at a measured pace (not too fast). If a participant is hard of hearing, speaking in a lower tone is often more effective than trying to speak more loudly.

Some participants may feel challenged by the task. It is important for the interviewer's attitude to be friendly, non-threatening, reassuring and supportive. Do not indicate whether specific responses are correct or incorrect. For participants who express concern about missing an item or two on the SIS, they may be reassured that "you're doing fine" or that "many people may have difficulty at times with some of the questions." Some participants may have concerns about their cognitive functioning and inquire about the need for further evaluation. The interviewer may reassure the participant that these questions are just a screening tool and do not make any clinical diagnosis, so more detailed information about performance cannot be shared. The interviewer can also note that there are several treatable conditions that may affect memory and thinking, and recommend that the participant discuss their concerns with their primary care provider. It may be helpful for the interviewer to have on hand the names of at least two physicians in the local area that evaluate older adults for those participants who do not have a primary care provider.

The CDART SIS Results report link is still active in the SIS form, but will no longer show the SIS results if run. The report is no longer being used since the update to the Dementia Surveillance protocol. A message will be displayed if the user tries to run the report that states the report is no longer in use.

II. Detailed Instructions for each Item.

- 0a. Enter the date on which the SIS was administered.
- 0b. Enter the staff ID for the person administered the SIS.

Read the script introducing the task:

“Next, I will ask you a few questions that ask you to use your memory and attention. These questions are similar to ones that you have done in the ARIC clinic, but now we are asking them over the phone. I am going to say three words. After I’ve said all three words, I would like you to say them back to me. Try to remember what the words are, because I am going to ask you to name them again in a few minutes. Please do not write the words down. Ready?”

Please repeat these words for me: APPLE - PENNY - TABLE.”

The words should be read at a pace of ~1 word per second. If the participant begins to say each word immediately after it has been read (instead of waiting until the interviewer has said all three words), stop, and say: **“Let’s try it again. This time wait until I have said all three words, and then say them back to me.”** If the participant is unable to repeat all three words back correctly, the words may be repeated up to 3 times. For example, if on the first attempt the participant repeats back, “Apple”, “Penny”, “Party”, the interviewer would say, **“let’s try that again”** and would say the words again (this would be trial 2). If the participant again cannot say the words back correctly, the interviewer would again say, **“let’s try it one more time”** and would say the words again (this is the third and final trial). As another example, if the participant repeats back on the first trial, “Apple, Penny” and says “what did you say was the third word?”, the interviewer would repeat back all three words (this would count as the second trial). After three failed trials, the words are not presented again, and the form is completed as described below.

General Instructions: If the three words task was not attempted at all (e.g., after hearing the instructions they refused) or attempted but discontinued due to one of the reasons listed in question 1a, record question 1 as “No”, and record the reason on 1a. If the task was attempted but performed incorrectly three times, then record question 1 as “Yes”, and question 2 as “No”.

1. If the task was attempted and not discontinued, record “Yes”. If the task was not attempted or discontinued due to one of the reasons listed under question 1a, record “No”.

1a.-1a.1. Indicate the reason for not attempting/discontinuing the task. If ‘other’ is recorded in question 1a, specify the reason in question 1a.1. Save and close the form.

Example: If the words were presented and repeated back incorrectly three times, and the interviewer feels that the reason the words were not repeated back correctly was because the participant was very hard of hearing, question 1 would be recorded as “No”, and 1a recorded as “Hearing loss.” The SIS is stopped at this point.

Example: If the three word task was discontinued, for example, due to too much noise at the participant’s home, question 1a would be recorded as “Other” and described in 1a1.

2. If the 3 words were repeated back correctly, record “Yes”. In most cases, if the words are not repeated back correctly, the task would have been stopped and the reason recorded in 1a. An exception would be in the instance where a participant has an expressive language deficit (e.g., an aphasia from a stroke). In this case, the participant may hear fine and understand the task, but is still not able to repeat the words correctly. In this case, question 1 would be recorded, “Yes”, and question 2 would be recorded, “No.” In cases where question 2 is recorded as “No”, ask questions 3, 4, and 5, but skip the 3 recall items (6, 7, and 8). Recall items 6, 7 and 8 are only asked when the participant was able to successfully repeat back the three words.

Example: If the words were presented and repeated back incorrectly three times, and there is no obvious reason for the failed attempts (e.g., hearing loss or not understanding the instructions), then question 1 is recorded as “Yes”, and question 2 recorded as “No.” Continue to questions 3, 4, and 5 and stop (do not ask questions 6, 7 and 8).

Temporal orientation items:

3. Without the aid of a calendar or watch, the participant is asked to name the year.
4. Without the aid of a calendar or watch, the participant is asked to name the month.
5. Without the aid of a calendar or watch, the participant is asked to name the day of the week. If the participant gives the date when prompted for the day, say: **"Good, and what day of the week is it?"**

Recall items:

Script: **“Now, what were those three words I asked you to remember?”** Allow reasonable time for recall, but no more than ~90 seconds. If a participant is too quick to give up, pause, and encourage him/her to at least make an attempt. Please note that, no hints are allowed. The intent of this exercise is to recall all three words correctly, regardless of the sequence.

6. Record “correct”, if “apple” was recalled.
7. Record “correct”, if “table” was recalled.
8. Record “correct”, if “penny” was recalled.

Additional scoring notes for items 3-8:

A response of “I don’t know” is scored as “Incorrect”. A self-corrected response is scored as “Correct”. “Not attempted/Refusal” is recorded for any item that was refused or not performed for any reason.