



## TELEPHONE INTERVIEW FOR COGNITIVE STATUS

ID  
NUMBER:

FORM CODE:

DATE: 5/2/2011  
Version 1.0

### ADMINISTRATIVE INFORMATION

0a. Completion Date: / /   
Month Day Year

0b. Staff ID:

Scoring: One point for each correct answer.

1 = Correct  
0 = Incorrect

#### 1. "Please tell me your full name"

First name

Last name

2. "What is the year we are in?"

3. "What season is it?"

4. "What month are we in?"

5. "What is today's date?"

6. "What day of the week is today?"

7. "What is your home address?"

House number

Street Name

City

State

Zip

(Total correct = 0-12)

#### 8. "Count backwards from 20 to 1."

Trial #1: (Circle each correct response): 20 19 18 17 16 15 14 13 12 11 10 9 8 7 6 5 4 3 2 1

(If participant correctly counted backwards on trial #1 Score = 2 points. If participant did not correctly count backwards on trial #1, administer trial #2).

Trial #2: (Administer only if ppt did not correctly complete trial #1): "Now, let's try that again. I would like for you to count backwards from 20 to 1." 20 19 18 17 16 15 14 13 12 11 10 9 8 7 6 5 4 3 2 1

(If participant correctly counted backwards on trial #2 Score = 1 point). If participant did not correctly complete task in two trials (Score = 0 points)

(Score = 0, 1 or 2)

9. "I am going to read a list of 10 words. Please listen carefully and try to remember them. When I am done, tell me as many words as you can, in any order. Ready? The words are:"

Cabin	_____	Theatre	_____
Pipe	_____	Watch	_____
Elephant	_____	Whip	_____
Chest	_____	Pillow	_____
Silk	_____	Giant	_____

"Now, tell me all the words you can remember." (Check each correct response above)

Score = 1 point for each correct response. No penalty for repetitions or intrusions.  
Plurals are considered correct. Record total number of correct responses.

(Total correct = 0-10) \_\_\_\_\_

10. "Now I'd like you to subtract 7 from 100. Then keep subtracting 7 from each answer until I tell you to stop. What is 100 take away 7?" (Record the participant's responses in the boxes. Score the total number of correct answers)

93	86	79	72	65

NOTE: Answer is correct if a response is exactly 7 from the previous response, regardless of whether that response was correct or not.

(Total correct 0-5) \_\_\_\_\_

11. "What do people usually use to cut paper?"

(Score = 1 point for scissors or shears)

(Score = 0-1) \_\_\_\_\_

12. "How many things are in a dozen?"

(Score = 1 point for 12)

(Score = 0-1) \_\_\_\_\_

13. "What do you call the prickly green plant that lives in the desert?"

(Score = 1 point for cactus only)

(Score = 0-1) \_\_\_\_\_

14. "What animal does wool come from?"

(Score = 1 point for sheep or lamb only)

(Score = 0-1) \_\_\_\_\_

15. "Say this, 'No ifs, ands or buts'."

(Score = 1 point for completely correct repetition on the first trial. Repeat only if poorly presented)

(Score = 0-1) \_\_\_\_\_

16. "Say this, 'Methodist Episcopal'."

(Score = 1 point for completely correct repetition on the first trial. Repeat only if poorly presented)

(Score = 0-1) \_\_\_\_\_

17. "Who is the President of the United States right now?"

(Score = 1 point for correct first and last name only)

(Score = 0-1) \_\_\_\_\_

18. "Who is the Vice President?"

(Score = 1 point for correct first and last name only)

(Score = 0-1) \_\_\_\_\_

19. "With your finger, tap 5 times on the part of the phone you speak into."

(Score = 2 points if 5 taps are heard; 1 point if participant taps more or less than 5 times)

(Score = 0-2) \_\_\_\_\_

20. "I'm going to give you a word and I want you to give me its opposite. For example, the opposite of hot is cold. What is the opposite of 'west'?"

(Score = 1 point for east)

(Score = 0-1) \_\_\_\_\_

21. "What is the opposite of 'generous'?"

(Score = 1 point for selfish, greedy, stingy, tight, cheap, mean, meager, skimpy or other good antonym)

(Score = 0-1) \_\_\_\_\_

22. "Earlier I read a long list of words to you. Please tell me all of the words that you can remember from that list."

(Check each correct response)

Cabin	_____	Theatre	_____
Pipe	_____	Watch	_____
Elephant	_____	Whip	_____
Chest	_____	Pillow	_____
Silk	_____	Giant	_____

Score = 1 point for each correct response. No penalty for repetitions or intrusions.

Plurals are considered correct. Record total number of correct responses.

(Score = 0-10) \_\_\_\_\_

SUBTOTAL CORRECT \_\_\_\_\_



## INSTRUCTIONS FOR THE TELEPHONE INTERVIEW FOR COGNITIVE STATUS (TICS-m) FORM

The Telephone Interview for Cognitive Status (TICS) is a brief, standardized test of cognitive functioning that is designed to be administered over the telephone. The TICS will be administered to participants who are unwilling or unable to be examined (see Section I), in addition to participants selected for the TICS Substudy (see Section Ia).

### I. General Instructions – Participants who have NOT completed Visit 5

If the participant refuses to complete this test or is unable to communicate verbally, set the form to permanently missing on the Form Grid screen of the DMS.

When the interviewer has the participant on the telephone, the following script should be used to greet the participant and provide instructions for administration of the test.

**Script:** “Hi Mr/Ms. \_\_\_\_\_. My name is \_\_\_\_\_ and I am calling to follow up with you today to discuss the new ARIC Neurocognitive study. We appreciate your interest in this study and for providing us with your contact information. If now is a good time, we can complete the telephone questions which will take about 30 minutes. Are you able to talk with me for that amount of time?”

Yes \_\_\_\_ No \_\_\_\_ (Rescheduled for: \_\_\_\_\_)

If “yes”, say: “Before we begin, I want to let you know that the information and responses you provide are kept strictly confidential. If at any time you do not feel comfortable answering a question, please let me know.”

*Hearing Screener:*

1. “Do you use a hearing device?” Yes \_\_\_\_ No \_\_\_\_

If “yes”, “Is it in place?” Yes \_\_\_\_ No \_\_\_\_ N/A \_\_\_\_

2. “I need to make sure you can hear me well enough. Will you repeat this statement. . . I have a cat so all I need is a dog.” *Individual repeated properly* Yes \_\_\_\_ No \_\_\_\_

If “no”, say: “Thank you very much Mr./Ms. \_\_\_\_\_ but I am concerned you may not be able to hear me well enough to complete the questions so I will not continue at this time. I would like to thank you for your interest in the ARIC Neurocognitive study and for taking the time to speak with me today.” Then, set the form to permanently missing on the Form Grid of the DMS.

*Instructions:*

“Great. Now I will begin by asking you some questions related to your health, thinking and lifestyle. The questions will require concentration, so it is important that you are in a quiet environment and not disturbed.

All of the questions are designed to be asked over the telephone. Your responses should be provided according to your thinking and knowledge therefore, pencil/paper is not needed so I need for you to remove pens, pencils, paper, calendars or newspapers.”

Some questions may be easier than others. I don’t want you to worry. Just do the best you can. Ready?”

Any time an expected item is missing, the reason for its missingness should be recorded in the field status by clicking the >> beside the field and selecting the appropriate response from the drop-down menu. If there is not time to do this during a live interview, those fields can be updated with the appropriate status after the interview has concluded.

### **1a. For TICs Substudy Participants**

If the participant refuses to complete this test or is unable to communicate verbally, set the form to permanently missing on the Form Grid screen of the DMS.

When the interviewer has the participant on the telephone, the following script should be used to greet the participant and provide instructions for administration of the test.

**Script:** “Hi Mr/Mrs. \_\_\_\_\_, this is \_\_\_\_\_ with the ARIC Study. I want to thank you for your participation in the ARIC examination on < date >. We appreciate the support of committed participants like you.

**At your ARIC examination, you took several tests to help us understand how risk factors for heart disease, such as blood pressure, may affect memory and thinking.**

**We have another brief set of questions on memory and thinking similar to those you did in the ARIC clinic, but these are intended to be given over the phone. We would like to find out how this phone measure compares to the ones you did in the clinic. It takes about 10 minutes to complete.**

**I’m calling today to ask if you’d be willing to answer these questions for me over the phone, today. Again, it will only take about 10 minutes.**

Yes \_\_\_\_\_ No \_\_\_\_\_ (Rescheduled for: \_\_\_\_\_)

*If “yes”, say:* “Before we begin, I want to let you know that the information and responses you provide are kept strictly confidential. If at any time you do not feel comfortable answering a question, please let me know.”

*Hearing Screener:*

**3. “Do you use a hearing device?”** Yes \_\_\_\_\_ No \_\_\_\_\_

*If “yes”, “Is it in place?”* Yes \_\_\_\_\_ No \_\_\_\_\_ N/A \_\_\_\_\_

**4. “I need to make sure you can hear me well enough. Will you repeat this statement. . . I have a cat so all I need is a dog.”** *Individual repeated properly* Yes \_\_\_\_\_ No \_\_\_\_\_

*If “no”, say:* “Thank you very much Mr./Ms. \_\_\_\_\_ but I am concerned you may not be able to hear me well enough to complete the questions so I will not continue at this time. I would like to thank you for your interest in the ARIC Neurocognitive study and for taking the time to speak with me today.” Then, set the form to permanently missing on the Form Grid of the DMS.

*Instructions:*

**“Great. Now I will begin by asking you some questions related to your health, thinking and lifestyle. The questions will require concentration, so it is important that you are in a quiet environment and not disturbed.**

**All of the questions are designed to be asked over the telephone. Your responses should be provided according to your thinking and knowledge therefore, pencil/paper is not needed so I need for you to remove pens, pencils, paper, calendars or newspapers.”**

**Some questions may be easier than others. I don’t want you to worry. Just do the best you can. Ready?”**

**II. Detailed Instructions for Each Item**

- 0a. Enter the date on which the participant was seen in the clinic.
- 0b. The person at the clinic who has completed this form must enter his/her code number in the boxes provided.
- 1. *Participant's name.* Score 1 point for the correct first name (or nick-name) and 1 point for the correct last name. The maximum score is 2.
- 2-6. *Orientation.* Score 1 point for each correct year, season, month, today’s date, day if the week. Precisely correct answers are required.
- 7. *Participant's home address.* Score 1 point for each correct house number, street, city, state and zip code. If the participant is in a facility with no house number (e.g., a hospital or nursing home), the name of the facility may be substituted for the house number. The maximum score is 5 points.
- 8. *Counting Backward from 20 to 0.* If the participant makes an error on Trial 1, ask him or her to try again. Score 2 points if completely correct on first trial or 1 point if correct on the second trial. Score 0 points if there are any errors on the second trial. The maximum score is 2 points.
- 9. *Word List.* Words should be read at approximately one word every 2 seconds. No repetitions of the word list are permitted by the interviewer. Score 1 point for each correctly recalled word. Score 0 points for incorrect responses (e.g., repetitions of list words, intrusions of words not on the list). The maximum score is 10.
- 10. *Subtracting Serial 7s.* Do not provide further prompts, except “keep going”. Stop the participant after 5 serial subtractions. Score 1 point for each correct subtraction. Do not inform the participant of incorrect responses, but allow subtraction to be made from the last response. That is, score 1 point for a correct subtraction, even if the subtraction was from a previously incorrect response. For example, “93, 85, 78, 71, 65” would be awarded 3 points. The maximum score is 5 points.
- 11-14. Score 1 point for the correct responses.
- 15-16. Read each phrase once only. Score 1 point for the correct response.
- 17-18. *President and Vice President of the United States.* Score 1 point for the current president’s full (i.e., first and last) name. Score 1 point for the current vice president’s full (i.e., first and last) name. If only the last name is given, probe for the full name. The participant must provide both the first and last name in order to receive credit for each question.

19. *Finger Tapping*. Score 2 points if five taps are clearly heard, 1 point if either more than or fewer than 5 taps are heard, and 0 points if no taps are heard. The maximum score is 2 points.
- 20-21. *Opposites*. Score 1 point for the correct responses.
22. *Delayed Word Recall*. Score 1 point for each correctly recalled word. Score 0 points for incorrect responses (e.g., repetitions of list words, intrusions of words not on the list). However, there are no penalties for repetitions or intrusions. The maximum score is 10.

Total Score is 51.