

3MSE Cognitive Function

I would like to ask you a few questions that require concentration and memory. Some are a little bit more difficult than others. Some questions will be asked more than once.

1 When were you born?

A. Month: _____ **monthb**

B. Day: _____ **dayb**

C. Year: _____ **yearb**

Record responses. Code "99" if no response.

Where were you born?

Record responses.

D. City/Town: _____ **city1**

E. State/Country: _____ **state1**

Answer
given

Can't do/
Refused

Not Att/
Disabled

₁

₀

₉

₁

₀

₉



You will ask again in Question 18.

city2
state2

2 I am going to say three words for you to remember. Repeat them after I have said all three words: *penny, blue, modesty*.

Do not repeat the words for the participant until after the first trial. The participant may give the words in any order. If there are errors on the first trial, repeat the items up to six times until they are learned.

First trial only:

A. Penny **penny1**

B. Blue **blue1**

C. Modesty **modesty1**

Answer
given

Can't do/
Refused

Not Att/
Disabled

₁

₀

₉

₁

₀

₉

₁

₀

₉

D. Number of presentations necessary for the participant to repeat the sequence (1-7):

Num1

3MSE Cognitive Function

3 I would like you to count from 1 to 5: **countf**

₁ Able to count forward

Unable to count forward →

₀ Say:
1, 2, 3, 4, 5

Now I would like you to count backward from 5 to 1. **countb**

Record the responses in the order given:

(Enter "XXXXX" if no response)

4 Spell: "world" **spellf**

₁ Able to spell

Unable to spell →

₀ It's spelled:
W - O - R - L - D

Now spell "world" backward. **spellb**

Record the letters in the order given:

(Enter "XXXXX" if no response)

3MSE Cognitive Function

5 What three words did I ask you to remember earlier?

The words may be repeated in any order. If the participant cannot give the correct answer after a category cue, provide the three choices listed. If the participant still cannot give the correct answer from the three choices, score 0 and provide the correct answer.

- A. Penny
- ₃ Spontaneous recall **penny2**
 - ₂ Correct word/Incorrect form
 - ₂ After, "A type of coin."
 - ₁ After, "Was it penny, nickel, or quarter?"
 - ₀ Unable to Recall/Refused (provide the correct answer)
 - ₉ Not Attempted/Disabled
- B. Blue
- ₃ Spontaneous recall **blue2**
 - ₂ Correct word/Incorrect form
 - ₂ After, "A color."
 - ₁ After, "Was it brown, black, or blue?"
 - ₀ Unable to Recall/Refused (provide the correct answer)
 - ₉ Not Attempted/Disabled
- C. Modesty
- ₃ Spontaneous recall **modesty2**
 - ₂ Correct word/Incorrect form
 - ₂ After, "A good personal quality."
 - ₁ After, "Was it honesty, charity, modesty?"
 - ₀ Unable to Recall/Refused (provide the correct answer)
 - ₉ Not Attempted/Disabled

3MSE Cognitive Function

6 a What is today's date?

Probe for the month, day, or year if not volunteered. Enter "99" if no response.

Month

Day

Year

tmonth

tday

tyear

6 b What is the day of the week?

Record answer in error. Enter "X" if no response

_____ *err1*
Day of week

- ₁ Correct *day*
- ₀ Error/Refused
- ₉ Not Attempted/Disabled

6 c What season of the year is it?

Record answer in error. Enter "X" if no response

_____ *err2*
Season

- ₁ Correct *season*
- ₀ Error/Refused
- ₉ Not Attempted/Disabled

3MSE Cognitive Function

7 a What state are we in?

Record answer in error. Enter "X" if no response

_____ **err3**

State

₁ Correct

₀ Error/Refused **state**

₉ Not Attempted/Disabled

7 b What county are we in?

Record answer in error. Enter "X" if no response

_____ **err4**

County

₁ Correct

₀ Error/Refused **county**

₉ Not Attempted/Disabled

7 c What (city/town) are we in?

Record answer in error. Enter "X" if no response

_____ **err5**

City/town

₁ Correct

₀ Error/Refused **city**

₉ Not Attempted/Disabled

7 d Are we in a clinic, store, or home? **clinic**

If the correct answer is not among the three alternatives, (e.g., hospital or nursing home), substitute it for the middle alternative (store). If the participant states that none are correct ask them to make the best choice of the three options.

₁ Correct

₀ Error/Refused

₉ Not Attempted/Disabled

3MSE Cognitive Function

8

Point to the object or a part of your own body and ask the participant to name it. Score 0 if the participant cannot name it within 2 seconds or gives an incorrect name. Do not wait for the participant to mentally search for the name.

	Correct	Error / Refused	Not Attempted / Disabled	
A. Pencil: <i>What is this?</i> pencil	1	0	0	9
B. Watch: <i>What is this?</i> watch	1	0	0	9
C. Forehead: <i>What do you call this part of the face?</i> forehd	1	0	0	9
D. Chin: ... <i>And this part?</i> chin	1	0	0	9
E. Shoulder: ... <i>And this part of the body?</i> shlder	1	0	0	9
F. Elbow: ... <i>And this part?</i> elbow	1	0	0	9
G. Knuckle: ... <i>And this part of the hand?</i> knuckl	1	0	0	9

9 What animals have four legs? Tell me as many as you can.

Discontinue after 30 seconds or 10 correct answers. If the participant gives no response in 10 seconds, and there are at least 10 seconds of remaining time, gently remind (once only) "*What (other) animals have four legs?*" The first time an incorrect answer is provided, say, "*I want four-legged animals.*" Do not correct for subsequent errors.

Score (0-10)	<table border="1" style="width: 40px; height: 25px; border-collapse: collapse;"> <tr> <td style="width: 20px; height: 20px;"></td> <td style="width: 20px; height: 20px;"></td> </tr> </table>			score	
_____			_____		
_____			_____		
_____			_____		
_____			_____		
_____			_____		

anml1 – anml20

3MSE Cognitive Function

10 a In what way are arms and legs alike? *armleg*

If the participant fails to give an answer that is worth 2 points, assign the appropriate score of 1 or 0. If the answer is not worth 2 points, coach the participant by saying, “An arm and a leg are both extremities.” Do not coach for questions 10b and 10c.

- ₂ Limbs, Extremities
- ₁ Lesser correct answer (e.g., body parts, both bend, have joints)
- ₀ Error (e.g., states differences, gives unrelated answer)/Refused
- ₉ Not Attempted/Disabled

10 b In what way are laughing and crying alike? *laugh*

- ₂ Expressions of feelings, emotions
- ₁ Lesser correct answer (e.g., sounds, expressions)
- ₀ Error (e.g., states differences, gives unrelated answer)/Refused
- ₉ Not Attempted/Disabled

10 c In what way are eating and sleeping alike? *eat*

- ₂ Necessary body functions, essential for life
- ₁ Lesser correct answer (e.g., bodily functions, relaxing, “good for you”)
- ₀ Error (e.g., states differences, gives unrelated answer)/Refused
- ₉ Not Attempted/Disabled

3MSE Cognitive Function

11 Repeat what I say: *I would like to go out.* **repeat**

Pronounce the individual words clearly, but with normal tempo of a spoken sentence.

- ₂ Correct
- ₁ 1 or 2 words missed
- ₀ 3 or more words missed/ Refused
- ₉ Not Attempted/Disabled
-

12 Now repeat: *No ifs ands or buts.*

Pronounce the individual words clearly, but with normal tempo of a spoken sentence.
Give no credit if the participant misses the “s”.

	Correct	Error/ Refused	Not Att/ Disabled
A. No ifs <i>noifs</i>	<input type="radio"/> ₁	<input type="radio"/> ₀	<input type="radio"/> ₉
B. ands <i>ands</i>	<input type="radio"/> ₁	<input type="radio"/> ₀	<input type="radio"/> ₉
C. or buts <i>buts</i>	<input type="radio"/> ₁	<input type="radio"/> ₀	<input type="radio"/> ₉

3MSE Cognitive Function

13 Hold up card 1.3MSE.13 and say: *Please do this.*

If the participant does not close his or her eyes within 5 seconds, prompt by pointing to the sentence and saying “*Read and do what this says.*” If the participant has already read the sentence aloud spontaneously, simply say, “*Do what this says.*”

Allow 5 seconds for the response. Assign a score of 1 if the participant reads the sentence aloud, either spontaneously or after the examiner’s request, but does not close his or her eyes. As soon as the participant closes his or her eyes, say, “*Open*”.

- ₃ Closes eyes without prompting ***c/seye***
- ₂ Closes eyes after prompting
- ₁ Reads aloud, but does not close eyes
- ₀ Does not read aloud or close eyes/Refused
- ₉ Not Attempted/Disabled

3MSE Cognitive Function

14 I would like to have a sample of your handwriting. Please write: I would like to go out.

Hand the participant a piece of blank paper and a #2 pencil with eraser. If necessary, repeat the sentence word by word as the participant writes. Allow a maximum of 1 minute at the first reading of the sentence for the scored response.

Either printing or cursive writing is allowed. Assign 1 point for each correct word, but no credit for "I". For each word, score 0 if there are spelling errors or incorrect mixed capitalization (all letters printed in uppercase is permissible.) Do not penalize self-corrected errors.

		Correct	Error/ Refused	Not Att/ Disabled
A. Would	would	<input type="radio"/> ₁	<input type="radio"/> ₀	<input type="radio"/> ₉
B. Like	like	<input type="radio"/> ₁	<input type="radio"/> ₀	<input type="radio"/> ₉
C. To	to	<input type="radio"/> ₁	<input type="radio"/> ₀	<input type="radio"/> ₉
D. Go	go	<input type="radio"/> ₁	<input type="radio"/> ₀	<input type="radio"/> ₉
E. Out	home	<input type="radio"/> ₁	<input type="radio"/> ₀	<input type="radio"/> ₉

Note which hand the participant uses to write. If this task is not done, ask the participant if she/he is right or left-handed.

(For use in Question 16)

₁ Right **whhand**

₂ Left

3MSE Cognitive Function

15 Here is a drawing. Please copy the drawing onto this piece of paper.

Hand the participant a piece of paper and card 2.3MSE.15. For right-handed participants, present the sample on their left side. For left-handed participants, present the sample on their right side. Allow one minute for copying. In scoring do not penalize for self-corrected errors, tremors, minor gaps, or overshoots.

A. Pentagon 1 *pent1*

- 4 5 approximately equal size
- 3 5 sides, but longest : shortest side is >2:1
- 2 Nonpentagon enclosed figure
- 1 2 or more lines, not an enclosure
- 0 Less than 2 lines/Refused
- 9 Not attempted/Disabled

B. Pentagon 2 *pent2*

- 4 5 approximately equal size
- 3 5 sides, but longest : shortest side is >2:1
- 2 Nonpentagon enclosed figure
- 1 2 or more lines, not an enclosure
- 0 Less than 2 lines/Refused
- 9 Not attempted/Disabled

C. Intersection *inter*

- 2 4-cornered enclosure
- 1 Other than 4-cornered enclosure
- 0 No enclosure/Refused
- 9 Not attempted/Disabled

3MSE Cognitive Function

16

Refer back to Question 14 to determine the participant's dominant hand. Hold up a piece of white paper in plain view of the participant, but out of his or her reach, and say:

Take this paper with your left (right for left-handed person) hand, fold it in half, and hand it back to me.

After saying the whole command, hold the paper within reach of the participant. Do not repeat any part of the command. Do not give visual cues for the subject to take or return the paper. They may hand it back with either hand.

		Correct	Error/ Refused	Not Att/ Disabled
A. Takes paper in correct hand	take	<input type="radio"/> 1	<input type="radio"/> 0	<input type="radio"/> 9
B. Folds paper in Half	fold	<input type="radio"/> 1	<input type="radio"/> 0	<input type="radio"/> 9
C. Hands paper back	hand	<input type="radio"/> 1	<input type="radio"/> 0	<input type="radio"/> 9

3MSE Cognitive Function

17 What three words did I ask you to remember earlier?

The words may be repeated in any order. Administer even if the score = 0 on Question 5. If the participant cannot give the correct answer after a category cue, provide the three choices listed. If the participant still cannot give the correct answer from the three choices, score "0" and provide the correct answer.

- A. Penny
- ₃ Spontaneous recall **penny3**
 - ₂ Correct word/Incorrect form
 - ₂ After, "A type of coin."
 - ₁ After, "Was it penny, nickel, or quarter?"
 - ₀ Unable to Recall/Refused (provide the correct answer)
 - ₉ Not Attempted/Disabled
- B. Blue
- ₃ Spontaneous recall **blue3**
 - ₂ Correct word/Incorrect form
 - ₂ After, "A color."
 - ₁ After, "Was it brown, black, or blue?"
 - ₀ Unable to Recall/Refused (provide the correct answer)
 - ₉ Not Attempted/Disabled
- C. Modesty
- ₃ Spontaneous recall **modesty3**
 - ₂ Correct word/Incorrect form
 - ₂ After, "A good personal quality."
 - ₁ After, "Was it honesty, charity, modesty?"
 - ₀ Unable to Recall/Refused (provide the correct answer)
 - ₉ Not Attempted/Disabled

3MSE Cognitive Function

18 Would you please tell me again where you were born?

Ask only when a response was given in Question 1d and 1e.
Record the response. Score the responses by checking the match with the responses in Question 1d and 1e.

	Matches	Does not match/ Refused	Not Att/ Disabled
A. City/Town: <u> city3, citymtc </u>	<input type="radio"/> ₁	<input type="radio"/> ₀	<input type="radio"/> ₉
B. State/Country: <u> state3, statemtc </u>	<input type="radio"/> ₁	<input type="radio"/> ₀	<input type="radio"/> ₉

19 Special problems? **probs**

Yes No

Primary Problem:

pprob

- ₁ Vision
- ₂ Hearing
- ₃ Inability to write due to injury/illness
- ₄ Illiteracy/Lack of Education
- ₅ Language (difficulty speaking/understanding English)
- ₆ Other, Specify: **other**

Secondary Problem, Specify: **sprob**

3MSE Cognitive Function

20 Please tell me which hand you would normally use to throw a ball to hit a target. *throw*

- ₁ Always left
- ₂ Usually left
- ₃ No preference
- ₄ Usually right
- ₅ Always right
- ₉ Unknown/Refused
- ₀ Not Attempted/Disabled

21 Please tell me which hand you would normally use to hold a toothbrush while cleaning teeth. *hold*

- ₁ Always left
- ₂ Usually left
- ₃ No preference
- ₄ Usually right
- ₅ Always right
- ₉ Unknown/Refused
- ₀ Not Attempted/Disabled

DSST

Digit-Symbol Substitution Task

22 Place the task sheet before the participant.

Point to the task sheet and say: *Look at these boxed across the top of the page. On the top of each box are numbers from one through nine. On the bottom part of each box there is a symbol. Each symbol is paired with a number.*

Point to the four rows of boxes. *Down here are boxes with numbers on the top, but the bottom part is blank. I want you to put the correct symbol in each box like this: **Fill in the first three sample boxes.***

*Now I want you to fill in all boxes up to this line. **Point to the line separating the samples from the test proportion***

If the participant has difficulty completing the ten sample items or does not grasp the task, help him complete the sample items. If the participant still has difficulty, discontinue the task and score “0” in items 22b and 22c. Participants with visual limitations should be given the opportunity to complete the sample. If the participant cannot complete the sample due to visual impairment code “0—not done.”

After the demonstration and practice is complete, point to the first box following the sample items and say: *When I tell you to begin, start here and fill in the boxes in these four rows. Do them in order and don't skip any. Please try to work as quickly as possible. Let's begin.*

Stop the participant after 90 seconds. Say: *That's good. That completes this set of tasks.*

A. Test items: **test**

₁ Done ₀ Not done/Refused ₉ Not Attempted/Disabled

B. Number of symbols correctly coded: **digcor**

--	--	--

C. Number of symbols incorrectly coded: **digerr**

--	--	--

DIGIT	1	2	3	4	5	6	7	8	9	SCORE
SYMBOL	—	└	┌	L	U	0	^	X	=	<input type="text"/>

SAMPLES

2	1	3	7	2	4	8	1	5	4	2	1	3	2	1	4	2	3	5	2	3	1	4	6	3	

1	5	4	2	7	6	3	5	7	2	8	5	4	6	3	7	2	8	1	9	5	8	4	7	3	

6	2	5	1	9	2	8	3	7	4	6	5	9	4	8	3	7	2	6	1	5	4	6	3	7	

9	2	8	1	7	9	4	6	8	5	9	7	1	8	5	2	9	4	8	6	3	7	9	8	6	

From the *Wechsler Adult Intelligence Scale - Revised*. Copyright 1981, 1955 by Harcourt Assessment, Inc. Reproduced by permission. All rights reserved. "Wechsler Adult Intelligence Scale" and "WAIS-R" are trademarks of Harcourt Assessment, Inc. registered in the United States of America and/or other jurisdictions.