



Participant ID: \_\_\_\_\_

Participant Initials: \_\_\_\_\_

Clinical Center: \_\_\_\_\_

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Visit Number: \_\_\_\_\_

CRF Date: \_\_\_\_\_

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### MODIFIED MINI-MENTAL STATE EXAM

Tell the participant, "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?" (Record responses)

a. Month: \_\_\_\_\_ <sub>1</sub> Correct <sub>0</sub> Incorrect

b. Day: \_\_\_\_\_ <sub>1</sub> Correct <sub>0</sub> Incorrect

c. Year: \_\_\_\_\_ <sub>1</sub> Correct <sub>0</sub> Incorrect

"Where were you born?" (Record responses)

d. City/Town: \_\_\_\_\_ <sub>1</sub> Correct <sub>0</sub> Incorrect

e. State/Country: \_\_\_\_\_ <sub>1</sub> Correct <sub>0</sub> Incorrect

**Question 1 Total Score: \_\_\_\_\_ (Max. Score: 5)**

**Question 1 Total Score = Sum of 1a through 1e.**

2. "I am going to say three words for you to remember. Repeat them after I have said all 3 words: 'socks', 'blue', 'charity'."

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 any errors on the first trial, repeat the items up to six times, until they are learned.

a. Socks **First Trial only** <sub>1</sub> Correct <sub>0</sub> Incorrect

b. Blue <sub>1</sub> Correct <sub>0</sub> Incorrect

c. Charity <sub>1</sub> Correct <sub>0</sub> Incorrect

Number of presentations necessary for the participant to repeat the sequence (1-6): \_\_\_\_\_

**Question 2 Total Score: \_\_\_\_\_ (Max. Score: 3)**

**NOTE: Do not score "Number of presentations". Question 2 Total Score = Sum of 2a through 2c.**



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### MODIFIED MINI-MENTAL STATE EXAM

3.

- a. "I would like you to count from 1 to 5."  Able to count forward  
 Unable to count forward: [Say "1 2 3 4 5"]
- b. "Now I would like you to count backward from 5 to 1."  Accurate  
 1 - 2 Errors  
 >2 Errors

Record the first five numbers in the order given:

5	4	3	2	1	(Participant Response)
5	4	3	2	1	(Correct Order)

Question 3 Total Score: \_\_\_\_\_ (Max. Score: 2)

**NOTE: Do not score 3a. Question 3 Total Score = Score from 3b only.**

4.

- a. "Spell 'world'."  Able to spell  
 Unable to spell: [Say: "It's spelled "W O R L D.""]
- b. "Now spell 'world' backward."  
 Number of Correct Responses: \_\_\_\_\_

Record the first five letters in the order given:

D	L	R	O	W	(Participant Response)
D	L	R	O	W	(Correct Order)

Question 4 Total Score: \_\_\_\_\_ (Max. Score: 5)

**NOTE: Do not score 4a. Question 4 Total Score = Score from 4b only.**

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

The words may be repeated in any order. If the subject cannot give the correct answer after a category cue, provide him/her with the three choices listed. If the subject still cannot give the correct answer from the three choices, mark 0 and provide the correct answer.

- a. Socks  Spontaneous recall  
 Correct word/incorrect form  
 After "Something to wear"  
 After "Was it shirt, shoes or socks?"  
 Unable to recall/refused (provide the correct answer)
- b. Blue  Spontaneous recall  
 Correct word/incorrect form  
 After "A color"  
 After "Was it blue, black or brown?"  
 Unable to recall/refused (provide the correct answer)



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### MODIFIED MINI-MENTAL STATE EXAM

c. Charity

- <sub>3</sub> Spontaneous recall
- <sub>2</sub> Correct word/incorrect form
- <sub>2</sub> After **“A good, personal quality”**
- <sub>1</sub> After **“Was it honesty, charity or modesty?”**
- <sub>0</sub> Unable to recall/refused (provide the correct answer)

Question 5 Total Score: \_\_\_\_\_ (Max. Score: 9)

**Question 5 Total Score – Sum of 5a, 5b and 5c.**

6. Probe for the month, day or year, if not volunteered.

a. **“What is today’s date?”**

**Month** \_\_\_\_\_

Record answer verbatim.

Enter **“X”** if no response.

- <sub>2</sub> Accurate
- <sub>1</sub> Within 1 month
- <sub>0</sub> Inaccurate

**Day** \_\_\_\_\_

Record answer verbatim

Enter **“X”** if no response.

- <sub>3</sub> Accurate
- <sub>2</sub> Within 2 days
- <sub>1</sub> Within 3-5 days
- <sub>0</sub> Inaccurate

**Year** \_\_\_\_\_

Record answer verbatim.

Enter **“X”** if no response.

- <sub>8</sub> Accurate
- <sub>4</sub> Within 1 year
- <sub>2</sub> Within 2-5 years
- <sub>0</sub> Inaccurate

b. **“What is the day of the week?”**

- <sub>1</sub> Correct
- <sub>0</sub> Incorrect

Record answer verbatim. Enter **“X”** if no response

c. **“What season of the year is it?”**

- <sub>1</sub> Correct
- <sub>0</sub> Incorrect

Record answer verbatim. Enter **“X”** if no response

Question 6 Total Score: \_\_\_\_\_ (Max. Score: 15)

**Question 6 Total Score = Sum of 6a (Month + Day + Year), 6b and 6c.**



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### MODIFIED MINI-MENTAL STATE EXAM

7.

- a. "What state are we in?" <sub>2</sub> Correct <sub>0</sub> Incorrect

Record answer verbatim. Enter "X" if no response.

- b. "What country are we in?" <sub>1</sub> Correct <sub>0</sub> Incorrect

Record answer verbatim. Enter "X" if no response.

- c. "What city/town are we in?" <sub>1</sub> Correct <sub>0</sub> Incorrect

Record answer verbatim. Enter "X" if no response.

- d. "Are we in a clinic, store or home?" <sub>1</sub> Correct <sub>0</sub> Incorrect

Record answer verbatim. Enter "X" if no response.

Question 7 Total Score: \_\_\_\_\_ (Max. Score: 5)

**Question 7 Total Score = Sum of 7a through 7d.**

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.

- a. Forehead: "What do you call this part of the face?" <sub>1</sub> Correct <sub>0</sub> Incorrect

- b. Chin: "...And this part?" <sub>1</sub> Correct <sub>0</sub> Incorrect

- c. Shoulder: "...And this part of the body?" <sub>1</sub> Correct <sub>0</sub> Incorrect

- d. Elbow: "...And this part?" <sub>1</sub> Correct <sub>0</sub> Incorrect

- e. Knuckle: "...And this part of the hand?" <sub>1</sub> Correct <sub>0</sub> Incorrect

Question 8 Total Score: \_\_\_\_\_ (Max. Score: 5)

**Question 8 Total Score = Sum of 8a through 8e.**



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### MODIFIED MINI-MENTAL STATE EXAM

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

Discontinue after 30 seconds. Count all correct responses. 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 given, say, "I want four-legged animals." Do not correct for subsequent errors.

Score (total correct responses): \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

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\_\_\_\_\_

Question 9 Total Score: \_\_\_\_\_ (Max. Score: 10)

**NOTE: Though participant may name more than 10 animals in 30 seconds, the maximum score is 10. Question 9 Total Score = Number of four legged animals named in 30 seconds.**

10.

- a. "In what way are an arm and a leg alike?"
- <sub>2</sub> Limbs, extremities
  - <sub>1</sub> Lesser correct answer, e.g., body parts, both bend, have joints
  - <sub>0</sub> Error, e.g., states differences, gives unrelated answer/refused

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

- b. "In what way are laughing and crying alike?"
- <sub>2</sub> Expressions of feelings, emotions
  - <sub>1</sub> Lesser correct answer, e.g., sounds, expressions
  - <sub>0</sub> Error, e.g. States differences, gives unrelated answer/refused



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### MODIFIED MINI-MENTAL STATE EXAM

c. "In what ways are eating and sleeping alike?"

- <sub>2</sub> Necessary bodily functions, essential for life
- <sub>1</sub> Lesser correct answer, e.g., bodily functions, relaxing, "good for you"
- <sub>0</sub> Error, e.g., states differences, gives unrelated answer/refused

Question 10 Total Score: \_\_\_\_\_ (Max. Score: 6)

**Question 10 Total Score = Sum of 10a through 10c.**

11. "Repeat what I say: 'I would like to go out'."

- <sub>2</sub> Correct
- <sub>1</sub> 1 or 2 words missed
- <sub>0</sub> 3 or more words missed/refused

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

Question 11 Total Score: \_\_\_\_\_ (Max. Score: 2)

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".

a. no ifs

- <sub>1</sub> Correct    <sub>0</sub> Incorrect

b. ands

- <sub>1</sub> Correct    <sub>0</sub> Incorrect

c. or buts

- <sub>1</sub> Correct    <sub>0</sub> Incorrect

Question 12 Total Score: \_\_\_\_\_ (Max. Score: 3)

**Question 12 Total Score = Sum of 12a through 12c.**

13. Hold up the "CLOSE YOUR EYES" CARD and say "Please do this."

- <sub>3</sub> Closes eyes without prompting
- <sub>2</sub> Closes eyes after prompting
- <sub>1</sub> Reads aloud, but does not close eyes
- <sub>0</sub> Does not read aloud or close eyes/refused

If the subject does not close their eyes within 5 seconds, prompt by pointing to the sentence and saying, "Read and do what this says." If the subject has already read the sentence aloud spontaneously, simply say, "Do what this says."

Allow 5 seconds for the response. Mark 1 if the subject reads the sentence aloud, either spontaneously or after your request, but does not close their eyes. As soon as the subject closes their eyes, say, "Open."

Question 13 Total Score: \_\_\_\_\_ (Max. Score: 3)



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### MODIFIED MINI-MENTAL STATE EXAM

14. "Please write the following sentence: **"I would like to go out."**

Hand the subject a piece of blank paper and a #2 pencil with eraser. If necessary, repeat the sentence word by word as the subject writes. Allow a maximum of 1 minute after 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, mark 0 if there are spelling errors or incorrect mixed capitalizations (all letters printed in uppercase are permissible). Do not penalize self-corrected errors.

- |  |   |   |
|--|---|---|
| a. would   | <input type="checkbox"/> <sub>1</sub> Correct | <input type="checkbox"/> <sub>0</sub> Incorrect                 |
| b. like  | <input type="checkbox"/> <sub>1</sub> Correct | <input type="checkbox"/> <sub>0</sub> Incorrect                 |
| c. to  | <input type="checkbox"/> <sub>1</sub> Correct | <input type="checkbox"/> <sub>0</sub> Incorrect                 |
| d. go  | <input type="checkbox"/> <sub>1</sub> Correct | <input type="checkbox"/> <sub>0</sub> Incorrect                 |
| e. out   | <input type="checkbox"/> <sub>1</sub> Correct | <input type="checkbox"/> <sub>0</sub> Incorrect                 |
| f. Note which hand the subject uses to write. If this is not done, ask subject if they are right or left-handed (For use in Question 16)?: |   | <input type="checkbox"/> Right<br><input type="checkbox"/> Left |

**Question 14 Total Score: \_\_\_\_\_ (Max. Score: 5)**

**Question 14 Total Score = Sum of 14a through 14e. NOTE: Do not score question 14f.**

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

Hand the subject a piece of paper and Stimuli Card. For right-handed subjects, present the sample on their left side. For left-handed subjects, present the sample on their right side. Allow 1 minute for copying. In scoring, do not penalize for left-corrected errors, tremors, minor gaps, or overshoots.

- |               |   |
|---------------|---|
| a. Pentagon 1 | <input type="checkbox"/> <sub>4</sub> 5 approximately equal sides               |
|               | <input type="checkbox"/> <sub>3</sub> 5 sides, but longest:shortest side is 2:1 |
|               | <input type="checkbox"/> <sub>2</sub> Non-pentagon enclosed figure              |
|               | <input type="checkbox"/> <sub>1</sub> 2 or more lines, not an enclosure         |
|               | <input type="checkbox"/> <sub>0</sub> Less than 2 lines/refused                 |
| b. Pentagon 2 | <input type="checkbox"/> <sub>4</sub> 5 approximately equal sides               |
|               | <input type="checkbox"/> <sub>3</sub> 5 sides, but longest:shortest side is 2:1 |
|               | <input type="checkbox"/> <sub>2</sub> Non-pentagon enclosed figure              |
|               | <input type="checkbox"/> <sub>1</sub> 2 or more lines, not an enclosure         |
|               | <input type="checkbox"/> <sub>0</sub> Less than 2 lines/refused                 |



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### MODIFIED MINI-MENTAL STATE EXAM

c. Intersection

- <sub>2</sub> 4-cornered enclosure  
<sub>1</sub> Other than 4-cornered enclosure  
<sub>0</sub> No enclosure/refused

Question 15 Total Score: \_\_\_\_\_ (Max. Score: 10)

**Question 15 Total Score = Sum of 15a through 15c.**

16. Refer back to Question 14f to determine the participant's dominant hand. Hold up a piece of white paper in plain view of the subject, but out of 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 subject. Do not repeat any part of the command. Do not give visual clues for them to take or return the paper. He/she may hand it back with either hand.

a. Takes paper in correct hand

- <sub>1</sub> Correct    <sub>0</sub> Incorrect

b. Folds paper in half

- <sub>1</sub> Correct    <sub>0</sub> Incorrect

c. Hands paper back

- <sub>1</sub> Correct    <sub>0</sub> Incorrect

Question 16 Total Score: \_\_\_\_\_ (Max. Score: 3)

**Question 16 Total Score = Sum of 16a through 16c.**

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

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

a. Socks

- <sub>3</sub> Spontaneous recall  
<sub>2</sub> Correct word/incorrect form  
<sub>2</sub> After **"Something to wear."**  
<sub>1</sub> After **"Was it shirt, shoes or socks?"**  
<sub>0</sub> Unable to recall/refused (provide the correct answer)

b. Blue

- <sub>3</sub> Spontaneous recall  
<sub>2</sub> Correct word/incorrect form  
<sub>2</sub> After **"A color."**  
<sub>1</sub> After **"Was it blue, black, brown?"**  
<sub>0</sub> Unable to recall/refused (provide the correct answer)





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### MODIFIED MINI-MENTAL STATE EXAM

c. Charity

- <sub>3</sub> Spontaneous recall
- <sub>2</sub> Correct word/incorrect form
- <sub>2</sub> After "A good, personal quality."
- <sub>1</sub> After "Was it honesty, charity, modesty?"
- <sub>0</sub> Unable to recall/refused (provide the correct answer)

**Question 17 Total Score: \_\_\_\_\_ (Max. Score: 9)**

**Question 17 Total Score = Sum of 17a through 17c.**

18. Special Problems?

- <sub>1</sub> Yes                      <sub>0</sub> No

a. If **YES**, primary problem?

- Vision
- Hearing
- Inability to write due to injury/illness
- Illiteracy/lack of education
- Language (difficulty speaking/understanding English)
- Other. **Specify:** \_\_\_\_\_

Secondary problem (**specify**): \_\_\_\_\_  
 \_\_\_\_\_

#### Modified MMSE Scoring Tally Sheet

Question Number	Maximum Score	Question Total	Question Number	Maximum Score	Question Total
Question 1 Total	5		Question 10 Total	6	
Question 2 Total	3		Question 11 Total	2	
Question 3 Total	2		Question 12 Total	3	
Question 4 Total	5		Question 13 Total	3	
Question 5 Total	9		Question 14 Total	5	
Question 6 Total	15		Question 15 Total	10	
Question 7 Total	5		Question 16 Total	3	
Question 8 Total	5		Question 17 Total	9	
Question 9 Total	10				

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**Modified MMSE Total Score: \_\_\_\_\_ (Maximum Score: 100)**