

## Frequent Hemodialysis Network MODIFIED MINI-MENTAL STATUS QUESTIONNAIRE - FORM #231

**Instructions:** Review all instructions in MOP on how to properly administer this test. It is strongly recommended that this test be done pre-dialysis or should not be done within the 1st six hours from end of hemodialysis. The study coordinator should conduct the test with the patient first and then go back later to score it.

**Schedule:** Daily: Baseline, F-4 and F-12.

Nocturnal v3.0: Baseline, F-4 and F-12. (*Nocturnal v2.1: Baseline, F-5 and F-14.*)

1. Participant ID #					2. Alpha Code		3a. Visit Type	3b. Visit Number		4a. Date of Test: dd/mon/yyyy									

4b. Time of test? (24-hr clock) ..... : ..

*Items 4c and d can be patient reported:*

c. Date of last dialysis treatment (dd/mon/yyyy) ..... / .. / ..

d. End time of last dialysis treatment? (24-hr clock) ..... : ..

**Examiner: "Are you comfortable? 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."**

5. Examiner: **"When were you born?"** (For 5a-c: Record 0=Incorrect, 1=Correct)

a. Month: .....

b. Day: .....

c. Year: .....

6. Examiner: **"Where were you born?"** (For 6a-b: Record 0=Incorrect, 1=Correct)

a. City/town: .....

b. State/country: .....

*continued on next page*

Examiner: **"I am going to say three words for you to remember. Repeat them after I have said all three words: Shirt, Blue, Honesty"**

*Examiner note: 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. Record responses to first attempt.*

For items 7a-c: Record 0=Incorrect, 1=Correct

- 7. a. Shirt: \_\_\_\_\_
- b. Blue: \_\_\_\_\_
- c. Honesty: \_\_\_\_\_
- d. Number of presentations necessary for the participant to repeat the presentation: \_\_\_\_\_

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Examiner: **"I would like you to count from 1 - 5. If unable to count forward correctly: say 1-2-3-4-5."**

- 8. a. Counting from 1-5: \_\_\_\_\_  
(0=Unable to count forward, 1=Able to count forward)

Examiner: **"Now I would like you to count backwards from 5 to 1."**

- b. Counting backwards from 5 to 1: (write in participant's response) \_\_\_\_\_  
*(Start recording in the first dash. If participant is unable to complete the series, fill in the rest of the dashes with asterisks. The database will allow you to enter the asterisks and will score this item automatically once the participant's responses are entered. )*

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Examiner: **"Spell the word, 'world'."** Record letters in the order given.

- 9. a. Spelling "world": \_\_\_\_\_  
(0=Unable to spell forward, 1=Able to spell forward)  
*Examiner note: If unable to spell correctly: say "It's spelled W O R L D."*

Examiner: **"Now spell 'world' backwards."**

- b. Spelling "world" backwards: (write in participant's response) \_\_\_\_\_  
*(Record the first five letters in the order given starting with the first dash. If participant is unable to complete the series, fill in the rest of the dashes with asterisks. The database will allow you to enter the asterisks and will score this item automatically once the participant's responses are entered. )*

Examiner: **"What three words did I ask you to remember earlier?"**

*Examiner note: 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, record "Unable to recall/refused" and provide the correct answer. Examiner should allow 3 seconds between promptings.*

10. a. Shirt: \_\_\_\_\_

0=Unable to recall/refused (provide the correct answer)

1=Spontaneous recall

2=Correct word/incorrect form

3=After **"Something to wear"**

4=After **"Was it shirt, shoes, or socks?"**

b. Blue: \_\_\_\_\_

0=Unable to recall/refused (provide the correct answer)

1=Spontaneous recall

2=Correct word/incorrect form

3=After **"A color"**

4=After **"Was it blue, black or brown?"**

c. Honesty: \_\_\_\_\_

0=Unable to recall/refused (provide the correct answer)

1=Spontaneous recall

2=Correct word/incorrect form

3=After **"A good personal quality"**

4=After **"Was it honesty, charity or modesty?"**

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Examiner: **"What is today's date?" (month/day/year)**

*Examiner note: Record response verbatim. If no response, enter '9'.*

11 a. Month: \_\_\_\_\_

0=Incorrect

1=Within 1 month

2=Correct response

b. Day: \_\_\_\_\_

0=Incorrect

1=Within 2 days

2=Within 3-5 days

3=Correct response

c. Year: \_\_\_\_\_

0=Incorrect

1=Within 1 years

2=Within 2-5 years

3=Correct response

Examiner: **"What day of the week is it?"**

11d. Day of the week: \_\_\_\_\_  
0=Incorrect  
1=Correct

Examiner: **"What season of the year is it?"** (see MOP for instructions on 'season')

e. Season: \_\_\_\_\_  
0=Incorrect  
1=Correct

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Examiner: **"What state (province) are we in?"**

12 a. State: \_\_\_\_\_  
0=Incorrect  
1=Correct

Examiner: **"What county (parish) are we in?"**

b. County: \_\_\_\_\_  
0=Incorrect  
1=Correct

Examiner: **"What city/town are we in?"**

c. City/town: \_\_\_\_\_  
0=Incorrect  
1=Correct

Examiner: **"Are we in a clinic, store or home?"** (substitute actual location, if needed)

d. Clinic, store, home: \_\_\_\_\_  
0=Incorrect  
1=Correct

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Examiner: Point to forehead: **"What do you call this part of the face?"**

13. a. Forehead: \_\_\_\_\_  
0=Incorrect  
1=Correct

Examiner: Point to chin: **"And this part of the body?"**

b. Chin: \_\_\_\_\_  
0=Incorrect  
1=Correct

Examiner: Point to shoulder: **"And this part of the body?"**

c. Response to shoulder: \_\_\_\_\_  
0=Incorrect  
1=Correct

Examiner: Point to elbow: "And this part of the body?"

- d. Elbow: \_\_\_\_\_  
0=Incorrect  
1=Correct

Examiner: Point to knuckle: "And this part of the hand?"

- e. Knuckle: \_\_\_\_\_  
0=Incorrect  
1=Correct

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Examiner: "What animals have 4 legs? Tell me as many as you can."

*Examiner Note: Discontinue after 30 seconds. Record the total number of correct responses. If the participant gives no response in 10 seconds and there are still at least 10 seconds remaining, gently remind them (once only) "What other animals have four legs?"*

*The first time an incorrect answer is provided, say "I want four legged animals."*

_____	_____
_____	_____
_____	_____
_____	_____
_____	_____
_____	_____
_____	_____
_____	_____
_____	_____
_____	_____

14. Participant's total correct responses to animals: \_\_\_\_\_

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*Examiner Note: If the initial response is scored "lesser correct answer" or "Error," coach the participant by saying: "An arm and a leg are both limbs or extremities" to reinforce the correct answer. Coach only for Question #15a. No other prompting or coaching is allowed.*

Examiner: "In what way are an arm and leg alike?"

- 15 a. Arm/leg: \_\_\_\_\_  
0=Error (states differences, gives unrelated answer)  
1=Lesser correct response (e.g., body parts, both bend, have joints)  
2=Correct response (limbs, extremities, appendages)

Examiner: **"In what way are laughing and crying alike?"**

- b. Laughing/crying: \_\_\_\_\_  
0=Error (states differences, gives unrelated answer)  
1=Lesser correct response (e.g., sounds, other similar responses)  
2=Expressions or feelings, emotions

Examiner: **"In what way are eating and sleeping alike?"**

- c. Eating/sleeping: \_\_\_\_\_  
0=Error (states differences, gives unrelated answer)  
1=Lesser correct response (e.g. bodily functions, relaxing, "good for you")  
2=Necessary bodily functions, essential for life

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Examiner: **"Repeat what I say: "I would like to go out."**

*Examiner Note: Pronounce the individual words distinctly but with normal tempo of a spoken sentence.*

16. Participant's response: \_\_\_\_\_  
0=3 or more words missing  
1=1 or 2 words missed  
2=Correct

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Examiner: **"Now repeat: "No ifs, ands or buts."**

*Examiner Note: Pronounce the individual words distinctly but with normal tempo of a spoken sentence. Give no credit if the participant misses the 's.'*

17. a. 'No ifs': \_\_\_\_\_  
0=Incorrect  
1=Correct
- b. 'Ands': \_\_\_\_\_  
0=Incorrect  
1=Correct
- c. 'Or buts': \_\_\_\_\_  
0=Incorrect  
1=Correct

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Examiner: Hold up Card#1 (card says: CLOSE YOUR EYES) and say: **"Please do this."**

*Examiner note: If the subject does not close their eyes within five 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 five seconds for the response. Record "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."*

18. Participant response: \_\_\_\_\_  
0=Does not read aloud or closes eyes/refuses  
1=Reads aloud, but does not close eyes  
2=Obeys with prompting  
3=Obeys without prompting

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

*Examiner note: Give the participant a piece of paper and a pencil. Note which hand the participant uses to write. Allow a maximum of 1 minute after the first reading of the sentence for the scored response. Assign 1 for each correct word, but no credit for "I". For each word, mark "0" if there are spelling errors. Do not penalize self-corrected errors. If this task is not done, ask the participant if they are right or left handed {for use in Questions 20 and 21}.*

19. a. **'would':** \_\_\_\_\_  
0=Incorrect  
1=Correct
- b. **'like':** \_\_\_\_\_  
0=Incorrect  
1=Correct
- c. **'to':** \_\_\_\_\_  
0=Incorrect  
1=Correct
- d. **'go':** \_\_\_\_\_  
0=Incorrect  
1=Correct
- e. **'out':** \_\_\_\_\_  
0=Incorrect  
1=Correct
- f. What hand did the participant use to write the sentence?.....  
1=Right  
2=Left

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Examiner: **"Here is a drawing. Please copy the drawing onto this piece of paper."**

*Examiner's Note: Hand the participant Card #2 (pentagon drawing) and a blank piece of paper. Allow 1 minute for copying. For right-handed participants, present the sample on the left side; the left-handed participants present the sample on the right side. Do not penalize for self-corrected errors, tremors, minor gaps, or overshoots. Do not allow patient to trace drawing.*

20. a. Pentagon 1:.....  
0=Less than 2 lines / refused  
1=2 or more lines, but it is not an enclosed figure  
2=Non pentagon enclosed figure  
3=5 sides, but longest: shortest side>2:1  
4=5 sides, approximately equal sized
- b. Pentagon 2:.....  
0=Less than 2 lines / refused  
1=2 or more lines, but it is not an enclosed figure  
2=Non pentagon enclosed figure  
3=5 sides, but longest: shortest side>2:1  
4=5 sides, approximately equal sized
- c. Intersection of pentagons: .....  
0=No enclosure / refused  
1=Other than 4-corned enclosure  
2=4-cornered enclosure

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*Examiner: Refer back to Question 19f 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 using both hands, and hand it back to me."**

21. a. Takes paper in correct hand: .....  
0=Incorrect  
1=Correct
- b. Fold paper in half correctly:.....  
0=Incorrect  
1=Correct
- c. Hands paper back:.....  
0=Incorrect  
1=Correct

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**Examiner: "What three words did I ask you to remember earlier?"**

*Examiner note: 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, record "0" and provide the correct answer.*

22. a. Shirt: \_\_\_\_\_  
0=Unable to recall/refused (provide the correct answer)  
1=Spontaneous recall  
2=Correct word/incorrect form  
3=After **“Something to wear”**  
4=After **“Was it shirt, shoes, or socks?”**
- b. Blue: \_\_\_\_\_  
0=Unable to recall/refused (provide the correct answer)  
1=Spontaneous recall  
2=Correct word/incorrect form  
3=After **“A color”**  
4=After **“Was it blue, black or brown?”**
- c. Honesty: \_\_\_\_\_  
0=Unable to recall/refused (provide the correct answer)  
1=Spontaneous recall  
2=Correct word/incorrect form  
3=After **“A good personal quality”**  
4=After **“Was it honesty, charity or modesty?”**

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Examiner: **“Would you please tell me again where were you born?”**

23. Participant response: \_\_\_\_\_  
*Examiner note: Do not score this item. If the answer matches the answer given in Items 6a & b, mark those responses correct.*
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If physical/functional disabilities or other problems exist which cause the participant difficulty in completing any of the tasks, record the nature of the problem from the following problems codes.

24. a. Did the participant have any physical/functional disabilities as stated above?..... \_\_  
0=No, test completed, go to Q200; 1=Yes, complete 23 b-f.
- Identify the following disabilities: Use codes: 0= No, 1=Yes
- b. Vision:..... \_\_
- c. Hearing:..... \_\_
- d. Writing problems due to injury or illness or amputation: ..... \_\_
- e. Illiteracy or lack of education: ..... \_\_
- f. Language:..... \_\_

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100. Language used to complete this form? (1=English, 2=Spanish)..... \_\_

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200. Date this form completed (dd/mon/yyyy) ..... \_\_/\_\_\_/\_\_\_

201. Username of certified person who performed this test..... \_\_\_\_\_

**For Clinical Center Use Only:**

**202. Username of person entering this form:** \_\_\_\_\_

**203. Date Entered: (dd/mon/yyyy)** \_\_/\_\_\_/\_\_\_

**CLOSE YOUR EYES**

