

## PHASE 13 - Mini-Mental State Examination (MMSE)

I am going to ask you some questions now which have to do with your concentration and memory. Some of them may seem rather easy, others may be difficult, but we need to ask everyone the same questions.

BMM\_VER

### 1. ORIENTATION

#### *Time*

- |   |          |           |   |           |   |
|---|----------|-----------|---|-----------|---|
| (a) “What day of the week is it?”                 | BMM_ORA  | Incorrect | 0 | Not asked | 9 |
|   |          | Correct   | 1 |           |   |
| (b) “What is the date today?”                     | BMM_ORBD | Incorrect | 0 | Not asked | 9 |
|   |          | Correct   | 1 |           |   |
| Day   |          |           |   |           |   |
| Month   | BMM_ORBM | Incorrect | 0 | Not asked | 9 |
|   |          | Correct   | 1 |           |   |
| Year  | BMM_ORBY | Incorrect | 0 | Not asked | 9 |
|   |          | Correct   | 1 |           |   |
| (c) “What is the season?”<br>(write season _____) | BMM_ORC  | Incorrect | 0 | Not asked | 9 |
|   |          | Correct   | 1 |           |   |

*Allow flexibility when season changes, eg:-*

March	=	Winter/ Spring
June	=	Spring/ Summer
September	=	Summer/ Autumn
December	=	Autumn/ Winter

#### *Place*

- |   |         |           |   |           |   |
|---|---------|-----------|---|-----------|---|
| (d) “Can you please tell me which county or borough you live in?”                                 | BMM_ORD | Incorrect | 0 | Not asked | 9 |
|   |         | Correct   | 1 |           |   |
| (e) “Can you tell me where we are now? For instance,<br>What is the name of this city (or town)?” | BMM_ORE | Incorrect | 0 | Not asked | 9 |
|   |         | Correct   | 1 |           |   |
| (f) “Now, can you tell me if we are north, south, east or west of London?”                        | BMM_ORF | Incorrect | 0 | Not asked | 9 |
|   |         | Correct   | 1 |           |   |
| (g) “What floor of the building are we on?”   | BMM_ORG | Incorrect | 0 | Not asked | 9 |
|   |         | Correct   | 1 |           |   |
| (h) “What is the name of this street?”  | BMM_ORH | Incorrect | 0 | Not asked | 9 |
|   |         | Correct   | 1 |           |   |

## 2. REGISTRATION

“I am going to name three objects. After I have finished saying all three, I want you to repeat them. Remember what they are because I am going to ask you to name them again in a few minutes.”

Name the following three objects taking 1 second to say each: **apple, table, penny**. If any errors or omissions are made on the first attempt, **repeat all the names** until participant learns all three (maximum of five repeats). Stop either when all words are recalled or when 5 repeats are completed

	(1st Attempt)	(Repeat 1)	(Repeat 2)	(Repeat 3)	(Repeat 4)	(Repeat 5)	
Apple	_____	_____	_____	_____	_____	_____	
Table	_____	_____	_____	_____	_____	_____	
Penny	_____	_____	_____	_____	_____	_____	
Total	_____	_____	_____	_____	_____	_____	Not asked 9

**BMM\_RGTO**

## 3. ATTENTION/ CONCENTRATION

“Now I would like you to take 7 away from 100.  
Now take 7 away from the number you get.  
Now keep subtracting 7 until I tell you to stop.”

Record answers. Score 1 point each time the difference is 7, even if a previous answer was incorrect.

Maximum score = 5 points

Correct	Response	Correct (✓)
93	_____	_____
86	_____	_____
79	_____	_____
72	_____	_____
65	_____	_____

**BMM\_ACAR**  
**BMM\_ACBR**  
**BMM\_ACCR**  
**BMM\_ACDR**  
**BMM\_ACER**

**BMM\_ACTO** Total \_\_\_\_\_ Not asked 9

Say “**Spell the word “WORLD”**”. (participant’s response) \_\_\_\_\_  
(you may help participant to spell world correctly)

Incorrect 0  
Correct 1 Not asked 9

(If the participant cannot spell “world” even with assistance - score 0)

Say “**now spell it backwards please**” (participant’s response) \_\_\_\_\_

Allow 30 seconds to spell backwards.

Correct (✓)  
(Correct) D L R O W

Maximum score = 5 points

**BMM\_ACDW** Total \_\_\_\_\_ Not asked 9

## 4. MEMORY RECALL

“What were the three objects I asked you to repeat a little while ago?”

Tick each item answered correctly and enter number correct under total.

	Correct (✓)
Apple	_____
Table	_____
Penny	_____
Total	_____

Not asked 9

**BMM\_MRTO**

## 5. EXPRESSION: NAMING

Accurate naming is needed; descriptions of function or approximate answers are not acceptable. Some items may have more than one correct name, as has been indicated. Errors include description of function (eg:- 'used for telling the time' for watch).

In the case of approximate answers, you should say 'Can you think of another word for it?'

Tick each item correctly named and enter number correct under total.

	Show pencil			Correct (✓)
(a)	<b>"What is this called?"</b> (write response _____)	Pencil	_____	
	Show wristwatch			
(b)	<b>"What is this called?"</b> (write response _____)	Watch	_____	
		Total	_____	Not asked 9

**BMM\_ENTO**

## 6. EXPRESSION: REPETITION

Only one presentation is allowed so it is essential that you read the phrase clearly and slowly, enunciating all the S's

**"I am going to say something and I would like you to repeat it after me:  
'No ifs, ands or buts'**

Incorrect	0		
Correct	1	Not asked	9

**BMM\_ER**

## 7. LANGUAGE: READING COMPREHENSION

Show card that says "CLOSE YOUR EYES". It is not necessary for participant to read aloud. If participant reads instruction but fails to carry out action, say '**Now do what it says**'.

**"Read this page and then do what it says. "**

Close your eyes	Incorrect	0		
	Correct	1	Not asked	9

**BMM\_LRC**

## 8. PRAXIS: IDEATIONAL

Read the following statement and then hand to the participant a sheet of paper. Make a point of handing to the participant's mid-line.

Do not repeat instructions or coach. Score a move as correct only if it takes place in the correct sequence. Tick each correct move and enter number correct under total. Maximum score = 3 points. (Note 0 if not done or not done correctly; 1 if correct).

				Correct (✓)
<b>"I am going to give you a piece of paper.</b>	Right hand	_____		
<b>When I do, take the paper in your right hand.</b>	Folds	_____		
<b>Fold the paper in half with both hands,</b>	On lap	_____		
<b>and put the paper down on your lap."</b>	Total	_____	Not asked	9

**BMM\_PITO**

## 9. PRAXIS: COPYING AND DRAWING

The participant should draw and write on the sheet of paper provided. Each pentagon should have 5 sides and 5 clear corners and the overlap should form a diamond.

“Copy this design” (show card with pentagon)

Incorrect	0		
Correct	1	Not asked	9

**BMM\_PCD**

Staple the pentagon sheet to the MMSE questionnaire and make sure study number is on it.

## 10. WRITING

The participant should write on the sheet of paper provided. The sentence should make sense. Ignore spelling errors. Allow 30 seconds.

(Hand participant a pencil and paper)

“Write any complete sentence on that piece of paper”

Incorrect	0		
Correct	1	Not asked	9

**BMM\_WRIT**

***Thank the participant.***

Staple the sheets with the pentagon and the sentence to the MMSE questionnaire and make sure study number is on all items.