CISA ÉICV Canadian Longitudinal Study on Aging Étude longitudinale canadienne sur le vieillissement	Title:	Timed-based Prospective Memory Test		
	Version Date:	2014-JUL-10	Document Number:	COD DOC 0000
	Effective Date:	2014-OCT-15		SOP_DCS_0029
Data Collection Site (DCS)	Version:	3.0	Number of Pages:	5

1.0 Purpose:

The purpose of this document is to describe the standard administration of the Timebased Prospective Memory Test (TMT) cognitive test.

2.0 Scope:

This document is to be used by the DCS staff when administering the TMT cognitive test to a study participant.

3.0 Responsibilities:

It is the responsibility of the DCS staff to perform the procedures as described in the current and approved version of the standard operating procedure.

4.0 Related Documents:

Disease Symptoms Questionnaire

5.0 Definitions:

- Intention to Perform: the degree to which the signal (i.e., the alarm going off) elicits a self-initiated response from the participant.
- Accuracy of Response: the degree to which the target action is performed as originally instructed. It is scored based on the correspondence between object (i.e., what card is selected) and participant (i.e., what person gets the card).
- Need of Reminders: the number of reminders (up to three) needed by the participant to initiate and/or to complete the task.

6.0 Equipment:

- Large clock; and,
- Oven timer.

7.0 Supplies:

- Envelope containing numbered cards; and,
- TMT reference sheet.

8.0 Procedure Steps:

Contraindications:

- Participant cannot tell time correctly,
- cannot see the clock face, or

is unable to remove the cards from the envelope.

Administer the tasks in the order in which they appear in this document. **Note that this will require moving back and forth between two different modules**.

Precise adherence to time limits and standardized instructions is critical.

Please ask the participant if they need to use the bathroom before the test begins, as it is not advisable to interrupt this stage.

Pausing a Module in Onyx;

Step 1: Click on Administration,

Step 2: Click on Pause.

Step 3: Enter your **password**, **choose Interviewer's decision** from the drop down menu, if required.

Step 4: Add **Pause** to the comment section

Step 5: Click on Continue.

Task 1 - TMT Module

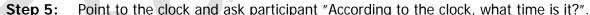
Step 1: Reference is made to the written instructions and variable names found in the <u>Disease Symptoms Questionnaire</u>.

Step 1: **At the *Interview tab* in Onyx locate the <u>Time Based Prospective Memory Task</u> module and click start in that row. **

Step 2: Select the correct language and choose **Next**.

Step 3: From Onyx read the introductions to the participant.

Step 4: Set the large clock face to <u>8:00</u>, as shown here.



Response	Steps	
Correct Time Indicated	i.	In Onyx, click Yes and Next
Incorrect Time Indicated	i.	Tell participant the correct time
	ii.	Repeat Step 3 : and Step 4 : with the following practice times: \rightarrow 3:00 \rightarrow 12:15 \rightarrow 12:30 \rightarrow 8:00 NOTE: Only do 1 practice time if the participant gets it correct
	iii.	Indicate in Onyx if participant passed the practice trial by: Passed 2 nd practice trial → Click Yes and Next. Fails 2 nd Practice Trial

→ If participant fails any of the practice trials, discontinue
the test
→ In Onyx click No and Next.

- **Step 6:** Using the script in Onyx;
 - → Explain and demonstrate the task to the participant.
 - \rightarrow Re-order the cards and put them back in the envelope.
 - → Inform participant that you are going to repeat the instructions. Be sure to present the cards in a different order from the one used in the first presentation.
- **Step 7:** Put the cards back into the envelope, arranging them so that the card with the #17 cannot be the first card pulled out of the envelope, as indicated in the instructions in Onyx.

Step 8: Using the script in Onyx verify that participant understands what they are supposed to do.

	eu to do.			
Response	Steps			
Repeats	i. In Onyx, click Yes and Next			
Instructions				
Correctly				
Repeats	i. Repeat instructions provide			
Instructions				
Incorrectly	ii. Make sure s/he knows the target time, the request and action			
	iii. Repeat instructions 2 more times if required			
	iv. Indicate in Onyx if participant is able to complete the test by:			
	Able (repeated instructions correctly)			
	→ Click Yes and Next.			
	Unable (couldn't repeat instructions correctly)			
	→ In Onyx click No and Next.			
	→ Enter the factors that prevented the participant from			
	doing the test, click Next .			
	→ Click Finish (this will end the module)			

- **Step 9:** Place the envelope on the table, out of reach but in view of the subject as s/he works on other tasks.
- Step 10: Reset the clock to 8:00. Place the clock on the table between yourself and the participant, to the left or right hand side of the work surface (see diagram), in a position where the participant can clearly see the time.

 Participant
 X

 Examiner
- **Step 11:** Set the oven timer for 19 minutes.
 - → Do not allow the participant to see the interval of time selected.
 - → Place the oven timer in close proximity to the interviewer in a place where the participant is unable to see the time. Remember to keep track of the time, but do not look at the clock at any time to avoid cueing the participant.

Task 2 - Disease Symptoms

- **Step 13:** In Onyx at the *Interview Tab* locate the <u>Disease Symptoms</u> module and click start in that row.
- **Step 14: Scan** the participant ID and click on **Continue**.
- **Step 15:** Select the language and click **Next**.
- **Step 16:** Administer the questions in the order in which they appear.

Time Delay for Task 1 (PMT)

Step 17: When the time has reached 8:15 if the participant initiates a response proceed to **Step 18:**, if the participant doesn't respond continue to administer the <u>Disease Symptoms</u> module until they initiate a response or 8:19, whichever comes first.

Step 18: Using the table below initiate the corresponding steps to complete the TMT:

tep 18: Using the ta	ble below initiate the corresponding steps to complete the TMT:			
Response	Steps			
Participant	i. Pause the <u>Disease Symptoms</u> module.			
initiates a	ii. <u>Click resume on the Time Based Prospective Memory Task</u>			
response at	Module.			
8:15	iii. Click Next			
	iv. Skip over the questions pertaining to the three cues by			
	choosing Not applicable and then Next for each question.			
Participant	i. If the participant does not initiate a response, at 8:15,			
initiates a	allow a <u>4-minute</u> grace period			
response before	ii. Once the response is initiated, Pause the <u>Disease Symptoms</u>			
8:19	module.			
	. Click resume on the <u>Time Based Prospective Memory Task</u>			
	Module.			
	iv. Click Next .			
	v. Answer the questions pertaining to the three cues, entering			
	any behavioural observations and/or comments about the			
	participant's performance on the task.			
Participant	i. Interrupt whatever s/he is doing			
doesn't initiate	ii. Pause the <u>Disease Symptoms</u> module			
a response	iii. Click resume on the <u>Time Based Prospective Memory Task</u>			
before 8:19	Module.			
	iv. Click Next .			
	ν. Initiate provision of <u>hierarchical cues</u> , beginning with the			
	reminder as indicated in Onyx.			
	vi. The next cue may be introduced in order that is appears in			
	Onyx, until the participant responds correctly to the cue or			
	there are no more cues to give.			
	vii. Record in Onyx any behavioural observations and/or			
	comments about the participant's performance on the task.			
	These comments may be particularly useful when there is			
	uncertainty about the score to be assigned to one or more of			
	the scoring criteria (i.e., Intention to Perform, Accuracy of			

Response, Need of Reminders).

NOTE: If the participant verbalizes an action that s/he is supposed to do as part of the test, but does not do the action, say: "Please do whatever you think you were supposed to do," regardless of whether the verbalized action is correct or not.

- **Step 19:** In Onyx select the statement that most accurately describes the participant's:
 - → Intention to Perform;
 - → Accuracy of Response; and,
 - → Need of Reminders.

NOTE: Use the corresponding drop down menu to complete the statement if using answer 2-4 for the Need of Reminders.

- Step 20: Click on Next, then Finish and Continue.
- **Step 21:** If you need to return to the <u>Disease Symptoms</u> Module, go to the *Interview Tab* and click on **Resume**. Complete the remainder of the questions in this module.

9.0 Documentation and Forms:

Not applicable

10.0 References:

 Loewenstein D, Acevedo A. The Prospective Memory Test: Administration and scoring manual. Unpublished manuscript. University of Miami School of Medicine; 2001.

Revision History:

New Version #	Revision Date	Revision Author	Content Approval
3.0	2015-JUL-10	Lorraine Moss	Mark Oremus
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Summary of Revisions

Added definitions to **Definitions** section for 'Intention to Perform', 'Accuracy of Response', and 'Need of Reminders'.

A note was added: Please ask the participant if they need to use the bathroom before the test begins, as it is not advisable to interrupt this stage.

The entire **Section 8.0** was reviewed and reformatted to include tables and the reorganization of the steps.

Purpose, Scope, and Responsibilities sections were reviewed and updated.

SOP formatting updated.

New Version #	Revision Date	Revision Author	Content Approval
2.0	2013-Feb-12	Lorraine Moss	Mark Oremus

Summary of Revisions

Step 7 – 2nd & 3rd sentence merged into 1 and re-worded to read "...If there are any factors that may influence the participant's performance on the measurement, the module will come to an end..."

Added "Repeat instructions only 2 more times if necessary." To the end of step 6.

Changed step 14 to read "**Step 14** – If the participant initiates a response at 8:15, pause the Disease Symptoms module. If not, and the clock reaches <u>8:15</u>, allow a <u>4-minute</u> grace period for the participant to initiate a response. Pause the Disease Symptoms module if a response is initiated during the grace period."

Under step 16 the second bullet point has been re-worded to read "If participant has <u>not</u> initiated a response by <u>8:19</u>, interrupt whatever s/he is doing and see step 15 to pause Disease Symptoms module:"

