

Public reporting burden for this collection of information is estimated to average 16 minutes per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. An agency may not conduct or sponsor, and a person is not required to respond to, a collection of information unless it displays a currently valid OMB control number. Send comments regarding this burden estimate or any other aspect of this collection of information, including suggestions for reducing this burden, to: NIH, Project Clearance Branch, 6705 Rockledge Drive, MSC 7974, Bethesda, MD 20892-7974, ATTN: PRA (0925-0584). Do not return the completed form to this address.

OMB#: 0925-0584 Exp. 2/28/2011

## **HCHS/SOL Neurocognitive Assessment Booklet**

ID IUMBER:		FORM CODE: NEE VERSION: A 3/31/10	Contact Occasion	SEQ#
crostic:		_		
Administrative I	nformation			

ID NUMBER				FORM COD VERSION: A	E: NEE 03/31/2010	Contact Occasio	SE(	2#					
PART A. SIX-ITEM S	CREENER												
"In this part of the exa questions and give yo will require memory a	ou a couple of	short tasl	"Now, what were those three words I asked you to remember?"  5. Blue										
First, I will ask you so use your memory.	me questions	that ask y		Correct	Incorrect	Not Attempted /Disability	Not Attempted /Refusal						
I am going to say thre have said all three wo Remember what they	rds; then repe are, because I	at them. am going		1 🗆	2 🗆	3 🗆	4 🗆						
ask you to name them		v minutes	•	6.	Pear								
Please repeat these w				Correct	Incorrect	Not Attempted /Disability	Not Attempted /Refusal						
BLUE - PEAR - SOFA		:			1 🗆	2 🗆	3 □	4 🗆					
Interviewer may repeat th	·			_	0.1								
<ol> <li>Number of presentatio to repeat the words:</li> </ol>	ilis fiecessary for	trie particit	Jani	7.	Sofa		Not Attoropted	Not Attornated					
1 Presentation	1 🗖				Correct	Incorrect	Not Attempted /Disability	Not Attempted /Refusal					
2 Presentations 3 Presentations					1 🗆	2 🗆	3 □	4 🗆					
Incorrect													
Not Attempted/Disabili	ty 5 □			A response of "I don't know" is scored as "Incorrect."									
Not Attempted/Refusa	I 6 🗆			A self-corrected response is scored as "Correct."									
2. "What year is this?	,,			If Item 1 is scored as 4 (incorrect) then items 5-7 should not be asked and scored as 4.									
Correct Incorrect	Not Attempted /Disability	Not Attem /Refus		not	If Item 1 is scored as 5 or 6 then items 5-7 should not be asked and scored accordingly as either 3 or 4								
1 🗆 2 🗆	3 🗆	4 □		(co	nsistent w	vith item 1).							
3. "What month is this	s?"												
Correct Incorrect	Not Attempted /Disability	Not Attem /Refus											
1 🗆 2 🗆	3 □	4 □											
4. "What is the day of	the week?"												
Correct Incorrect	Not Attempted /Disability	Not Attem /Refus											
1 🗆 2 🗆	3 🗆	4 □											
If participant states the da	ate, repeat the qu	uestion.			Neuroc	ognitive Assessment For	m (NEE) Page 2 of 7						

	ID NUMBER								FORM	CODE:	NFF	Contact		SEQ#		]				
	.5 .10.1152.1										03/31/2010	Occasion		024"						
	ART B. SEVLT  "Next, I am going to you to listen carefor words as I read the	ully							8.1	l "l re	After reading the list say:  "Now tell me all of the words you can remember."									
When I stop, I would like you to recall as many of the words as you can. You may know some of the words by a different name, but I want you to try to remember the exact words I say.											Allow 60 seconds per trial.  After the participant's response, provide one prompt for additional words before going to the next trial.  Check off all words recalled for Trial 1.									
	You will not be able to remember all of the words so just do the best you can. You do not have to recall the words in the same order that I read them.  The words are"										"I am going to read the same list of words to you again. I want you to try to remember as many of the words as you can, including those you have recalled before. When I stop I want you to tell me as many of the words as you carremember."									
	8. (Trial 1	•	g (Tria	al 2)	`	<b>10</b> Tria	l 3)					the list say:								
	Cabbage □								9.1		"Now tell me all of the words you can remember."									
	Coffee □		[	J		🗆					After the participant's response, provide one promfor additional words before going to the next trial.									
	Beets									С	Check off all words recalled for Trial 2.									
	Dictionary □  Cocoa □  Beans □		[	]		🗆			10.	L	"I will read the same words once more. Listen carefully and when I finish tell me as many of the words as you can remember."									
	Strainer									Α										
	Oranges □								10.		"Now tell me all of the words you can remember."									
	Corn □  Newspaper □											icipant's resp words befor								
	Juice 🗆		🗆	J		🗆				С	Check off all words recalled for Trial 3.									
	Asparagus □		E	]		🗆														
Pan□□																				
	Tea □	•••••	E	]		🗆														
	ords should be read at rd (~ 23 seconds per t			pace o	f 1.5	sec	onds	s per												

Neurocognitive Assessment Form (NEE) Page 3 of 7

						1	1			1												
	ID NUMBER										FORM CODE: NEE Contact Occasion SEQ #											
Distra 11.	"I am going to words. This ti word out loud Immediately after the distracter list s	me, I I after	war 'I re	nt yo	ou ' it."	to re	epea	at ea	"Also, do not use the same word again with a different ending. For example, if you said 'take,' then you could not say 'takes,' or 'taking.' These would all be considered the same word. Are you ready?"													
11.1	"Now, I want words from the you can reme	you to ne <u>firs</u>	<u>t</u> lis							12. "Tell me as many words as you can that start with the letter F. I will tell you when to stop. Ready, go." Begin timing. Allow 60 seconds.												
D:-	Do not repeat the provide one prom  Check off all word	pt for a	dditic	onal v	word al 5	ds.			If the participant pauses for more than 10 seconds, encourage more words and remind him/her that both English and Spanish words are acceptable. Say: "Can you think of any more words that start with the letter F? Remember you can tell me words in English or Spanish."													
Eg:											Record all words produced (use the back of this page if more space is needed). Place a single strike mark through inadmissible words, i.e., proper nouns (names or places), simple variations (adding "ed" or "ly"), plurals, and repetitions.											
Mil	k	Coffe									Letter F											
Ch	erries	Beets	S								1											
Bo											2											
	eese	Cocc									3											
	tuce oon	Bean Strai						• • •	П		4											
Wa		Oran									5											
Fis	h	Corn									6											
Pei	n	News	spap	er							7											
Pea	ach	Juice	)								8											
	okies	Aspa																				
	tebook	Pan Tea									9											
	ions T C. WORD FL										10											
"On this next task, I will say a letter. Then I want you to tell me as many different words as you can think of, as fast as you can, that begin with that letter.										11												
You may tell me words in English or Spanish so long as they are different words. Leave out names of people, names of places, and numbers. So, if I									13 14													
'Thoı	to say "T," yo mas,' 'Texas,' d d say words lik	or the	nur	nbe	r '7	Γen.ˈ	' Bı	ut yo	15Neurocognitive Assessment Form (NEE) Page 4 of 7													

ID NUMBER											ORM CODE: NEE ERSION: A 03/31/2010	Contact Occasion		SEQ#						
13. "That was great. as you can that s tell you when to s	tart	wit	h tl	he le	ette	r A.			PART D. DIGIT-SYMBOL SUBSTITUTION (DSS) Place Digit-Symbol form in front of the participant.  14. "This last task is the digit-symbol task. Look at											
Begin timing. Allow 60 seconds.											these boxes	across the	top of	f the page	. Or	า th	е			
If the participant pauses for words and remind him/her t acceptable. Say: "Can you the letter A? Remember yo Spanish."	hat b think	oth E c of a	Engl any r	lish a more	and S word	panis	sh v at s	wor	top of each box are numbers from one through nine. On the bottom of each box there is a special mark. Each number has its own mark."  Point to 1 and its mark, then to 2 and its mark.											
Record all words produced is needed). Place a single s i.e., proper nouns (names a "ed" or "ly"), plurals, and rep	trike nd p	marl laces	k thr	rough	n inad	dmiss	sibl	e w		"Down here are boxes with numbers in the top part, but the bottom part is empty." Point to the four rows. "I want you to put the correct mark in each box like this."										
Letter A											<b>"</b> 11									
1										"Here is a 2; the 2 has this mark." Point to the first sample item, then to the mark below the 2 in the key. "So I put it in this box, like this." Write in the symbol.										
2									_		"Here is a 1; the 1 has this mark." Point to the second sample item, then to the mark below the 1 in the key.									
3									_		"So I put it in this box." Write in the symbol.									
<ol> <li>4</li> <li>5</li> </ol>									_		"Here is a 3; the 3 has this mark." Point to the third sample item, then to the mark below the 3 in the key. "So I put it in this box." Write in the symbol.									
									_		"Now, you fill in all the boxes up to this heavy line."									
	6.     7.										If the subject makes an error on a sample item, correct the error immediately and review the use of the key. Continue to help (if necessary) until the seven sample items have been filled in correct! Do not proceed with the test until the participant clearly understands.									
8									_		the task.  Look to see if a left-handed participant blocks the key when filling in									
9									_		the marks. If so, fold a separate template in half, exposing only the key, for the participant to use.									
10									"Yes, now you know how to do them."											
11									_	"When I tell you to begin, start here (point to the first test item) and fill in as many boxes as you can, one after the other, without skipping any. Work as quickly as										
12 13 14											you can. When you finish one line (sweep finger across the first row), go on to the next one (sweep finger across the second row). Keep working until I tell you to stop."									
											"Ready, go ahead." Begin timing. At the end of 90 seconds, say: "Stop. That's good, thank you. That completes this set of tasks."									

15.

Contact

If the participant omits an item or starts doing only one type (e.g., only the 1's), say, "Do them in order. Don't skip any."

Point to the first item skipped and say, "Do this one next." Note that Items done out of sequence should not be counted.

If the participant stops working, encourage him/her to continue until instructed to stop.

Neurocognitive Assessment Form (NEE) Page 5 of 7

## **DIGIT- SYMBOL**

 1
 2
 3
 4
 5
 6
 7
 8
 9

 ⊥
 □
 □
 □
 △
 ×
 =

SAM	PLES	;																						
2	1	3	7	2	4	8	2	1	3	2	1	4	2	3	5	2	3	1	4	5	6	3	1	4
1	5	1	2	7	6	3	5	7	2	8	5	1	6	3	7	2	8	1	9	5	8	1	7	3
I	3	4			0	3	3			0	3	4	O	<b>)</b>	•		0	1	9	3	0	4		3
																								<u> </u>
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
					ı	1						ı										ı		
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



## **HCHS/SOL Neurocognitive Scoring Summary**

1 11 3 5 11 15 11 1 1 1 1 1 1 1 1 1 1 1	CODE: NEE Contact Occasion SEQ #							
Acrostic:								
Administrative Information								
0a. Completion Date:////	0b. Staff ID:							
PART A: SIX ITEM SCREENER  For Questions 1 – 7 see Page 1, Section A of the Neurocognitive Assessment Booklet. ENTER results as they appear on the form.	15. What language were tests administered in?  English							
PART B: SEVLT	16a. Were any of the cognitive function test discontinued (from Parts B, C, or D)?							
Record the number of correct words recalled for each trial on Part B. Enter "=" as the score for any trials that were skipped or discontinued.	No → <b>END FORM</b> Yes 1							
Words Recalled from Part B:	16b. Which test(s) was discontinued:							
8. (Trial 1)	No Yes							
9. (Trial 2)	16b.1. SEVLT 0 1							
10. (Trial 3)	16b.2. Word Fluency0 1							
11. (Trial 5)	16b.3. Digit Symbol Substitution0 1							
PART C: WORD FLUENCY Record the number of acceptable words produced for each letter (F and A) on Part C. Enter "=" as the score for any letters that were skipped or discontinued.	16c. If yes, test(s) discontinued due to (record the appropriate letter for each test that was discontinued):  Refusal = 1							
Words Produced on Part C:	Task Difficulty							
12. Letter F	(i.e., could not understand) = 2							
13. Letter A	Impairment (i.e., Visual, Hearing, Limb/Motor Problem) = 3							
PART D: DIGIT SYMBOL SUBSTITUTION	16c1. Reason for discontinued SEVLT							
Apply the DSST scoring template to the responses on Part D and enter the number of <b>correct</b> symbols. Enter "=" as the score if the DSST was skipped or	16c2. Reason for discontinued  Word Fluency							
discontinued.	16c3. Reason for discontinued							
14. Total Correct Symbols on Part D:	Digit Symbol Substitution							