SUBJECT ID:	
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Neuropsychological Exams

The following 21 (7 tests) contain a battery of Neuropsychological testing. Be sure to carefully follow the instructions during the administration of each test. In addition, if a proxy is involved in the interview they should not be present during the testing. The testing should be administered in a quiet area to assure participant concentration.

(MMS) MINI-MENTAL STATE EXAMINATION

You will need: a pencil, a watch, a sheet of paper and the paper that reads close your eyes.

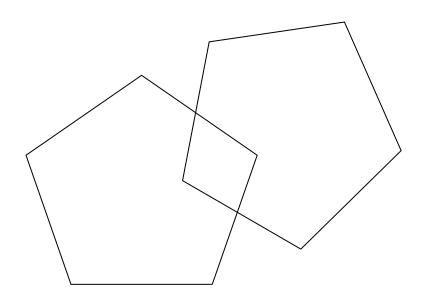
Instructions: I would like to ask you some questions to check your concentration and your memory. Most of them

will be easy.

QUESTIONS	RESPONSES	SCORE
ORIENTATION 1. What year is it? 2. What month is it? 3. What is today's date? (Score 1 point for each correct answer)	Year: Month: Date:	0 1 2 3
2. What is the season? (Score 1 point if correct)	Winter Spring Summer Fall	0 1
3. What day of the week is it? (Score 1 point if correct)	Day:	0 1
4. What city are we in? What part/neighborhood of the city are we in? What state are we in? (Score 1 point for each correct answer)	City: Part of city: State:	0 1 2 3
5. What is the address of this place?(Score 1 point for any appropriate answer)	(record answer)	0 1
6. What floor of the building/house are we on? (Score 1 point if correct)	(record answer)	0 1
REGISTRATION 7. I am going to name 3 objects. After I have said them I want you to repeat them back to me.	APPLE TABLE PENNY Check correct answers	0 1 2 3
 ATTENTION AND CALCULATION 8. Please subtract 7 from 100, and then subtract 7 from the answer you get and keep subtracting 7 until I tell you to stop? (1 point for each correct. Stop at five answers) 	Record:	0 1 2 3 4 5
RECALL9. What are the 3 objects I asked you to remember a few moments ago?	APPLE TABLE PENNY Check correct answers	0 1 2 3

LANGUAGE TESTS		
Show wristwatch: 10. What is this called?	WATCH (Score 1 if correct response)	0 1
(Score 1 point if correct)		
Show pencil:		
11. What is this called?	PENCIL (Score 1 if correct response)	0 1
(Score 1 point if correct)	(seere 1 y correct response)	
12. Please repeat the following: "NO IFS, ANDS, or BUTS." (Allow only one try)	Score 1 if correct	0 1
Hand "close your eyes" sheet: 13. Please read the following and do what it says: (Score 1 point if correct)	Score 1 if respondent closes eyes. Check here if low vision/illiteracy and score 0	0 1
Read full statement and then hand over the paper: 14. "I'm going to give you a piece of paper. When I do, take the paper in your right hand, fold the paper in half with both hands, and put the paper down on your lap."	Score 1 for each correctly performed act. Check here if low vision and score 0	0 1 2 3
15. Please write any complete sentence on this page for me (hand next page and a pencil).	Sentence should have a subject and a verb, and make sense. Spelling and grammar errors are okay Check here if low vision/illiteracy and score 0	0 1
16. Here is a drawing. Please copy the drawing on this same page. (Hand "drawing" sheet in next page)	Check if the two-sided figures intersect so that their juncture forms a four-sided figure, and if all angles in the five-sided figures are preserved.	0 1
17. TOTAL POINTS:	Add scores. Can be done later. (Maximum possible: 30 points)	

Sentence:			



SUBJECT ID:	
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Neuropsychological Battery in English Word List Learning

Instrument developed by L. Artiola y Fortuny, PhD © 1999 as a part of the "California Verbal Learning Test" from D. Delis y Cols. Copyright 1993.

LIST A

First Try: "I am going to read from a list of words. Please listen attentively. Once I have finished I would like for you to repeat the list as best as you can. The order in which you repeat the words does not matter. The most important thing is that you remember as many as you can. Are you ready?"

Second Try: "I am going to repeat the list of words. Once again, I would like for you to repeat as many words as you can in whatever order. Please remember to repeat the words you already said the first time."

Third Try: "I am going to repeat once again the same list of words. Once again, I would like for you to repeat all the words that you can in whatever order, including the ones you have said before."

1.	grandfather	5. hippopotamus	9. couch	13. dresser
2.	giraffe	6. sofa	10. zebra	14. panther
3.	leg	7. eye	11. uncle	15. cousin
4.	bed	8. mother	12. hand	16. nose

LIST A	1st Attempt	2nd Attempt	3rd Attempt	4th Attempt	5th Attempt
1. bed					
2. couch					
3. cousin					
4. dresser					
5. eye					
6. giraffe					
7. grandfather					
8. hand					
9. hippopotamus					
10. leg					
11. mother					
12. nose					
13. panther					
14. sofa					
15. uncle					
16. zebra					
17.					
18.					
19.					
20.					
CORRECT					

SUBJECT ID:

LIST B.

Instructions: "Now I am going to read a totally different list. Pay attention and repeat it in the order in which you please."

1. piano	9. finger
2. elephant	10. bear
3. shirt	11. dress
4. head	12. trumpet
5. leopard	13. rhinoceros
6. violin	14. coat
7. foot	15. ear
8. skirt	16. drum

LIST B	
1. bear	
2. coat	
3. dress	
4. drum	
5. ear	
6. elephant	
7. finger	
8. foot	
9. head	
10. leopard	
11. piano	
12. rhinoceros	
13. skirt	
14. shirt	
15. trumpet	
16. violin	
17.	
18.	
19.	
20.	
CORRECT	

SHORT TERM RECALL

Instructions:

"Now I would like you to repeat the words from the first list that I read 5 times"

SHORT TERM RECALL
1.
2.
3.
4.
5.
6.
7.
8.
9.
10.
11.
12.
13.
14.
15.
16.
17.
18.
19.
20.
CORRECT

SHORT TERM RECALL FACILITATED BY CLUES

Instructions:

"Please tell me all of the words from the first list that I read you that include animals, family members, etc."

SHORT TERM RECALL FACILITATED BY CLUES
1. ANIMALS
2.
3.
4.
5.
6. FAMILY MEMBERS
7.
8.
9.
10.
11. FURNITURE
12.
13.
14.
15.
16. BODY PARTS
17.
18.
19.
20.
CORRECT

STOP TIME __: __

SUBJECT ID:	

LONG TERM RECALL

20 minutes after Short Term Recall Facilitated by Clues

START TIME:		:		
--------------------	--	---	--	--

Instructions:

"A little while ago I read you a list of words. I would like you to repeat all the words from the first list, the one I read five times. Please begin."

LONG TERM RECALL
1.
2.
3.
4.
5.
6.
7.
8.
9.
10.
11.
12.
13.
14.
15.
16.
17.
18.
19.
20.
CORRECT

LONG TERM RECALL FACILITATED BY CLUES

Instructions:

"Please tell me all of the words from the first list that are family members, etc."

LONG TERM RECALL FACILITATED
BY CLUES
1. FAMILY MEMBERS
2.
3.
4.
5.
6. BODY PARTS
7.
8.
9.
10.
11. ANIMALS
12.
13.
14.
15.
16. FURNITURE
17.
18.
19.
20.
CORRECT

SUBJECT ID:	
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RECOGNITION

Instructions:

"Now let's try this in a different way. I am going to read a list of words. After each word, I would like for you to indicate whether

that word was included in the first list or not."

Interviewer: Mark the correct responses in the space provided to the right of the word. Do not mark any incorrect responses.

	Ítems	Yes
1	piano	
2	ear	
3	violin	
4	soap	
5	word	
6	father	
7	dresser	
8	tree	
9	cousin	
10	eye	
11	giraffe	
12	coat	
13	elephant	
14	coma	
15	grandfather	
16	book	
17	hippopotamus	
18	movie	
19	garlic	
20	leg	
21	spoon	
22	arm	
23	couch	
24	drum	
25	mother	
26	hall	
27	foot	
28	zebra	
29	aspirin	
30	hand	
31	bed	
32	tiger	
33	racetrack	
34	uncle	
35	panther	
36	bear	
37	rock	
38	pepper	
39	nose	
40	shirt	
41	table	
42	sofa	
43	jam	
44	handsaw	
	TOTAL	
	Possible	16

SHRI	JECT	ID·		
JUDJ		ID.		

Naming Words- This test is to see the speed with which you can read these words. You will read these words as fast as you can, by column. I will tell you when you should start. Read the first, second, third, fourth and fifth column until I say "STOP". Remember, continue reading in a loud voice, as fast as possible until I say "STOP". If you make a mistake I will say "No", correct the error and continue reading without stopping, until I say "STOP". Ready? Begin! (After 45 seconds): "STOP!" [Interviewer: Keep the test page on the table so that it will be easier to correct the subject if there is a mistake.]

1. RED	21. BLUE	41. GREEN	61. RED	81. BLUE
2. GREEN	22. GREEN	42. RED	62. BLUE	82. GREEN
3. BLUE	23. RED	43. BLUE	63. GREEN	83. RED
4. GREEN	24. BLUE	44. RED	64. RED	84. BLUE
5. RED	25. RED	45. GREEN	65. BLUE	85. GREEN
6. BLUE	26. GREEN	46. BLUE	66. GREEN	86. RED
7. RED	27. BLUE	47. GREEN	67. BLUE	87. GREEN
8. BLUE	28. GREEN	48. RED	68. GREEN	88. RED
9. GREEN	29. RED	49. BLUE	69. RED	89. BLUE
10. BLUE	30. GREEN	50. GREEN	70. BLUE	90. GREEN
11. GREEN	31. RED	51. BLUE	71. RED	91. RED
12. RED	32. BLUE	52. RED	72. GREEN	92. BLUE
13. GREEN	33. RED	53. BLUE	73. RED	93. GREEN
14. BLUE	34. BLUE	54. RED	74. GREEN	94. RED
15. RED	35. GREEN	55. GREEN	75. BLUE	95. BLUE
16. BLUE	36. BLUE	56. RED	76. GREEN	96. RED
17. RED	37. GREEN	57. BLUE	77. RED	97. GREEN
18. GREEN	38. RED	58. GREEN	78. BLUE	98. BLUE
19. RED	39. BLUE	59. RED	79. GREEN	99. RED
20. GREEN	40. RED	60. GREEN	80. BLUE	100. GREEN

Saara.	Number	Correct	
2000		t mrren	

SUBJECT ID:

Naming Colors- This part of the test is to see how quickly you can name these colors. I am going to tell you when to start. Name the colors in a loud voice, as fast as you can. Start with the first column, then the second, etc., just like in the previous task, until I say "STOP". When you finish the fifth column continue with the first column until I say "STOP". If you make a mistake, I will let you know. Correct your mistake and continue naming colors in a loud voice as fast as possible. Ready? "Begin" (After 45 seconds): "STOP!" [Interviewer: Keep the test page on the table so that it will be easier to correct the subject if there is a mistake.]

1. RED	22. RED	41. BLUE	61. GREEN	81. BLUE
2. BLUE	22. BLUE	42. GREEN	62. RED	82. GREEN
3. GREEN	23. RED	43. BLUE	63. BLUE	83. RED
4. RED	24. GREEN	44. RED	64. RED	84. BLUE
5. BLUE	25. BLUE	45. GREEN	65. GREEN	85. GREEN
6. RED	26. GREEN	46. BLUE	66. RED	86. BLUE
7. GREEN	27. RED	47. GREEN	67. GREEN	87. GREEN
8. BLUE	28. BLUE	48. RED	68. BLUE	88. RED
9. RED	29. RED	49. BLUE	69. GREEN	89. GREEN
10. GREEN	30. BLUE	50. GREEN	70. BLUE	90. BLUE
11. BLUE	31. GREEN	51. RED	71. RED	91. RED
12. GREEN	32. BLUE	52. GREEN	72. BLUE	92. BLUE
13. BLUE	33. RED	53. BLUE	73. RED	93. RED
14. RED	34. GREEN	54. RED	74. GREEN	94. GREEN
15. GREEN	35. BLUE	55. GREEN	75. BLUE	95. RED
16. BLUE	36. RED	56. RED	76. GREEN	96. GREEN
17. RED	37. GREEN	57. BLUE	77. RED	97. BLUE
18. GREEN	38. BLUE	58. RED	78. GREEN	98. GREEN
19. BLUE	39. RED	59. GREEN	79. BLUE	99. RED
20. RED	40. GREEN	60. BLUE	80. RED	100. BLUE

C	NT1	. () 4	
Score:	Numbei	r Correct	

SUBJECT ID:

Naming Colors/Ignoring Words- This part of the test is very similar to the one you have just finished. I am going to ask that you name the color of the ink in which the words are written, and ignore the word that it says. Do not read the words. Only name the color of the ink in which it is written. For example, what will you say here? (Point to the first word of the first column; show another example if necessary). Remember, name the color of the ink in a loud voice, as fast as you can, following the order of the columns. I am going to tell you when to start. I will also indicate when you have made a mistake. Correct yourself and continue as fast as you can. Ready? Begin. (After 45 seconds): "STOP!" [Interviewer: Keep the test page on the table so that it will be easier to correct the subject if there is a mistake.]

1. BLUE	21. RED	41. BLUE	61. GREEN	81. RED
2. RED	22. BLUE	42. GREEN	62. RED	82. BLUE
3. GREEN	23. GREEN	43. RED	63. BLUE	83. GREEN
4. BLUE	24. RED	44. BLUE	64. GREEN	84. RED
5. GREEN	25. GREEN	45. RED	65. RED	85. BLUE
6. RED	26. BLUE	46. GREEN	66. BLUE	86. GREEN
7. GREEN	27. GREEN	47. RED	67. GREEN	87. RED
8. RED	28. RED	48. BLUE	68. RED	88. BLUE
9. BLUE	29. BLUE	49. GREEN	69. BLUE	89. GREEN
10. RED	30. RED	50. RED	70. GREEN	90. BLUE
11. BLUE	31. BLUE	51. GREEN	71. BLUE	91. GREEN
12. GREEN	32. GREEN	52. BLUE	72. RED	92. RED
13. RED	33. BLUE	53. RED	73. BLUE	93. BLUE
14. GREEN	34. GREEN	54. GREEN	74. RED	94. GREEN
15. BLUE	35. RED	55. BLUE	75. GREEN	95. RED
16. GREEN	36. GREEN	56. GREEN	76. BLUE	96. BLUE
17. BLUE	37. RED	57. RED	77. GREEN	97. RED
18. RED	38. BLUE	58. BLUE	78. RED	98. GREEN
19. GREEN	39. RED	59. GREEN	79. BLUE	99. BLUE
20. BLUE	40. GREEN	60. BLUE	80. RED	100. RED

Score: Number Correct____

Score:

Neuropsychological Test Battery

LETTER FLUENCY

L. ARTIOLA i FORTUN Y D. HERMOSILLO ROMO © 1999

Instructions:

"I am going to say a letter of the alphabet and I want you to say as quickly as you can all the words that you can think of which begin with that letter. You may say any words at all, except proper names such as the names of people or places. So you would not say Rochester or Robert. Also do not use the same word again with a different ending such as eat and eating. For example, if I say S, you could say son, sit, strong, or state. Can you think of other words beginning with the letter S? If the subject has succeeded in giving two appropriate words beginning with the demonstration letter, say, "That is fine. Now I am going to give you another letter and again you say all the words beginning with that letter that you can think of. Remember, no names of people or places, just ordinary words. Also, if you draw a blank, I want you to keep on trying until the time limit is up. You will have one minute for each letter. The first letter is C (The second letter is F, the third letter is L)." [Interviewer: For each letter, you are allowed to remind the subject of the rules one time, i.e. word endings, proper nouns, and the letter that they are on]

\boldsymbol{C}	$oldsymbol{F}$	L
1.		
2. 3.		
3.		
4.		
5.		
6.		
7.		
8.		
9.		
10.		
11.		
12.		
13.		
14.		
15. 16.		
17. 18. 19. 20 21. 22.		

Dec 2004	
Version 4	

SUBJECT ID:

DIGIT SPAN

L. ARTIOLA I FORTUNY Y D. HERMOSILLO ROMO ©1999 INSTRUCTIONS FOR ADMINISTRATION OF THE DIGIT SPAN

I. Digits Forward

Instructions: "I am going to say some numbers. Listen carefully, and when I am through, I want you to say them right after me. Just say exactly what I say. So for example, if I say 1-2-3, you would say... The sets of numbers will grow longer as I go." **Interviewer:** Read the number sequences at a slow pace. Say one number at a time. Stop when the subject has both sequences incorrect in the same section.

	Sequence 1	Correct y/n	Sequence 2	Correct y/n
1.	9-3		1-5	
2.	5-8-2		6-9-4	
3.	6-4-3-9		7-2-8-6	
4.	4-2-7-3-1		7-5-8-3-6	
5.	6-1-9-4-7-3		3-9-2-4-8-7	
6.	5-9-1-7-4-2-8		4-1-7-9-3-8-6	
7.	5-8-1-9-2-6-4-7		3-8-2-9-5-1-7-4	
8.	2-7-5-8-6-2-5-8-4		7-1-3-9-4-2-5-6-8	

Digits Forward (AtVerIde) = ____

II. Digits Backward

Instructions: "Now I am going to say some more numbers. But this time when I stop, I want you to say them backward. For example, if I say 1-2-3, now you would say..." [3-2-1]

Interviewer: Wait for the subject to respond. If the sujects response is correct, say "Correct"; then begin. If the subject does not respond or the reponse is incorrect; tell them the correct response and give another example.

	Sequence 1	Correct	Sequence 2	Correct
1.	2-4	y/n	5-8	y/n
2.	6-2-9		4-1-5	
3.	3-2-7-9		4-9-6-8	
4.	1-5-2-8-6		6-1-8-4-3	
5.	5-3-9-4-1-8		7-2-4-8-5-6	
6.	8-1-2-9-3-6-5		4-7-3-7-1-2-8	
7.	9-4-3-7-6-2-5-8		7-2-8-1-9-6-5-3	

Digits Backward (AtVerInv)= ____

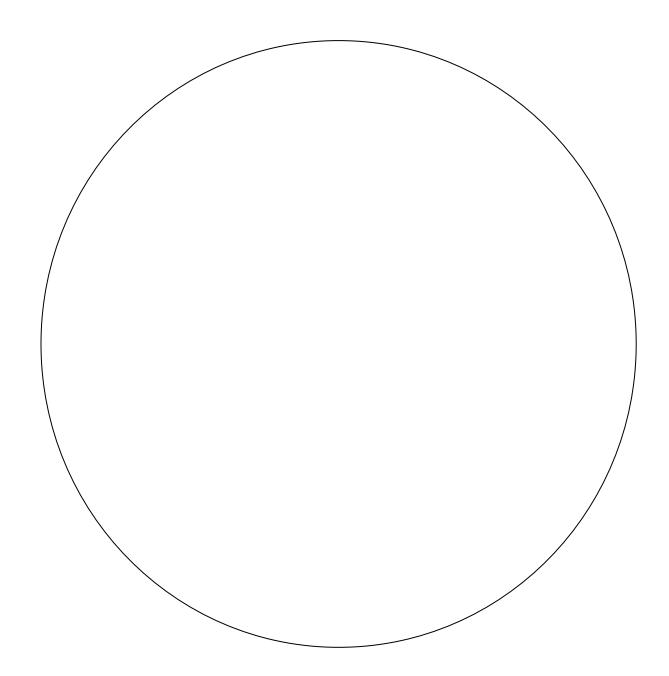
SUBJECT ID:

CLOCK DRAWING INSTRUCTIONS

Instructions: "Pretend this is the face of a clock. Draw a picture of a clock, with numbers and hands that show the time is ten after eleven."

Interviewer: The circle is provided on the answer sheet. Only use this circle, since the results of the test are affected by the size of the circle (i.e. the smaller the circle, the easier the task). Give one point for the numbers 1 through 12, on point for each correct positioning of the numbers, and one point for two hands of the clock.

Score		Points
12 numbers (1-12)	0	1
12 numbers in the correct position	0	1
2 hands are on the clock	0	1



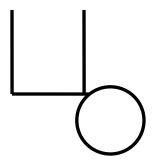
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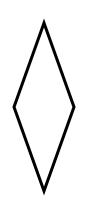
Figure Copying

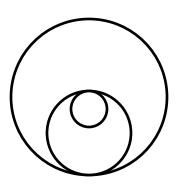
Instructions: "I'm going to give you some pages with designs on them. I'd like you to copy these designs. Copy them here (hold the pages on the long side, and point to the bottom half of the first page). There are 3 pages of designs for you to copy."

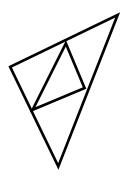
Interviewer:

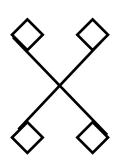
- 1. Give the subject a pencil (or a pen). Allow the subject to erase if he/she desires; however, if he/she continues to erase, assure the subject that the figure looks fine and continue with the examination. If the subject wishes to try a drawing again, ask him to make a second drawing to the side of the first. In this case, score the second drawing.
- 2. If the subject stops after the first page, prompt him to continue to the other pages.
- 3. Give the subject one or two minutes to complete the drawing of each figure. If the subject has not started to draw the figure in one minute, reassure him, and turn to the next one. If the subject cannot draw 3 figures in a row, discontinue the test.

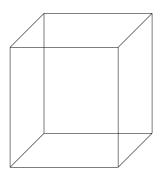


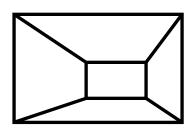












Neuropsychological Examination Scoring Sheet

Instructions: Score subject's neuropsychological examination after completion of interview.

- 1. Mini-mental State Examination (MMSE)
 - a. Orientation

Question 1	
Question 2	
Question 3	

Question 4 Question 5

Question 6

b. Registration

Question 7

Question 8

c. Recall

Question 9

d. Language Tests

Question 10 Question 11

Question 12 Question 13

Question 14 Question 15 Question 16

2. Word List Learning

a. List A

1st Attempt 2nd Attempt 3rd Attempt 4th Attempt 5th Attempt

b. List B

c. Short-term Recall

d. Short-term Recall facilitated

e. Long-term Recall

f. Long-term facilitated

g. Recognition

___/3

/3

____/1

___/1 ___/1

___/1 ___/3 ___/1

___/16

___/16 ___/16

___/16 ___/16

___/16

___/16

/16

___/16

___/16

___/16

SUBJECT ID:

3. Stroop c. Stroop 1 d. Stroop 2 e. Stroop 3		
4. Letter Fluency f. 1 st Letter g. 2 nd Lette h. 3 rd Letter	r	
	l Highest # digits attained Cotal Score Forward	/9
b. Digits Backw i. ii.	Highest # digits attained	/9
6. Clock Drawing a. Score		/3
7. Figure Copying a. Figure 1 b. Figure 2 c. Figure 3 d. Figure 4 e. Figure 5 f. Figure 6 g. Figure 7 h. Figure 8 i. Figure 9	- MMSE	/1 /1 /1 /1 /1 /1

SUBJECT ID:
