

ADDENBROOKE'S COGNITIVE EXAMINATION – ACE-R
USA Versions A, B, C (2005)

Name: _____
DOB: ____/____/____
Yrs Education: _____

Date: ____/____/____
Age: _____
Tester's Name: _____

ORIENTATION

Ask: What is the	Day	Date	Month	Year	Season	[Score 0-5] <input type="text"/> <input type="checkbox"/>
Ask: Which	Building	Floor	Town	County	State	[Score 0-5] <input type="text"/> <input type="checkbox"/>

REGISTRATION

Tell: "I'm going to give you three words and I'd like you to repeat after me: **lemon, key, ball.**" After subject repeats, say, "Try to remember them because I'm going to ask you later." Score only the first trial (repeat 3 times if necessary).

[Score 0-3]
 ☐

Register number of trials: _____

ATTENTION & CONCENTRATION

Ask the subject: "Could you take 7 away from 100? After the subject responds, ask him or her to take away another 7 to a total of 5 subtractions. If subject makes a mistake, carry on and check the subsequent answer (i.e., 93, 84, 77, 70, 63 – score 4)

[Score 0-5]
 ☐
(for the best performed task)

Stop after five subtractions (93, 86, 79, 72, 65) _____

Ask: "Could you please spell **WORLD** for me?" Then ask him/her to spell it backwards:

MEMORY – Recall

Ask: "Which 3 words did I ask you to repeat and remember?"

[Score 0-3]
 ☐

MEMORY – Anterograde Memory

Tell: "I'm going to give you a name and address and I'd like you to repeat after me. We'll be doing that 3 times, so you have a chance to learn it. I'll be asking you later."

[Score 0-7]

Score only the third trial.

Version A:

Harry Barnes

73 Orchard Street

Springfield

Minnesota

1 st trial	2 nd trial	3 rd trial
_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____

ATTENTION & ORIENTATION

MEMORY

Version B:

Linda Clark

59 Meadow Lane

Rochester

Ohio

Version C:

John Marshall

24 Market Street

Clarksville

Pennsylvania

1st trial2nd trial3rd trial

MEMORY – Retrograde Memory

Name of current President _____

[Score 0-4]

Name of current Vice President _____

Name of previous President _____

Name of the USA President who was assassinated in the 1960's _____

VERBAL FLUENCY – Letter “P” and animals**Letters**

Say: “I’m going to give you a letter of the alphabet and I’d like you to generate as many words as you can beginning with that letter, but not names of people or places. Are you ready? You’ve got one minute and the letter is ‘P’.”

[Score 0-7]

				>17	7
				14-17	6
				11-13	5
				8-10	4
				6-7	3
				4-5	2
				2-3	1
				<2	0

Animals

Say: “Now can you name as many animals as possible, beginning with any letter?”

[Score 0-7]

				>21	7
				17-21	6
				14-16	5
				11-13	4
				9-10	3
				7-8	2
				5-6	1
				<5	0

LANGUAGE – ComprehensionShow written instruction: **CLOSE YOUR EYES**

[Score 0-1]

☐

3 stage command:

“Take the paper in your right hand. Fold the paper in half. Put the paper on the floor.”

[Score 0-3]

☐

LANGUAGE – Writing

Ask the subject to make up a sentence and write it on a piece of paper.
Score 1 if the sentence contains a subject and a verb (see guide for examples).

[Score 0-1]

 ☐

LANGUAGE – Repetition

Ask the subject to repeat: “hippopotamus”, “eccentricity”, “unintelligible”, “statistician”
Score 2 if all correct; 1 if 3 correct; 0 if 2 or less.

[Score 0-2]

LANGUAGE – Repetition

Ask the subject to repeat: “Above, beyond and below”

[Score 0-1]

Ask the subject to repeat: “No ifs, ands or buts”

[Score 0-1]

 ☐

LANGUAGE – Naming

Ask the subject to name the following pictures:

[Score 0-2]
pencil+watch

 ☐


[Score 0-10]

LANGUAGE – Comprehension

Using the pictures above, ask the subject to:

- Point to the one which is associated with the monarchy
- Point to the one which is a marsupial
- Point to the one which is found in the Antarctic
- Point to the one which has a nautical connection

[Score 0-4]

LANGUAGE – Reading

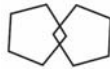
Ask the subject to read the following words: [Score 1 only if all correct]

[Score 0-1]

sew pint soot dough height

VISUOSPATIAL ABILITIES

Overlapping pentagons: Ask the subject to copy this diagram:



[Score 0-1]

 ☐

Wire cube: Ask the subject to copy this drawing (for scoring, see instructions guide)



[Score 0-2]

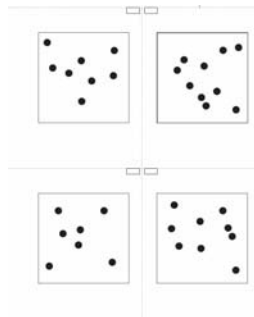
Clock: Ask the subject to draw a clock face with numbers and the hands at ten past five.
(for scoring see instruction guide: circle = 1, numbers = 2, hands = 2 if all correct)

[Score 0-5]

PERCEPTUAL ABILITIES

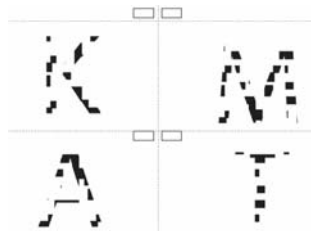
Ask the subject to count the dots without pointing to them:

[Score 0-4]



Ask the subject to identify the letters:

[Score 0-4]



RECALL

Ask, "Now tell me what you remember of that name and address we were repeating at the beginning."

[Score 0-7]

Version A:

Harry Barnes _____
73 Orchard Street _____
Springfield _____
Minnesota _____

Version B:

Linda Clark _____
59 Meadow Lane _____
Rochester _____
Ohio _____

Version C:

John Marshall _____
24 Market Street _____
Clarksville _____
Pennsylvania _____

RECOGNITION

This test should be done if the subject failed to recall one or more items. If all items were recalled, skip the test and score 5. If only part is recalled start by ticking items recalled in the shadowed column on the right hand side. Then test not recalled items by telling, "ok, I'll give you some hints: was the name X, Y, or Z?" and so on. Each recognized item scores one point which is added to the point gained by recalling.

[Score 0-5]

Version A:

Jerry Barnes	Harry Barnes	Harry Bradford	recalled	
37	73	76	recalled	
Orchard Place	Oak Street	Orchard Street	recalled	
Richmond	Springfield	Greendale	recalled	
Minnesota	Illinois	Ohio	recalled	

Version B:

Laura Marshall	Linda Clark	Linda Crawford	recalled	
39	52	59	recalled	
Meadow Lane	Garden Lane	Meadow Street	recalled	
Greenville	Rochester	Rosedale	recalled	
Iowa	Michigan	Ohio	recalled	

Version C:

John Simons	John Marshall	Joseph Marshall	recalled	
42	28	24	recalled	
Market Street	High Street	Market Square	recalled	
Clarksville	Springfield	Greendale	recalled	
Massachusetts	Pennsylvania	Iowa	recalled	

General Scores

MMSE	/30
ACE-R	/100

Subscores

Attention and Orientation	/18
Memory	/26
Fluency	/14
Language	/26
Visuospatial	/16
Orientation	/10
Address Recall	/7

$$\text{VLOM Ratio} = (V+L)/(O+M)$$

V = Verbal Fluency (14)

L = Language (26)

O = Orientation (10)

M = Memory – Address Recall (7)

MEMORY

SCORE