Multi-Ethnic Study of Atherosclerosis



CASI

Cognitive Abilities Screening Instrument

Participant Id#:							
	A						
	7	ech ID#:					
Date:	/	/					
	Month	Day	Yea	r ¬			
Testing start time: (hr:min)							

SCRIPT: "In this next set of questions, we are asking you to perform a simple memory test. As people get older, it is common to have slight memory problems, and it may just be a normal part of getting older. Some of the questions I will ask you are very easy and may even sound a little silly. Some of the questions are very hard, and nobody gets all correct. I have to ask you ALL the questions, so just do the best you can".

1.	Where were you born?							
	City/Town:							
		¹ O Correct	0 O Err	or/Refused 9 C	Not At	t/Disabled		
	CITY/TOWN OF BIRTH (from previous reco	rds):					
	State/Country:							
	State/Country.	¹ O Correct	0 O Err	or/Refused ⁹ C	Not At	t/Disabled		
2.	When were you born?							
	Year:	O 2 Correct	O 1	Missed by 1-3 years	0	Missed by > 3 years	O 9 Not	t Att/Disabled
	Month:	O 1 Correct	O 0	Error/Refused	O 9	Not Att/Disable	ed	
	Day:	O 1 Correct	O 0	Error/Refused	O 9	Not Att/Disable	ed	
	DATE OF BIRTH (from p	orevious records): _	_//					
3.	How old are you?	O 2 Correct	O 1	Missed by 1-3 years	0 0	Missed by > 3 years	O 9 Not Att/	Disabled
	AGE (from previous rec	ords): years (as of to	day's date).				
4a.	. How many minutes are there i	n an hour? (score 2 i	f either q	uestion answere	ed corre	ectly)		
	2 ○ Correct → S	Skip 4b						
	○ Error/Refused →	Continue with 4b						
	9 O Not Att/Disabled							
	b. How many days are there i	n a year?						
	² O Correct							
	○ Error/Refused							

5.	in what di	rection does tr	ie sun set	? (if confused, m	nay provide 4 c	noices)			
		ne participant s h, east or wes		<u>nfused</u> , provide t	the four choices	s "north, soutl	h, east, west	". If the participant poin	nts, ask " Is that
	O 2	Correct	O 0	Error/Refused	O 9 Not Att/[Disabled			
6.	I am going	g to say 3 word	ds for you	to remember. R	Repeat them aft	er I have said	d all three		
			Correct	Error/ Refused	Not Att/Disabled				
	Shoes		O 1	O 0	O 9				
	Blue		O 1	O 0	O 9				
	Charity		O 1	O 0	O 9				
	NOTE: If	participant car	n't answer	the first time, el	aborate and re	peat up to a t	otal of 3 time	es. Score last performa	nce.
		say the three to quality. Now s			SHOES - some	thing to wear,	BLUE - a co	olor, and CHARITY - a	good
7.		some number er, you repeat			say backwards.	For example	e, if I say 1-2	, you say 2-1. Ok?	
						Correct	Error/ Refused	Not Att/Disabled	
	a. 1-2-	3 (If unable, c	oach for 3	-2-1, but score ()):	O 1	O 0	O 9	
	b. 6-8-	2 (If score is 0	in both A	and B , score C	0)	O 2	O 0	O 9	
	c. 3-5-	2-9				O 2	O 0	O 9	
8.	What three	e words did I a	ısk you to	remember earlie	er?				
	a. Sho	<u>es</u>				b. Blue	<u>e</u>		
	1.5 🔾	Spontaneous	recall			1.5 🔾	Spontaneo	us recall	
	1 ()	After: "one wo	ord was so	mething to wea	r"	1 🔿	After: "one	word was a color"	
	.5 🔿	After: "Was it	shoes, sh	nirt, or socks'?		.5 🔾	After: "Was	it blue, black, or brown	า"?
	0 (Still incorrect				0 🔾	Still incorre	ct	
	9 🔿	Not attempted	d/disabled			9 🔿	Not attemp	ted/disabled	
	c. Cha	<u>arity</u>							
	1.5 🔾	Spontaneous	s recall						
	1 🔿	After: "one w	ord was a	good personal	quality"				
	.5 🔾	After: "Was i	t honesty,	charity, or mode	esty"?				
	0 🔾	Still incorrect	t						
	9 ()	Not attempte	ed/disable	d					
	J	•							

NOTE: Unless recall is perfect, give another reminder of the 3 words.

"Next I'm going to ask you to do some mental subtraction".

NOTE: For the first error only, score 0, but provide the correct answer. If subject asks examiner to repeat answer from previous step, provide the answer but score 0 at that step. Discontinue after 2 consecutive 0's for any reason and score the remaining steps as 0.

			Correct	Error/ Refused	Not Att/Disabled
9 a. From 100, take away 3 equals how	/ many? (97)		O 1	O 0	O 9
b. And take away 3 from that equals?	(94)			O 0	O 9
(If A and B are both scored 0 , score	e C 0)				
c. Repeat "And take away 3 again eq	uals? (91)		O 1	O 0	O 9
(ask 3 more times)		(88)	O 1	O 0	O 9
		(85)	O 1	O 0	O 9
10. What is today's date?	/day	/ year			
TODAY'S DATE://					
a. Year	b. N	Month		C.	Date
4 O Accurate	2 🔿	Accurate or with	hin 5 days	3 (Accurate (of the month)
2 O Missed by 1 year	1 ()	Missed by 1 mo	onth	2 (○ Missed 1 or 2 days
1 O Missed by 2-5 years	0 🔾	Missed by 2 or	more months	1 (Missed by 3-5 days
0	9 🔿	Not attempted/	disabled	0 (Missed by 6 or more days
9 O Not attempted/disabled				9 (Not attempted/disabled
11. What day of the week is today?	O 1 Correct	Error. O º Refus		lot tt/Disabled	
DAY OF THE WEEK:					
12. What season of the year is it?) ¹ Accurate w	vithin 1 month	O 0 Missed	by > 1 month	O 9 Not attempted/disabled
SEASON:					
NOTE: Use chart to assist in correct r Winter?"	esponse. If no	ot immediately p	rovided, say "I	s is Spring, Su	mmer, Fall or
		Corre	Error/ ct Refused	<u>Not</u> d <u>Att/Disal</u>	<u>oled</u>
13 a. What State are we in ?		O 2	O 0	O 9	
b. What City/Town/Village are we i	n ?	O 2	O 0	O 9	
c. Is this place a clinic, store, or ho	me?	O 1	O 0	O 9	

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	onds and there are still at least 10 seconds of remaining time, gently remind hin the first incorrect answer, remind the participant "I want you to name four-legged"	
14. What animals have 4 legs? Tell me as many as you can. (30 seconds)	total correct responses	
" The next set of questions is about how 2 things are they are both fruit.	e alike. For example, an orange and a banana - the way that they are alike is the	at
 An orange and a banana are both fruit. (pause for (coach for correct answer if needed for "a" only) 	2 sec., then ask:)	
a. An arm and a leg are both?	c Eating and sleeping are both?	
2 O Body parts, limbs, extremities	2 O Necessary bodily functions	
1 O Long, bend, muscles, bones, etc.	1 Other correct answer	
0 ○ Incorrect/Don't Know	0 ○ Incorrect/Don't Know	
9 O Not attempted/disabled	9 O Not attempted/disabled	
RECORD RESPONSE HERE:	RECORD RESPONSE HERE:	
b. Laughing and crying are both?		
2 O Expressions of feelings/emotions		
1 Other correct answer		
0 ○ Incorrect/Don't Know		
9 O Not attempted/disabled		
RECORD RESPONSE HERE:		
16a. What actions would you take if you saw your neighbor.	ghbor's house catching fire? (prompt "What else might you do? once only, if neo	essary
NOTE: Score 1 point (up to 2) for each correct responsafeguard your own property/family, alert neighbors,	onses: call 911, alert fire/police department, save/alert residents, help put out fire, try to help.	e,
No. of appropriate actions:	O 1 O 2	
 b. What actions would you take if you lost a born (1 point for each category of actions) 	owed umbrella?	
Inform/Apologize O 1 Correct	O Error/Refused O Not Att/Disabled	
Replace/Compensate 0 1 Correct	O Error/Refused O Not Att/Disabled	
c What would you do if you found an envelope the	nat was sealed, addressed and had a new stamp?	
2 O Mail		
1 O Try to locate the owner		
0 O Inappropriate action		
9 Not attempted/disabled		

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	a. "He would like to g	o homo "			
	_	o nome.			
	2 O Correct	1/			
	1 O 1 or 2 misse				
	0 O 3 or more m	_	vords		
	9 O Not attempt	ed/disabled			
	NOTE: For each part	of 17b, score	1 only if repeat	ated exactly as given	
	b. Now repeat				
		Correct	Error/ Refused	Not Att/Disabled	
	"This yellow circle	O 1	O 0	O 9	
	is heavier than	O 1	O 0	O 9	
	blue square"	O 1	O 0	O 9	
18.	Please do this: (Point to	statement "R	aise your Han	d")	
	4.5 O Paisas handy	vithout prompt	tina		
	1.5 O Raises hand v		→	► "Thank you, you ca	an put it down now"
	1 O Raises hand a				
	.5 O Reads correct		ot raise nand		
	0 Neither reads				
	9 O Not attempted	l/disabled			
	Let me have a sample of			write: (He) would like	to go home. (1 min.)
	(may dictate 1 word at a	time if neces	sary)		
		Correct	Error/ Refused	Not Att/Disabled	
	a. would	O .5	O 0	O 9	
	b like	O .5	O 0	O 9	
	c. to	.5	O 0	O 9	
	d. go	.5	O 0	O 9	
	e. home	.5	O 0	O 9	
	HAND USED TO	WRITE SEN	TENCE:	right l	eft

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17. Repeat exactly what I say:

20.	Please c	opy this: (show pe	ntangons - 1	minute)					
		or <u>right-handed pe</u> ble on their <u>right sic</u>		nt the sample o	on their <u>left sid</u>	<u>e</u> . For <u>le</u>	ft-handed persons, present		
	a. <u>Left</u>	<u>Pentagon</u>			b.	Right P	<u>entagon</u>		
	4 🔿	5 approx. equal si	des		4 O 5 approx. equal sides				
	3 🔿	5 but un-equal (>2	2:1) sides		3 O 5 but un-equal (>2:1) sides				
	2 🔿	Any other enclose	d figure		2 O Any other enclosed figure				
	1 ()	2 or more lines bu	t without clos	sure	1 O 2 or more lines but without closure				
	0 🔾	Less than 2 lines			0 O Less than 2 lines				
	9 🔿	Not attempted/dis	abled			9 O No	t attempted/disabled		
	c. <u>Inte</u>	ersections							
	2 ()	4 cornered							
	1 ()	Not 4-cornered en	closure						
	0 (No enclosure							
	9 🔾	Not attempted/dis	abled						
21.	Take this	paper with your:							
	NOTE: F	or question 21, do	not repeat ar	ny part of the co	ommand. (Use	e non-do	ominant hand)		
			Correct	Error/ Refused	Not Att/Disabled				
	a. (left	t)/(right) hand	O 1	O 0	O 9				
	b. fold	I it in half, and	O 1	O 0	O 9				
	c. han	id it back to me	O 1	O 0	O 9				
22.	What thre	ee words did I ask	you to remer	nber earlier?					
	a. Sho	es				b. Blue	2		
		— Spontaneous reca	all			1.5 🔘	Spontaneous recall		
	1 ()	After: "one word w	vas somethin	g to wear"		1 ()	After: "one word was a color"		
	.5 🔘	After: "Was it sho	es, shirt, or	socks'?		.5 🔿	After: "Was it blue, black, or brown"?		
	0 0	Still incorrect				0 🔿	Still incorrect		
	9 🔾	Not attempted/dis	abled			9 🔿	Not attempted/disabled		
	c. Cha	<u>arity</u>							
	1.5 🔾	Spontaneous rec	all						
	1 ()	After: "one word	was a good p	ersonal quality	,11				
	.5 🔾	After: "Was it ho	nesty, charit	y, or modesty	"?				
	0.0	Still incorrect							

9 O Not attempted/disabled

					o not repeat.
		<u>Correct</u>	Error/ Refused	Not Att/Disabled	
	a. forehead	.3	O 0	O 9	
	b. chin	O .3	O 0	O 9	
	c. shoulder	O .3	O 0	O 9	
	d. elbow	.3	O 0	O 9	
	e. wrist	O .3	O 0	O 9	
24.	What is this? (show one a	at a time)			
					participant cannot name an object in 2 seco Il cannot name it, wait 4 seconds, say (for k
		<u>Correct</u>	Error/ Refused	Not Att/Disabled	
	a. spoon	O .3	O 0	O 9	
	b. coin	O .3	O 0	O 9	
	c. toothbrush	.3	O 0	O 9	
	d. key	O .3	O 0	O 9	
	e. comb	O .3	O 0	O 9	
	Total number of objespontaneously or re			(5)	
	coaching:	peated pericetly	arter	(max. 5)	
25.	-				ts did I just show you?" . Any order is OK)
25.	Remember these 5 object	ts. (<u>Wait for 5 se</u>	c., cover, then	ask "What 5 objec	ts did I just show you?". Any order is OK) ling incorrect names) or when the participan
25.	Remember these 5 object NOTE:Terminate testing v	ts. (<u>Wait for 5 se</u>	c., cover, then	ask "What 5 objec	
25.	Remember these 5 object NOTE:Terminate testing v	ts. (<u>Wait for 5 se</u> when the particip al item in 5 seco	c., cover, then ant has report nds. Error/	ask <i>"What 5 objec</i> ed 5 objects (inclu	
25.	Remember these 5 object NOTE:Terminate testing vecannot recall any addition	ts. (<u>Wait for 5 se</u> when the particip nal item in 5 seco <u>Correct</u>	c., cover, then ant has report nds. Error/ Refused	ask <i>"What 5 objec</i> ed 5 objects (inclu Not Att/Disabled	
25.	Remember these 5 object NOTE:Terminate testing v cannot recall any addition a. spoon	ts. (Wait for 5 sewhen the participal item in 5 secondary) Correct	c., cover, then ant has report nds. Error/ Refused	ask "What 5 object ed 5 objects (inclu Not Att/Disabled	
25.	Remember these 5 object NOTE:Terminate testing of cannot recall any addition a. spoon b. coin	ts. (Wait for 5 se when the particip ral item in 5 secon Correct 0.6 0.6	c., cover, then ant has report nds. Error/ Refused 0 0	ask "What 5 object ed 5 objects (inclu Not Att/Disabled 9 9	
25.	Remember these 5 object NOTE:Terminate testing of cannot recall any addition a. spoon b. coin c. toothbrush	ts. (Wait for 5 se when the particip ral item in 5 seco Correct 0.6 0.6 0.6	c., cover, then ant has report nds. Error/ Refused 0 0 0 0	ask "What 5 objects (inclued 5 o	
	Remember these 5 object NOTE:Terminate testing of cannot recall any addition a. spoon b. coin c. toothbrush d. key	ts. (Wait for 5 sewhen the participate item in 5 second Correct Correct 6 6 6 6 6 6 6 6 6 6 6 6 6	c., cover, then ant has report nds. Error/ Refused 0 0 0 0 0 0	ask "What 5 objects (inclused 5 objects (inclused 5 objects (inclused 5 objects)) Not Att/Disabled 9 9 9 9 9 9 9	ling incorrect names) or when the participar

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" Those are all the questions we have on this examination. Thank you for completing them for us".

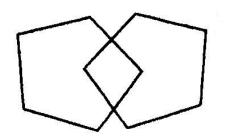
23. What do we call this part of the face/body? (2 seconds each)

Fii	nish time (hr:min):	Duration (minutes)	
VALID	ITY OF SCORE		
O 1	Valid	○ 6 Probably invalid: impaired alertness and attentiveness	
O 2	Probably invalid: poor hearing	O 7 Probably invalid: significant physical/mental discomfort	
O 3	Probably invalid: poor eyesight	O 8 Probably invalid: other reasons	
O 4	Probably invalid: impaired motor control	specify:	

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○ 5 Probably invalid: language barrier

RAISE YOUR HAND



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