BDST

	Points		6. What animals did I ask you abou	
First, I'm going to ask a few questions about animals.		recall	before we talked about the lion and the rabbit? (only rate the first 6 answers)	
1. What is the name of the animal with the long trunk?			Did I ask about a hippo, an elephant or a rhino?	
It's a very big animal and it can "trumpet" using its trunk.				
2. What is the name of the animal with the very long neck?			Did I ask about a leopard, a giraffe or a parrot?	
This animal lives in Africa and has a yellow-brownish pattern.				
3. What is the name of the animal which gives its name to a crosswalk with white and black stripes? It is an animal that looks like a striped horse.			Did I ask about a zebra, a tiger or a monkey?	
4. What is the name of the bear that lives in very cold regions with ice? Simply put together the words "bear" and			Did I ask about a penguin, a seal or a polar bear?	
"polar" in the correct order. 5. Which animal are people more afraid of:				
draw the following shapes in the air (award 2 points if the first attempt and 1 points second attempt is correct) 7.			talked about big cities?	
Q			One shape was round.	
8.			One shape looked like a peak.	
9.			One shape looked like a letter.	
10.			One shape looked like a number.	
11. Please name as many big cities in [add name of your country] or in the world as you can think of! You have 1 minute to do so		1 point is awarded for each 3 cities (8 points for 24 or more cities)		
[note en	numera	ted citio	es here]	
"Please watch carefully and then try tapping pattern is reproduced correctly, 2 points are ("I'll tap the pattern again Please try ag	awarde ain now	d. If not, th v"). If the p	e pattern is given again by the administrato	
awarded. B=both hands, L=left hand; R=rig 13. R-L-R-L-R-L-R-L	ht hand	14. L-R-R-L-R-R-L-R-R-(R-L-L-R-L-L etc. is also considered correct)		

15. B-L-B-R-B-L-B-R

(B-R-B-L etc. is also considered correct)

(B-R-L-B-L-R etc. is also considered correct)

16. B-L-R-B-R-L-B-L-R-B-R-L

name:	
date of birth:	
date of testing:	
years of education:	

cognitive domains	score (max)	z-score
total (questions 1 to 16)	(50)	
semantic memory (questions 1 to 5)	(10)	
verbal memory (question 6)	(8)	
visual construction (questions 7 to 10)	(8)	
verbal fluency (question 11) Caution: The absolute number of cities named is decisive for the z-value!	(8)	
visual memory (question 12)	(8)	
cognitive flexibility (questions 13 to 16)	(8)	

Hints regarding administration and scoring:

Questions 1 to 4:

Award 2 points each, if first question (e.g.: "What is the name of the animal with the long trunk?") was answered correctly. Otherwise, give the additional hint, (e.g.: "It's a very big animal that can 'trumpet' using its trunk"). If the answer is now correct, award 1 point. In any case, name the animal you are looking for again: "(Right.) The elephant was asked for".

Question 5:

Award 1 point for each correct answer.

Question 6:

For each animal that was remembered correctly (elephant, giraffe, zebra, polar bear), 2 points are given. For each animal that could NOT be remembered, give the three options. If the correct animal is selected, 1 point is awarded.

Questions 7 to 10:

If the shape is drawn correctly by the participant (shape can be clearly recognized, regardless if a mirror image is drawn or not) 2 points are awarded. If not, repeat the shape. If the shape is now drawn correctly, award 1 point.

Question 11:

Larger cities (>= 50 000 inhabitants) are counted. If the client chooses cities from only your county, point out that cities abroad are also counted. 1 point is awarded for each 3 cities (8 points for 24 or more cities). (Example: 7 cities \rightarrow 2 points, 14 cities \rightarrow 4 points etc.)

Question 12:

See question 6 above: For each shape that was remembered correctly without any hint, 2 points are awarded. Give hints for the remaining shapes that could not be remembered, (e.g.: "one shape looked like a letter"). If the correct shape then is drawn, one point is awarded.

Questions 13 through 16:

If a tapping pattern was given 0 points, do not administer the following tapping patterns. (Example: Client has been awarded 2 points for the first, 1 point for the second and no points for the third tapping pattern. The fourth tapping pattern will not be administered then).

Interpretation of the total score:

- < 38: Possible dementia syndrome
- < 41: Possible mild cognitive impairment (MCI). In this case, however, the "MCI-score" (sum of the scores for "visual-spatial memory" and "cognitive flexibility") is more sensitive. Suspected MCI for MCI-scores < 11.

Normative sample (n=136 participants without cognitive impairment) from Trapp et al. 2020, submitted)

	Task	women	men	
	1 ask	mean (standard deviation)		
	semantic memory	9.78 (0.51)		
	verbal memory	7.12 (0.77)		
0.00 4.75	visual construction	7.72 (0.64)		
age < 75	verbal fluency	19.06 (6.55)		
	visual memory	7.18 (1.21)		
	cognitive flexibility	5.74 (1.66)		
	semantic memory	9.75 (0.68)		
	verbal memory	7.00 (0.90)		
75	visual construction	7.65 (0.57)		
age >= 75	verbal fluency	17.62 (5.05)	20.32 (6.10)	
	visual memory	6.87 (1.13) 5.23 (1.47)		
	cognitive flexibility			

[&]quot;Years of education" (<=12 j vs. > 12 j) is without influence on the test results. Gender differences were found for the verbal fluency task only (men >=75j score higher than women >=75j, $t_{(84)}=2.21$, p=.030).