| First, I'm going to ask a few questions about animals. | Points |  | 6. What animals did I ask you about before we talked about the lion and the rabbit? (only rate the first 6 answers) |  |
| :---: | :---: | :---: | :---: | :---: |
|  | Pr. | recall |  |  |
| 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? |  |  | Did I ask about a zebra, a tiger or a monkey? |  |
| It is an animal that looks like a striped horse. |  |  |  |  |
| 4. What is the name of the bear that lives in very cold regions with ice? |  |  | Did I ask about a penguin, a seal or a polar bear? |  |
| Simply put together the words "bear" and "polar" in the correct order. |  |  |  |  |
| 5. Which animal are people more afraid of: a lion or a rabbit? <br> Why? (dangerous, carnivore etc.) |  |  |  |  |
|  |  |  |  |  |  |  |
| Please watch carefully [administrator draws a symbol with her/his index finger] and then try to draw the following shapes in the air (award 2 points if the first attempt and 1 point if the second attempt is correct) |  | 12. What figures did we draw in the air before we talked about big cities? |  |  |
| 7. |  |  | 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 enumerated cities here] |  |  |  |  |
| "Please watch carefully and then try tapping the same pattern". (Speed $2 \mathrm{~Hz}=2$ beats per second). If the pattern is reproduced correctly, 2 points are awarded. If not, the pattern is given again by the administrator ("I'll tap the pattern again.... Please try again now"). If the pattern is now reproduced correctly, 1 point is awarded. $B=$ both hands, $L=$ left hand; $R=$ right hand |  |  |  |  |
| 13. R-L-R-L-R-L-R-L |  | 14. $L-R-R-L-R-R-L-R-R-L-R-R$ <br> ( $R-L-L-R-L-L$ etc. is also considered correct ) |  |  |
| 15. B-L-B-R-B-L-B-R-B-L-B-R <br> ( $B-R-B-L$ etc. is also considered correct) |  | 16. $B-L-R-B-R-L-B-L-R-B-R-L$ <br> (B-R-L-B-L-R etc. is also considered correct ) |  |  |

$\square$

| cognitive domains | score (max) | z-score |
| ---: | ---: | ---: |
| total (questions 1 to 16) | $\mathbf{( 5 0 )}$ |  |
| semantic memory (questions 1 to 5) | $\mathbf{( 1 0 )}$ | $(\mathbf{( 8 )}$ |
| verbal memory (question 6) | (8) |  |
| visual construction (questions 7 to 10) | (8) |  |
| verbal fluency (question 11) | (8) |  |
| visual memory (question 12 ) | (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 „MCIscore" (sum of the scores for "visual-spatial memory" and "cognitive flexibility") is more sensitive. Suspected MCI for MCI-scores $<11$.

Normative sample ( $\mathrm{n}=\mathbf{1 3 6}$ participants without cognitive impairment) from Trapp et al. 2020, submitted)

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

"Years of education" (<=12 j vs. $>12 \mathrm{j}$ ) is without influence on the test results.
Gender differences were found for the verbal fluency task only (men $>=75 \mathrm{j}$ score higher than women $\left.>=75 \mathrm{j}, \mathrm{t}_{(84)}=2.21, \mathrm{p}=.030\right)$.

