

BRIEF COGNITIVE SCREENING BATTERY

- Naming of 10 drawings
- Incidental memory
- Immediate memory
- Learning
- Verbal fluency (animals)
- Clock Drawing Test
- Delayed recall of the 10 drawings
- Recognition of the 10 target drawings among 20 new ones

(For healthy individuals, the test usually **takes less than eight minutes**)

BRIEF COGNITIVE SCREENING BATTERY

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Naming

The examiner shows a sheet of paper with 10 drawings and asks: "What are these figures?"

Naming (0-10): ___

(It is usually possible to identify if the naming disturbance is due to a visual recognition disturbance or to a naming difficulty. The examiner should take this fact into account)

Incidental memory

After showing the drawings, the examiner hides the sheet of paper: "What figures have you just seen?" (Maximum time to retrieve: 60 seconds). (Score in the score page)

Immediate memory

The examiner shows the sheet of paper again and says: "Look carefully and try to memorize these figures. Maximum time: 30 seconds. (If there is severe visual impairment, the examiner should say the words aloud, one name per second, twice)

Then, the examiner hides the sheet of paper and asks: "What drawings have you just seen?" (Maximum time to retrieve: 60 seconds) (Score in the score page)

Learning

Exact as the immediate memory test. (Score in the score page)

Verbal fluency

“You should say the names of as many animals as you can remember (any kind of animal) in the least possible time. Start now”.

Number of named animals in one minute. ___ The cutoffs are ≤ 9 for illiterates, ≤ 12 for individuals with 1–7 years of schooling, and ≤ 13 for those with 8 years or more of schooling.

Named animals: _____

Clock Drawing Test (Sunderland et al., 1989)

The examiner gives a blank sheet of paper to the subject saying: “Draw a clock with all numbers and then put the hands showing 2 hours and 45 minutes” (the drawing must be included in the file).

Table 1. A priori criteria for evaluating clock drawings (10=Best and 1-Worst) (Sunderland et al., 1989)

Drawing of Clock Face with Circle and Numbers is Generally Intact

10. Hands are in correct position (ie, hour hand approaching 3 o'clock).
9. Slight errors in placement of the hands.
8. More noticeable errors in the placement of hour and minute hands.
7. Placement of hands is significantly off course.
6. Inappropriate use of clock hands (ie, use of digital display or circling of numbers despite repeated instructions).

5-1. Drawing of clock Face with circle and numbers is not Intact

5. Crowding of numbers at one end of the clock or reversal of numbers. Hands may still be present in some fashion.
4. Further distortion of numbers sequence. Integrity of clock face is now gone (ie, numbers missing or placed at outside of the boundaries of the clock face).
3. Numbers and clock face no longer obviously connected in the drawing. Hands are not present.
2. Drawing reveals some evidence of instructions being received but only a vague representation of a clock.
1. Either no attempt or an uninterpretable effort is made.

For the CDT, studies have shown that the best cutoff scores ranged from ≤ 4 (in low educated individuals) to ≤ 9 in subjects with medium and high levels of education.

Delayed recall

"What figures did you see a few minutes ago? "If it is necessary, the examiner may say: "The drawings in a sheet of paper I showed to you". (Maximum time to retrieve: 60 seconds) (Score in the score page. The cut off score is ≤ 5 , and it is not influenced by education.

Recognition

The examiner shows a sheet of paper with 20 drawings (10 distractors) and says: "Here are the figures I showed you a few minutes ago and other new figures. I want you to tell me what figures you saw a few minutes ago".

Scores

	Incidental Memory	Immediate Memory	Learning	Delayed recall	Recognition
Shoe	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
House	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Hair-comb	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Key	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Airplane	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Bucket	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Turtle	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Book	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Spoon	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Tree	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Score (correct answers)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Intrusions	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
				Recognition	<input type="checkbox"/>

Attention:

The final scores of incidental and immediate memory, learning and delayed recall tests are the numbers of correct answers. For the recognition test, the final score should be the number of correct answers minus the number of incorrect answers.



