

## PARKINSON'S DISEASE – COGNITIVE RATING SCALE: ALTERNATIVE VERSION

*Items are administered to the subjects in the same order as presented below.*

### 1. IMMEDIATE FREE RECALL VERBAL MEMORY.

**Instruction:** The subject is asked to read aloud the written words shown on 12 consecutive cards. Three trials are performed, and the subject is asked to recall as many words as possible after each trial.

**Score:** 1 point for each word recalled. The highest number of words recalled in any one trial is the score. (0-12)

Words	1	Words	2	Words	3
LANTERN		PLANET		WOLF	
VELVET		VEST		WARDROBE	
PLANET		CREAM		SKATES	
EYEBROW		LANTERN		CORN	
CORN		WRISTLET		CAVE	
VEST		CAVE		LANTERN	
WARDROBE		EYEBROW		PLANET	
SKATES		VELVET		VEST	
CAVE		CORN		WRISTLET	
WOLF		WARDROBE		CREAM	
WRISTLET		SKATES		EYEBROW	
CREAM		WOLF		VELVET	
<b>Total</b>		<b>Total</b>		<b>Total</b>	

### 2. CONFRONTATION NAMING:

**Instruction:** The subject is asked to name the line drawings shown on 20 consecutive cards. There is no time limit or response, and only one trial is given. No semantic or phonemic cues are provided. When objects are included in their context (zipper, pulley, tusk, nest, horseshoe and paw), the examiner is allowed to indicate the part of the line drawing to be named.

**Score:** 1 point for each line drawing correctly named. (0-20)

TOOTHBRUSH		PULLEY	
LAMP		TUSK	
STRAWBERRIES		NEST	
CLOTHESPIN		CORKSCREW	
ZIPPER		HORSESHOE	
SHARK		THUMB TACK	
TRICYCLE		TAMBOURINE	
JAR		PAW	
TRUMPET		PENCIL SHARPENER	
CALCULATOR		HINGE	
<b>Total</b>			

### 3. SUSTAINED ATTENTION

**Instruction:** An ascending series of letters and numbers are read to the subjects. The subject is asked to report the number of letters in the sequence. Ten series of letters and numbers are presented, divided into five levels of ascending complexity. Two training series are provided at the beginning of the test.

**When the exercise is over:** The exercise has to be done until the last item.

**Score:** 1 point for each correct series. (0-10)

2 L T (Example)	2 letters	
8 A 9 (Example)	1 letter	
4 A 5 2 6	1 letter	
9 B 7 P T	3 letters	
L 6 4 5 P X	3 letters	
3 A F 6 9 2	2 letters	
4 8 3 M 7 S D	3 letters	
A 2 B T N 3 8	4 letters	
7 B D 9 2 L T 4	4 letters	
3 5 7 8 1 9 C P	2 letters	
N 3 7 P F J 2 9 6	4 letters	
4 7 K N 3 P B 2 S	5 letters	
<b>Total</b>		

### 4. WORKING MEMORY

**Instructions:** The examiner reads aloud a randomized list of numbers and letters ranging in length from 2 to 6 letters and numbers. After each series the subject is asked to repeat the numbers first, and then the letters. Numeric and alphabetical order is not required. Two training series are provided at the beginning of the test. **When the exercise is over:** This test ends when the subject is unable to give the correct answer in two consecutive series.

**Score:** 1 point for each correct series. (0-10)

L 2 T (Example)	2 L T	
8 A 9 (Example)	8 9 A	
P 2	2 P	
5 B	5 B	
M 7 D	7 M D	
3 Z 5	3 5 Z	
D 7 9 A	7 9 D A	
6 F 7 J	6 9 F J	
N 7 5 D P	7 5 N D P	
9 7 G E A	9 7 G E A	
2 T 9 B N 4	2 9 4 T B N	
S 3 9 2 B 6	3 9 2 6 S B	
<b>Total</b>		

## CLOCK DRAWING TASK

### 5 . UMPROMPTED DRAWING OF A CLOCK

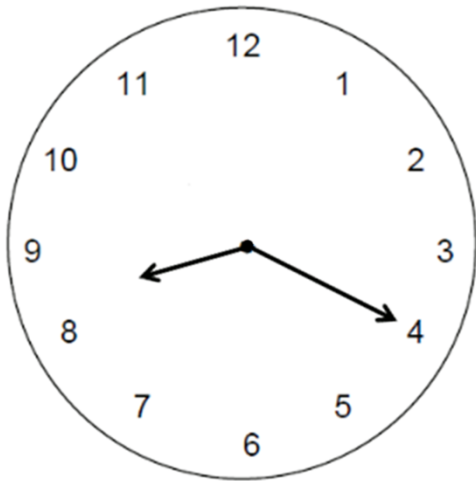
**Instructions:** The subject is asked to draw a clock face on a blank sheet of paper, and to set the hands at “twenty-five minutes past ten”.

**Score:** 1 point for each correct item. (0-10)

**6. COPY DRAWING OF A CLOCK**

**Instructions:** The patient is asked to copy the presented clock.

**Score:** 1 point for each correct item. (0-10)



CORRECTION	Umprom		Copy	
	Yes	No	Yes	No
The figure looks like a clock				
The clock is not divided by lines/sectors				
Symmetric disposition of numbers				
Only 1 to 12 numbers are drawn				
Hours numbers correctly sequenced				
Only two hands are drawn				
Clock hands are represented as arrows				
Hour hand shorter. Correct time				
No words have been written.				
The number "20" has not been drawn				
<b>Score (0-10)</b>				

#### 7. DELAYED FREE RECALL VERBAL MEMORY

**Instructions:** The subject is asked to recall as many words as possible from the list of words presented at the beginning of the scale.

**Score:** 1 point for each word recalled. (0-12)

Words	
LANTERN	
VELVET	
PLANET	
EYEBROW	
CORN	
VEST	
WARDROBE	
SKATES	
CAVE	
WOLF	
WRISTLET	
CREAM	
<b>Total</b>	

## 8. ALTERNATING VERBAL FLUENCY

**Instructions:** The subject is asked to alternately generate as many different words as possible beginning with the letter 'F' and words describing furniture during 60 seconds. Participants are instructed not to use proper nouns or to repeat the same word with a different ending (e.g., final, finally, finalist).

**Score:** 1 point for each correct answer only in the case where the alternation was maintaining between words beginning with 'f' and furniture. (0-20)

**Examples:**

- *Final / Chair / Font (3 points)*
- *Final / Chair / Bed / Font (3 points)*
- *Final / Chair / Bed / Font / Wardrobe (4 points)*
- *Final / Chair / Font / Fever/ Table (4 points)*

1.	11.
2.	12.
3.	13.
4.	14.
5.	15.
6.	16.
7.	17.
8.	18.
9.	19.
10.	20.
<b>TOTAL</b>	

**9. ACTION VERBAL FLUENCY**

**Instructions:** We used the instructions listed in Piatt et al. for the action verbal fluency task. The instructions are as follows: “During 60 seconds, I’d like you to tell me as many different things as you can think of that people do. I don’t want you to use the same word with different endings, like eat, eating, eaten. Also, just give me single words such as eat, or smell, rather than a sentence”.  
**Score:** 1 point for each correct answer. (0-30)

1.	11.	21.
2.	12.	22.
3.	13.	23.
4.	14.	24.
5.	15.	25.
6.	16.	26.
7.	17.	27.
8.	18.	28.
9.	19.	29.
10.	20.	30.
<b>TOTAL</b>		

Item	Score
1. Immediate free recall	/12
2. Confrontation naming	/20
3. Sustained Attention	/10
4. Working memory	/10
5. Unprompted drawing of a clock	/10
6. Copy drawing of a clock	/10
7. Delayed free recall	/12
8. Alternating verbal fluency	/20
9. Action verbal fluency	/30
<b>FRONTAL-SUBCORTICAL SCORE</b>	<b>/104</b>
<b>POSTERIOR-CORTICAL SCORE</b>	<b>/30</b>
<b>TOTAL SCORE</b>	<b>/134</b>