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Neuropsychological Test Battery

1. Auditory Verbal Learning Test (AVLT)

The test measures immediate memory span, provides a learning curve, identifies tendencies to confusion and distractibility, and measures auditory verbal retention following an interpolated activity. The test consists of five presentations with , immediate recall of a 15-word list, one presentation of a second 15-word list to provide a distraction task, and then a sixth recall trial of the original word list. Delayed recall is tested at **30** minutes.

2. Grooved Pegboard

Twenty-five grooved pegs are inserted into randomly-oriented, slotted holes as quickly as possible using the subject's dominant hand. Time in seconds to complete (time score) and number of pegs dropped (error score) are recorded. The test provides information on fine motor control, speed, and eye-hand coordination.

3. Trail Making Test-Part B

Part B of the Trail Test consists of 25 circles distributed over a white sheet of paper numbered from 1-13 and lettered from A-L. The subject is required to connect the circle alternating between numbers and letters. The score is the number of seconds required to complete the test. The test requires immediate recognition of the symbolic significance of numbers and letters, ability to scan the page rapidly and continuously identify the next number or letter in sequence, flexibility in integrating the number and letter series, and completion of these requirements under the pressure or time.

4 . Symbol Digit Modalities Test

The subject must scan a visual key consisting of paired geometric figures and numbers and then apply the key to supply the appropriate number that is associated with its particular symbol. 110 items are presented and the test is scored for the number of correct responses made in 90 seconds. The test measures visual motor speed and visual scanning (shifting) abilities. The test will be expanded to yield an additional measure of short-term visual memory and incidental learning by requesting the subject to identify from memory the number-symbol code that was used in the formal test.

5. Oral Word Fluency

The subject is required to name as many words as he/she can think of beginning with specified letters of the alphabet (c, f, l). Number of words generated in 60 seconds for each letter is recorded. The test provides a measure of verbal fluency/verbal cognitive speed, and it has been found to be a sensitive indicator of cerebral dysfunction. The minimal impact of depressive states on task performance is an additional consideration for inclusion of this measure in the present test battery

6. Digit Cancellation Test

A paper and pencil test consisting of rows of numbers randomly interspersed with a designated target number . The subject is instructed to cross out all occurrences of a target number. The test is scored for time t o completion. Abilities required for satisfactory task performance include capacity for sustained attention, visual scanning, and inhibition of rapid (incorrect) responses.