

Table S1. Average Tablet Module Scores for Healthy Controls and Patient Diagnostic Group

Tablet Module	Tablet Activity	Healthy Controls Mean(SD) N=29	Left Stroke Mean(SD) N=16	Right Stroke Mean(SD) N=3	PPA Mean(SD) N=10	MCI Mean(SD) N=28	Alzheimer's Dementia Mean(SD) N=7	Parkinsonian Disorder* Mean(SD) N=13
Hungry Bees	Digit Span Forward	6.3(1.3)	4.0(2.1)	5(2.7)	4.7(2.6)	6.2(1.8)	5.5(1.4)	5.17(1.6)
Hungry Bees	Digit Span Backward	4.9(1.5)	2.4(1.8)	2.3(2.1)	2.6(2.0)	4.7(2.1)	4(2.2)	4(2.6)
Follow The Glow	Spatial Span Forward	5.6(0.9)	4.3(1.4)	3.5(0.7)	4.6(1.1)	5.7(0.8)	4.5(2.7)	4.5(1.8)
Follow The Glow	Spatial Span Backward	5.7(1.8)	3.4(1.5)	3.0(0)	4.0(1.2)	4.7(1.0)	3.8(1.9)	4.3(2.4)
Lucky Letters	Letter Fluency	16.6(4.2)	6.7(6.2)	7(7.6)	8.5(6.3)	16.2(8.9)	15.7(8.6)	12.5(9.6)
Riff on This!	Category Fluency	13.9(6.5)	7.5(6.1)	6.3(3.2)	2.8(2.1)	12.6(8.7)	8.8(5.1)	11.1(8.9))
Bolt Bot	Trails A	7.6(2.2)	29.0(12.1)	33.9(12.8)	37.3(25.0)	18.8(4.2)	23.5(6.6)	29.4(15.5)
Bolt Bot	Trails B	35.3(8.7)	106.7(19.3)	105.8(91.5)	104.7(20.6)	91.9(26.8)	110.5(23.4)	102.4(21.9)
Treasure Tomb	Coding	36.5(11.9)	20.3(9.5)	9.7(10.3)	14.6(14.0)	32.8(15.6)	18.7(11.1)	22.9(14.5)
Chart a Course	Design Fluency	13.4(4.1)	9.4(4.2)	6.3(4.7)	8.4(5.9)	12.5(4.3)	9(5.3)	11.2(3.1)
Take Flight	Tapping: Right Hand	67.4(13.3)	47.9(23.6)	57.6(24.0)	53.8(20.6)	68.6(23.0)	74.2(23.5)	55.1(21.6)
Take Flight	Tapping: Left Hand	63.6(12.6)	53.9(21.6)	28.8(25.4)	51.6(13.9)	66.6(23.8)	70.4(18.0)	58.8(25.0)
Spy Games	Verbal Learning: Immediate	14.5(12.5)	6.1(4.5)	3.3(2.9)	3.6(3.4)	5.6(3.5)	5.7(3.0)	8.4(8.1)
Spy Games	Working Memory: Total Correct	21.3(8.4)	6.0(6.2)	7(9.6)	1.3(1.4)	15.5(10.7)	3.8(4.8)	12.7(11.7)
Spy Games	Working Memory: Total Correct for Unique Stimuli	8.4(1.6)	4.4(2.5)	4.3(2.5)	2.7(1.3)	6.8(2.7)	3.3(1.8)	5.6(2.7)
Spy Games	Delayed Recall	15.7(14.4)	6.4(5.5)	6.5(0.7)	2(1.4)	5.8(4.3)	4.0(1.4)	10.2(8.7)
	PPA= Primary Progressive Aphasia; MCI = Mild Cognitive Impairment; Parkinsonian Disorder includes Parkinson's Disease, Progressive Supranuclear Palsy, Corticobasal Syndrome, and Progressive Supranuclear Palsy							

Table S2 Average Pencil-and-Paper Test Scores for Patient Diagnostic Group.

Pencil/Paper Test	Left Stroke Mean(SD)	Right Stroke Mean(SD)	PPA Mean(SD)	MCI Mean(SD)	Alzheimer's Dementia Mean(SD)	Parkinsonian Disorder Mean(SD)
Digit Span Forward	5.9(3.1)	6.3(1.5)	5.3(2.4)	7.1(1.4)	6.8(1.3)	8.7(3.0)
Digit Span Backward	3.1(1.5)	4.3(0.6)	2.7(2.5)	4.6(1.3)	3.7(1.4)	6.4(3.7)
Spatial Span	4.9(1.5)	5.0(2.0)	4.9(2.0)	5.8(1.3)	6(1.8)	6.7(2.9)
Spatial Span Backward	3.4(1.7)	5.0(1.0)	3.7(2.0)	4.9(1.4)	2.8(2.0)	5.9(3.0)
Letter Fluency	6.8(5.0)	9.0(4.6)	5(4.6)	15.8(7.3)	15.2(4.3)	11.9(9.1)
Category Fluency	12.2(6.1)	12.3(7.0)	4.2(3.8)	19.1(6.9)	14.5(7.0)	17.4(7.1)
Trails A	64.3(36.9)	62.7(16.3)	75.1(46.8)	34.2(12.9)	52.3(33.6)	74.2(77.3)
Trails B	181.6(108.4)	192.3(95.1)	120.4(75.1)	82.1(44.9)	93.8(35.7)	100.0(75.0)
Coding	33.9(15.3)	29(13)	39(22.4)	53.3(20.3)	40.4(22.3)	48(25.7)
Design Fluency	8.4(3.5)	5.7(1.6)	9.6(4.4)	9.5(3.7)	9.2(5.5)	8.3(4.6)
Tapping – Right Hand	199.4(24.0)	133.5(7.6)	--	219.8(52.5)	126(56.6)	237.6(79.1)
Tapping-Left Hand	207.7(59.2)	145.8(61.9)	--	205.8(43.4)	172.5(17.7)	229.5(46.3)
Verbal Learning-Immediate (RAVLT)	17.5(7.5)	59(n/a)	16.1(12.5)	36.5(12.7)	32.6(15.7)	18(n/a)
Verbal Learning-Immediate (HVLTL)	21.2(5.5)	19.5(3.5)	6(n/a)	23.2(4.6)	7(n/a)	23.5(8.0)
RAVLT Delayed Recall	1.17(1.6)	19(n/a)	1.1(1.3)	6.3(3.9)	4.2(4.6)	0(n/a)
HVLTL Delayed Recall	6.5(4.8)	5.5(5/0)	0(n/a)	6.6(3.1)	0(n/a)	7.3(4.4)
-- = no participants performed this subtest from this diagnostic group; n/a = not applicable as only 1 participant participated in this task from this diagnostic group; PPA= Primary Progressive Aphasia; MCI = Mild Cognitive Impairment.						