CNS Vital Signs Report	Test Date: September 3, 2013 12:14:14
Subject Reference/ID: JillMackay	Administrator: Mark Squibb
Age: 55	Language: English (United States)
Total Test Time: 50:23 (min:secs)	Online Version 1.0

Patient Profile	Percentile Range				> 74	25 - 74	9 - 24	2 - 8	< 2
ratient Frome	Standard Score Range			> 109	90 - 109	80 - 89	70 - 79	< 70	
Domain Scores	Subject Score	Standard Score	Percentile	Valid Score**	Above	Average	Low Average	Low	Very Low
Neurocognitive Index (NCI)	NA	102	55	Yes		Х			
Composite Memory	88	81	10	Yes			Х		
Verbal Memory	42	68	2	Yes					Х
Visual Memory	46	103	58	Yes		Х			
Psychomotor Speed	150	89	23	Yes			Х		
Reaction Time*	593	112	79	Yes	Х				
Complex Attention*	3	112	79	Yes	Х				
Cognitive Flexibility	54	114	82	Yes	Х				
Processing Speed	55	109	73	Yes		Х			
Executive Function	55	114	82	Yes	Х				
Social Acuity	10	112	79	Yes	Х				
Reasoning	5	102	55	Yes		Х			
Sustained Attention	36	117	87	Yes	Х				
Working Memory	14	118	88	Yes	Х				
Simple Attention	39	92	30	Yes		Х			
Motor Speed	93	79	8	Yes				Х	

Domain Dashboard: Above average domain scores indicate a standard score (SS) greater than 109 or a Percentile Rank (PR) greater than 74, indicating a high functioning test subject. Average is a SS 90-109 or PR 25-74, indicating normal function. Low Average is a SS 80-89 or PR 9-24 indicating a slight deficit or impairment. Below Average is a SS 70-79 or PR 2-8, indicating a moderate level of deficit or impairment. Very Low is a SS less than 70 or a PR less than 2, indicating a deficit and impairment. Reaction times are in milliseconds. An * denotes that "lower is better", otherwise higher scores are better. Subject Scores are raw scores calculations generated from data values of the individual subtests.

VI** - Validity Indicator: Denotes a guideline for representing the possibility of an invalid test or domain score. "No" means a clinician should evaluate whether or not the test subject understood the test, put forth their best effort, or has a clinical condition requiring further evaluation.

Verbal Memory Test (VBM)	Score	Standard	Percentile				
Correct Hits - Immediate	7	65	1	Verbal Memory test: Subjects have to remember 15 words and recognize them in a field of 15 distractors. The test is repeated at the			
Correct Passes - Immediate	15	110	75	end of the battery. The VBM test measures how well a subject can recognize, remember, and retrieve words e.g. exploit or attend literal			
Correct Hits - Delay	6	71	3	representations or attribute. "Correct Hits" refers to the number of			
Correct Passes - Delay	14	97	42	target words recognized. Low scores indicate verbal memory impairment.			
Visual Memory Test (VSM)	Score	Standard	Percentile				
Correct Hits - Immediate	11	93	32	Visual Memory test: Subjects have to remember 15 geometric figures, and recognize them in a field of 15 distractors. The test is repeated at			
Correct Passes - Immediate	13	112	79	the end of the battery. The VIM test measures how well a subject can recognize, remember, and retrieve geometric figures e.g. exploit or			
Correct Hits - Delay	14	119	90	attend symbolic or spatial representations. "Correct Hits" refers to the			
Correct Passes - Delay	8	83	13	number of target figures recognized. Low scores indicate visual memory impairment.			
Finger Tapping Test (FTT)	Score	Standard	Percentile				
Right Taps Average	49	84	14	The FTT is a test of motor speed and fine motor control ability. There are three rounds of tapping with each hand. The FTT test measures the speed and the number of finger-taps with each hand. Low scores			
Left Taps Average	44	77	6	indicate motor slowing. Speed of manual motor activity varies handedness. Most people are faster with their preferred hand but always.			

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Symbol Digit Coding (SDC)	Score	Standard	Percentile	
Correct Responses	57	110	75	The SDC test measures speed of processing and draw upon several cognitive processes simultaneously, such as visual scanning, visual
Errors*	2	87	19	perception, visual memory, and motor functions. Errors may be due to impulsive responding, misperception, or confusion.
Stroop Test (ST)	Score	Standard	Percentile	
Simple Reaction Time*	296	102	55	The ST measures simple and complex reaction time, inhibition / disinhibition, mental flexibility or directed attention. The ST helps
Complex Reaction Time Correct*	535	113	81	assess how well a subject is able to adapt to rapidly changing and
Stroop Reaction Time Correct*	650	110	75	increasingly complex set of directions. Prolonged reaction times
Stroop Commission Errors*	1	98	45	indicate cognitive slowing / impairment. Errors may be due to impulsive responding, misperception, or confusion.
Shifting Attention Test (SAT)	Score	Standard	Percentile	
Correct Responses	56	111	77	The SAT measures executive function or how well a subject recognizes set shifting (mental flexibility) and abstraction (rules,
Errors*	1	115	84	categories) and manages multiple tasks simultaneously. Subjects have to adjust their responses to randomly changing rules. The best scores are high correct responses, few errors and a short reaction
Correct Reaction Time*	928	119	90	time. Normal subjects may be slow but accurate, or fast but not so accurate. Attention deficit may be apparent.
Continuous Performance Test (CPT)	Score	Standard	Percentile	
Correct Responses	40	103	58	The CPT measures sustained attention or vigilance and choice reaction time. Most normal subjects obtain near-perfect scores on this
Omission Errors*	0	103	58	test. A long response time may suggest cognitive slowing and/or
Commission Errors*	1	88	21	impairment. More than 2 errors (total) may be clinically significant. More than 4 errors (total) indicate attentional dysfunction.
Choice Reaction Time Correct*	452	93	32	wore than 4 entris (total) indicate attentional dysidiretion.
Perception Of Emotions Test (POET)	Score	Standard	Percentile	
Correct Responses	11	95	37	The POET measures how well a subject can perceive and identify
Average Correct Reaction Time*	979	107	68	specific emotions. The POET is an identification test of the positive
Omission Errors*	1	95	37	emotions "happy" and "calm" and the negative emotions "angry" and sad". "Social cognition" or "emotional acuity" has been defined as
Commission Errors*	1	114	82	"the way in which people make sense of other people and
Positive Emotions				themselves". It is the ability to perceive and understand social
Correct Hits	6	106	66	information. The reaction times in POET are much longer than in the
Reaction Time*	946	103	58	other tests, indicating the complexity of central processes governing emotional acuity.
Negative Emotions				emotional acuity.
Correct Hits	5	88	21	
Reaction Time*	1019	108	70	
Reasoning Test (RT)	Score	Standard	Percentile	
Correct Responses	10	106	66	The NVRT measures how well a subject can perceive and understand the meaning of visual or abstract information and
Average Correct Reaction Time*	4517	107	68	recognizing relationships between visual-abstract concepts. The NVRT is comprised of 15 matrices, or visual analogies. The matrices
Commission Errors*	5	99	47	are progressively more difficult. Each is presented for 14.5 seconds. Non-verbal or visual-abstract reasoning is the process of perceiving
Omission Errors*	0	120	91	issues and reaching conclusions through the use of symbols or generalizations rather than concrete factual information.

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Four Part Continuous Performance Test	Score	Standard	Percentile	
Part 1				The FPCPT test is a four part test that measures a subject's working
Average Correct Response Time*	335	103	58	memory and sustained attention. The FPCPT is a four part test:
Part 2			•	PART ONE - is a simple reaction time test, the subject must press the space bar when any stimulus is presented; PART TWO - is a variant
Correct Responses	6	103	58	of the continuous performance test, the subject is asked to respond to
Average Correct Response Time*	477	79	8	one stimulus, but not to any others. Discrimination is required, so the
Incorrect Responses*	0	104	61	reaction times that are generated are "choice reaction times". PART
Average Incorrect Response Time*	0			THREE - is a "one back" CPT. The subject has to respond to a figure
Omission Errors*	0	103	58	only if the figure immediately preceding was the same. PART FOUR - is a "two-back" CPT. It is a difficult task and is used to measure
Part 3			•	working memory. Parts two, three, and four of the tests are used to
Correct Responses	16	113	81	calculate sustained attention domain.
Average Correct Response Time*	556	98	45	
Incorrect Responses*	0	104	61	
Average Incorrect Response Time*	0			
Omission Errors*	0	113	81	
Part 4				
Correct Responses	15	120	91	
Average Correct Response Time*	616	104	61	
Incorrect Responses*	1	103	58	
Average Incorrect Response Time*	557	100	50	
Omission Errors*	1	120	91	