

CNS Vital Signs Report	Test Date: February 13, 2014 14:40:10
Subject Reference/ID: corbinwaugh	Administrator: Mark Squibb
Age: 25	Language: English (United States)
Total Test Time: 41:49 (min:secs)	Online Version 1.0

Patient Profile	Percentile Range				> 74	25 - 74	9 - 24	2 - 8	< 2
	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	92	30	Yes		X			
Composite Memory	81	63	1	Yes					X
Verbal Memory	48	82	12	Yes			X		
Visual Memory	33	60	1	Yes					X
Psychomotor Speed	192	105	63	Yes		X			
Reaction Time*	719	78	7	Yes				X	
Complex Attention*	5	104	61	Yes		X			
Cognitive Flexibility	56	109	73	Yes		X			
Processing Speed	58	91	27	Yes		X			
Executive Function	57	110	75	Yes	X				
Social Acuity	10	109	73	Yes		X			
Reasoning	11	113	81	Yes	X				
Sustained Attention	37	113	81	Yes	X				
Working Memory	16	119	90	Yes	X				
Simple Attention	39	96	40	Yes		X			
Motor Speed	133	113	81	Yes	X				

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	15	118	88	Verbal Memory test: Subjects have to remember 15 words and recognize them in a field of 15 distractors. The test is repeated at the end of the battery. The VBM test measures how well a subject can recognize, remember, and retrieve words e.g. exploit or attend literal representations or attribute. "Correct Hits" refers to the number of target words recognized. Low scores indicate verbal memory impairment.
Correct Passes - Immediate	13	79	8	
Correct Hits - Delay	11	97	42	
Correct Passes - Delay	9	24	1	
Visual Memory Test (VSM)	Score	Standard	Percentile	
Correct Hits - Immediate	12	98	45	Visual Memory test: Subjects have to remember 15 geometric figures, and recognize them in a field of 15 distractors. The test is repeated at the end of the battery. The VIM test measures how well a subject can recognize, remember, and retrieve geometric figures e.g. exploit or attend symbolic or spatial representations. "Correct Hits" refers to the number of target figures recognized. Low scores indicate visual memory impairment.
Correct Passes - Immediate	7	62	1	
Correct Hits - Delay	12	105	63	
Correct Passes - Delay	2	36	1	
Finger Tapping Test (FTT)	Score	Standard	Percentile	
Right Taps Average	69	113	81	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 indicate motor slowing. Speed of manual motor activity varies with handedness. Most people are faster with their preferred hand but not always.
Left Taps Average	64	111	77	

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Symbol Digit Coding (SDC)	Score	Standard	Percentile	
Correct Responses	59	91	27	The SDC test measures speed of processing and draw upon several cognitive processes simultaneously, such as visual scanning, visual perception, visual memory, and motor functions. Errors may be due to impulsive responding, misperception, or confusion.
Errors*	1	102	55	
Stroop Test (ST)	Score	Standard	Percentile	
Simple Reaction Time*	365	78	7	The ST measures simple and complex reaction time, inhibition / disinhibition, mental flexibility or directed attention. The ST helps assess how well a subject is able to adapt to rapidly changing and increasingly complex set of directions. Prolonged reaction times indicate cognitive slowing / impairment. Errors may be due to impulsive responding, misperception, or confusion.
Complex Reaction Time Correct*	705	73	4	
Stroop Reaction Time Correct*	732	87	19	
Stroop Commission Errors*	1	96	40	
Shifting Attention Test (SAT)	Score	Standard	Percentile	
Correct Responses	60	109	73	The SAT measures executive function or how well a subject recognizes set shifting (mental flexibility) and abstraction (rules, 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 time. Normal subjects may be slow but accurate, or fast but not so accurate. Attention deficit may be apparent.
Errors*	3	107	68	
Correct Reaction Time*	850	112	79	
Continuous Performance Test (CPT)	Score	Standard	Percentile	
Correct Responses	40	104	61	The CPT measures sustained attention or vigilance and choice reaction time. Most normal subjects obtain near-perfect scores on this test. A long response time may suggest cognitive slowing and/or impairment. More than 2 errors (total) may be clinically significant. More than 4 errors (total) indicate attentional dysfunction.
Omission Errors*	0	104	61	
Commission Errors*	1	91	27	
Choice Reaction Time Correct*	481	75	5	
Perception Of Emotions Test (POET)	Score	Standard	Percentile	
Correct Responses	11	98	45	The POET measures how well a subject can perceive and identify specific emotions. The POET is an identification test of the positive emotions "happy" and "calm" and the negative emotions "angry" and "sad". "Social cognition" or "emotional acuity" has been defined as "the way in which people make sense of other people and themselves". It is the ability to perceive and understand social information. The reaction times in POET are much longer than in the other tests, indicating the complexity of central processes governing emotional acuity.
Average Correct Reaction Time*	1003	99	47	
Omission Errors*	1	98	45	
Commission Errors*	1	111	77	
Positive Emotions				
Correct Hits	6	109	73	
Reaction Time*	942	100	50	
Negative Emotions				
Correct Hits	5	89	23	
Reaction Time*	1077	98	45	
Reasoning Test (RT)	Score	Standard	Percentile	
Correct Responses	13	116	86	The NVRT measures how well a subject can perceive and understand the meaning of visual or abstract information and recognizing relationships between visual-abstract concepts. The NVRT is comprised of 15 matrices, or visual analogies. The matrices are progressively more difficult. Each is presented for 14.5 seconds. Non-verbal or visual-abstract reasoning is the process of perceiving issues and reaching conclusions through the use of symbols or generalizations rather than concrete factual information.
Average Correct Reaction Time*	4530	102	55	
Commission Errors*	2	110	75	
Omission Errors*	0	115	84	

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Four Part Continuous Performance Test	Score	Standard	Percentile	
Part 1				<p>The FPCPT test is a four part test that measures a subject's working memory and sustained attention. The FPCPT is a four part test: 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 of the continuous performance test, the subject is asked to respond to one stimulus, but not to any others. Discrimination is required, so the reaction times that are generated are "choice reaction times". PART THREE - is a "one back" CPT. The subject has to respond to a figure 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 working memory. Parts two, three, and four of the tests are used to calculate sustained attention domain.</p>
Average Correct Response Time*	389	89	23	
Part 2				
Correct Responses	6	103	58	
Average Correct Response Time*	496	85	16	
Incorrect Responses*	0	104	61	
Average Incorrect Response Time*	0			
Omission Errors*	0	103	58	
Part 3				
Correct Responses	16	112	79	
Average Correct Response Time*	593	85	16	
Incorrect Responses*	1	101	53	
Average Incorrect Response Time*	638	78	7	
Omission Errors*	0	112	79	
Part 4				
Correct Responses	16	118	88	
Average Correct Response Time*	765	86	18	
Incorrect Responses*	0	112	79	
Average Incorrect Response Time*	0			
Omission Errors*	0	118	88	