

Brain Resource®

IntegNeuro

Client Assessment (**IN-Sample-07**)

Birth date withheld (age 13 years; male)

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This report is for clinicians only

The report is provided on pages 1 – 2.

The remainder of the report is score details.

Important Information

Reference: BRC-Sample0-07 Test Date: Sep 2005 Report Date: 16 Feb 2011

This report provides indications of general cognition and social cognition as compared directly or indirectly to a normative database. It is not to be used as a basis for action without consideration by a competent relevant professional. Patients should always seek the advice of a trained health professional or relevant specialist regarding any highlighted variances within this report before any treatment or action is taken.

This report is not intended to be used in any way on its own to diagnose, select treatment or cure any health condition.

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Patients should not disregard professional medical advice or delay seeking medical treatment as a result of findings contained within this report.

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1. Overall summary of findings

Cognition

Test	Deficit
1. Memory Recall and Recognition	
2. Digit Span	●
3. Span of Visual Memory	●
4. Continuous Performance Test	
5. Switching of Attention	
6. Motor Tapping	
7. Choice Reaction Time	
8. Time Estimation	
9. Verbal Interference	●
10. Spot the Real Word	
11. Word Generation	
12. Maze	
13. Go-NoGo	
14. Emotion Identification	

● = deficit compared to matched controls

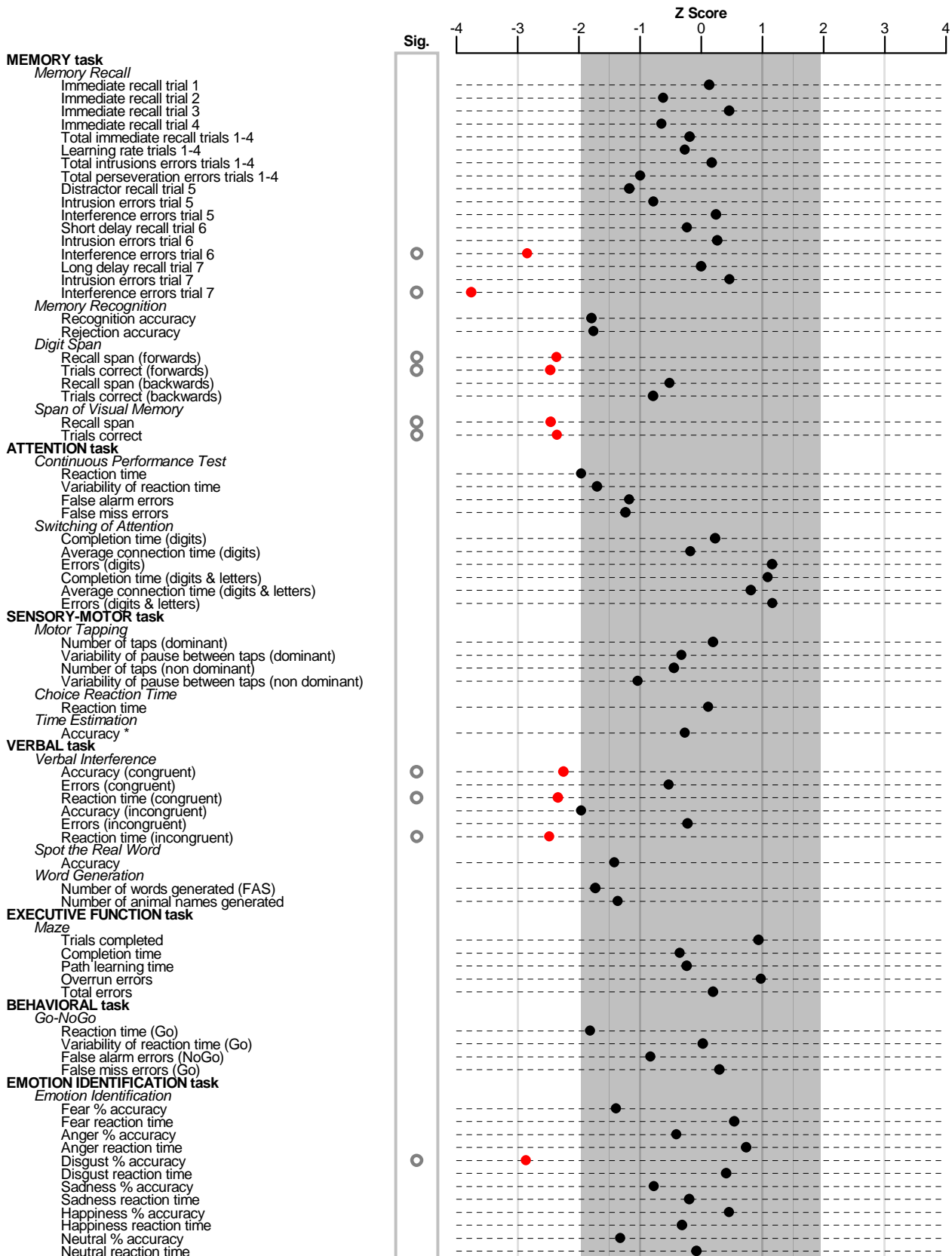
The table above shows deficits in key measures found in each test.

The remainder of this report provides the landscape summary and then the details underpinning these results.

For further details or queries not addressed in this report, please email: info@brainresource.com

2. Summary of Cognition results (landscape view)

Client IN-Sample-07 compared to normal controls



For convenience, the tasks are organized by broad cognitive groupings. The circles in the Sig. column indicate statistically significant differences compared with the normal control. The Z scores on the right are normalized for age, gender and years of education, which means differences from zero reflect differences from 'average peer'. Positive Z scores indicate strengths, negative Z scores indicate potential deficits. Z scores beyond -2 to +2 are statistically significant. False alarm errors (respond when should not) = false positive; errors of commission. False miss errors (not respond when should) = false negatives; errors of omission. Memory Recall (Intrusion = words not on the list. Interference = words from the other list. Perseveration = repeat errors). Time Estimation Accuracy (* optimum performance is a score of 0; a negative score reflects underestimation of time intervals and a positive score reflects overestimation of time intervals). Specialist interpretation is required.

Appendix 1. Details of Cognition

Measure	Client	Int. Brain Database		Z Score	Percentile
		Average	Std. Dev		
Memory Recall					
Immediate recall trial 1	6	5.8	1.4	0.13	55 th
Immediate recall trial 2	7	8	1.6	-0.62	27 th
Immediate recall trial 3	10	9.3	1.6	0.46	68 th
Immediate recall trial 4	9	10.2	1.9	-0.65	26 th
Total immediate recall trials 1-4	32	32.9	4.9	-0.18	43 rd
Learning rate trials 1-4	1.2	1.34	0.54	-0.26	40 th
Total intrusions errors trials 1-4	1	1.3	1.9	0.17	57 th
Total perseveration errors trials 1-4	6	2.3	3.7	-0.99	16 th
Distractor recall trial 5	3	4.9	1.6	-1.17	12 th
Intrusion errors trial 5	1	0.34	0.84	-0.78	22 nd
Interference errors trial 5	0	0.18	0.75	0.24	60 th
Short delay recall trial 6	8	8.5	2	-0.23	41 st
Intrusion errors trial 6	0	0.19	0.72	0.27	61 st
• Interference errors trial 6	2	0.1	0.67	-2.84	< 1 st
Long delay recall trial 7	8	8	2.1	0.00	50 th
Intrusion errors trial 7	0	0.41	0.89	0.46	68 th
• Interference errors trial 7	3	0.1	0.77	-3.76	< 1 st
Memory Recognition					
Recognition accuracy	9	11.6	1.5	-1.79	4 th
Rejection accuracy	9	11.9	1.6	-1.76	4 th
Digit Span					
• Recall span (forwards)	3	5.7	1.2	-2.36	1 st
• Trials correct (forwards)	1	6.1	2.1	-2.47	1 st
Recall span (backwards)	3	3.9	1.7	-0.51	30 th
Trials correct (backwards)	1	2.5	2	-0.78	22 nd
Span of Visual Memory					
• Recall span	2	5.2	1.3	-2.46	1 st
• Trials correct	2	6.9	2.1	-2.35	1 st
Continuous Performance Test					
Reaction time	1009 ^{ms}	706 ^{ms}	154 ^{ms}	-1.96	3 rd
Variability of reaction time	421 ^{ms}	222 ^{ms}	117 ^{ms}	-1.7	4 th
False alarm errors	5	1.9	2.6	-1.17	12 th
False miss errors	4	1.3	2.2	-1.24	11 th
Switching of Attention					
Completion time (digits)	21.5 ^s	22.7 ^s	5.1 ^s	0.23	59 th
Average connection time (digits)	844 ^{ms}	809 ^{ms}	198 ^{ms}	-0.18	43 rd
Errors (digits)	0	0.9	0.78	1.16	88 th
Completion time (digits & letters)	37 ^s	49 ^s	11 ^s	1.09	86 th
Average connection time (digits & letters)	1494 ^{ms}	1879 ^{ms}	472 ^{ms}	0.82	79 th
Errors (digits & letters)	0	1.16	0.99	1.17	88 th
Motor Tapping					
Number of taps (dominant)	158	154	22	0.19	58 th
Variability of pause between taps (dominant)	42 ^{ms}	32 ^{ms}	30 ^{ms}	-0.32	37 th
Number of taps (non dominant)	123	132	21	-0.44	33 rd
Variability of pause between taps (non dominant)	103 ^{ms}	46 ^{ms}	55 ^{ms}	-1.03	15 th

Raw scores of the Cognitive findings (• = statistically significant; Std. Dev = standard deviation; Int = international).

Measure	Client	Int. Brain Database Average	Std. Dev	Z Score	Percentile
Choice Reaction Time					
Reaction time	721ms	734ms	112ms	0.12	55 th
Time Estimation					
Accuracy *	-0.02s	0.02s	0.15s	-0.27	
Verbal Interference					
• Accuracy (congruent)	12	18.1	2.7	-2.25	1 st
Errors (congruent)	1	0.2	1.6	-0.53	30 th
• Reaction time (congruent)	1449ms	1057ms	168ms	-2.34	1 st
Accuracy (incongruent)	6	12.2	3.2	-1.96	3 rd
Errors (incongruent)	1	0.78	0.98	-0.22	41 st
• Reaction time (incongruent)	2374ms	1464ms	368ms	-2.48	1 st
Spot the Real Word					
Accuracy	34	41.9	5.6	-1.42	8 th
Word Generation					
Number of words generated (FAS)	5.7	11.3	3.2	-1.73	4 th
Number of animal names generated	14	21.1	5.2	-1.36	9 th
Maze					
Trials completed	5	7.3	2.5	0.94	83 rd
Completion time	161s	140s	60s	-0.35	36 th
Path learning time	125s	112s	55s	-0.24	41 st
Overrun errors	9	14.4	5.5	0.98	84 th
Total errors	29	32	13	0.2	58 th
Go-NoGo					
Reaction time (Go)	482ms	323ms	88ms	-1.82	3 rd
Variability of reaction time (Go)	155ms	156ms	49ms	0.03	51 st
False alarm errors (NoGo)	6	3.9	2.6	-0.83	20 th
False miss errors (Go)	4	5.9	6.5	0.3	62 nd
Emotion Identification					
Fear % accuracy	38	66	20	-1.39	8 th
Fear reaction time	2.17s	2.51s	0.62s	0.54	71 st
Anger % accuracy	50	57	16	-0.41	34 th
Anger reaction time	1.93s	2.32s	0.53s	0.73	77 th
• Disgust % accuracy	0	47	16	-2.86	< 1 st
Disgust reaction time	2.01s	2.22s	0.53s	0.41	66 th
Sadness % accuracy	50	66	21	-0.77	22 nd
Sadness reaction time	2.35s	2.23s	0.61s	-0.2	42 nd
Happiness % accuracy	100	94	14	0.46	68 th
Happiness reaction time	1657ms	1550ms	344ms	-0.31	38 th
Neutral % accuracy	75	96	16	-1.32	9 th
Neutral reaction time	1586ms	1557ms	364ms	-0.08	47 th

Raw scores of the Cognitive findings (• = statistically significant; Std. Dev = standard deviation; Int = international).

Time Estimation Accuracy (* optimum performance is a standardized score of 0; a negative standardized score reflects underestimation of time intervals and a positive standardized score reflects overestimation of time intervals).

Nominal classification bands	Percentile boundary
Very superior	≤ 100 th
Superior	< 98 th
High average	< 91 st
Average	< 75 th
Low average	< 25 th
Borderline	< 9 th
Extremely Low	< 2 nd

Appendix 2. Self Report Questionnaires

Personal Details	Client				
Birth date	withheld				
Gender	MALE				
Marital status	Single				
Height (cm)	158				
Weight (kg)	64				
Occupation	Student				
Highest level of education	Primary/Elementary school				
Number of years of education	7				
Handedness	Right				
Physical/Medical History	Client				
Sphere	Psychological Complaints				
Vision impairment	No				
Hearing difficulties	No				
Restricted movement	No				
Mobile phone	No				
Dyslexia (learning difficulties)	No				
Traumatic experience	No				
Family or personal psychiatric illness	No				
Family or personal neurological disorder	No				
CNS surgery	No				
Physical trauma	No				
Sleep difficulties	No				
Staying awake difficulties	No				
Eating problems	No				
Number of caffeine beverages per week	0				
Substance Used	Client				
Tobacco	No				
Alcohol	No				
Marijuana	No				
Non-prescription/recreational drugs	No				
Depression Anxiety Stress Scales	Client	Severity Rating			
Depression	0	Normal			
Stress	0	Normal			
Anxiety	0	Normal			
Brain Resource Inventory for Emotional Intelligence Factors (BRIEF)	Client	Average	Std. Dev	Z Score	Percentile
Empathy/Intuition factor	20	19.62	3.25	0.12	55 th
Social/Relationships factor	15	13.07	2.67	0.72	76 th
Self Esteem factor	14	13.55	1.9	0.24	59 th
Prescription Drugs	Client				
Use prescription medications	No				

● = statistically significant; Std. Dev = standard deviation; N/A = data not available