



IntegNeuro Report

Client Assessment (IN-Sample-06)

Birth date withheld (age 13 years; female)

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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.

For description of the tests - see <http://www.brainresource.com/reportdetails.jsp>

For Summary Report Manual - see <http://www.brainresource.com/reportmanual.jsp>

Important Information Reference: BRC-Sample-06 Test Date: Oct 2002 Report Date: 07 Jul 2006

This report provides indications of brain function and cognition as compared to an age and gender matched controls group normative database. It is not to be used as a basis for action without consideration by a competent relevant professional. 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 diagnose, treat or cure any health condition.

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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. Sustained Attention (CPT)	●
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	

● = deficit compared to matched controls (see Appendix 1.3 for details)

The table above shows deficits found in each test (1–12).

The list below summaries what the practical significance of that deficit is considered to be:

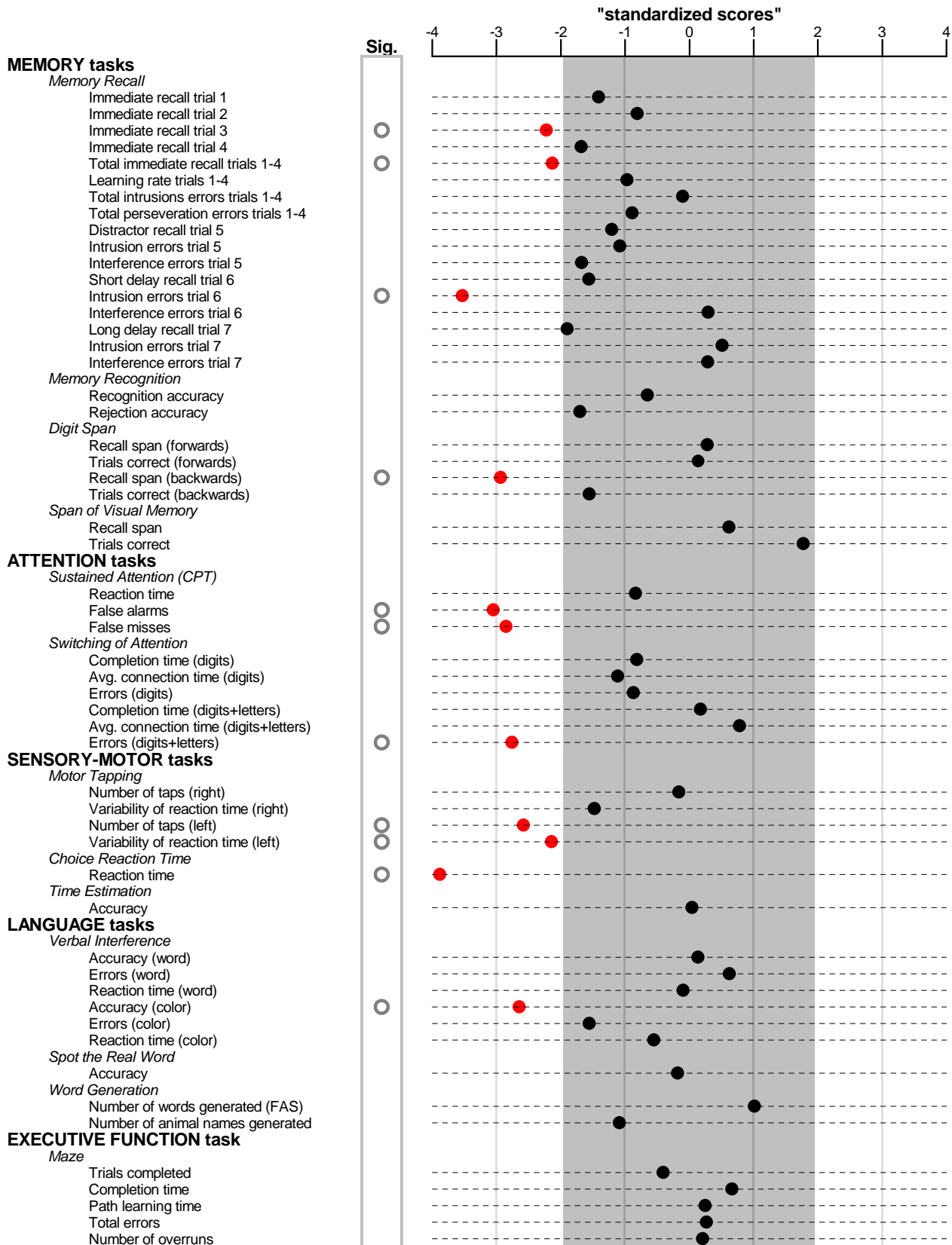
1. Ability to learn and remember new tasks based on verbal information. Critical, central everyday skill.
2. Ability to hold, retain and operate on new verbal information. Skills crucial to most everyday, verbal tasks requiring memory. Everyday examples include remembering telephone numbers and shopping lists.
4. Ability to detect and respond to significant change under conditions requiring vigilance. Fundamental everyday skills e.g. train, plane, automobile, computer and equivalent machine operations.
6. Everyday motor skills such as typing and machine operation.
7. Visual discriminative judgment and response. Examples: visual monitoring tasks requiring choice and reaction such as air traffic control, driving judgement.
9. Part 1: Simple reading ability. Part 2: Ability to control impulses; behavioural control.

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-06 compared to normal controls



For convenience, the tasks are organized by broad cognitive groupings. The circles on the left indicate statistically significant differences compared with the normal control. The "standardized scores" on the right are normalized for age, gender and years of education, which means differences from zero reflect differences from 'average peer' (also known as z-scores). Positive "standardized scores" indicate strengths, negative "standardized scores" indicate potential deficits (Avg = average). "Standardized scores" beyond -2 to +2 are statistically significant. False alarms (respond when should not) = false positive; errors of commission. False misses (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). Specialist interpretation is required.

Appendix 1. Details of Cognition

Appendix 1.1 The client's scores

Measure	Client	Int. Brain Database		Standardized Score	Percentile
		Average	Std. Dev		
Memory Recall					
Immediate recall trial 1	4	5.9	1.3	-1.41	8 th
Immediate recall trial 2	7	8.3	1.6	-0.81	21 st
• Immediate recall trial 3	6	9.6	1.6	-2.22	1 st
Immediate recall trial 4	7	10.4	2	-1.68	5 th
• Total immediate recall trials 1-4	24	33.9	4.6	-2.13	2 nd
Learning rate trials 1-4	0.8	1.39	0.61	-0.97	17 th
Total intrusions errors trials 1-4	1	0.9	1.4	-0.1	46 th
Total perseveration errors trials 1-4	12	4.3	8.7	-0.89	19 th
Distractor recall trial 5	3	5	1.7	-1.21	11 th
Intrusion errors trial 5	1	0.26	0.69	-1.08	14 th
Interference errors trial 5	1	0.14	0.51	-1.68	5 th
Short delay recall trial 6	6	9	1.9	-1.56	6 th
• Intrusion errors trial 6	3	0.12	0.82	-3.53	< 1 st
Interference errors trial 6	0	0.08	0.28	0.29	62 nd
Long delay recall trial 7	5	8.7	1.9	-1.9	3 rd
Intrusion errors trial 7	0	0.23	0.45	0.51	70 th
Interference errors trial 7	0	0.08	0.26	0.29	61 st
Memory Recognition					
Recognition accuracy	11	11.56	0.87	-0.65	26 th
Rejection accuracy	10	11.8	1	-1.7	4 th
Digit Span					
Recall span (forwards)	6	5.6	1.5	0.28	61 st
Trials correct (forwards)	6	5.7	1.9	0.14	56 th
• Recall span (backwards)	0	3.7	1.3	-2.94	< 1 st
Trials correct (backwards)	0	2.9	1.9	-1.55	6 th
Span of Visual Memory					
Recall span	6	5.1	1.4	0.62	73 rd
Trials correct	10	6.6	1.9	1.78	96 th
Sustained Attention (CPT)					
Reaction time	611 _{ms}	528 _{ms}	100 _{ms}	-0.83	20 th
• False alarms	14	1.6	4	-3.05	< 1 st
• False misses	12	1.2	3.8	-2.85	< 1 st
Switching of Attention					
Completion time (digits)	25.1 _s	21.5 _s	4.5 _s	-0.81	21 st
Avg. connection time (digits)	956 _{ms}	765 _{ms}	172 _{ms}	-1.11	13 th
Errors (digits)	2	0.8	1.4	-0.87	19 th
Completion time (digits+letters)	47 _s	49 _s	11 _s	0.17	57 th
Avg. connection time (digits+letters)	1483 _{ms}	1786 _{ms}	386 _{ms}	0.78	78 th
• Errors (digits+letters)	14	1	4.7	-2.76	< 1 st
Motor Tapping					
Number of taps (right)	142	146	25	-0.16	44 th
Variability of reaction time (right)	112 _{ms}	29 _{ms}	56 _{ms}	-1.48	7 th
• Number of taps (left)	67	128	24	-2.58	< 1 st
• Variability of reaction time (left)	330 _{ms}	47 _{ms}	132 _{ms}	-2.14	2 nd

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

Measure	Client	Int. Brain Database Average	Std. Dev	Standardized Score	Percentile
Choice Reaction Time					
• Reaction time	1486ms	728ms	195ms	-3.88	< 1 st
Time Estimation					
Accuracy	0.00s	-0.01s	0.18s	0.04	52 nd
Verbal Interference					
Accuracy (word)	19	18.7	2.5	0.13	55 th
Errors (word)	0	0.23	0.36	0.62	73 rd
Reaction time (word)	1026ms	1013ms	140ms	-0.1	46 th
• Accuracy (color)	6	12.7	2.5	-2.64	< 1 st
Errors (color)	3	0.8	1.4	-1.55	6 th
Reaction time (color)	1571ms	1425ms	265ms	-0.55	29 th
Spot the Real Word					
Accuracy	40	40.8	4.3	-0.18	43 rd
Word Generation					
Number of words generated (FAS)	14	11.3	2.7	1.01	84 th
Number of animal names generated	17	22.3	4.8	-1.09	14 th
Maze					
Trials completed	9	7.7	3.1	-0.41	34 th
Completion time	134s	166s	48s	0.67	75 th
Path learning time	114s	131s	70s	0.25	60 th
Total errors	29	33	13	0.27	61 st
Number of overruns	13	14.2	6	0.21	58 th

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

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

The test descriptions, selected references and how the scores are derived can be found at <http://www.brainresource.com/reportdetails.jsp>

Appendix 2. Malingering score

Measures possible deliberate underperformance by the subject.

Details are withheld for reasons of confidentiality.

On a test designed to investigate the validity of responding, there was no suggestion of sub-optimal effort or any deliberate attempt to feign impairment.

Appendix 3. Demographics (summary scores of personal and clinical history)

Personal Details	Client				
Date of birth	withheld				
Gender	FEMALE				
Marital status	Single				
Height (cm)	165				
Weight (kg)	50				
Occupation	CustomerServiceRepresentative				
Highest level of education	Secondary/High school				
Number of years of education	10				
Handedness	Right				
Physical/Medical History	Client				
Sphere	Fatigue and Psychological Complaints				
Vision impairment	No				
Hearing difficulties	No				
Restricted movement	Yes				
Mobile phone	Yes				
Dyslexia (learning difficulties)	No				
Traumatic experience	Yes				
Family or personal psychiatric illness	Yes				
Family or personal neurological disorder	No				
CNS surgery	No				
Physical trauma	Yes				
Sleep difficulties	Yes				
Staying awake difficulties	No				
Eating problems	Yes				
Number of caffeine beverages per week	14				
Substance Used	Client				
Tobacco	Yes				
Alcohol	Yes				
Marijuana	Yes				
Non-prescription/recreational drugs	No				
Depression Anxiety Stress Scales	Client		Severity Rating		
Depression	26		Severe		
Stress	24		Moderate		
Anxiety	14		Moderate		
Emotional Intelligence (EI)	Client	Average	Std. Dev	Standardized Score	Percentile
Empathy/Intuition factor	19	20.41	3.27	-0.43	33 rd
Social/Relationships factor	11	13.54	2.63	-0.97	17 th
Self Esteem factor	15	13.19	1.91	0.95	83 rd
NEO-FFI	Client		T Score		Range
Neuroticism	29		N/A		N/A
Extraversion	36		N/A		N/A
Openness	17		N/A		N/A
Agreeableness	15		N/A		N/A
Conscientiousness	6		N/A		N/A

● = statistically significant (normalized for age, gender and years of education); Std. Dev = standard deviation; N/A = data not available
 For the list of questions - see Report Details on <http://www.brainresource.com/reportdetails.jsp>

Prescription Drugs	Client
Use prescription medications	Yes
Medication 1:	
Name	Ritalin
Reason	ADHD
Dosage	2 mg
Frequency	Many times per day
Medication 2:	
Name	Ritalin
Reason	ADHD
Dosage	10 mg
Frequency	Many times per day
Medication 3:	
Name	Zoloft
Reason	not known
Dosage	1 tablet
Traumatic Experience	Client
Direct combat in war	No
Life-threatening accident	No
Natural disaster	No
Witnessed someone injured or killed	No
Raped	No
Sexually molested	No
Attacked or assaulted	No
Threatened with weapon or kidnapped	No
Tortured or victim of terrorists	No
Extremely stressful or upsetting event	Yes
Shock (happened to someone close)	No
Mobility/Dexterity	Client
Mobility	N/A
Reduced dexterity on hand	N/A
Mobile Phone	Client
Frequency	Many times per day
Duration per call	5-10 minutes
Duration per day	10-30 minutes
Years of usage	1 - 2 years
Psychological History	Client
Diagnosed with psychiatric disorder	Yes
Nature	ADHD
Year	2001
Duration	Ongoing
Treatment	Yes
Treatment type	Pharmaceutical
Family history	Yes
Family condition	ADHD

Eating Habits	Client
Eat within 2 hours	N/A
Vomit	N/A
Laxatives	N/A
Fasted	N/A
Exercise	N/A
Tobacco	Client
First smoking after wake up	6-30 min
Unable to stop smoking	Yes
Unwilling to give up	First in the morning
Amount	11 to 20
Smoke more early	No
Smoke when sick	No
Alcohol	Client
Frequency	Two to four times a month
Amount	7 to 9
Drink six or more	Never
Unable to stop drinking	Never
Morning drinking	N/A
Feel guilty after drinking	N/A
Unable to remember	N/A
Cause injury	N/A
Concerned by others	N/A
Marijuana	Client
Frequency	Occasionally
Duration	Less than 1 year
Amount	Less than 1 per week
Physical Trauma	Client
Area	N/A
Age	N/A
Impact Injury	N/A