Fetal Origins of Neurobehavior: Lead and Cholesterol Metabolism Interaction

Children

Variables and labels

Variable	Label
proy_old	Old (id) Project
fol_old	Old id
date_vis	Visit date project choleterol
foliocc	Id project choleterol
etapacc	Stage project choleterol
sex_ch	Sex
age_ch	Age

Anthropometry

Variable	Label
weight_ch	Weight
height_ch	Height
bmi_ch	Bmi
waist_ch	Waist
spsyst_right_ch	Systolic right arm space lab
spdias_right_ch	Diastolic right arm space lab
spsyst_left_ch	Systolic left arm space lab
spdias_left_ch	Diastolic left arm space lab
syst_left_ch	Systolic left arm
dias_left_ch	Diastolic left arm

Biological samples

Biometrics

Variable	Label
leu	Leucocytes
eri	Eritrocytes
hgb	Hemoglobin
hct	Hematocrit
vcm	Mean corpuscular volume
hcm	Mean corpuscular hemoglobin
chcm	Mean corpuscular hemoglobin concentration
ade	Red blood cell distribution width
plq	Platelets
vpm	Mean platelet volume
Pct_p	Plateletcrit (%)
Adp_p	Platelet distribution width (%)
Negra_p	Neutrophil granulocytes (%)
Li_p	Lymphocytes (%)
Mo_p	Monocytes (%)
Eo_p	Eosinophil granulocytes (%)
Ba_p	Basophil granulocytes (%)
lat _p	Atypical lymphocytes (%)
cim _p	Immature cells (%)
Ne_n	Neutrophil (#)
Ly_n	Lymphocytes (#)
mo_n	Monocytes (#)
eo_n	Eosinophil (#)
ba_n	Basophil (#)
lat_n	Atypical lymphocytes (#)
cim_n	Immature cells (#)

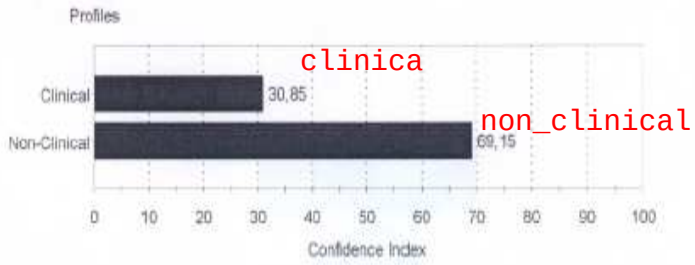
Conners' CPT II

Conners' Continuous Performance Test II (CPT II V.5)

By C. Keith Conners, Ph.D. and MHS Staff

Confidence Index Associated with ADHD Assessment

The following graph shows Veronica's Confidence Index for the clinical and non-clinical profiles.



clinica

non_clinical

Non-clinical, 69,15% Confidence

The CPT discriminant function indicates that the results better match a non-clinical than clinical profile. The Confidence Index computed can be readily described in the following way: The chances are 69,15 out of 100 that no significant attention problem exists.

The Confidence Index should always be reviewed in relation to results on the remaining CPT II measures. When the Confidence Index falls close to 50 (providing no decision), however, there is a heightened need to examine all individual index and measure scores, and to consider the inter-relationships between them.

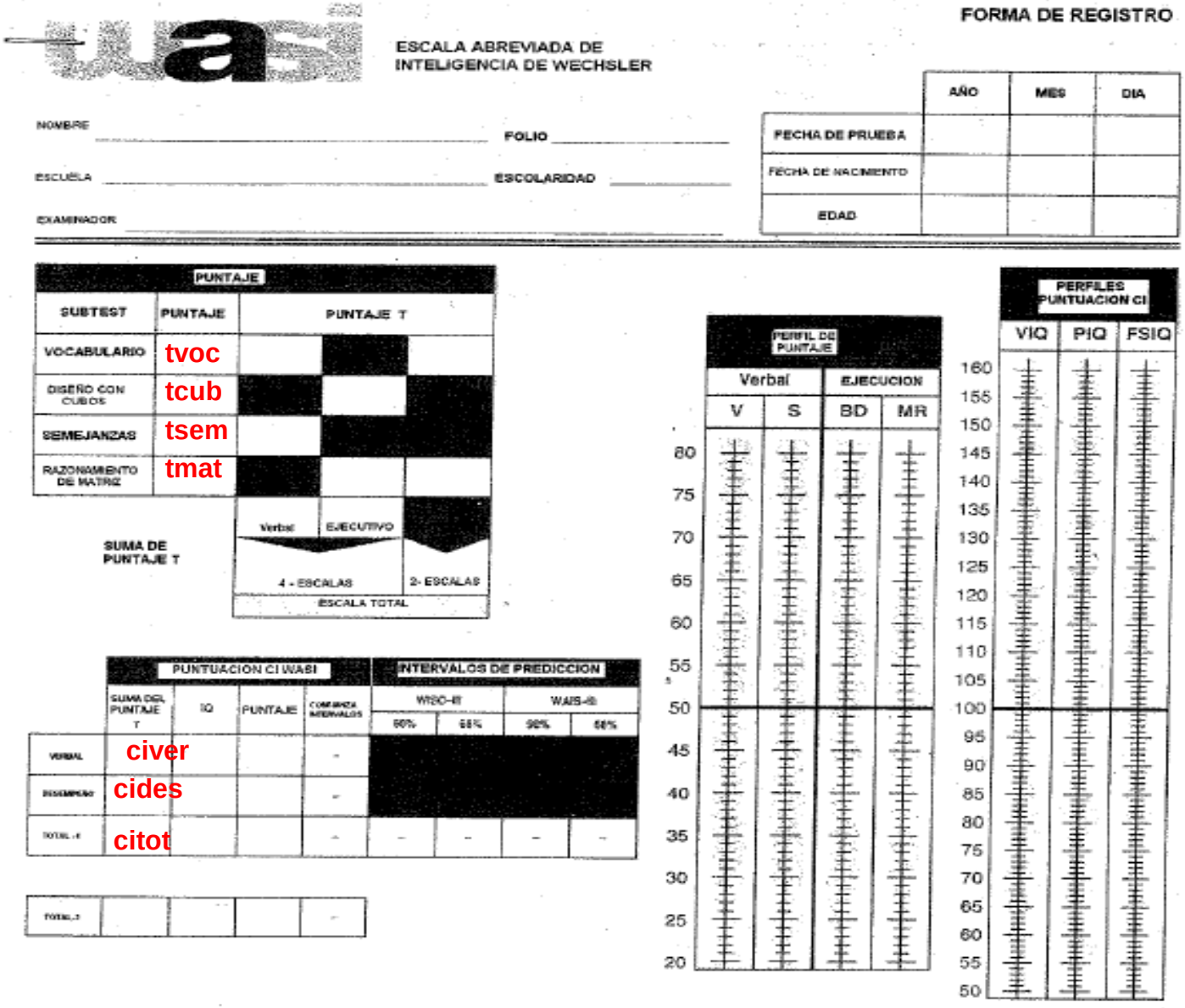
Summary of Overall Measures

(general population norms used)

The following table summarizes overall measures and gives general information about how she compares to the normative group.

Measure	Value	T-Score	Percentile	Guideline
Omissions %				
Commissions %				
Hit RT				
Hit RT Std. Error				
Variability				
Detectability (d')				
Response Style (ß)				
Perseverations %				
Hit RT Block Change				
Hit SE Block Change				
Hit RT ISI Change				
Hit SE ISI Change				

omissions
commisions
hitrt
hitrtse
variability
detectability
responsestyle
Perseverations
rtblockchange
seblockchange
rtisichange
seisichange



FORMA DE REGISTRO

ESCALA ABREVIADA DE INTELIGENCIA DE WECHSLER

NOMBRE _____ FOLIO _____

ESCUELA _____ ESCOLARIDAD _____

EXAMINADOR _____

	AÑO	MES	DIA
FECHA DE PRUEBA			
FECHA DE NACIMIENTO			
EDAD			

PUNTAJE

SUBTEST	PUNTAJE	PUNTAJE T
VOCABULARIO	tvoc	
DISEÑO CON CUBOS	tcub	
SEMEJANZAS	tsem	
RAZONAMIENTO DE MATRIZ	tmat	

SUMA DE PUNTAJE T

Verbal	EJECUTIVO	
4 - ESCALAS		2- ESCALAS
ESCALA TOTAL		

PUNTUACION CI WASI				INTERVALOS DE PREDICCION			
	SUMA DEL PUNTAJE T	IQ	PUNTAJE	CONFIANZA INTERVALOS	WISC-III		WAIS-III	
					90%	95%	90%	95%
VERBAL	civer			-				
EJECUTIVO	cides			-				
TOTAL	citot			-	-	-	-	-

TOTAL 3				-

PERFIL DE PUNTAJE

Verbal		EJECUCION	
V	S	BD	MR
80			
75			
70			
65			
60			
55			
50			
45			
40			
35			
30			
25			
20			

PERFILES PUNTUACION CI

VIQ	PIQ	FSIQ
160		
155		
150		
145		
140		
135		
130		
125		
120		
115		
110		
105		
100		
95		
90		
85		
80		
75		
70		
65		
60		
55		
50		

WRAVMA

WIDE RANGE ASSESSMENT OF VISUAL MOTOR ABILITIES

VMA

EXAMINER FORM

NAME _____ SEX. M F

SCHOOL _____ GRADE _____

REFERRED BY _____

EXAMINER: _____

DATE OF EXAM: YR ___ MO ___ DAY ___

BIRTHDATE: YR ___ MO ___ DAY ___

AGE : YR ___ MO ___ DAY ___

	Raw Score	Standard Score	Percentile Score
DRAWING *Visual-Motor*	vis_mot		
MATCHING *Visual-Spatial*	vis_spa		
PEGBOARD *Fine Motor*	vis_fin_mot		
Total Standard Scores			
VMA Composite	compos		

.3 2 16 50 84 98 99.7

Percentiles

55 70 85 100 115 130 145

Standard Scores

Reason for Referral:

Previous Test Results:

BASC- Autoreporte: Niño 8 a 11 años

Test Date: 08/21/2009

SRP Score Summary: General - Combined Sex Norm Group

Composite Score Summary

	Raw Score	T Score	Percentile Rank	90% Confidence Interval
School Problems sp				
Internalizing Problems ip				
Inattention/Hyperactivity ih				
Emotional Symptoms Index esi				
Personal Adjustment pa				

Composite Comparisons	Difference	Significance Level	Frequency of Difference
School Problems vs. Internalizing Problems			
Internalizing Problems vs. Inattention/Hyperactivity			
School Problems vs. Inattention/Hyperactivity			

Mean T score of the ESI	
Inverted Mean T score of the ESI	

Scale Score Summary

	Raw Score	T Score	Percentile Rank	90% Confidence Interval	Ipsative Comparision		
					Difference	Significance Level	Frequency of Difference
Attitude to School as							
Attitude to Teachers at							
Atypicality ip							
Locus of Control lc							
Social Stress sst							
Anxiety anx							
Depression dep							
Sense of Inadequacy si							
Attention Problems ap							
Hyperactivity hyp							
Relations with Parents rp							
Interpersonal Relations ir							
Self-Esteem se							
Self-Reliance sr							

Note. All classifications of test scores are subject to the application of the standard error of measurement (SEM) when making classification decisions. Individual clinicians are advised to consider all case-related information to determine if a particular classification is appropriate. See the BASC-2 Manual for additional information on SEMs and confidence intervals.

BASC- Autoreporte: Adolecente 12 a 21 años

Test Dat

SRP Score Summary: General - Combined Sex Norm Group

Composite Score Summary

	Raw Score	T Score	Percentile Rank	90% Confidenc Interval
School Problems sp				
Internalizing Problems ip				
Inattention/Hyperactivity ih				
Emotional Symptoms Index esi				
Personal Adjustment pa				

Composite Comparisons	Difference	Significance Level	Freq Di
School Problems vs. Internalizing Problems			
Internalizing Problems vs. Inattention/Hyperactivity			
School Problems vs. Inattention/Hyperactivity			

Mean T score of the ESI	
Inverted Mean T score of the ESI	

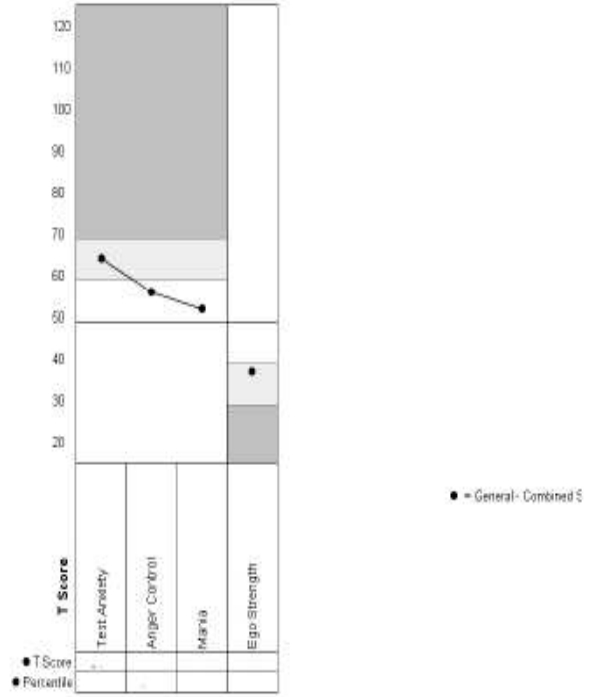
Scale Score Summary

	Raw Score	T Score	Percentile Rank	90% Confidence Interval	Ipsative Comparision		
					Difference	Significance Level	ot
Attitude to School as							
Attitude to Teachers at							
Sensation Seeking sse							
Atypicality aty							
Locus of Control lc							
Social Stress sst							
Anxiety anx							
Depression dep							
Sense of Inadequacy si							
Somatization somi							
Attention Problems ap							
Hyperactivity hyp							
Relations with Parents rp							
Interpersonal Relations ir							
Self-Esteem se							
Self-Reliance sr							

Note. All classifications of test scores are subject to the application of the standard error of measurement (SEM) when makin decisions. Individual clinicians are advised to consider all case-related information to determine if a particular classification is appr BASC-2 Manual for additional information on SEMs and confidence intervals.

Content Scales

The information provided below is based on content scales that have been theoretically and empirically developed. This information is considered to be secondary to the clinical, adaptive, and composite scale information provided previously. An elevated content scale score may warrant additional follow-up.



Summary: General - Combined Sex Norm Group

	Raw Score	T Score	Percentile Rank	90% Confidence Interval
Test Anxiety				
Anger Control				
Mania				
Ego Strength				

BRIEF-SR

Behavior Rating Inventory of Executive Function-Self-Report Version

RATING FORM

Steven C. Guy, PhD, Peter K. Isquith, PhD, and Gerard A. Gioia, PhD

Scoring Summary Table

Scale/Index	Raw score	*T* score	%ile rank	90% CI
Inhibit				____ – ____
Shift				____ – ____
Emotional Control				____ – ____
Monitor				____ – ____
BRI				____ – ____
Working Memory				____ – ____
Plan/Organize				____ – ____
Org. of Materials				____ – ____
Task Completion				____ – ____
MI				____ – ____
GEC (*BRI* + *MI*)				____ – ____

Subscale	Raw score	*T* score	%ile rank	90% CI
Behavioral Shift				____ – ____
Cognitive Shift				____ – ____

Negativity Scale

1. Negativity items are indicated by [N] in the margin of the Scoring Sheet. For each Negativity item with a score of 3, circle that item number in the column to the right.
2. Count the number of circled item numbers to determine the **Negativity score**.
3. Using the Negativity score table below, circle the appropriate protocol classification corresponding to that score.

Negativity score	Cumulative %	Protocol classification
0 – 5	0 – 98	Acceptable
≥ 6	99 – 100	Elevated

Item
10.
11.
17.
19.
25.
30.
32.
43.
45.
54.

Negativity score
Total

Inconsistency Scale

For each item pair:

1. Transfer the item score for each item (marked (I) in the margin of the Scoring Sheet) to the appropriate item pairs box. Be sure to review the item scores recorded.
2. Subtract the ***lesser*** number from the ***greater*** number and enter the result in the *Difference* column.
3. Sum the numbers in the *Difference* column to obtain the **Inconsistency score**. Circle the appropriate protocol classification corresponding to that score in the table below.

Inconsistency score	Cumulative %	Protocol classification
0 – 8	0 – 98	Acceptable
≥ 9	99 – 100	Inconsistent

Item	Score	Item	Score		Difference
8.		26.		→	
14.		32.		→	
20.		77.		→	
23.		41.		→	
38.		72.		→	
46.		79.		→	
55.		67.		→	
56.		68.		→	
58.		65.		→	
63.		73.		→	
				Inconsistency score	

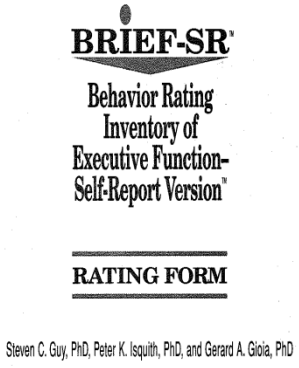
PAR Psychological Assessment Resources Inc. 16204 N. Florida Avenue, Lutz, FL 33549 1-800-331-8378

BRIEF-SR

Behavior Rating Inventory of Executive Function-Self-Report Version™

RATING FORM

Steven C. Guy, PhD, Peter K. Isquith, PhD, and Gerard A. Gioia, PhD



c_inhibic_n	BRIEF Child:	Questions-anwers Inhibit
c_shift_a_n	BRIEF Child:	Questions-anwers Shift a
c_shift_b_n	BRIEF Child:	Questions-anwers Shift b
c_econtrol_n	BRIEF Child:	Questions-anwers Econtrol
c_monitor_n	BRIEF Child:	Questions-anwers monitor
c_wmemory_n	BRIEF Child:	Questions-anwers wmemory
c_porganize_n	BRIEF Child:	Questions-anwers porganize
c_omaterials_n	BRIEF Child:	Questions-anwers materials
c_tcompletion_n	BRIEF Child:	Questions-anwers task completation
c_inhibit	BRIEF Child:	Raw Score inhibit
c_shift_a	BRIEF Child:	Raw Score Shift a
c_shift_b	BRIEF Child:	Raw Score Shift b
c_shift	BRIEF Child:	Raw Score shift
c_econtrol	BRIEF Child:	Raw Score econtrol
c_monitor	BRIEF Child:	Raw Score monitor
c_wmemory	BRIEF Child:	Raw Score wmemory
c_porganize	BRIEF Child:	Raw Score porganize
c_omaterials	BRIEF Child:	Raw Score materials
c_tcompletion	BRIEF Child:	Raw Score Task Completation
c_BRI	BRIEF Child:	Raw Score BRI
c_MI	BRIEF Child:	Raw Score MI
c_GEC	BRIEF Child:	Raw Score GEC
c_bshift	BRIEF Child:	Raw Score Behavioral Shift
c_cshift	BRIEF Child:	Raw Cognitive Shift
c_inhibic_ts	BRIEF Child:	T Score inhibit
c_shifc_ts	BRIEF Child:	T Score shift
c_econtrol_ts	BRIEF Child:	T Score econtrol
c_monitor_ts	BRIEF Child:	T Score monitor
c_BRI_ts	BRIEF Child:	T Score BRI
c_wmemory_ts	BRIEF Child:	T Score wmemory
c_porganize_ts	BRIEF Child:	T Score porganize
c_omaterials_ts	BRIEF Child:	T Score materials
c_tcompletion~s	BRIEF Child:	T Score Completation
c_MI_ts	BRIEF Child:	T Score MI
c_GEC_ts	BRIEF Child:	T Score GEC
c_bshift_ts	BRIEF Child:	T Score Behavioral Shift
c_shift_ts	BRIEF Child:	Tscore Cognitive Shift
c_summ_negative	BRIEF Child:	Negativity score
c_negative_sc~e	BRIEF Child:	Negativity Protocol Classification
c_summ_incon	BRIEF Child:	Inconsistency score
c_incon_score	BRIEF Child:	Inconsistency Protocol Classification

Cantab

Age	14			NART	87					
Test	Measure	Raw score	Standard score	Standard score chart	Better than	Good as or better than	Population diagram	Comparison basis			
								Age	NART	M/F	N
DMS	A'[1]	c_dmsa	0.44		50-65%	60-65%		All	All	M	64
	B''[1]	c_dmsb	-0.45		40-45%	40-45%		All	All	M	126
	Mean correct latency	c_dmsmcl			No normative data available						
	Mean correct latency (all delays)[1]	c_dmsmcld	3,130.38	0.78	80-85%	80-85%		All	All	M	327
	Mean correct latency (simultaneous)[1]	c_dmsmcls	3,768.89	-0.08	35-40%	35-40%		All	All	M	327
	Percent correct	c_dmspc	82.5		No normative data available						
	Percent correct (all delays)[1]	c_dmspcld	80.0	0.01	40-45%	50-55%		All	All	M	344
	Percent correct (simultaneous)[1]	c_dmspcls	90.0	-0.46	15-20%	35-40%		All	All	M	344
	Prob error given correct[1]	c_dmspegc	0.19	-0.34	40-45%	40-45%		All	All	M	131
	Prob error given error[1]	c_dmspege			40-45%	40-45%		All	All	M	126
	Total correct[1]	c_dmstc		-0.31	25-30%	30-35%		All	All	M	131
	Total correct (all delays)[1]	c_dmstcld	24	-0.22	25-30%	40-45%		All	All	M	131
	Total correct (simultaneous)[1]	c_dmstcls	9	-0.50	15-20%	35-40%		All	All	M	131

Cantab

Children

IED	Completed stage errors[1] c_iedcse	32	-2.50	0-5%	0-5%		All	All	M	173
	Completed stage trials[1] c_iedcst	109	-2.09	0-5%	0-5%		All	All	M	173
	EDS errors[1] c_iededs	2	0.68	65-70%	80-85%		All	All	M	286
	Pre-ED errors[1] c_iedped	8	0.30	40-45%	55-60%		All	All	M	179
	Stages completed[1] c_iedsc	9	0.42	15-20%	100%		All	All	M	297
	Total errors[1] c_iedte	32	-1.36	10-15%	10-15%		All	All	M	173
	Total errors (adjusted)[1] c_iedtea	32	-0.21	20-25%	20-25%		All	All	M	291
	Total trials[1] c_iedtt	109	-1.61	5-10%	5-10%		All	All	M	173
	Total trials (adjusted)[1] c_iedtta	109	-0.40	15-20%	15-20%		All	All	M	173

Cantab

MTS	Mean correct movement time	815.59										c_mtsmcmt
	Mean correct reaction time	2,919.45										c_mtsmcrt
	Mean error movement time	1,065.25										c_mtsmemt
	Mean error reaction time	4,067.75										c_mtsmert
	Mean movement time (1 choice)	1,067.42										c_mtsmmt1c
	Mean movement time change (2-8)	-16.27										c_mtsmmt28c
	Mean reaction time (1 choice)	1,955.33										c_mtsmrt1c
	Mean reaction time change (2-8)	1,650.06										c_mtsmrt28c
	Percent correct[1]	91.67	-1.17		5-10%	5-10%		All	All	M	354	c_mtspc
	Total correct[1]	44	-0.20		20-25%	25-30%		All	All	M	117	c_mtstc

No normative data available

Cantab

Children

RVP	A'[1]	c_rvpa	-1.35	10-15%	10-15%		All	All	M	74
	B''[1]	c_rvpb	-0.72	10-15%	10-15%		All	All	M	73
	Mean latency[1]	c_rvpml	1.15	90-95%	90-95%		All	All	M	74
	Probability of false alarm[1]	c_rvppfa	1.23	5-10%	5-10%		All	All	M	74
	Probability of hit[1]	c_rvpph	-1.33	10-15%	10-15%		All	All	M	74
	Total correct rejections[1]	c_rvptcr 240	-1.36	10-15%	10-15%		All	All	M	74
	Total false alarms[1]	c_rvptfa 3	-1.42	5-10%	5-10%		All	All	M	74
	Total hits[1]	c_rvpth	-1.35	10-15%	10-15%		All	All	M	74
	Total misses[1]	c_rvptm	-1.35	10-15%	10-15%		All	All	M	74

Cantab

SOC	Mean initial thinking time (2 moves)[1] c_socmitt2m	1,463.0	0.42	70-75%	70-75%		All	All	M	271
	Mean moves (2 moves)[1] c_socmm2m	2.0	0.15	0-5%	100%		All	All	M	164
	Mean subsequent thinking time (2 moves)[1] c_socstt2m	0.0	0.15	65-70%	100%		All	All	M	271
	Problems solved in minimum moves[1] c_socpsmm	8	-0.23	30-35%	45-50%		All	All	M	274
	Mean initial thinking time (3 moves)[1] c_socmitt3m	4,620.5	0.64	75-80%	75-80%		All	All	M	270
	Mean moves (3 moves)[1] c_socmm3m	3.0	0.36	5-10%	100%		All	All	M	163
	Mean subsequent thinking time (3 moves)[1] c_socmst3m	0.0	0.43	75-80%	100%		All	All	M	270
	Mean initial thinking time (4 moves)[1] c_socmit4m	5,918.0	0.74	80-85%	80-85%		All	All	M	270
	Mean moves (4 moves)[1] c_socmm4m	5.0	0.23	25-30%	55-60%		All	All	M	163
	Mean subsequent thinking time (4 moves)[1] c_socmstt4m	1,072.0	0.54	65-70%	65-70%		All	All	M	270
	Mean initial thinking time (5 moves)[1] c_socmitt5m	4,419.5	0.91	90-95%	90-95%		All	All	M	269

SOC	Mean moves (5 moves)[1]	7.5	0.66	15-20%	15-20%		All	All	M	162
	Mean subsequent thinking time (5 moves)[1]	2,274.06	-0.03	30-35%	30-35%		All	All	M	269
SST	Direction errors on stop and go trials	3		No normative data available						
	Proportion of successful stops (last half)	0.52		No normative data available						
	Median correct RT on GO trials	395.0		No normative data available						
	SSD (50%) (last half)	187.25		No normative data available						
	SSRT (last half)	207.75		No normative data available						

c_socmm5m

c_socmstt4m0

c_sstdest

c_sstpss

c_sstmcrtgt

c_sst_ssd50

c_sst_ssdlh