

Neuropsicologia Forense

Antonio E. Puente

University of North Carolina Wilmington

Colegio de Psicologos

Granada, Espana

12.19.2013

Resumen

Diferencia de la Psicología Forense y la
Neuropsicología Forense

Información Posiblemente Útil

Tipos de Casos

Un Concepto Teorético

Puntos Pragmáticos

Ejemplo de un Caso de Pena de Muerte

Diferencias

Nivel Educativo

Certificado

Enfoque

Informacion

Antonioepuente.com

Unw.edu/people/puente

Clnicalneuropsychology.com

Psychologycoding.com

Tipos de Casos

Social Security (beneficio)

Worker's Compensation (trabajo)

Civil (e.g., ACE/TBI AA)

Criminal (e.g., capacidad)

Death Penalty (e.g., capital)

Concepto Teorico

Estudio de Caso- Caso científico

Estadística (SD)

Histórico-Cultural (Iuria-Vygostky)

Resumen = proceso científico-clínico, socio-cultural, y educativo

Puntos Pragmaticos

Origen

Abogados vs. Psicólogos

Contrato

Horas y Años

Costo

Equipo de Trabajo

Personal

Segunda opinión

Puntos Pragmaticos

Revisión de informes

Entrevista(s)

Pruebas

Informe

Peritaje

Deposición

Tribunal

Antonio E. Puente, Ph.D.
Coding/Scheduling Information

FORENSIC SERVICES REQUEST

DATE: _____

Inmate: _____

Requesting Party: _____

Contact Number(s): _____

Location: _____

Charge: _____

Time Frame: _____

Additional Information: _____

ACCEPT

DECLINE

RETAINER: _____

Tel: 910-509-9371
Fax: 910-509-9372

Antonio E. Puente, Ph.D.
Neuropsychology
1508 Military Cutoff Road, Suite 303
Wilmington, NC 28403

website: www.clinicalneuropsychology.us
E-mail: Puente@clinicalneuropsychology.us

Forensic Fee Schedule

Effective January 1, 2013 the fee schedule will be as follows:

Record Review by Master Level Forensic Technician:	_____ hour
Record /Case Review by Antonio E. Puente, Ph.D.	_____ hour
Case Consultation	_____ hour
Testimony/Deposition	_____ hour
Testimony/Deposition (requiring travel) *	_____ hour

*Expenses are not included and will be billed at the rate incurred.

A retainer will be required for all requested services, the amount will be determined on a case by case basis.

Neuropsychological Evaluation Financial Agreement

I/we acknowledge that Antonio E. Puente, Ph.D. requires 48 hours notice to cancel or reschedule appointments without any financial penalty. Cancellations within a 24 hour time frame are billed at 50% of the usual and customary rate, and those cancelled beyond the 24 hour time frame or ones in which the patient fails to show for are billed at 75% of the full rate. This fee includes scheduling an average of 4 hours of clinical testing time and at least one-hour neuropsychological evaluation time for report writing.

I/we agree to these terms and authorize Antonio E. Puente, Ph.D. to schedule my/our client for a neuropsychological evaluation and neuropsychological testing and agree to the terms of payment recognizing that Antonio E. Puente, Ph.D. does accept the North Carolina Industrial Commission fee schedule or the fee schedule of other preferred provider organizations that it contracts with.

Claimant Name: _____

Date of Scheduled Evaluation _____

Usual and Customary Fee per hour _____

No Show Fee _____

Cancellation Fee [0-24 hours prior] _____

Cancellation Fee [24-48 hours prior] _____

This agreement will need to be signed, dated, and returned to Antonio E. Puente, Ph.D. facsimile to 910-509-9372 at least five business days prior to evaluation date in order to maintain the scheduled appointment unless you have made prior arrangements with our clinic.

Should you have any questions, please feel free to contact us at 910-509-9371.

Sincerely,
Antonio E. Puente, Ph.D.

Signature _____ Date _____

Printed Name _____

Date: _____

Antonio E. Puente, Ph.D.
Coding and Scheduling Information Sheet

Name: _____

Responsible Party: _____

DOB: _____

Billing Rate: _____

FORENSIC SERVICES

<u>Activity</u>	<u>Code</u>	<u>Units</u>	<u>Activity</u>	<u>Code</u>	<u>Units</u>
CNS Assessment and Tests:			Neuropsychological Testing – AEP	96118F	_____
Psychological Testing	96101F	_____	Neuropsychological Testing – Tech	96119F	_____
Neurobehavioral Status Exam	96116F	_____	Neuropsychological Testing – Comp.	96120F	_____

Other Forensic Services:

Case Preparation	CASE PREP	_____	Discussion with Mitigation Specialist	MS-DIS	_____
Case Review	CASE REV	_____	Discussion with Professional	PROF-DIS	_____
Collateral Interview(s)	COLL INT	_____	Record Review – Office – AEP	RR-AEP	_____
Completion of Forms	FORMS	_____	Record Review – Out of Town – AEP	RR-OT-AEP	_____
Correspondence	CORRESP	_____	Record Review – Technician –	RR-TECH	_____
Court Appearance	COURT	_____	Report Preparation	REP PREP	_____
Deposition	DEPO	_____	Scoring – Technician –	SCORING	_____
Deposition Review	DEPO REV	_____	Tables – Technician –	TABLES	_____
Discussion with Attorney	ATTY-DIS	_____	Travel	TRAVEL	_____

FORENSIC BILLING INFO

NAME: _____ TYPE: _____

ATTORNEY: _____ LOCATION: _____

RESPONSIBLE PARTY: _____ FORM REQ'D: _____

BILLING VIA: _____

CONTACT INFO: _____

RATE: _____

Date	Funds Authorized	Billed	Balance Available
	\$	\$	\$

Neuropsychological and Psychological Tests

Date: _____

Name: _____ Age: _____

Technician: _____

DOB: _____ Years of Education: _____ Handedness: R L

Standard Neuropsychological/Psychological Tests		Halstead-Reitan Neuropsychological Battery	Spanish Tests
ABAS-II	Lateral Dominance Examination	- Young Children (5-8)	"A" Cancellation
b Test	McGill Pain	- Older Children (9-14)	ASI
BASC	Mini-Mental Status Exam-2	- Adult (15+)	BATERIA-3
Beck Anxiety Inventory	MMPI-2	Category Test	BDI-II
Beck Depression Inventory-II	MMPI-2 Validity Scales	Grip Strength	Calculation Ability
Benton Visual Retention Test	MMPI-Adolescent	Halstead Finger Tapping Test	Digit Span Backward
Beta III	Nelson-Denny Test	Individual Performance Tests	Digit Span Forward
BNCE	NPI	Lateral Dominance Examination	Draw a Cube
Boston Naming Test	Pain Behavior Checklist	Marching Test	FAS
CARB	PASAT	Matching Pictures Test	frSBe
Category Test	Peabody PVT	Progressive Figures Test	Mini-Mental Status Exam
Category Test (Booklet)	Raven (Std.) (Color)	Reitan-Indiana Aphasia Exam	MMPI-2
Children's Memory Scale	Reitan-Indiana Aphasia	R-K Sensory-Perceptual	NEUROPSI
Clinical Dementia Rating	Rey 15 Item Test	Seashore Rhythm Test	NEUROPSI-Attention
Clock Drawing Test	Rey AVLT	Speech Sounds Perception Test	Peabody PVT
Confusion Assess. Method	Ruff 2&7	Tactual Performance Test	Reading & Writing
Conners	Ruff Figural Fluency Test	Target Sheet	Serial Learning
CTONI-2	Shipley-2	Trail Making Test A&B	Spanish Grammar
CVMT	Stroop Test		Spanish Naming
D-KEFS	Stroop Test (Children)	CNS Vital Signs Battery	Spanish Phonemic
Dementia Rating Scale - 2	Symbol Digit Modalities Test	- Complete Battery	Spanish Repetition
Digit Span Backward	TOMM	Continuous Performance	Stroop Test
Digit Span Forward	Trail Making Test A&B	Finger Tapping	TOMM
Dot Counting Test	Trails (Color)	Shifting Attention	WAIS-III
FAS	TSI-2	Stroop Test	Whitaker
Finger Tapping Test	Vineland	Symbol Digit Coding	WISC-IV
frSBe	WAIS-IV	Verbal Memory	WMLS-R
Grip Strength	WISC-IV	Visual Memory	Woodcock Munoz
Grooved Pegboard	Wisconsin Card Sorting Test		Word List
HCR-20	WMS-IV		
Hooper Visual Org. Test	WMT	Total Hours: _____	
Hopkins Verbal Learning Test	WRAT-IV	Testing Date #1: _____	Time: _____ - _____
Iowa Gambling Task	Zung Depression	Testing Date #2: _____	Time: _____ - _____
		Testing Date #3: _____	Time: _____ - _____
		Testing Date #4: _____	Time: _____ - _____

Caso de Pena de Muerte

Numero Total

Por Año/Mes

Horas

Dificultades

Ejemplos

Raliroad Killer

Chandra Levy

Ángel Maturino Reséndiz aka Rafael Resendez-Ramirez



Born	Ángel Leoncio Reyes Recendis August 1, 1959 Izúcar de Matamoros, Puebla
Died	June 27, 2006 (aged 45) Huntsville, Texas
Criminal charge	Serial murder, sexual assault

Chandra Levy



[Senior portrait](#) of Chandra Levy

Born	Chandra Ann Levy April 14, 1977 Cleveland, Ohio , United States
Disappeared	May 1, 2001 (aged 24) Washington, D.C. , United States



Caso de Pena de Muerte

Descripción General

Revisión de Datos

Entrevista

Pruebas

Informe

Resultado

Defendant
DOB 00.00.0000

Antonio E. Puente, Ph.D.

Overview

- Summary of Findings
- Procedure
- Etiology
- Findings in Detail

Summary of Findings

- ADHD (by history)
- Depression (by history/testing)/ Bipolar (history)
- Poly-substance abuse/dependence (history)
- Organic Brain Syndrome (testing)
- Organic Personality Disorder (history/testing)

Evaluation Procedure Summary

- Interviews
 - Defendant
 - Number of interviews= 6
 - Total number of interview hours= 5
- Testing Sessions
 - Number of testing sessions= 7
 - Total number of hours= 19
 - Each test blindly scored and re-checked
- Total number of tests administered
 - Total = 51
 - Types of tests = Neuropsychological, Affect, Intelligence, Academic

Documents Reviewed

- Official Documents
 - Interviews with Defendant
 - School Records
 - Employment Records
 - BOP Violations
- Health Records
 - Medical Records
 - Psychological Evaluations

Tests Administered

- **Neuropsychological**
 - **Battery**
 - **NEUROPSI (S)**
 - **Bateria III (S)**
 - **CNSVS (E)**
 - **Behavioral Assessment of the Dysexecutive Syndrome (E)**
 - **D-KEFS (x2) (E)**
 - **Screening**
 - **Mini Mental Status Examination**
 - **Attention**
 - **Ruff 2&7 (x2)**
 - **Fluency**
 - **FAS Fluency Test**
 - **Ruff Figural & Fluency Test**
 - **Visuo-Motor**
 - **Draw a Cube**
 - **Finger Tapping (x2)**
 - **Trail Making A&B (x3)**
 - **Learning and Reasoning**
 - **Wisconsin Card Sorting Test**
 - **Iowa Gambling Task**
 - **Hooper Visual Organization Test (x2)**
 - **Stroop Color and Word Test (x2)**
 - **Booklet Category Test (x2)**

Effort Testing

- Direct Assessment of Effort
 - Dot Counting
 - TOMM
 - Rey 15 Item Test
- Reliability
 - Hooper (x2)
 - Finger Tapping (x2)
 - Ruff 2&7 (x2)
 - Stroop (x2)
 - WMT (x2)
 - PPVT III (x3, Spanish and English)
 - Dot Counting (x2)
 - Trail Making Parts A&B (x2)
 - Category Test (x2)
 - Zung (x2)
 - BDI II (x2)
 - D-KEFS (x2)
 - Symbol Digit (x2)
 - FAS (x2)

Test of Effort:

Scientifically Derived Tests of Faking

Test	Raw Score	Interpretive Range
Rey 15 Item Test	15/15	Normal Effort
Dot Counting	Trial 1: 12 Trial 2: 10	Normal Effort (both trials)
TOMM	Trial 1: 50 Trial 2: 48	Normal Effort (both trials)

Reliability:

Another Form of Testing Effort

Test	Initial Score	Repeat Score
Hooper	17	25
Finger Tapping	Right: 54.6 Left: 84.8	Right: 56.4 Left: 55.2
Ruff 2 & 7	Speed: 104 Accuracy: 96	Speed: 77 Accuracy: 108
Stroop	(In English) W: 51 C: 48 CW: 33 Interference: 8.3	(In Spanish) W: 94 C: 61 CW: 38 Interference: 1.01
WMT	44	39
PPVT III	(In English) 158	(In Spanish) 93
Dot Counting	12	10
Trail Making Parts A & B	27"	62"
Category Test	66	28

Reliability: Continued

Test	Initial Score	Repeat Score
Zung	52	47
BDI-II	24	21
D-KEFS	1	16
Symbol Digit	50	45
FAS	F: 9 A: 7 S: 12	F: 8 A: 12 S: 14

Attention Deficit Hyperactivity Disorder

- Inattention
 - Failure to attend to detail, schoolwork, work, or activities
 - Difficulty with attention, listening, finishing, organizing activities
 - Easily distracted or forgetful
- Hyperactivity
- Impulsivity
 - Interrupting or intruding on others

Source: Diagnostic and Statistical Manual of Mental Disorders IV

Test of Attention

Ruff 2&7 Selective Attention Test

Date	Test	Raw Score	T Score	Percentile
12.14.08	Total Speed	104	55	70
	Total Accuracy	96	54	66
03.07.10	Total Speed	77	40	16
	Total Accuracy	108	54	66

Dysthymia Depressive Disorder

- Dysthymia is an overwhelming, chronic state of depression, characterized by continuous depressed mood for at least 2 years. The condition also features at least two of the following symptoms for at least two consecutive months:
 - Poor appetite or overeating
 - Insomnia or hypersomnia
 - Low energy or fatigue
 - Low self-esteem
 - Poor concentration or difficulty making decisions
 - Feelings of hopelessness

Source: Diagnostic and Statistical Manual of Mental Disorders IV

Tests of Depression

Beck Depression Inventory II

Date	Raw Score	Impairment Range
12.14.08	24	Moderately Impaired
12.15.08	21	Moderately Impaired

Zung Self-Rating Depression Scale

Date	Raw Score	Impairment Range
12.14.08	52	Minimal to mild
3.10.10	47	Normal

Organic Brain Syndrome (Dementia)

- Deficits in “Frontal” or “Executive” Functioning
 - Resulting in Significantly Decreased Attention, Fluency and Flexibility
- Assessment based on a series of tests
 - Ruff 2&7
 - Ruff Figural Fluency
 - Hooper Visual Organization Test
 - Booklet Category Test
 - Finger Tapping
 - FAS Verbal Fluency
 - Trail Making Parts A&B
 - BADS
 - D-KEFS

Neuropsychological Test Results

- Screening

Test	Raw Score	Impairment
MMSE	29 25" 15/16 Correct	NA

Neuropsychological Test Results: Continued

- Fluency

RFFT	Raw Score	T Score	Percentile	Interpretive Range
Unique Designs	45	30.2	2.2	Impaired
Error Ratio	.286	65.7	94.4	Borderline

Phonetic Fluency	Raw Score	Interpretive Range
F	8	
A	12	
S	14	

Neuropsychological Test Results: Continued

- Visuo-Motor

FTT	Raw Score	Interpretive Range
Right Hand	54.6	
Left Hand	84.8	

Draw a Cube: Complete

TMT	Raw Score	Percentile
Trail A	27"	
Trail B	62"	

Neuropsychological Test Results: Continued

- Learning and Reasoning

Iowa Gambling Task	Raw Score	T Score	Percentile
	0	46	34
Category Test	66	32	NA
WCST	32 Errors 6 Categories	43	25
Stroop	W: 86	39	NA
	C: 63	39	
Hooper	25	54	NA

Neuropsychological Test Results: Continued

- Memory

Test	Raw Score	Interpretive Range
Symbol Digit	50	
RAVLT	26	<20
HVLT	19	29
Serial Learning	5 Trials	
Benton	3 Correct	
WCMT	44	

Assessment of Intellectual Abilities

Test	Raw Score	Percentile
BETA III IQ	94	34
CTONI	Nonverbal IQ: 85 Pictorial IQ: 76 Geometric IQ: 96	16 6 38
Shipley Institute of Living	Verbal: 22 Abstract: 22 Total: 44	NA

Academic Abilities Assessment

Test	Raw Score	Percentile
WRAT III	Reading: 36	5
	Spelling: 33	19
	Arithmetic: 36	14
PPVT (English)	158	18
PPVT (Spanish)	93	NA
Woodcock- Munoz Language Survey	Vocabulario Dib: 28	Age Equivalence: 6-9
	Analogia Verbal: 21	8-0
Nelson-Denney Reading Rate	23	Grade: 4.1

Factors Affecting Neuropsychological and Intellectual Functioning

- Family
 - Dysfunctional – parents never married or lived together
 - Neglect from father; mother is only caretaker
 - Abandonment and trauma
 - Mother did not want Defendant to be placed into DLC
 - Mother has epilepsy
 - Mother had bad pregnancy
 - nausea throughout the 9 months
 - Pre and post-natal depression
- Environment
 - “Educationally, Emotionally Disturbed”
 - Drug/Alcohol dependence
 - Experienced assault June 2004 (Defendant stabbed)
 - Drug abuse/dependence
 - Defendant’s girlfriend pregnant with his baby began to use pills; he was trying to shield the baby from the drugs

Summary

- ADHD
- Learning Disability
- Depression; Bi-polar
- Polydrug abuse/dependence
- Frontal Lobe Disorder/Organic Personality Disorder

Legend

WNL- within normal limits (typical of population)

Borderline- near impairment (problems are likely)

Mild impairment- over one standard deviation from the mean (definite problems)

Moderate impairment- between one and two standard deviations from the mean (problems will interfere with daily living)

Significant impairment- over three standard deviations from the mean (problems will affect life regardless of intervention)

Standard deviation- shows how much variation exists from the the mean.

t-score- a standardize score that factors in related values, such as mean of the sample, mean of the population, and the standard deviation.

Percentile- is a value of the variable that a certain percent of the population fall below.

Cutoff- a designated limit or point of termination.

Battery

NEUROPSI		
Bateria III	Errors on subtests: 45, 35, 71, 17, 25, 11	Highest Age Equivalence on subtests: 13-10
CNSVS		
D-KEFS	16	
BADS	Rule Shift: 3 Temporal Judge: 0 Zoo map: 1	

Employment History

Dates	Months Employed	Employer	Salary per hour	Position	Reason for Termination of Job
06.28.05 – 08.02.05	2	Hotel	\$4.00	Server	N/A
04.02.04-03.09.05	13	Hotel	\$5.15	Pool and Beverage Attendant	Abandoned Job
11.25.03-03.25.04	4	Hotel	\$5.25	Pool guest attendant	Poor performance Sleeping; tardiness; dancing with clients; using phone without permission; jumping on balconies
08.01.02-11.23.03	16	Hotel	\$5.25	Steward	Tardiness; no showed and would not call. defendant resigned with the intentions to continue school.
1998-1999	12	Hotel	\$6.50	N/A	N/A
N/A	N/A	Barber Shop	N/A	8-5PM shift	N/A
Mean months employed: 9.4 Standard Deviation: 6.06			Mean salary per hour: \$5.23 Standard Deviation: \$0.88		

Educational History: Pre-College

Institution	Dates	Psycho-educational evaluation	Grades
Public Schools	1988	WISC-R: 51 st percentile, Full IQ score: 101	Average
School District	1991	Significant emotional problems including “highly sensitive to being teased by peers”, “compliance is poor”, “lack of self-control, often alienates peers”, as well as a short attention span and low frustration tolerance	Average
Public School District	1992	IQ indicated as average.	7 th : 1.8 8 th : 1.8 9 th : 2.4 10 th : 1.67 Mean GPA: 1.92

Educational History: College

COURSE	GRADE	YEAR	SEMESTER	CREDIT HOURS
MANAGERIAL FINANCE	W	2005	JAN/MAY	3
WELL BEING AND QUALITY OF LIFE	D	2005	JAN/MAY	3
HISTORICAL PROC OF PUERTO RICO	C	2005	JAN/MAY	3
BASIC STATISTICS	W	2005	JAN/MAY	3
INTERMEDIATE ACCOUNTING II	F	2004	JAN/MAY	4
WELL BEING AND QUALITY OF LIFE	R	2004	JAN/MAY	3
HISTORICAL PROC OF PUERTO RICO	R	2004	JAN/MAY	3
PRINCIPLES OF ECONOMICS (MICRO)	F	2004	JAN/MAY	3

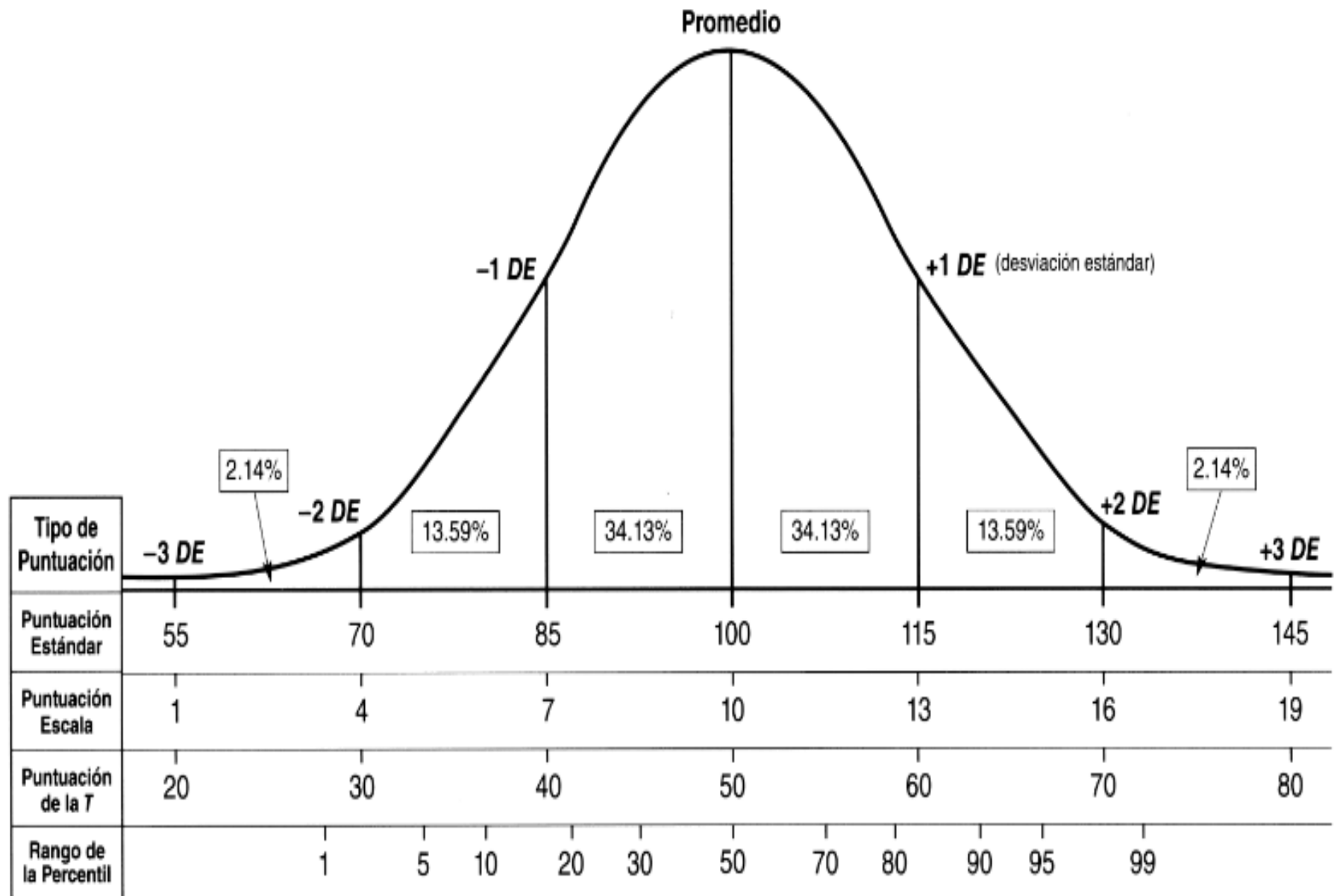
COURSE	GRADE	YEAR	SEMESTER	CREDIT HOURS
ELECTRONIC WORKSHEET IN ACCT	D	2003	AUG/DEC	3
INTERMEDIATE ACCOUNTING I	B	2003	AUG/DEC	4
ADMINISTRATIVE THEORY	C	2003	AUG/DEC	3
FUNDAMENTALS OF APPLIED MATH	B	2003	AUG/DEC	3
INTRODUCTION TO ACCOUNTING	C	2003	JAN/MAY	4
INFORMATION & COMPUTER LITERACY	B	2003	JAN/MAY	2
FUNDAMENTALS OF ALGEBRA	A	2003	JAN/MAY	3
LIT & COMM POETRY & THEATER	B	2003	JAN/MAY	3
INTRODUCTION TO ACCOUNTING	C	2002	AUG/DEC	4
THE CHRISTIAN FAITH	C	2002	AUG/DEC	3
LIT & COMM NARRATIVE & ESSAY	B	2002	AUG/DEC	3
SCIENCE TECH & ENVIRONMENT	D	2002	AUG/DEC	3

Mean Overall GPA: 2.12

Suicide History

Date Observed/Charted	Description
1998	First suicide attempt
02.25.2001	Suicidal ideas and feeling anxious
02.20.2006	Two attempts within the day. He tore his shirt, tied it around his neck, climbed the holding site all bars and began to tie the torn shirt on the top grill. He then jumped attempting to kill himself however, homemade rope snapped. Second attempt was a repetition of the aforementioned sequence.
12.24.2007	Bed rope around his neck, during interview he stated that he had no intention to hurt himself.
12.27.2007	Stated that he wanted to be placed in the suicide watch room because he was feeling bad.
01.13.2008	Patient tried to commit suicide.
09.18.2008	Suicidal ideation
10.18.2008	Hanging with bed sheet.
03.26.2009	Suicidal ideation
03.07.2010	"I don't know, no more than..." Type: hanging and sheets; always inside of jail. Reason: Gets pissed off for different reasons (e.g. jail, treatment by officers)
03.31.2011	Another suicide attempt
5.14.2011	Suicide – a little frustrated self; with a rope, they caught me hanging 1 month or two, maybe LOC but can remember things Why not successful? "they watched me plus I don't want to cut self." Reason: Depression; "sometimes my case, look at my case"

Interpretación de los Resultados de la Evaluación



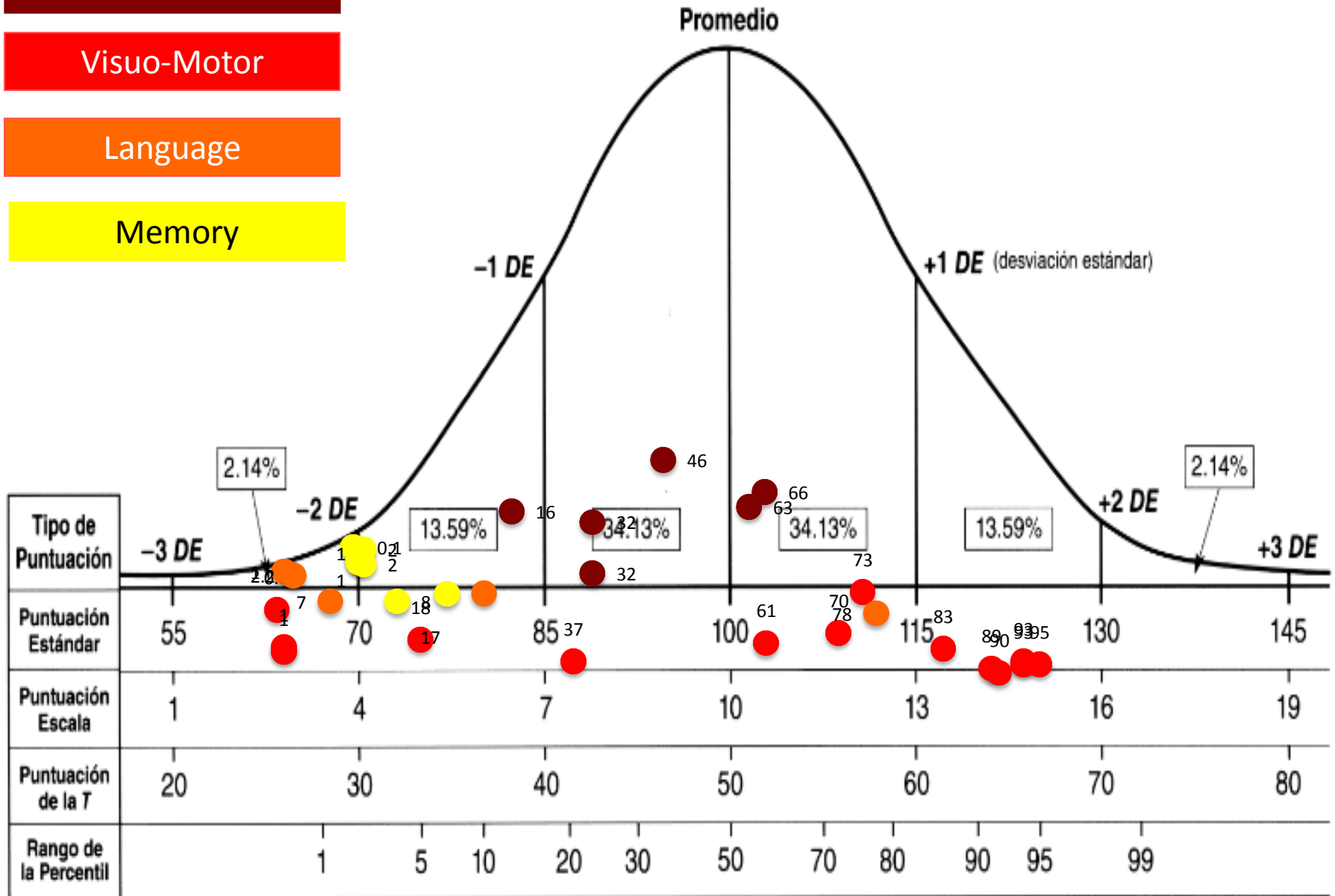
Interpretación de los Resultados de la Evaluación

Attention

Visuo-Motor

Language

Memory



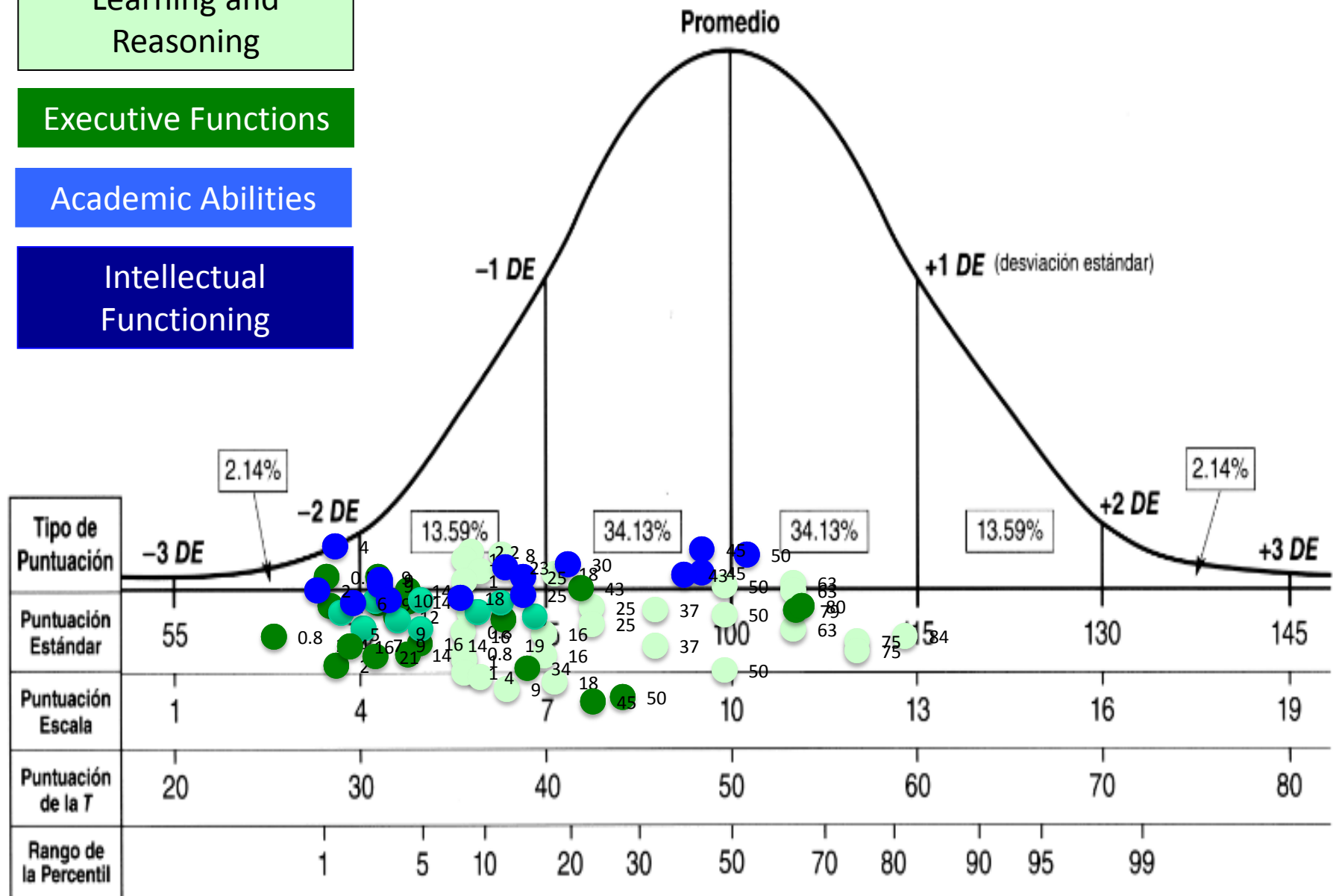
Interpretación de los Resultados de la Evaluación

Learning and Reasoning

Executive Functions

Academic Abilities

Intellectual Functioning



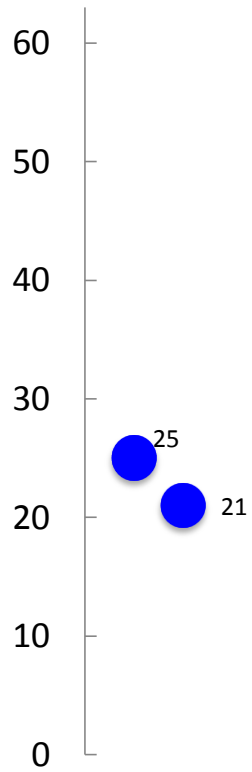
Bateria-3

Table 8: Performance on the Bateria-3

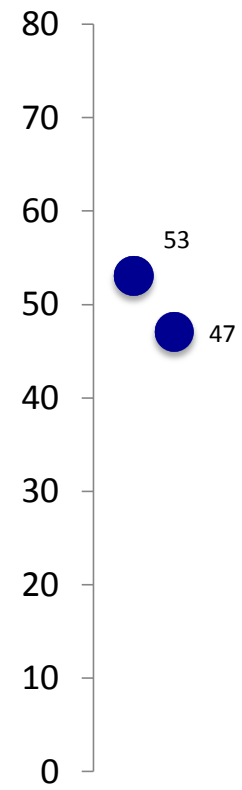
Subtest	Raw Score	Age Equivalent	Grade Equivalent
Comp Verbal	45	13-10	8.2
Aprend Visual-A	35	<3-0	<K.0
Relaciones Esp	70	16-5	9.6
Form de Concep	18	8-0	2.7
Pareo Visual I	23	4-10	<K.0
Inv de Numeros	11	9-3	3.8

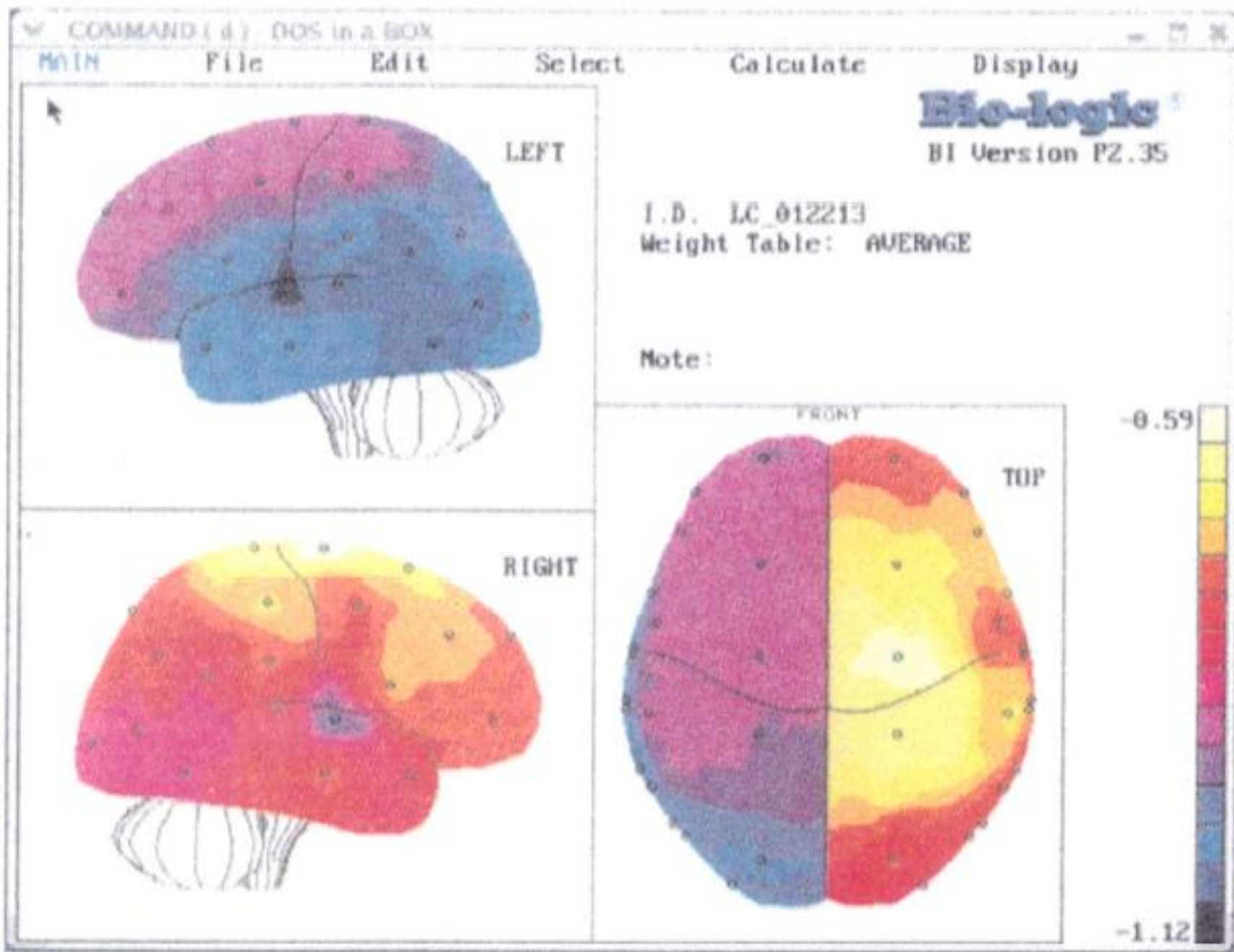
Depression

BDI-II



Zung





Sumario

Neuropsicología forense = Neuropsicología Clínica en esteroides

Combinación - Científico, clínico, histórico, social, y legal

Valor social es muchas mas claro

Una vista de lo pasar en un futuro a la Neuropsicología Clínica

Muchísimas gracias!

Y

Preguntas

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o

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