

Neuropsychological Assessment Procedure Training: **Documentation and Scoring**

LIMBIC-CENC, Prospective Longitudinal Study

Plan

1. Materials

- Forms
- Reference manuals and resources

2. General recommendation

- Documentation procedure
- Scoring procedure

3. Neuropsychological assessment procedure

- Brief Visuospatial Memory Test, Revised (BVMT-R)
- Grooved Pegboard (GPB)
- Trail-Making Test (TMT)
- Delis-Kaplan Executive Function System (D-KEFS)
- Wechsler Adult Intelligence Scale, Fourth Edition (WAIS-IV)
- California Verbal Learning Test, Second Edition (CVLT-II)

Materials

Materials: Forms

Description

- As each document serves a distinct purpose, the forms are typically completed according to a particular sequence

Assessment Record Form

Official data collection form employed for recording participant responses during assessment administration

Case Report Form

Document which serves as a written record of each obtained raw and normative value selected by the study

Electronic Data Capture Form

Electronic record which facilitates data storage, organization, and analyses

Materials: Forms

Sample

D-KEFS assessment documentation

Assessment Record Form

The image shows a stack of three forms. The top form is the 'D-KEFS Verbal Fluency Test' (Condition 1: Letter Fluency). The middle form is the 'D-KEFS Verbal Fluency Test (continued)' (Condition 2: Category Fluency), which is divided into two columns: 'Animals' and 'Boys' Names'. Each column has four rows corresponding to time intervals: 1-15, 16-30, 31-45, and 46-60 seconds. Each row contains a box for 'Animals' and a box for 'Boys' Names', with a 'Correct Responses' box to the right. The bottom form is a summary page with checkboxes for 'Animals Total Correct Responses', 'Animals Total Set-Loss Errors', 'Animals Total Repeated Errors', 'Boys' Names Total Correct Responses', 'Boys' Names Total Set-Loss Errors', and 'Boys' Names Total Repeated Errors'. There are also checkboxes for 'Category Fluency Total Correct Responses (Contrast = Invariant)' and a page number '3'.

Case Report Form

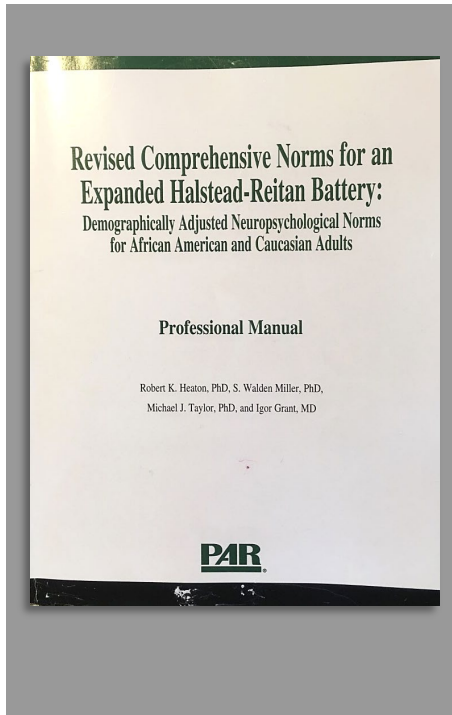
The image shows a 'Case Report Form' for the 'D-KEFS Verbal Fluency Test'. It includes a header with 'LIMBIC-CENC-01C' and 'DKEFS'. Below the header are fields for 'Subject ID' and 'Date'. A 'Visit' section contains checkboxes for 'Baseline', 'Year 1', 'Year 3', 'Year 5', 'Year 10', 'Year 15', 'Year 20', 'Year 25', 'Year 30', 'Year 35', 'Year 40', 'Year 45', 'Year 50', 'Year 55', 'Year 60', 'Year 65', and 'Year 70'. The main body of the form contains five numbered items for data entry:
1. Letter Fluency Total Correct Raw Score: _____
2. Letter Fluency Total Correct Scaled Score: _____
3. Category Fluency Total Correct Raw Score: _____
4. Category Fluency Total Correct Scaled Score: _____
5. Letter Category Contrast Scaled Score: _____

Electronic Data Capture Form

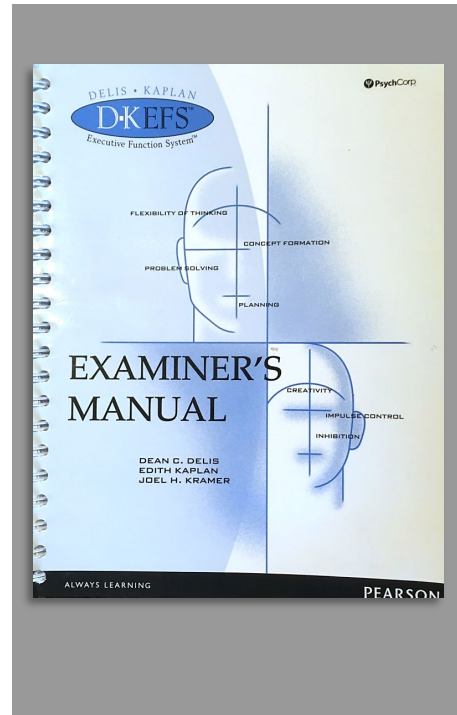
The image shows an 'Electronic Data Capture Form' for the 'D-KEFS Verbal Fluency Test'. It features a header with 'Baseline Assessment' and a 'Freeze All Fields' button. The main content area contains five numbered items, each with a yellow input field, a 'Verify' button, and a 'Freeze' button:
1. Letter Fluency Total Correct Raw Score: [Yellow Field] [Verify] [Freeze]
2. Letter Fluency Total Correct Scaled Score: [Yellow Field] [Verify] [Freeze]
3. Category Fluency Total Correct Raw Score: [Yellow Field] [Verify] [Freeze]
4. Category Fluency Total Correct Scaled Score: [Yellow Field] [Verify] [Freeze]
5. Letter Category Contrast Scaled Score: [Yellow Field] [Verify] [Freeze]
At the bottom, there are 'Save' and 'Cancel' buttons, and a checkbox labeled 'Move to next task after save'.

Materials: Reference manuals and resources

GPB, TMT



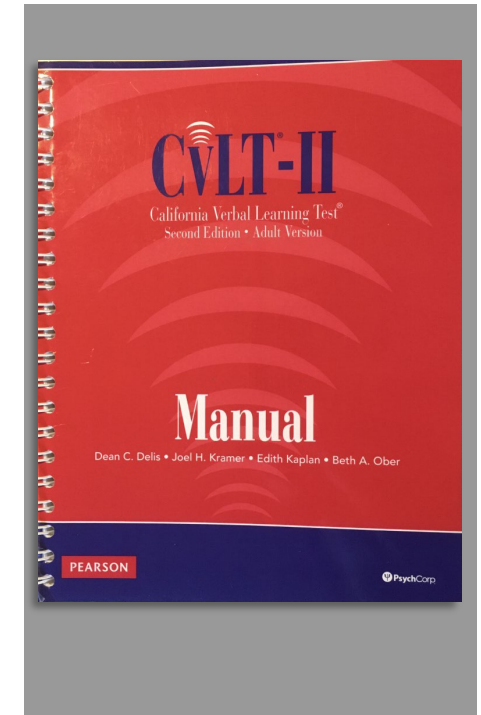
D-KEFS



WAIS-IV



CVLT-II



General recommendation

General recommendation: Documentation procedure

Essential information

Battery identification: the following details must be recorded upon each completed Record Form cover page and CRF

- **Participant ID**
- **Visit detail:**
 - Type (e.g., Baseline, Year-15 Comprehensive, etc.)
 - Date
- **Examiner initials**

Demography: for each assessment, the Record Form or CRF must reflect the specific **demographic information** that is **required for scoring** of the assessment, which may include 1 or multiple details from the options indicated as follows

- **Age**
- **Sex**
- **Race**
- **Education**

General recommendation: Documentation procedure

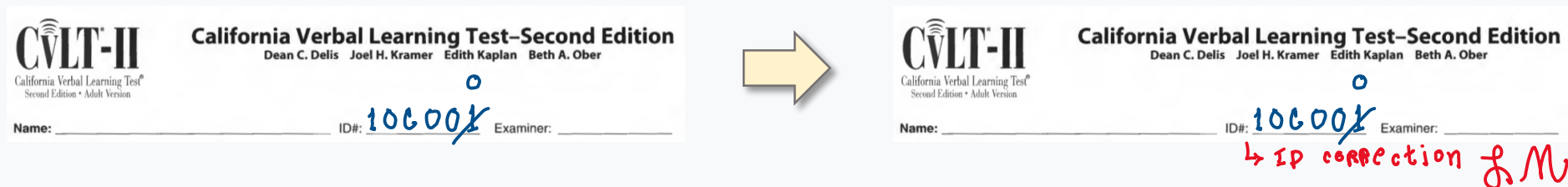
Notation

Extraneous marks: any instance of extraneous marking resulting from revision or mistake must be accompanied by an **appropriate explanation** and **examiner initials**; common reasons for extraneous marking and proper notation are indicated as follows

- **Self-corrected response:**



- **Examiner mistake:**



Irregular procedure: any instance of irregular procedure must be reflected by the **source documentation** and **Reliability Code form**

General recommendation: Documentation procedure

Form completion

Record Form: each completed Record Form should serve as a detailed account of the events that occurred during assessment administration and data collection, as well as provide clear justification for credit assigned during scoring

- **Participant response:** all participant responses produced during data collection must be thoroughly and accurately reported
 - **Abbreviation:** responses abbreviated during assessment administration must be completed to finalize source documentation
- **Credit assignment:** explicit indication of credit assignment, as well as identification of incorrect responses
 - **Totals:** all fields provided for assessment, trial, and condition totals should be completed

Case Report Form (CRF): each required CRF must be completed entirely, reflecting a value for every variable presented

- **Absent value:** any instance of absent data must be accompanied by explanation of reasoning

General recommendation: Scoring procedure

Data quality assurance

Regulation: review the information, procedure, and recommendation provided by each assessment manual to ensure comprehensive understanding of assessment regulation

Common types of assessment regulation:

- **Correct response** versus **incorrect response**
 - Incorrect response types
- **Time limit**
- **Discontinue limit**
- **Raw score** and **normative score procedure**

Secondary review: following generation of scores, conduct secondary review to ensure data accuracy

Neuropsychological assessment procedure

Neuropsychological assessment procedure

BVMT-R

Brief Visuospatial Memory Test, Revised

BVMT-R: Documentation procedure

Forms

Completion

Record Form cover page

Record Form: Required

CRF: (not applicable)

EDC Form: (not applicable)

The image shows the cover page of the 'Brief Visuospatial Memory Test-Revised' (BVMT-R) Response Form. On the left side, there is a vertical logo consisting of the letters B, V, M, T, and R stacked vertically. To the right of the logo, the title 'Brief Visuospatial Memory Test-Revised' is written in a bold, sans-serif font. In the top right corner, the text 'Response Form' is displayed in a bold font, with 'Ralph H. B. Benedict, PhD' written below it in a smaller font. The bottom half of the page contains a series of horizontal lines for data entry, labeled as follows: Name, ID#, Gender, Education, Test Date, Birthdate, Ethnicity, Handedness, and Examiner. The Test Date and Birthdate fields include pre-printed slashes for the month and day.

BVMT-R: Documentation procedure

Demography

Record Form cover page

Completion required

Variable	Value description
Age	<p># years, <u>and</u> 1+ of the following options:</p> <ul style="list-style-type: none"> # months since recent birthday <ul style="list-style-type: none"> # = <u>6 months</u>: + # days Date of birth (DOB)

BVMT-R **Brief Visuospatial Memory Test-Revised**

Response Form
Ralph H. B. Benedict, PhD

Name _____ Test Date ____/____/____
 ID# _____ Birthdate ____/____/____
 Gender _____ Ethnicity _____ Handedness _____ Age _____
 Education _____ Examiner _____

BVMT-R: Scoring procedure

- **Central scoring submission**

1. Finalize source documentation: ensure that the BVMT-R Record Form cover and response pages are complete, including all documents indicated as follows
2. Scan: scan the finalized source documentation
3. Submit: submit the scanned source documentation for central scoring through upload to the LIMBIC-CENC website SFTP (<https://sftp.limbic-cenc.org/>)

Forms

Completion

Record Form:  Required

1. Cover page
2. Trials 1-3
3. Delayed Recall Trial
4. Recognition Trial

Record Form

BVMT-R: Practice

Participant ID: 10C1000

- Visit: Baseline**
 - Date: 07/28/2020
- Demography:**
 - DOB: 11/10/1993
 - Age: 26 years
 - Sex: Male
 - Race: Asian
 - Education: 16 years

1. Complete the appropriate sections of the BVMT-R Record Form with the participant information provided, and explain the requirements for completion of each page
2. Describe the submission process for central scoring

Record Form

Brief Visuospatial Memory Test - Revised Response Form
Ralph H. B. Benedict, PhD

Name _____ Test Date ____/____/____
ID# _____ Birthdate ____/____/____
Gender _____ Ethnicity _____ Handedness _____ Age _____
Education _____ Examiner _____

Form Administered: 1 2 3 4 5 6 (circle one)

	Raw score	T score	Percentile
Trial 1			
Trial 2			
Trial 3			
Total Recall ¹			
Learning ²			
Delayed Recall			
Percent Retained ³			
Recognition Hits			
Recognition False Alarms			
Recognition Discrimination Index ⁴			
Recognition Response Bias			
Copy (optional)			

Normative table/comparison group _____

¹Total Recall = (Trial 1 raw score + Trial 2 raw score + Trial 3 raw score)
²Learning = (Higher value of Trial 2 raw score or Trial 3 raw score) - Trial 1 raw score
³Percent Retained = (Delayed Recall raw score ÷ higher value of Trial 2 raw score or Trial 3 raw score) × 100
⁴Recognition Discrimination Index = Recognition Hits raw score - Recognition False Alarms raw score

Delay Interval Table

Time Trial 3 completed	
Time Delayed Recall started	
Delay interval (minutes)	

T-1

T-2

T-3

DR
Recognition Trial Scoring Worksheet

Item	Response	
	Hits	False Alarms
1.	YES no	yes NO
2.	YES no	yes NO
3.	YES no	yes NO
4.		yes NO
5.		yes NO
6.	YES no	yes NO
7.	YES no	yes NO
8.		yes NO
9.	YES no	yes NO
10.		yes NO
11.		yes NO
12.	YES no	yes NO
Total raw score		
Discrimination Index (Hits minus False Alarms)		
Response Bias (Trial 6 cell corresponding to Trial 12 Hit and Total False Alarms raw scores in look-up table below.)		

Response Bias Look-up Table

Hits	False Alarms						
	0	1	2	3	4	5	6
0	.07	.19	.28	.35	.41	.46	.50
1	.08	.21	.31	.39	.45	.50	.54
2	.10	.25	.36	.44	.50	.55	.59
3	.13	.30	.42	.50	.56	.61	.65
4	.17	.38	.50	.58	.64	.69	.72
5	.25	.50	.63	.70	.75	.79	.81
6	.50	.75	.83	.88	.90	.92	.93

BVMT-R: Practice 1 Sample

Complete the appropriate sections of the BVMT-R Record Form with the participant information provided, and explain the requirements for completion of each page

T1, T2, T3, DR forms:
Participant responses

Cover, Recognition forms:
Examiner completion

Participant ID: 10C1000

- Visit:** Baseline
 - Date: 07/28/2020
- Demography:**
 - DOB: 11/10/1993
 - Age: 26 years
 - Sex: Male
 - Race: Asian
 - Education: 16 years

Brief Visuospatial Memory Test-Revised Response Form
Ralph H. B. Benedict, PhD

Name: _____ Test Date: 07/28/2020
 ID#: 10C1000, Baseline Visit Birthdate: 11/10/1993
 Gender: _____ Ethnicity: _____ Handedness: _____ Age: 26
 Education: _____ Examiner: LN (+8 mo.)

Form Administered: 1 2 3 4 5 6 (circle one)

	Raw score	T score	Percentile
Trial 1			
Trial 2			
Trial 3			
Total Recall ¹			
Learning ²			
Delayed Recall			
Percent Retained ³			
Recognition Hits			
Recognition False Alarms			
Recognition Discrimination Index ⁴			
Recognition Response Bias			
Copy (optional)			

Normative table/comparison group _____

¹Total Recall = (Trial 1 raw score + Trial 2 raw score + Trial 3 raw score).
²Learning = (Higher value of Trial 2 raw score or Trial 3 raw score) - Trial 1 raw score.
³Percent Retained = [Delayed Recall raw score ÷ (higher value of Trial 2 raw score or Trial 3 raw score)] x 100.
⁴Recognition Discrimination Index = Recognition Hits raw score - Recognition False Alarms raw score.

Delay Interval Table

Time Trial 3 completed	
Time Delayed Recall started	
Delay interval (minutes)	

T-1
T-2
T-3
DR

Recognition Trial Scoring Worksheet

Item	Response	
	Hits	False Alarms
1.	<u>YES</u> no	
2.		yes <u>NO</u>
3.	<u>YES</u> no	
4.		yes <u>NO</u>
5.		yes <u>NO</u>
6.	<u>YES</u> no	
7.	<u>YES</u> no	
8.		yes <u>NO</u>
9.	<u>YES</u> no	
10.		yes <u>NO</u>
11.		yes <u>NO</u>
12.	<u>YES</u> no	
Total raw score		
Discrimination Index (Hits minus False Alarms)		
Response Bias (Find the cell corresponding to Total Hits and Total False Alarms raw scores in look-up table below.)		

Response Bias Look-up Table

Hits	False Alarms						
	0	1	2	3	4	5	6
0	.07	.19	.28	.35	.41	.46	.50
1	.08	.21	.31	.39	.45	.50	.54
2	.10	.25	.36	.44	.50	.55	.59
3	.13	.30	.42	.50	.56	.61	.65
4	.17	.38	.50	.58	.64	.69	.72
5	.25	.50	.63	.70	.75	.79	.81
6	.50	.75	.83	.88	.90	.92	.93

BVMT-R: Practice 2 Sample

Describe the submission process for central scoring

1. Finalize source documentation

2. Scan finalized source documentation

3. Submit scanned assessment for central scoring through upload to LIMBIC-CENC website SFTP

Participant Information

- Visit: Baseline
- Date:
- Demographic
- DCB: 1
- Age: 26
- Sex: M
- Race: A
- Education:

Recognition Trial Scoring Worksheet

DR

T-3

T-2

T-1

Brief Visuospatial Memory Test-Revised Response Form
Ralph H. B. Benedict, PhD

Name: 10C1000, Baseline Visit Test Date: 07/28/2020
ID#: 11/10/1993
Gender: _____ Ethnicity: _____ Handiness: _____ Age: 26 (+8 mo.)
Education: _____ Examiner: LN

Form Administered: 1 2 3 4 5 (circle one)

Trial	Raw score	Percentile
Trial 1		
Trial 2		
Trial 3		

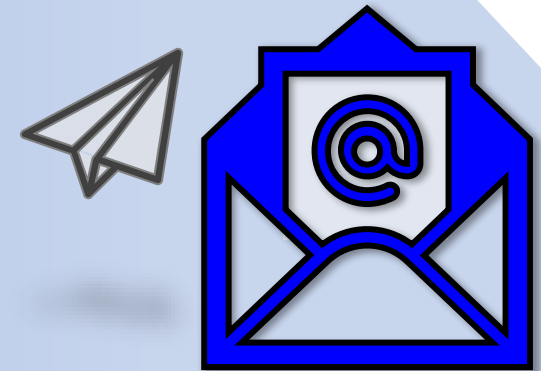
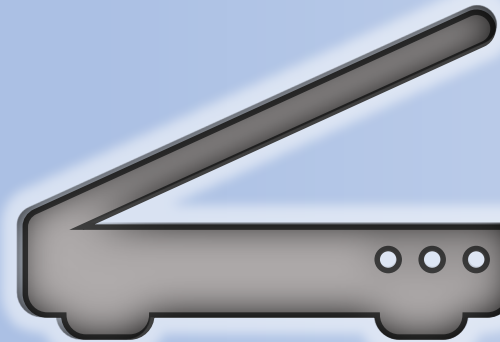
Recognition Hints
Recognition False Alarms
Recognition Discrimination Index⁴
Recognition Response Bias
Copy (optional)

Normative table/comparison group

¹Total Recall = (Trial 1 raw score + Trial 2 raw score + Trial 3 raw score)
²Learning = (higher value of Trial 2 raw score or Trial 3 raw score) - Trial 1 raw score
³Percent Retained = (Delayed Recall raw score + (higher value of Trial 2 raw score or Trial 3 raw score)) × 100
⁴Recognition Discrimination Index = Recognition Hints raw score - Recognition False Alarms raw score

Delay Interval Table

Time	Event
	Time Trial 3 completed
	Time Delayed Recall started
	Delay interval (minutes)


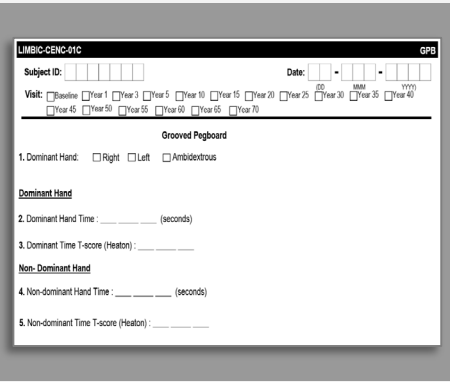
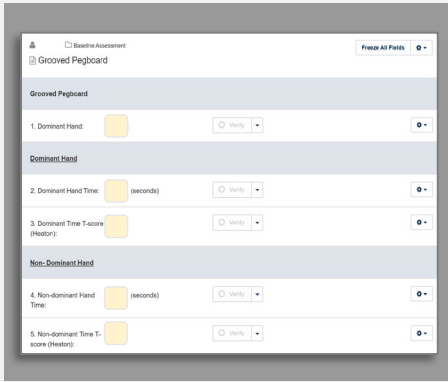



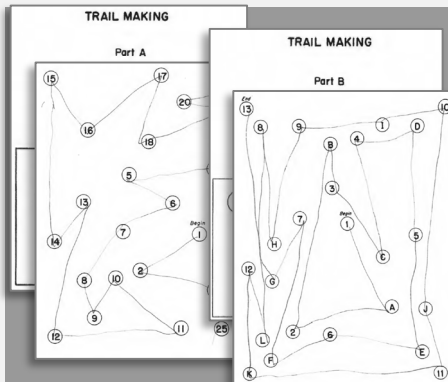
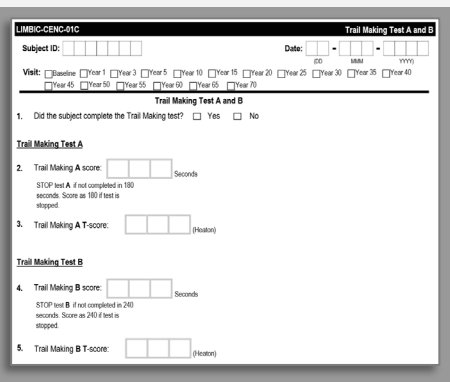
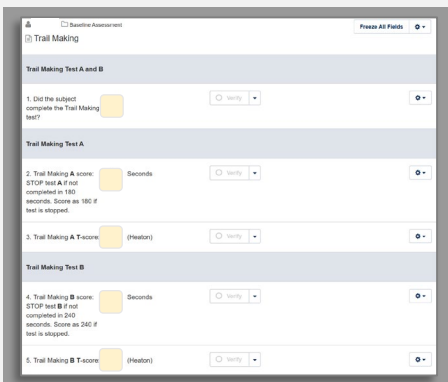





Neuropsychological assessment procedure

GPB & TMT

Grooved Pegboard & Trail-Making Test

GPB, TMT: Documentation procedure

Forms	Completion	Record Form	CRF	EDC Form
GPB				
Record Form:	 Optional			
CRF:	 Required			
EDC Form:	 Required			
TMT				
Record Form:	 Required			
CRF:	 Required			
EDC Form:	 Required			

GPB, TMT: Documentation procedure

Demography

CRF

Normative score table determination: special considerations

- **Education:** calculation should be based upon the **equivalent standard degree** (e.g., **2 Associate degrees** may require 16 years of education, but should be reported as **14 years** to reflect an Associate degree, rather than a Bachelor degree)
- **Race:** only Caucasian and African American normative values are included by the manual; therefore, **African American normative values** should be referenced for participants that **do not identify** Caucasian as the race they **most closely** identify with. Please refer to Q4 of the Enrollment Demographics form in the Medidata EDC.

The image shows two screenshots of Clinical Research Form (CRF) forms. The top form is titled 'LIMBIC-CENC-01C' and 'GPB'. It includes fields for Subject ID, Date, Visit (Baseline, Year 1-7), Grooved Pegboard (Dominant Hand: Right, Left, Ambidextrous; Non-Dominant Hand), and Time T-score (Heaton). The bottom form is titled 'LIMBIC-CENC-01C' and 'Trail Making Test A and B'. It includes fields for Subject ID, Date, Visit (Baseline, Year 1-7), Trail Making Test A (score and T-score), and Trail Making Test B (score and T-score). Both forms have callouts for Sex, Education, Age, and Race.

Variable	Value description	Normative score table determination:
Sex	Selection: <ul style="list-style-type: none"> • Male • Female 	▶ Must be specified
Education	# years	▶ Must reflect equivalent standard degree
Age	# years	
Race	Selection: <ul style="list-style-type: none"> • Caucasian • African American 	▶ Caucasian only
		▶ All races beyond Caucasian

GPB, TMT: Scoring procedure

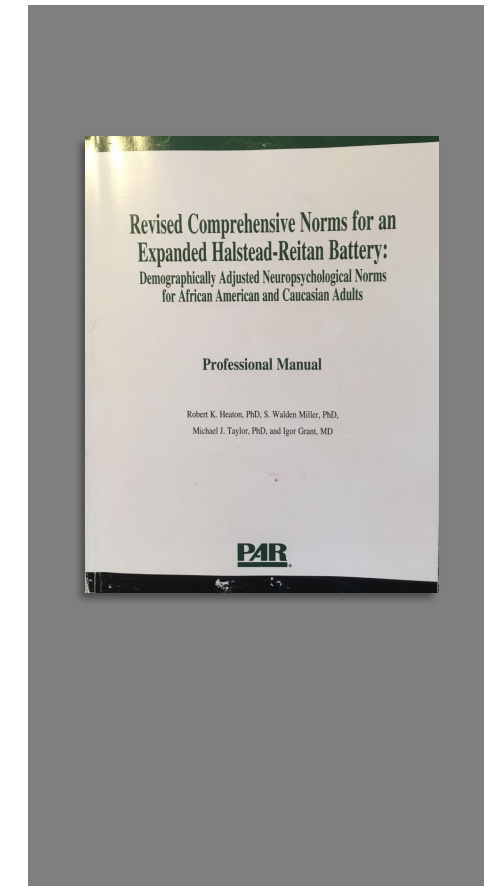
Process: Summary

CRF

Manual

1. **Raw score:** completion time (seconds)
2. **Scaled score:** locate the corresponding Scaled score value under Appendix C (pages 88-89) of the GPB & TMT manual
3. **T-score:**
 - A. **Normative score table determination:** identify the appropriate normative score table to employ from Appendices D-E (pages 92-621), based upon the demographic information collected from the participant
 - B. **T-score retrieval:** locate the T-score value that corresponds with each Scaled score

The image shows two screenshots of the LMBIC-CENC-01C CRF form. The top screenshot is for the 'Grooved Pegboard' test, and the bottom is for the 'Trail Making Test A and B'. Both forms include fields for Subject ID, Date, and Visit, and a section for demographic information (Sex, Education, Age, Race). The Grooved Pegboard form has five numbered items: 1. Dominant Hand (Right, Left, Ambidextrous), 2. Dominant Hand Time (seconds), 3. Dominant Time T-score (Heaton), 4. Non-dominant Hand Time (seconds), and 5. Non-dominant Time T-score (Heaton). The Trail Making Test A and B form has five numbered items: 1. Did the subject complete the Trail Making test? (Yes/No), 2. Trail Making A score (seconds), 3. Trail Making A T-score (Heaton), 4. Trail Making B score (seconds), and 5. Trail Making B T-score (Heaton). Both forms have a 'Sex: Education: Age: Race:' label with a document icon.



GPB, TMT: Scoring procedure

Process: Scaled score

1. Raw score: completion time
2. Scaled score: locate the corresponding Scaled score value under Appendix C (pages 88-89) of the GPB & TMT manual and record each obtained value beside the respective completion time
 - A. Page 88: TMT
 - i. TMT, Test A: **Speed of information processing** → “TRAIL A”
 - ii. TMT, Test B: **Executive functions** → “TRAIL B”
 - B. Page 89: GPB → **Lateralized sensorimotor/Psychomotor comparisons**
 - i. GPB, Dominant: → “PEG DH”
 - ii. GPB, Non-Dominant: → “PEG NDH”
3. T-score:
 - A. **Normative score table determination:** identify the appropriate normative score table to employ from Appendices D-E, based upon the demographic information collected from the participant
 - B. **T-score retrieval:** locate the T-score value that corresponds with each Scaled score

CRF
Manual

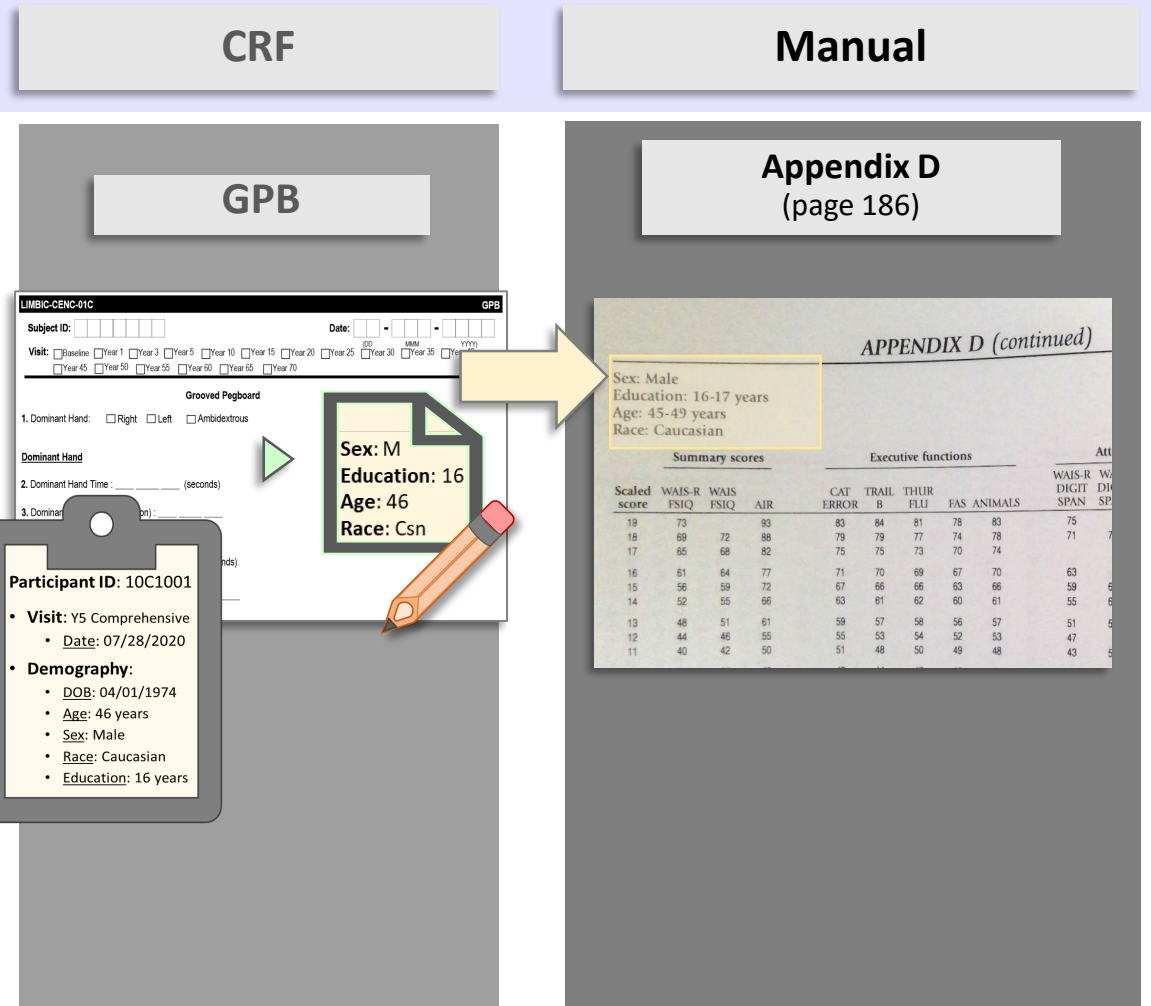
GPB

Appendix C
(page 89)

GPB, TMT: Scoring procedure

Process: T-score

1. **Raw score:** completion time
2. **Scaled score:** locate the corresponding Scaled score value under Appendix C of the GPB & TMT manual
3. **T-score:**
 - A. **Normative score table determination:** identify the appropriate normative score table to employ from Appendices D-E (pages 92-621), based upon the demographic information collected from the participant
 - B. **T-score retrieval:** locate the T-score value that corresponds with each Scaled score



GPB, TMT: Scoring procedure

Process: T-score

1. **Raw score:** completion time
2. **Scaled score:** locate the corresponding Scaled score value under Appendix C of the GPB & TMT manual
3. **T-score:**
 - A. **Normative score table determination:** identify the appropriate normative score table to employ from Appendices D-E, based upon the demographic information collected from the participant
 - B. **T-score retrieval:** locate the T-score value that corresponds with each Scaled score
 - i. TMT, Test A: **Speed of information processing** → "TRAIL A"
 - ii. TMT, Test B: **Executive functions** → "TRAIL B"
 - iii. GPB, Dominant: **Lateralized sensorimotor/Psychomotor comparisons** → "PEG DH"
 - iv. GPB, Non-Dominant: **Lateralized sensorimotor/Psychomotor comparisons** → "PEG NDH"

Participant ID: 10C1001

- **Visit:** Y5 Comprehensive
 - **Date:** 07/28/2020
- **Demography:**
 - **DOB:** 04/01/1974
 - **Age:** 46 years
 - **Sex:** Male
 - **Race:** Caucasian
 - **Education:** 16 years

CRF and Appendix C

LIMBIC-CENC-91C GPB

Subject ID: Date:

Visit: Baseline Year 1 Year 3 Year 5 Year 10 Year 15 Year 20 Year 25 Year 30 Year 35 Year 40 Year 45 Year 50 Year 55 Year 60 Year 65 Year 70

Grooved Pegboard

1. Dominant Hand: Right Left Ambidextrous

Dominant Hand: _____

2. Dominant Hand Time: _____ (seconds)

3. Dominant Time T-score (Heaton): _____

4. Non-Dominant Hand Time: _____ (seconds)

5. Non-Dominant Time T-score (Heaton): _____

Sex: M

Education: 16

Age: 46

Race: Csn

APPENDIX C (continued)

Scaled score	Verbal episodic memory				Visual episodic memory				Scaled score
	STORY T1	STORY T2	STORY T3	STORY T4	FIGUR LOC1	FIGUR LOC2	FIGUR LOC3	FIGUR LOC4	
19	86	83	87	81	87	81	82	84	83
18	81	85	79	77	84	82	80	80	80
17	77	81	75	78	73	73	73	75	74
16	73	76	71	69	67	69	66	72	71
15	69	75	67	64	64	62	67	71	71
14	64	63	66	65	59	60	59	63	63
13	60	59	59	55	54	54	57	58	59
12	55	55	59	55	50	50	54	55	56
11	52	52	52	45	45	45	47	46	47

Lateralized sensorimotor/Psychomotor comparisons

Scaled score	SP				CBP				FLC				TPP				SP				Scaled score
	NDH	DH	NDH	DH	NDH	DH	NDH	DH	NDH	DH	NDH	DH	NDH	DH	NDH	DH	NDH	DH			
19	83	82	83	83	88	86	84	84	84	84	84	84	84	84	84	84	84	84	84		
18	79	78	78	78	84	82	80	80	80	81	81	81	81	81	81	81	81	81	81		
17	75	74	73	73	80	78	76	75	75	76	76	76	76	76	76	76	76	76	76		
16	71	70	68	68	76	74	72	72	71	71	71	71	71	71	71	71	71	71	71		
15	67	65	63	63	71	70	68	67	67	67	67	67	67	67	67	67	67	67	67		
14	63	61	58	58	67	66	63	63	62	61	61	61	61	61	61	61	61	61	61		
13	58	57	52	53	63	62	59	58	58	58	58	58	58	58	58	58	58	58	58		
12	54	53	47	48	59	58	55	55	54	54	54	54	54	54	54	54	54	54	54		
11	50	49	42	43	54	54	51	51	49	49	49	49	49	49	49	49	49	49	49		
10	46	45	37	38	50	50	47	46	45	46	46	46	46	46	46	46	46	46	46		
9	42	41	32	34	46	46	43	42	42	42	42	42	42	42	42	42	42	42	42		
8	37	37	27	29	42	42	39	38	38	38	38	38	38	38	38	38	38	38	38		
7	33	33	22	24	37	38	35	34	33	35	35	35	35	35	35	35	35	35	35		
6	29	29	17	19	33	34	30	29	27	31	33	35	33	34	34	34	34	34	34		
5	25	25	12	14	29	30	26	25	23	27	29	32	30	30	30	30	30	30	30		
4	21	21	7	9	25	26	22	21	18	23	25	28	26	27	27	27	27	27	27		
3	17	17	2	4	20	22	16	17	14	20	22	25	23	23	23	23	23	23	23		
2	12	12	0	0	16	18	14	13	10	16	18	22	19	20	20	20	20	20	20		
1	8	8	0	0	12	14	10	8	5	12	14	19	16	16	16	16	16	16	16		
0	4	4	0	0	8	10	4	4	4	4	4	4	4	4	4	4	4	4	4		

Manual

Appendix D (page 187)

APPENDIX D (continued)

Sex: Male
Education: 16-17 years
Age: 45-49 years
Race: Caucasian

Scaled score	Verbal episodic memory				Visual episodic memory				Scaled score
	STORY T1	STORY T2	STORY T3	STORY T4	FIGUR LOC1	FIGUR LOC2	FIGUR LOC3	FIGUR LOC4	
19	86	83	87	81	87	81	82	84	83
18	81	85	79	77	84	82	80	80	80
17	77	81	75	78	73	73	73	75	74
16	73	76	71	69	67	69	66	72	71
15	69	75	67	64	64	62	67	71	71
14	64	63	66	65	59	60	59	63	63
13	60	59	59	55	54	54	57	58	59
12	55	55	59	55	50	50	54	55	56
11	52	52	52	45	45	45	47	46	47

Lateralized sensorimotor/Psychomotor comparisons

Scaled score	SP				CBP				FLC				TPP				Scaled score		
	NDH	DH	NDH	DH	NDH	DH	NDH	DH	NDH	DH	NDH	DH	NDH	DH					
19	83	82	83	83	88	86	84	84	84	84	84	84	84	84	84	84	84	84	84
18	79	78	78	78	84	82	80	80	80	81	81	81	81	81	81	81	81	81	81
17	75	74	73	73	80	78	76	75	75	76	76	76	76	76	76	76	76	76	76
16	71	70	68	68	76	74	72	72	71	71	71	71	71	71	71	71	71	71	71
15	67	65	63	63	71	70	68	67	67	67	67	67	67	67	67	67	67	67	67
14	63	61	58	58	67	66	63	63	62	61	61	61	61	61	61	61	61	61	61
13	58	57	52	53	63	62	59	58	58	58	58	58	58	58	58	58	58	58	58
12	54	53	47	48	59	58	55	55	54	54	54	54	54	54	54	54	54	54	54
11	50	49	42	43	54	54	51	51	49	49	49	49	49	49	49	49	49	49	49
10	46	45	37	38	50	50	47	46	45	46	46	46	46	46	46	46	46	46	46
9	42	41	32	34	46	46	43	42	42	42	42	42	42	42	42	42	42	42	42
8	37	37	27	29	42	42	39	38	38	38	38	38	38	38	38	38	38	38	38
7	33	33	22	24	37	38	35	34	33	35	35	35	35	35	35	35	35	35	35
6	29	29	17	19	33	34	30	29	27	31	33	35	33	34	34	34	34	34	34
5	25	25	12	14	29	30	26	25	23	27	29	32	30	30	30	30	30	30	30
4	21	21	7	9	25	26	22	21	18	23	25	28	26	27	27	27	27	27	27
3	17	17	2	4	20	22	16	17	14	20	22	25	23	23	23	23	23	23	23
2	12	12	0	0	16	18	14	13	10	16	18	22	19	20	20	20	20	20	20
1	8	8	0	0	12	14	10	8	5	12	14	19	16	16	16	16	16	16	16
0	4	4	0	0	8	10	4	4	4	4	4	4	4	4	4	4	4	4	4

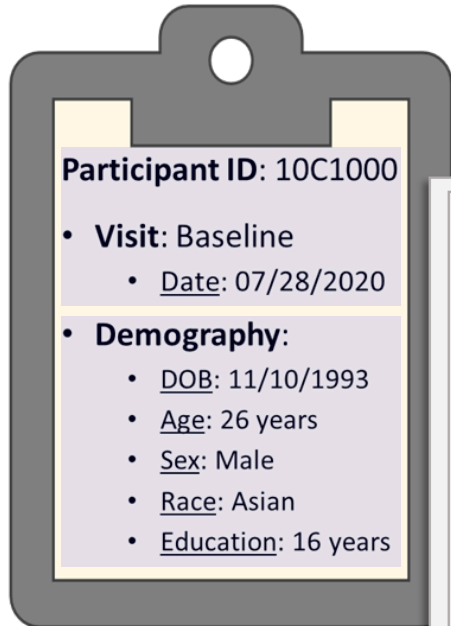
Note: See page 16 for a description of acronyms.

187

GPB : Practice 1

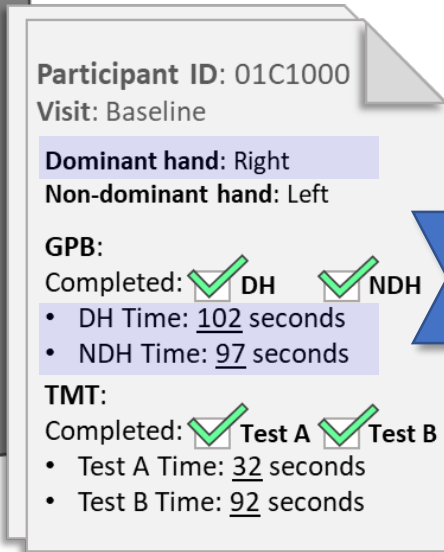
Sample

Complete the appropriate sections of the GPB and TMT CRFs with the participant and assessment information provided



Participant ID: 10C1000

- Visit:** Baseline
 - Date: 07/28/2020
- Demography:**
 - DOB: 11/10/1993
 - Age: 26 years
 - Sex: Male
 - Race: Asian
 - Education: 16 years



Participant ID: 01C1000
Visit: Baseline

Dominant hand: Right
Non-dominant hand: Left

GPB:
Completed: DH NDH

- DH Time: 102 seconds
- NDH Time: 97 seconds

TMT:
Completed: Test A Test B

- Test A Time: 32 seconds
- Test B Time: 92 seconds

LIMBIC-CENC-01C **GPB**

Subject ID: 10C1000 **Date:** 28 - JUL - 2020

Visit: Baseline Year 1 Year 3 Year 5 Year 10 Year 15 Year 20 Year 25 Year 30 Year 35 Year 40
 Year 45 Year 50 Year 55 Year 60 Year 65 Year 70

Grooved Pegboard

1. Dominant Hand: Right Left Ambidextrous

Dominant Hand

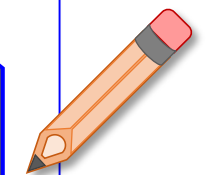
2. Dominant Hand Time : 102 (seconds)

3. Dominant Time T-score (Heaton) : _____

Non- Dominant Hand

4. Non-dominant Hand Time : 97 (seconds)

5. Non-dominant Time T-score (Heaton) : _____



Sex: M
Education: 16
Age: 26
Race: Asian

TMT: Practice 1

Sample

Complete the appropriate sections of the GPB and TMT CRFs with the participant and assessment information provided

Participant ID: 10C1000

- Visit:** Baseline
 - Date: 07/28/2020
- Demography:**
 - DOB: 11/10/1993
 - Age: 26 years
 - Sex: Male
 - Race: Asian
 - Education: 16 years

Participant ID: 01C1000
Visit: Baseline

Dominant hand: Right
Non-dominant hand: Left

GPB:
Completed: DH NDH

- DH Time: 102 seconds
- NDH Time: 97 seconds

TMT:
Completed: Test A Test B

- Test A Time: 32 seconds
- Test B Time: 92 seconds



LIMBIC-CENC-01C **Trail Making Test A and B**

Subject ID: 10C1000 **Date:** 28 - JUL - 2020
(DD) (MMM) (YYYY)

Visit: Baseline Year 1 Year 3 Year 5 Year 10 Year 15 Year 20 Year 25 Year 30 Year 35 Year 40
 Year 45 Year 50 Year 55 Year 60 Year 65 Year 70

Trail Making Test A and B

1. Did the subject complete the Trail Making test? Yes No

Trail Making Test A

2. Trail Making A score: 32 Seconds
STOP test A if not completed in 180 seconds. Score as 180 if test is stopped.

3. Trail Making A T-score: [][] (Heaton)

Trail Making Test B

4. Trail Making B score: 92 Seconds
STOP test B if not completed in 240 seconds. Score as 240 if test is stopped.

5. Trail Making B T-score: [][] (Heaton)

Sex: M
Education: 16
Age: 26
Race: Asian

GPB : Practice 2

Sample

Participant ID: 10C1000

- Visit:** Baseline
 - Date: 07/28/2020
- Demography:**
 - DOB: 11/10/1993
 - Age: 26 years
 - Sex: Male
 - Race: Asian
 - Education: 16 years

Participant ID: 01C1000
Visit: Baseline

Dominant hand: Right
Non-dominant hand: Left

GPB:
Completed: DH NDH

- DH Time: 102 seconds
- NDH Time: 97 seconds

TMT:
Completed: Test A Test B

- Test A Time: 32 seconds
- Test B Time: 92 seconds

Obtain each T-score and finalize the documentation

Table: pages 446-447

LIMBIC-CENC-01C **GPB**

Subject ID: 10C1000 **Date:** 28 - JUL - 2020

Visit: Baseline Year 1 Year 3 Year 5 Year 10 Year 15 Year 20 Year 25 Year 30 Year 35 Year 40
 Year 45 Year 50 Year 55 Year 60 Year 65 Year 70

Grooved Pegboard

1. Dominant Hand: Right Left Ambidextrous

Dominant Hand

2. Dominant Hand Time : 102 (seconds) **SCALED: 5**


3. Dominant Time T-score (Heaton) : 25

Non- Dominant Hand

4. Non-dominant Hand Time : 97 (seconds) **SCALED: 6**

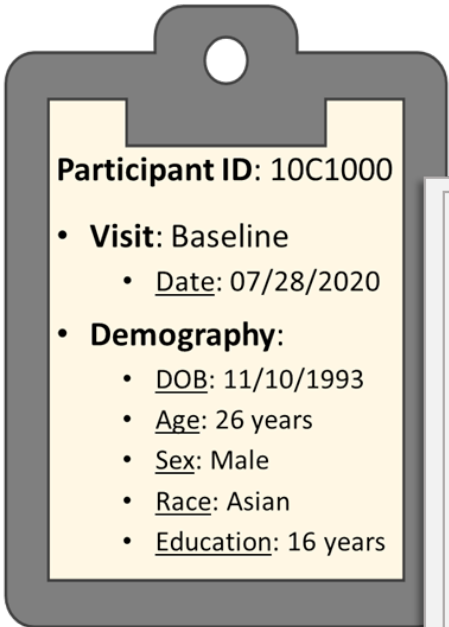
5. Non-dominant Time T-score (Heaton) : 30

Sex: M
Education: 16
Age: 26
Race: Asian



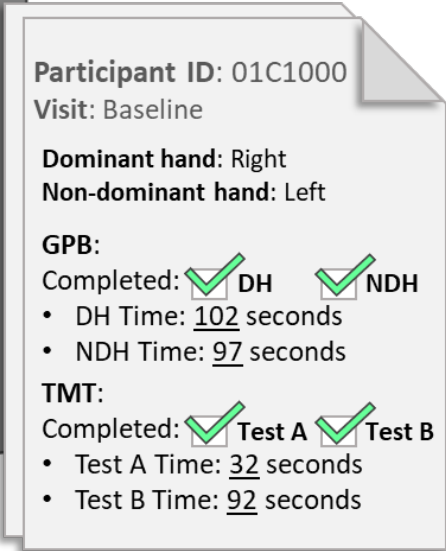
TMT: Practice 2

Sample



Participant ID: 10C1000

- Visit:** Baseline
 - Date: 07/28/2020
- Demography:**
 - DOB: 11/10/1993
 - Age: 26 years
 - Sex: Male
 - Race: Asian
 - Education: 16 years



Participant ID: 01C1000
Visit: Baseline

Dominant hand: Right
Non-dominant hand: Left

GPB:
Completed: DH NDH

- DH Time: 102 seconds
- NDH Time: 97 seconds

TMT:
Completed: Test A Test B

- Test A Time: 32 seconds
- Test B Time: 92 seconds

Obtain each T-score and finalize the documentation

Table: pages 446-447

LIMBIC-CENC-01C **Trail Making Test A and B**

Subject ID: 10C1000 **Date:** 28 - JUL - 2020
(DD) (MMM) (YYYY)

Visit: Baseline Year 1 Year 3 Year 5 Year 10 Year 15 Year 20 Year 25 Year 30 Year 35 Year 40
 Year 45 Year 50 Year 55 Year 60 Year 65 Year 70

Trail Making Test A and B

1. Did the subject complete the Trail Making test? Yes No

Trail Making Test A

2. Trail Making A score: 32 Seconds SCALED: 9

STOP test A if not completed in 180 seconds. Score as 180 if test is stopped.

3. Trail Making A T-score: 41 (Heaton)

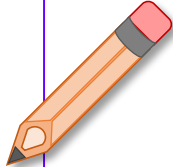
Trail Making Test B

4. Trail Making B score: 92 Seconds SCALED: 8

STOP test B if not completed in 240 seconds. Score as 240 if test is stopped.

5. Trail Making B T-score: 35 (Heaton)

Sex: M
Education: 16
Age: 26
Race: Asian

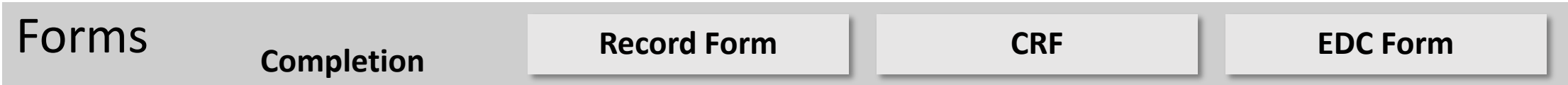





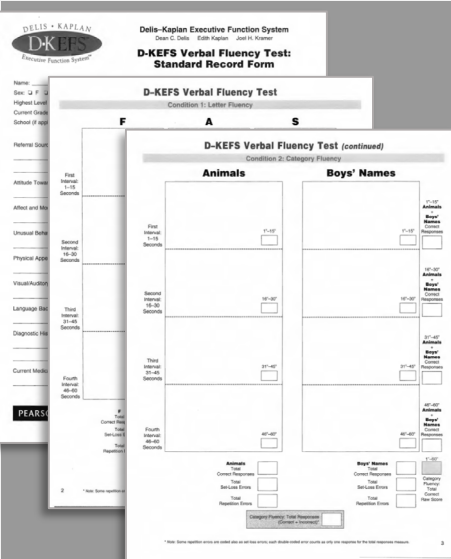
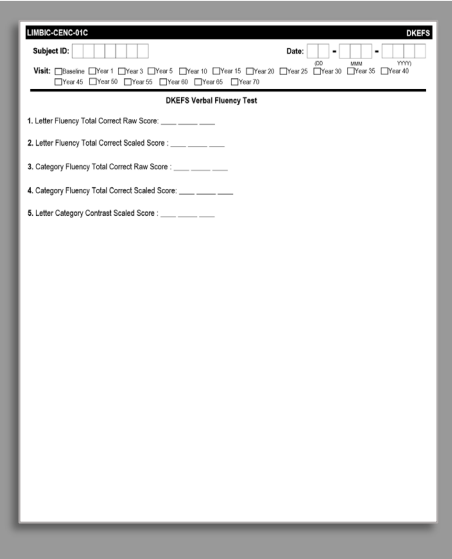
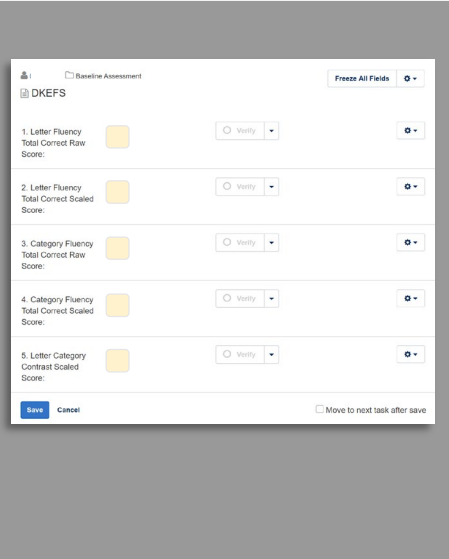
Neuropsychological assessment procedure

D-KEFS

Delis-Kaplan Executive Function System

D-KEFS: Documentation procedure



<p>Record Form:  Required</p> <p>CRF:  Required</p> <p>EDC Form:  Required</p>			
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D-KEFS: Documentation procedure

Demography

Record Form cover page

Completion required

Variable	Value description
Age	# years



DELIS • KAPLAN
D-KEFS™
 Executive Function System™

Delis–Kaplan Executive Function System
 Dean C. Delis Edith Kaplan Joel H. Kramer

**D-KEFS Verbal Fluency Test:
 Standard Record Form**

Name: _____ ID: _____ Examiner: _____

Sex: F M Handedness: R L Ambidextrous

Highest Level of Education (years): _____

Current Grade (if applicable): _____

School (if applicable): _____

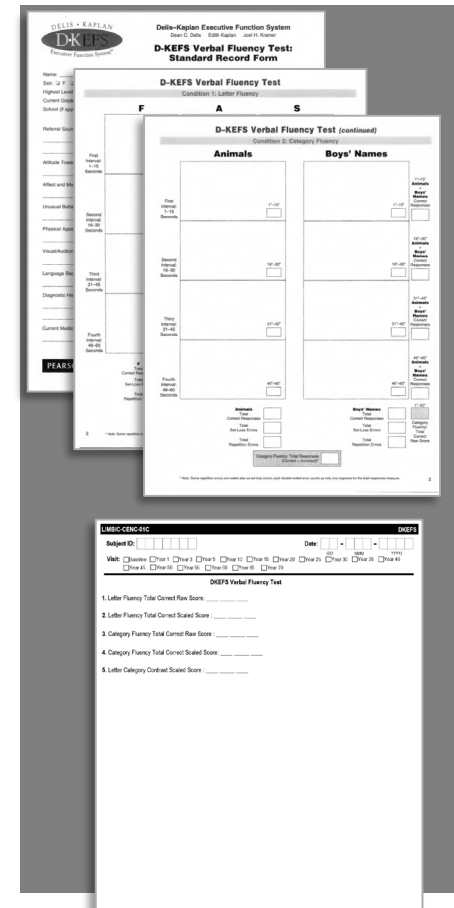
	Year	Month	Day
Date Tested			
Date of Birth			
Age at Testing			

D-KEFS: Scoring procedure

Process: Summary

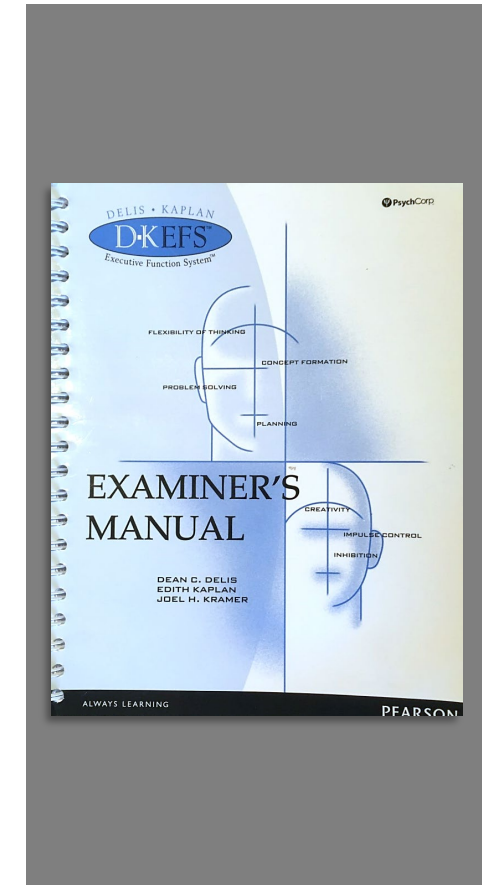
1. **Raw score:** Total Correct
2. **Scaled score:**
 - A. Under Appendix B, Table B.1 and Table B.2 (pages 242-243) of the D-KEFS manual, identify the appropriate column to employ, based upon the demographic information collected from the participant
 - B. Locate the Scaled score value that corresponds with each Raw score
3. **Letter-Category Contrast:**
 - A. Raw score, **formula** = LF Scaled – CF Scaled
 - B. Scaled score: under Appendix B, Table B.5 (page 246), locate the Scaled score value that corresponds with the Letter-Category Contrast Raw score

Record Form & CRF



The image shows two forms related to the D-KEFS Verbal Fluency Test. The top form is the 'Standard Record Form' (SRF), which includes a header with the D-KEFS logo and the title 'D-KEFS Verbal Fluency Test: Standard Record Form'. It contains a grid for recording scores for 'Animals' and 'Boys' Names' categories, with columns for 'Fluency' (F) and 'Category Fluency' (CF). The bottom form is the 'CRF' (Computer Record Form), which includes a header with the D-KEFS logo and the title 'D-KEFS Verbal Fluency Test'. It contains a grid for recording scores for 'Animals' and 'Boys' Names' categories, with columns for 'Fluency' (F) and 'Category Fluency' (CF). It also includes a section for 'Letter-Category Contrast' scores.

Manual




D-KEFS: Scoring procedure

Process: Raw score

1. Raw score: Total Correct

- **Correct response:**
 - **Letter Fluency** condition
 - **Category Fluency** condition
- **Incorrect response:**
 - **Repetition** error
 - **Set-Loss** error

Record Form



60 seconds/Trial

Condition 1: Letter Fluency

D-KEFS Verbal Fluency Test

Condition 1: Letter Fluency

	F	A	S	
First Interval: 1-15 Seconds	FAR FARE FAKE FISCAL FAN FILTER FIT FAME	AS AIN'T AT ARE AN ARM AUNT AM	SALE SIT SAME SIN SANE SINNER SILLY SORE	1'-15" P, A, B Correct Responses
Second Interval: 16-30 Seconds	FEAR FICKLE FEEL FALL FISTULA FOR FIGHT FINE FILE	ANT ART ANY ALWAYS ALL ACHING ACHE ARROW ACROSS	SALT SEREMONY SOAR SIMPLE SORT SOAK SORRY SORROW	1'-15" P, A, B Correct Responses
Third Interval: 31-45 Seconds	FEMUR FEATURE FANTOM FUN FORCE FUNNY FIERCE FEARS FUNNEL	ABOUT ANSWER AROUND AT ABLE ACTS AGILE ANTONYM	SO SIGHT SAT SOUND SHORE SOUL SAND SOLE SING	1'-15" P, A, B Correct Responses
Fourth Interval: 46-60 Seconds	FALLEN FOCUS FIRE FIT FLAME FORK FOOT	AIM ASPECT ALARM AIR AMMUNE ATE ALTITUDE AND	SWEAR SWALLOW SHIT SECRET SHAME SPELL SWING SPOIL	1'-15" P, A, B Correct Responses

# Correct Responses	# Correct Responses	# Correct Responses	
Total	Total	Total	Total
Set-Loss Errors	Set-Loss Errors	Set-Loss Errors	Letter Fluency Total
Total	Total	Total	Category Fluency Total
Repetition Errors	Repetition Errors	Repetition Errors	Non Score

Letter Fluency Total Responses (Correct + Incorrect)

Condition 2: Category Fluency

D-KEFS Verbal Fluency Test (continued)

Condition 2: Category Fluency

First Interval: 1-15 Seconds	<p style="text-align: center; font-weight: bold; font-size: x-small;">Animals</p> ZEBRA ANTELOPE LION RHINOCEROS TIGER BEAR MONKEY	<p style="text-align: center; font-weight: bold; font-size: x-small;">Boys' Names</p> ANDREW LEON JAY BRIAN ANDRE AJ NATHANIEL	1'-15" Animals Boys' Names Correct Responses
Second Interval: 16-30 Seconds	PANDA MOUSE MEERKAT GUINEA PIG SNAKE HAMSTER PYTHON RAT	MATT CHRISTIAN MANNY ARNOLD MATTHEW AUSTIN	1'-15" Animals Boys' Names Correct Responses
Third Interval: 31-45 Seconds	APE CAT DOG ZEBRAS GORILLA WHALE DOLPHIN	BEN TIM SAM OBAMA TOM NEIL THOMAS	1'-15" Animals Boys' Names Correct Responses
Fourth Interval: 46-60 Seconds	PIG BISON COW HORSE MOUSE	SAMUEL DREW LUCAS MATT GERARD LENNY GERALD	1'-15" Animals Boys' Names Correct Responses

# Correct Responses	# Correct Responses	
Total	Total	Total
Set-Loss Errors	Set-Loss Errors	Category Fluency Total
Total	Total	Non Score
Repetition Errors	Repetition Errors	

Category Fluency Total Responses (Correct + Incorrect)

* Note: Some repetition errors are coded when an animal name, such as rhinoceros, is used as only one response for the total response period.

* Note: Some repetition errors are coded when an animal name, such as rhinoceros, is used as only one response for the total response period.

D-KEFS: Scoring procedure

Process: Raw score

(**Note:** the following standards only cover general scoring recommendation; prior to conducting scoring or auditing for *any* data, all procedure stipulated by the specified D-KEFS manual sections must be reviewed)

Correct response:

Condition 1: Letter Fluency

- D-KEFS manual, Verbal Fluency Test, Scoring (pages 62-64):
 1. Starts with target letter
 2. Not name of **person, place, or number**
 3. Not **grammatical variant** of previous response from trial
 4. Not a **repetition**

Condition 2: Category Fluency

- D-KEFS manual, Verbal Fluency Test, Scoring (pages 66-67):
 1. Member of the **target category**
 2. Not **grammatical variant** of previous response from trial
 3. Not a **repetition**

Record Form

Condition 1:
Letter Fluency

Condition 2:
Category Fluency

D-KEFS Verbal Fluency Test
Condition 1: Letter Fluency

	F	A	S	
First Interval: 1-15 Seconds	FAR FARE FAKE FISCAL FAN FILTER FIT FAME	AS AIN'T AT ARE AN ARM AUNT AM	SALE SIT SAME SIN SANE SINNER SILLY SORE	1'-15" # F, A, S Correct Responses
Second Interval: 16-30 Seconds	FEAR FICKLE FEEL FALL FISTULA FOR FIGHT FINE FILE	ANT ART ANY ALWAYS ALL ACHING ACHE ARROW ACROSS	SALT SEREMONY SOAR SIMPLE SORT SOAK SORRY SORROW	16'-30" # F, A, S Correct Responses
Third Interval: 31-45 Seconds	FEMUR FEATURE FANTOM FUN FORCE FUNNY FIERCE FEARS FUNNEL	ABOUT ANSWER AROUND AT ABLE ACTS AGILE ANTONYM	SO SIGHT SAT SOUND SHORE SOUL SAND SOLE SING	16'-45" # F, A, S Correct Responses
Fourth Interval: 46-60 Seconds	FALLEN FOCUS FIRE FIT FLAME FORK FOOT	AIM ASPECT ALARM AIR AMMUNE ATE ALTITUDE AND	SWEAR SWALLOW SHIT SECRET SHAME SPELL SWING SPOIL	16'-45" # F, A, S Correct Responses
	# Correct Responses Total Set-Loss Errors Total Repetition Errors	# Correct Responses Total Set-Loss Errors Total Repetition Errors	# Correct Responses Total Set-Loss Errors Total Repetition Errors New Words	# Letter Fluency Total Responses (Correct + Incorrect)

D-KEFS Verbal Fluency Test (continued)
Condition 2: Category Fluency

	Animals	Boys' Names	
First Interval: 1-15 Seconds	ZEBRA ANTELOPE LION RHINOCEROS TIGER BEAR MONKEY	ANDREW LEON JAY BRIAN ANDRE AJ NATHANIEL	1'-15" Animals Boys' Names Correct Responses
Second Interval: 16-30 Seconds	PANDA MOUSE MEERKAT GUINEA PIG SNAKE HAMSTER PYTHON RAT	MATT CHRISTIAN MANNY ARNOLD MATTHEW AUSTIN	16'-30" Animals Boys' Names Correct Responses
Third Interval: 31-45 Seconds	APE CAT DOG ZEBRAS GORILLA WHALE DOLPHIN	BEN TIM SAM OBAMA TOM NEIL THOMAS	16'-45" Animals Boys' Names Correct Responses
Fourth Interval: 46-60 Seconds	PIG BISON COW HORSE MOUSE GOAT	SAMUEL DREW LUCAS MATT GERARD LANNY GERALD	16'-45" Animals Boys' Names Correct Responses
	# Animals Total Set-Loss Errors Total Repetition Errors	# Boys' Names Total Set-Loss Errors Total Repetition Errors New Words	# Category Fluency Total Responses (Correct + Incorrect)

D-KEFS: Scoring procedure

Process: Raw score

(**Note:** the following standards only cover general scoring recommendation; prior to conducting scoring or auditing for *any* data, all procedure stipulated by the specified D-KEFS manual sections must be reviewed)

Incorrect response:

Repetition error: any response that is identically repeated within the 60 seconds of the trial

- Grammatical variants (e.g., snake, snakes) are not repetitions

➤ D-KEFS manual, Verbal Fluency Test, Scoring:

- Condition 1: Letter Fluency (page 65)
- Condition 2: Category Fluency (page 68)

Record Form

Condition 1:
Letter Fluency

Condition 2:
Category Fluency

D-KEFS Verbal Fluency Test
Condition 1: Letter Fluency

	F	A	S	
First Interval: 1-15 Seconds	FAR FARE FAKE FISCAL FAN FILTER FIT FAME	AS AIN'T AT ARE AN ARM AUNT AM	SALE SIT SAME SIN SANE SINNER SILLY SORE	#1-15* # A, B, S Correct Responses
Second Interval: 16-30 Seconds	FEAR FICKLE FEEL FALL FISTULA FOR FIGHT FINE FILE	ANT ART ANY ALWAYS ALL ACHING ACHE ARROW ACROSS	SALT SEREMONY SOAR SIMPLE SORT SOAK SORRY SORROW	#16-30* # A, B, S Correct Responses
Third Interval: 31-45 Seconds	FEMUR FEATURE FANTOM FUN FORCE FUNNY FIERCE FEARS FUNNEL	ABOUT ANSWER AROUND AT ABLE ACTS AGILE ANTONYM	SO SIGHT SAT SOUND SHORE SOUL SAND SOLE SING	#31-45* # A, B, S Correct Responses
Fourth Interval: 46-60 Seconds	FALLEN FOCUS FIRE FIT FLAME FORK FOOT	AIM ASPECT ALARM AIR AMMUNE ATE ALTITUDE AND	SWEAR SWALLOW SHIT SECRET SHAME SPELL SWING SPOIL	#46-60* # A, B, S Correct Responses
	# F Correct Responses Total Set-Back Errors Total Repetition Errors	# A Correct Responses Total Set-Back Errors Total Repetition Errors	# S Correct Responses Total Set-Back Errors Total Repetition Errors	#1-60* # A, B, S Letter Fluency Total Correct Responses Total Set-Back Errors Total Repetition Errors

Letter Fluency: Total Responses (Correct + Incorrect)

D-KEFS Verbal Fluency Test (continued)
Condition 2: Category Fluency

	Animals	Boys' Names	
First Interval: 1-15 Seconds	ZEBRA ANTELOPE LION RHINOCEROS TIGER BEAR MONKEY	ANDREW LEON JAY BRIAN ANDRE AJ NATHANIEL	#1-15* Animals Boys' Names Correct Responses
Second Interval: 16-30 Seconds	PANDA MOUSE MEERKAT GUINEA PIG SNAKE HAMSTER PYTHON RAT	MATT CHRISTIAN MANNY ARNOLD MATTHEW AUSTIN	#16-30* Animals Boys' Names Correct Responses
Third Interval: 31-45 Seconds	APE CAT DOG ZEBRAS GORILLA WHALE DOLPHIN	BEN TIM SAM OBAMA TOM NEIL THOMAS	#31-45* Animals Boys' Names Correct Responses
Fourth Interval: 46-60 Seconds	PIG BISON COW HORSE MOUSE GOAT	SAMUEL DREW LUCAS MATT GERARD LANNY GERALD	#46-60* Animals Boys' Names Correct Responses
	# Animals Correct Responses Total Set-Back Errors Total Repetition Errors	# Boys' Names Correct Responses Total Set-Back Errors Total Repetition Errors	#1-60* Animals Boys' Names Category Fluency Total Correct Responses Total Set-Back Errors Total Repetition Errors

Category Fluency: Total Responses (Correct + Incorrect)

*Note: Some repetition errors are coded only on set-back errors, each double-coded error counts as only one repetition for the total repetition measure.

D-KEFS: Scoring procedure

Process: Raw score

Record Form

(Note: the following standards only cover general scoring recommendation; prior to conducting scoring or auditing for *any* data, all procedure stipulated by the specified D-KEFS manual sections must be reviewed)

Incorrect response:

Set-Loss error: any response that is not a repetition and violates criteria of the condition trial

Condition 1: Letter Fluency

➤ D-KEFS manual, Verbal Fluency Test, Scoring (page 65):

1. Does not qualify according to **target letter** regulations
2. Unambiguous name of **person, place, or number**
3. Grammatical variant
4. Non-word

Condition 1: Letter Fluency

D-KEFS Verbal Fluency Test
Condition 1: Letter Fluency

	F		A		S		
First Interval: 1-15 Seconds	FAR FAKE FAN FIT	FARE FISCAL FILTER FAME	AS AT AN AUNT	AIN'T ARE ARM AM	SALE SAME SANE SILLY	SIT SIN SINNER SORE	1'-15" F.A.S. Correct Responses
Second Interval: 16-30 Seconds	FEAR FEEL FISTULA FIGHT FILE	FICKLE FALL FOR FINE	ANT ANY ALL ACHE ACROSS	ART ALWAYS ACHING ARROW	SALT SOAR SORT SORRY SORROW	SEREMONY SIMPLE SOAK SOUND	16'-30" F.A.S. Correct Responses
Third Interval: 31-45 Seconds	FEMUR FANTOM FORCE FIERCE FUNNEL	FEATURE FUN FUNNY FEARS	ABOUT AROUND ABLE AGILE ANTONYM	ANSWER AT ACTS	SO SAT SHORE SAND SING	SIGHT SOUND SOUL SOLE	31'-45" F.A.S. Correct Responses
Fourth Interval: 46-60 Seconds	FALLEN FIRE FLAME FOOT	FOCUS FIT FORK	AIM ALARM AMMUNE ALTITUDE	ASPECT AIR ATE AND	SWEAR SHIT SHAME SWING	SWALLOW SECRET SPELL SPOIL	46'-60" F.A.S. Correct Responses
	Total Correct Responses	Total Set-Loss Errors	Total Repetition Errors	Total Correct Responses	Total Set-Loss Errors	Total Repetition Errors	Total Correct Responses Letter Fluency Total Raw Score

Letter Fluency Total Responses* (Correct + Incorrect)

* Note: Some repetition errors are coded also as set-loss errors, each double-coded error counts as only one response for the total responses measure.

D-KEFS: Scoring procedure

Process: Raw score

Record Form

(Note: the following standards only cover general scoring recommendation; prior to conducting scoring or auditing for *any* data, all procedure stipulated by the specified D-KEFS manual sections must be reviewed)

Incorrect response:

Set-Loss error: any response that is not a repetition and violates criteria of the condition trial

Condition 2: Category Fluency

➤ D-KEFS manual, Verbal Fluency Test, Scoring (page 68):

1. Does not qualify according to **target category** regulations
2. Grammatical variant
3. Non-word

Condition 2: Category Fluency

D-KEFS Verbal Fluency Test (continued)
Condition 2: Category Fluency

	Animals		Boys' Names		
First Interval: 1-15 Seconds	ZEBRA LION TIGER MONKEY	ANTELOPE RHINOCEROS BEAR	ANDREW JAY ANDRE NATHANIEL	LEON BRIAN AJ	1'-15" Animals + Boys' Names Correct Responses
Second Interval: 16-30 Seconds	PANDA MEERKAT SNAKE PYTHON	MOUSE GUINEA PIG HAMSTER RAT	MATT MANNY MATTHEW AUSTIN	CHRISTIAN ARNOLD	16'-30" Animals + Boys' Names Correct Responses
Third Interval: 31-45 Seconds	APE DOG GORILLA DOLPHIN	CAT ZEBRAS WHALE	BEN SAM TOM THOMAS	TIM OBAMA NEIL	31'-45" Animals + Boys' Names Correct Responses
Fourth Interval: 46-60 Seconds	PIG COW MOUSE GOAT	BISON HORSE	SAMUEL LUCAS GERARD GERALD	DREW MATT LENNY	46'-60" Animals + Boys' Names Correct Responses
	Animals Total Correct Responses		Boys' Names Total Correct Responses		1'-60" Animals + Boys' Names Correct Responses
	Total Set-Loss Errors		Total Set-Loss Errors		Category Fluency Total Correct Responses
	Total Repetition Errors		Total Repetition Errors		Raw Score
	Category Fluency: Total Responses (Correct + Incorrect)				

* Note: Some repetition errors are coded also as set-loss errors, each double-coded error counts as only one response for the total response measure.

D-KEFS: Scoring procedure

Process: Raw score

Record Form

1. Raw score: Total Correct

Letter Fluency condition

= trial "F" total correct + trial "A" total correct + trial "S" total correct

Category Fluency condition

= trial "Animals" total correct + trial "Boy Names" total correct

**Condition 1:
Letter Fluency**

**Condition 2:
Category Fluency**

D-KEFS Verbal Fluency Test
Condition 1: Letter Fluency

	F	A	S	
First Interval: 1-15 Seconds	FAR FARE FAKE FISCAL FAN FILTER FIT FAME	AS AIN'T AT ARE AN ARM AUNT AM	SALE SIT SAME SIN SANE SINNER SILLY SORE	#1-15* F, A, S Correct Responses
Second Interval: 16-30 Seconds	FEAR FICKLE FEEL FALL FISTULA FOR FIGHT FINE FILE	ANT ART ANY ALWAYS ALL ACHING ACHE ARROW ACROSS	SALT SEREMONY SOAR SIMPLE SORT SOAK SORRY SORROW	#16-30* F, A, S Correct Responses
Third Interval: 31-45 Seconds	FEMUR FEATURE FANTOM FUN FORCE FUNNY FIERCE FEARS FUNNEL	ABOUT ANSWER AROUND AT ABLE ACTS AGILE ANONYM	SO SIGHT SAT SOUND SHORE SOUL SAND SOLE SING	#31-45* F, A, S Correct Responses
Fourth Interval: 46-60 Seconds	FALLEN FOCUS FIRE FIT FLAME FORK FOOT	AIM ASPECT ALARM AIR SHMUNE ATE ALTITUDE AND	SWEAR SWALLOW SHIT SECRET SHAME SPELL SWING SPOIL	#46-60* F, A, S Correct Responses
	Total Correct Responses Total Back-Look Errors Total Repetition Errors	Total Correct Responses Total Back-Look Errors Total Repetition Errors	Total Correct Responses Total Back-Look Errors Total Repetition Errors	Letter Fluency: Total Responses (Correct + Incorrect)

D-KEFS Verbal Fluency Test (continued)
Condition 2: Category Fluency

	Animals	Boys' Names	
First Interval: 1-15 Seconds	ZEBRA ANTELOPE LION RHINOCEROS TIGER BEAR MONKEY	ANDREW LEON JAY BRIAN ANDRE AJ NATHANIEL	#1-15* Animals Boys' Names Correct Responses
Second Interval: 16-30 Seconds	PANDA MOUSE MEERKAT GUINEA PIG SNAKE HAMSTER PYTHON RAT	MATT CHRISTIAN MANNY ARNOLD MATTHEW AUSTIN	#16-30* Animals Boys' Names Correct Responses
Third Interval: 31-45 Seconds	APE CAT DOG ZEBRAS GORILLA WHALE DOLPHIN	BEN TIM SAM OBAMA TOM NEIL THOMAS	#31-45* Animals Boys' Names Correct Responses
Fourth Interval: 46-60 Seconds	PIG BISON COW HORSE MOUSE GOAT	SAMUEL DREW LUCAS MATT GERARD LANNY GERARD	#46-60* Animals Boys' Names Correct Responses
	Total Correct Responses Total Back-Look Errors Total Repetition Errors	Total Correct Responses Total Back-Look Errors Total Repetition Errors	Category Fluency: Total Responses (Correct + Incorrect)

*Note: Some repetition errors are coded only on the last interval; each double-coded error counts as only one response for the total responses measure.

D-KEFS: Scoring procedure

Process: Scaled score

Record Form & CRF

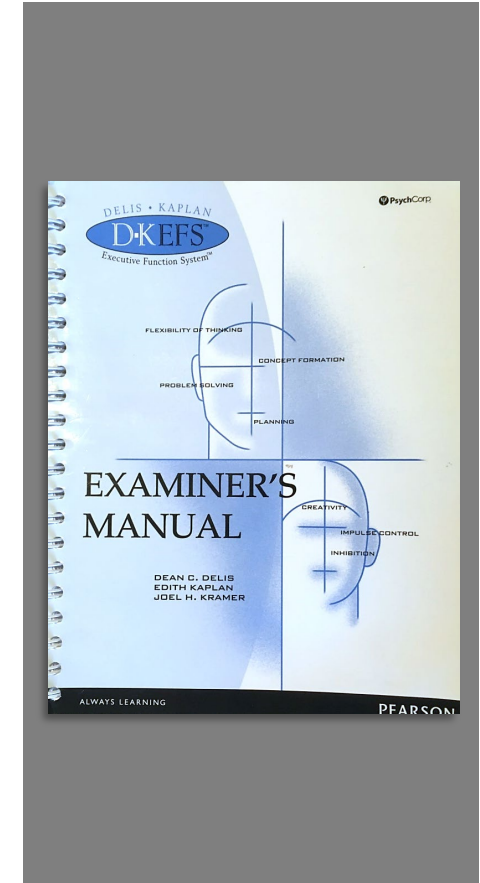
Manual

2. Scaled score:

- A. Under Appendix B, Table B.1 and Table B.2 (pages 242-243) of the D-KEFS manual, identify the appropriate column to employ, based upon the demographic information collected from the participant
- B. Locate the Scaled score value that corresponds with each Raw score

The image shows two forms from the D-KEFS manual. The top form is the 'D-KEFS Verbal Fluency Test Standard Record Form', which includes fields for Name, ID, Examiner, Date Tested, and Age at Testing. The bottom form is the 'D-KEFS Verbal Fluency Test (continued)' which lists various animal and boys' names for fluency testing. Below these forms is a 'CRF' (Case Report Form) for 'LIMBIC-CENC-01C' with fields for Subject ID, Date, and Visit. At the bottom, a summary table shows the following scores:

Item	Score
1. Letter Fluency Total Correct Raw Score	##
2. Letter Fluency Total Correct Scaled Score	_____
3. Category Fluency Total Correct Raw Score	##
4. Category Fluency Total Correct Scaled Score	_____
5. Letter Category Contrast Scaled Score	_____



D-KEFS: Practice

Participant ID: 10C1000

- Visit: Baseline**
 - Date: 07/28/2020
- Demography:**
 - DOB: 11/10/1993
 - Age: 26 years
 - Sex: Male
 - Race: Asian
 - Education: 16 years

1. Complete the appropriate sections of the D-KEFS Record Form with the participant information provided
2. Generate each Raw Score, then complete the appropriate fields of the Record Form and CRF
3. Obtain each Scaled score and finalize the documentation

Record Form

CRF

DELIS • KAPLAN
D-KEFS
Executive Function System™

D-KEFS Verbal Fluency Test
Standard Record Form

Name: _____
Sex: M F U
Highest Level of Education: _____
Current Grade: _____
School (if applicable): _____

Referral Source: _____
Attitude Toward Test: _____
Affect and Motivation: _____
Unusual Behaviors: _____
Physical Appearance: _____
Visual/Auditory Attention: _____
Language Background: _____
Diagnostic History: _____
Current Medications: _____

D-KEFS Verbal Fluency Test
Condition 1: Letter Fluency

F A S

FAR FA
FAKE FIS
FAN FIL
FIT FA

First Interval: 1-15 Seconds
Second Interval: 16-30 Seconds
Third Interval: 31-45 Seconds
Fourth Interval: 46-60 Seconds

D-KEFS Verbal Fluency Test (continued)
Condition 2: Category Fluency

Animals		Boys' Names	
ZEBRA	ANTELOPE	ANDREW	LEON
LION	RHINOCEROS	JAY	BRIAN
TIGER	BEAR	ANDRE	AJ
MONKEY		NATHANIEL	
PANDA	MOUSE	MATT	CHRISTIAN
MEERKAT	GUINEA PIG	MANNY	ARNOLD
SNAKE	HAMSTER	MATTHEW	
PYTHON	RAT	AUSTIN	
APE	CAT	BEN	TIM
DOG	ZEBRAS	SAM	OBAMA
GORILLA	WHALE	TOM	NEIL
DOLPHIN		THOMAS	
PIG	BISON	SAMUEL	DREW
COW	HORSE	LUCAS	MATT
MOUSE		GERARD	LENNY
GOAT		GERALD	

Animals Correct Responses: _____
Boys' Names Correct Responses: _____

Total Correct Responses: _____
Total Set-Loss Errors: _____
Total Repetition Errors: _____

Category Fluency: Total Responses Correct + Incorrect = _____

LIMBIC-CENG-01C DKEFS

Subject ID: _____ Date: ____ - ____ - ____

Visit: Baseline Year 1 Year 3 Year 5 Year 10 Year 15 Year 20 Year 25 Year 30 Year 35 Year 40
 Year 45 Year 50 Year 55 Year 60 Year 65 Year 70

DKEFS Verbal Fluency Test

1. Letter Fluency Total Correct Raw Score: _____

2. Letter Fluency Total Correct Scaled Score: _____

3. Category Fluency Total Correct Raw Score: _____

4. Category Fluency Total Correct Scaled Score: _____

5. Letter Category Contrast Scaled Score: _____

D-KEFS: Practice

Letter Fluency

1. Complete the appropriate sections of the D-KEFS Record Form with the participant information provided
2. Generate each Raw Score, then complete the appropriate fields of the Record Form and CRF
3. Obtain each Scaled score and finalize the documentation

LIMBIC-CENC-01C DKEFS

Subject ID:

Date: - -

Visit: Baseline Year 1 Year 3 Year 5 Year 10 Year 15 Year 20 Year 25 Year 30 Year 35 Year 40 Year 45 Year 50 Year 55 Year 60 Year 65 Year 70

DKEFS Verbal Fluency Test

1. Letter Fluency Total Correct Raw Score: _____

2. Letter Fluency Total Correct Scaled Score : _____

3. Category Fluency Total Correct Raw Score : _____

4. Category Fluency Total Correct Scaled Score: _____

5. Letter Category Contrast Scaled Score : _____

D-KEFS Verbal Fluency Test
Condition 1: Letter Fluency

	F	A	S	
First Interval: 1-15 Seconds	FAR FARE FAKE FISCAL FAN FILTER FIT FAME	AS AIN'T AT ARE AN ARM AUNT AM	SALE SIT SAME SIN SANE SINNER SILLY SORE	<input type="text"/> <small>1'-15" F + A + S Correct Responses</small>
Second Interval: 16-30 Seconds	FEAR FICKLE FEEL FALL FISTULA FOR FIGHT FINE FILE	ANT ART ANY ALWAYS ALL ACHING ACHE ARROW ACROSS	SALT SEREMONY SOAR SIMPLE SORT SOAK SORRY SORROW	<input type="text"/> <small>16'-30" F + A + S Correct Responses</small>
Third Interval: 31-45 Seconds	FEMUR FEATURE FANTOM FUN FORCE FUNNY FIERCE FEARS FUNNEL	ABOUT ANSWER AROUND AT ABLE ACTS AGILE ANTONYM	SO SIGHT SAT SOUND SHORE SOUL SAND SOLE SING	<input type="text"/> <small>31'-45" F + A + S Correct Responses</small>
Fourth Interval: 46-60 Seconds	FALLEN FOCUS FIRE FIT FLAME FORK FOOT	AIM ASPECT ALARM AIR AMMUNE ATE ALTITUDE AND	SWEAR SWALLOW SHIT SECRET SHAME SPELL SWING SPOIL	<input type="text"/> <small>46'-60" F + A + S Correct Responses</small>
	<input type="text"/> <small>F Total Correct Responses</small>	<input type="text"/> <small>A Total Correct Responses</small>	<input type="text"/> <small>S Total Correct Responses</small>	<input type="text"/> <small>Letter Fluency Total Correct Raw Score</small>
	<input type="text"/> <small>Total Set-Loss Errors</small>	<input type="text"/> <small>Total Set-Loss Errors</small>	<input type="text"/> <small>Total Set-Loss Errors</small>	
	<input type="text"/> <small>Total Repetition Errors</small>	<input type="text"/> <small>Total Repetition Errors</small>	<input type="text"/> <small>Total Repetition Errors</small>	
	<input type="text"/> <small>Letter Fluency Total Responses* (Correct + Incorrect)</small>			

* Note: Some repetition errors are coded also as set-loss errors, such double-coded error counts as only one response for the total responses measure.

Participant ID: 10C1000

- **Visit:** Baseline
 - Date: 07/28/2020
- **Demography:**
 - DOB: 11/10/1993
 - Age: 26 years
 - Sex: Male
 - Race: Asian
 - Education: 16 years

D-KEFS: Practice

Category Fluency

1. Complete the appropriate sections of the D-KEFS Record Form with the participant information provided
2. Generate each Raw Score, then complete the appropriate fields of the Record Form and CRF
3. Obtain each Scaled score and finalize the documentation

LIMBIC-CENC-01C DKEFS

Subject ID:

Date: - -

Visit: Baseline Year 1 Year 3 Year 5 Year 10 Year 15 Year 20 Year 25 Year 30 Year 35 Year 40
 Year 45 Year 50 Year 55 Year 60 Year 65 Year 70

DKEFS Verbal Fluency Test

1. Letter Fluency Total Correct Raw Score: _____

2. Letter Fluency Total Correct Scaled Score : _____

3. Category Fluency Total Correct Raw Score : _____

4. Category Fluency Total Correct Scaled Score: _____

5. Letter Category Contrast Scaled Score : _____

D-KEFS Verbal Fluency Test (continued)
Condition 2: Category Fluency

		Animals	Boys' Names			
First Interval: 1-15 Seconds		ZEBRA ANTELOPE	ANDREW LEON	1'-15" Animals + Boys' Names Correct Responses	<input type="text"/>	
		LION RHINOCEROS	JAY BRIAN			
		TIGER BEAR	ANDRE AJ			
		MONKEY <input type="text"/>	NATHANIEL <input type="text"/>			
Second Interval: 16-30 Seconds		PANDA MOUSE	MATT CHRISTIAN	31'-30" Animals + Boys' Names Correct Responses	<input type="text"/>	
		MEERKAT GUINEA PIG	MANNY ARNOLD			
		SNAKE HAMSTER	MATTHEW			
		PYTHON RAT <input type="text"/>	AUSTIN <input type="text"/>			
Third Interval: 31-45 Seconds		APE CAT	BEN TIM	31'-45" Animals + Boys' Names Correct Responses	<input type="text"/>	
		DOG ZEBRAS	SAM OBAMA			
		GORILLA WHALE	TOM NEIL			
		DOLPHIN <input type="text"/>	THOMAS <input type="text"/>			
Fourth Interval: 46-60 Seconds		PIG BISON	SAMUEL DREW	46'-60" Animals + Boys' Names Correct Responses	<input type="text"/>	
		COW HORSE	LUCAS MATT			
		MOUSE	GERARD LENNY			
		GOAT <input type="text"/>	GERALD <input type="text"/>			
		Animals Total Correct Responses <input type="text"/> Total Set-Loss Errors <input type="text"/> Total Repetition Errors <input type="text"/>	Boys' Names Total Correct Responses <input type="text"/> Total Set-Loss Errors <input type="text"/> Total Repetition Errors <input type="text"/>	1'-60" Category Fluency Total Correct Responses <input type="text"/> Raw Score <input type="text"/>		
Category Fluency Total Responses (Correct + Incorrect) <input type="text"/>						

* Note: Some repetition errors are coded also as set-loss errors, each double-coded error counts as only one response for the total response measure.

Participant ID: 10C1000

- **Visit:** Baseline
 - Date: 07/28/2020
- **Demography:**
 - DOB: 11/10/1993
 - Age: 26 years
 - Sex: Male
 - Race: Asian
 - Education: 16 years

Neuropsychological assessment procedure

WAIS-IV

Wechsler Adult Intelligence Scale, Fourth Edition

WAIS-IV: Documentation procedure

Forms

Completion

Record Form

CRF

EDC Form

Record Form:



Required

CRF:



Required

EDC Form:



Required

The image shows a stack of WAIS-IV forms. The top visible forms are:

- 3. Digit Span
- 4. Digit Span Sequencing
- 8. Visual Puzzles
- 11. Letter-Number Sequencing
- Response Booklet 1
- WAIS-IV Record Form

The Record Form includes sections for:

- Demographic Information (Name, Sex, Birth Date, Age)
- Test Administration (Time, Instructions)
- Subtest Scores (Block Design, Similarities, Digit Span, etc.)
- Composite Scores (VCI, FSI, etc.)
- Sum of Scaled Scores to Composite Score Conversion

The CRF form is titled "UMC-CR-010 WAIS-IV" and includes:

- Subject ID and Date fields.
- Visit selection (Year 1-4).
- Section headers: CODING, VISUAL PUZZLES, DIGIT SPAN, LETTER-NUMBER SEQUENCING, SYMBOL SEARCH.
- Scoring fields for Total Raw Score and Total Scaled Score for each section.

The EDC form is a digital version of the CRF, titled "WAIS-IV". It features:

- Subject ID and Date fields.
- Visit selection (Year 1-4).
- Section headers: DIGIT SPAN, LETTER-NUMBER SEQUENCING, SYMBOL SEARCH, CODING, VISUAL PUZZLES.
- Scoring fields for Total Raw Score and Total Scaled Score for each section.

WAIS-IV: Documentation procedure

Forms

Completion

Record Form

CRF


EDC Form

Digit Span

Record Form:  Required

CRF:  Required

EDC Form:  Required



3. Digit Span

Forward

Item	Raw Score	Scale Score
1. 1-2-3	0	1
2. 1-2-3-4	0	1
3. 1-2-3-4-5	0	1
4. 1-2-3-4-5-6	0	1
5. 1-2-3-4-5-6-7	0	1
6. 1-2-3-4-5-6-7-8	0	1
7. 1-2-3-4-5-6-7-8-9	0	1
8. 1-2-3-4-5-6-7-8-9-0	0	1
9. 1-2-3-4-5-6-7-8-9-0-1	0	1
10. 1-2-3-4-5-6-7-8-9-0-1-2	0	1

Backward

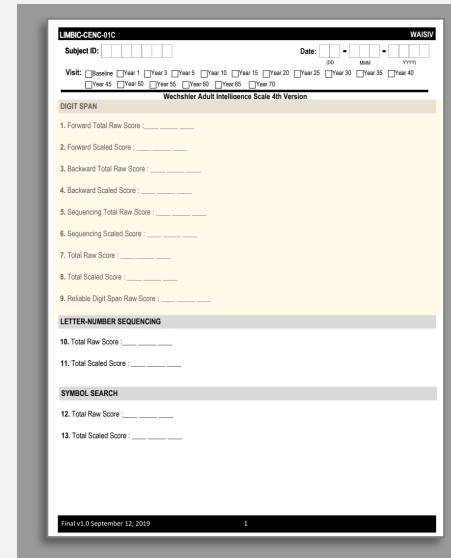
Item	Raw Score	Scale Score
1. 2-1	0	1
2. 3-2-1	0	1
3. 4-3-2-1	0	1
4. 5-4-3-2-1	0	1
5. 6-5-4-3-2-1	0	1
6. 7-6-5-4-3-2-1	0	1
7. 8-7-6-5-4-3-2-1	0	1
8. 9-8-7-6-5-4-3-2-1	0	1
9. 0-9-8-7-6-5-4-3-2-1	0	1
10. 1-0-9-8-7-6-5-4-3-2-1	0	1

Sequencing

Item	Raw Score	Scale Score
1. 1-2-3	0	1
2. 1-2-3-4	0	1
3. 1-2-3-4-5	0	1
4. 1-2-3-4-5-6	0	1
5. 1-2-3-4-5-6-7	0	1
6. 1-2-3-4-5-6-7-8	0	1
7. 1-2-3-4-5-6-7-8-9	0	1
8. 1-2-3-4-5-6-7-8-9-0	0	1
9. 1-2-3-4-5-6-7-8-9-0-1	0	1
10. 1-2-3-4-5-6-7-8-9-0-1-2	0	1

4. Matrix Reasoning

Item	Raw Score	Scale Score
1. 1-2-3-4-5-6-7-8-9-0	0	1
2. 1-2-3-4-5-6-7-8-9-0-1	0	1
3. 1-2-3-4-5-6-7-8-9-0-1-2	0	1
4. 1-2-3-4-5-6-7-8-9-0-1-2-3	0	1
5. 1-2-3-4-5-6-7-8-9-0-1-2-3-4	0	1
6. 1-2-3-4-5-6-7-8-9-0-1-2-3-4-5	0	1
7. 1-2-3-4-5-6-7-8-9-0-1-2-3-4-5-6	0	1
8. 1-2-3-4-5-6-7-8-9-0-1-2-3-4-5-6-7	0	1
9. 1-2-3-4-5-6-7-8-9-0-1-2-3-4-5-6-7-8	0	1
10. 1-2-3-4-5-6-7-8-9-0-1-2-3-4-5-6-7-8-9	0	1
11. 1-2-3-4-5-6-7-8-9-0-1-2-3-4-5-6-7-8-9-0	0	1
12. 1-2-3-4-5-6-7-8-9-0-1-2-3-4-5-6-7-8-9-0-1	0	1



LMHC-CENC-01C

WAIS-IV

Subject ID: _____ Date: ____/____/____

Visit: Baseline Year 1 Year 3 Year 5 Year 10 Year 15 Year 20 Year 25 Year 30 Year 35 Year 40

DIGIT SPAN

1. Forward Total Raw Score: _____

2. Forward Scaled Score: _____

3. Backward Total Raw Score: _____

4. Backward Scaled Score: _____

5. Sequencing Total Raw Score: _____

6. Sequencing Scaled Score: _____

7. Total Raw Score: _____

8. Total Scaled Score: _____

9. Reliable Digit Span Raw Score: _____

LETTER-NUMBER SEQUENCING

10. Total Raw Score: _____

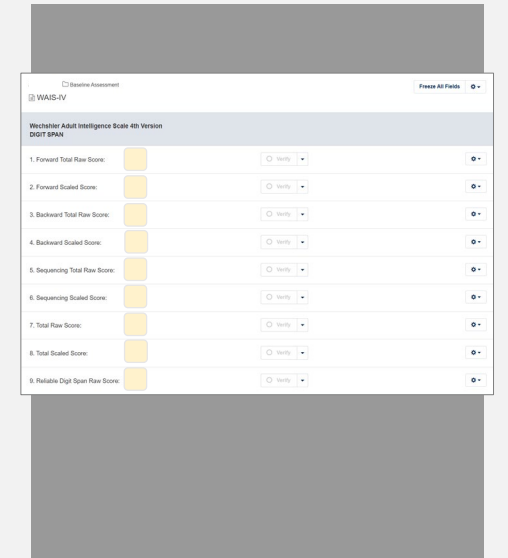
11. Total Scaled Score: _____

SYMBOL SEARCH

12. Total Raw Score: _____

13. Total Scaled Score: _____

Final v1.0 September 11, 2010



Baseline Assessment

WAIS-IV

Digit Span

1. Forward Total Raw Score:

2. Forward Scaled Score:

3. Backward Total Raw Score:

4. Backward Scaled Score:

5. Sequencing Total Raw Score:


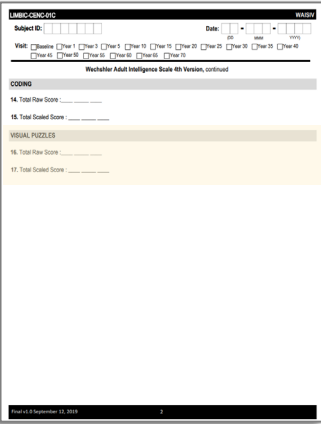
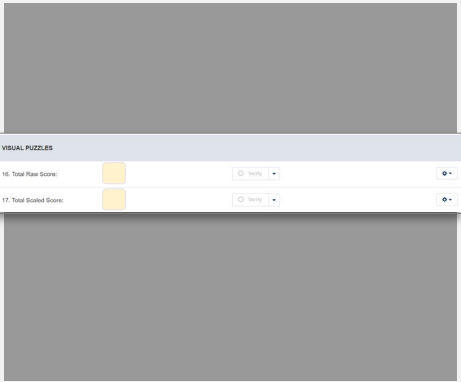



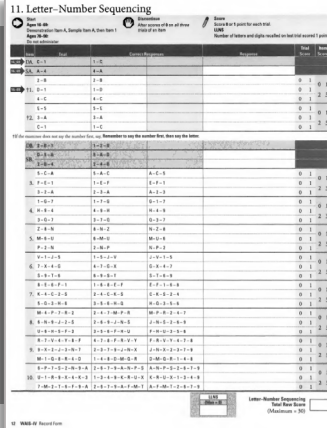
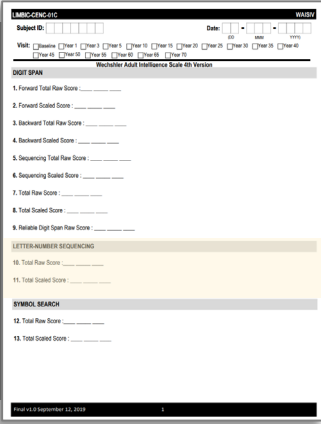
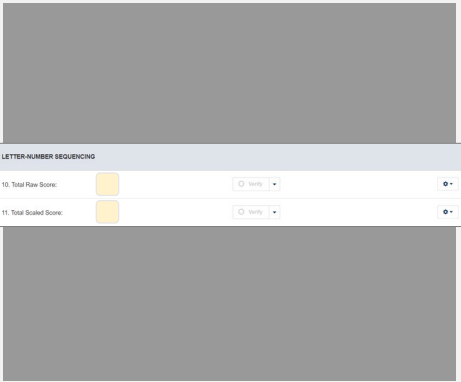



6. Sequencing Scaled Score:

7. Total Raw Score:

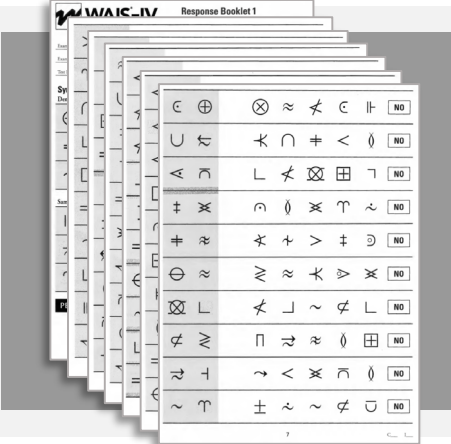
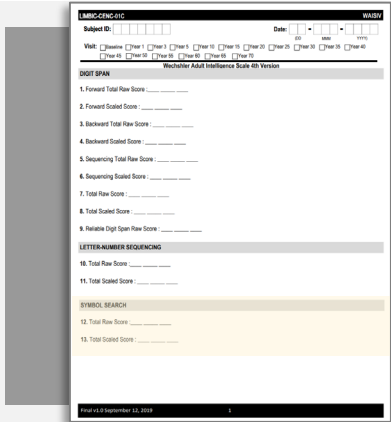
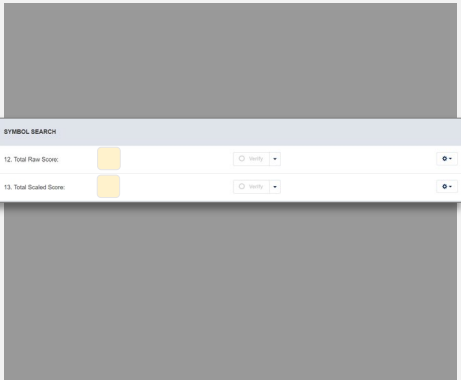
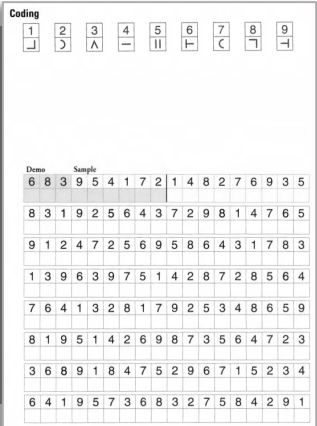
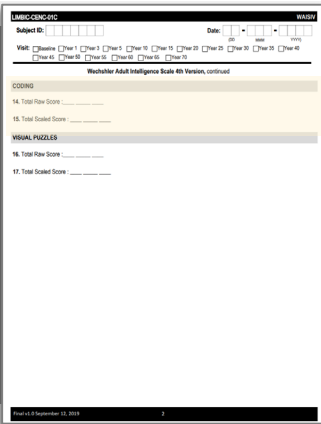
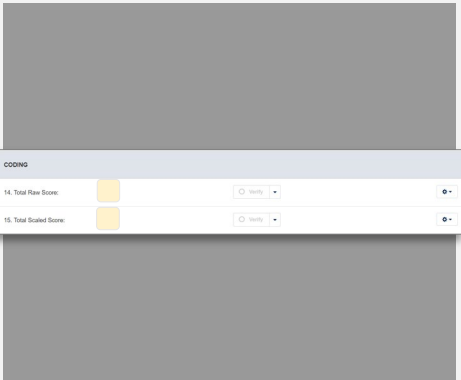
8. Total Scaled Score:

9. Reliable Digit Span Raw Score:

WAIS-IV: Documentation procedure

Forms	Completion	Record Form	CRF	EDC Form
Visual Puzzles				
Record Form:	 Required			
CRF:	 Required			
EDC Form:	 Required			
Letter-Number Sequencing				
Record Form:	 Required			
CRF:	 Required			
EDC Form:	 Required			

WAIS-IV: Documentation procedure

Forms	Completion	Record Form	CRF	EDC Form
Symbol Search				
Record Form:	<input checked="" type="checkbox"/> Required			
CRF:	<input checked="" type="checkbox"/> Required			
EDC Form:	<input checked="" type="checkbox"/> Required			
Coding				
Record Form:	<input checked="" type="checkbox"/> Required			
CRF:	<input checked="" type="checkbox"/> Required			
EDC Form:	<input checked="" type="checkbox"/> Required			


WAIS-IV: Documentation procedure

Demography

Record Form cover page

Completion required

Variable	Value description
Age	# years



The image shows the cover page of the WAIS-IV Record Form. The title "WAIS-IV Record Form" is prominently displayed. Below the title, there are three input fields: "Examinee Name:", "Examiner Name:", and "Test Date:". The "Test Date:" field is a date picker with separate boxes for Year, Month, and Day. To the right of the "Test Date:" field, there is a section titled "Calculation of Examinee's Age" with three input boxes for Year, Month, and Day. The "Test Date:" and "Calculation of Examinee's Age" sections are highlighted with red boxes. The "Examinee Name:" and "Examiner Name:" fields are also highlighted with red boxes.

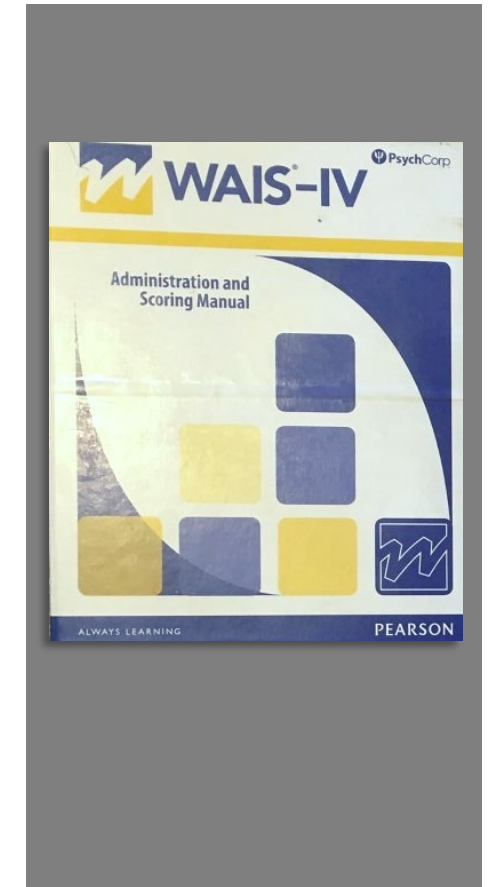
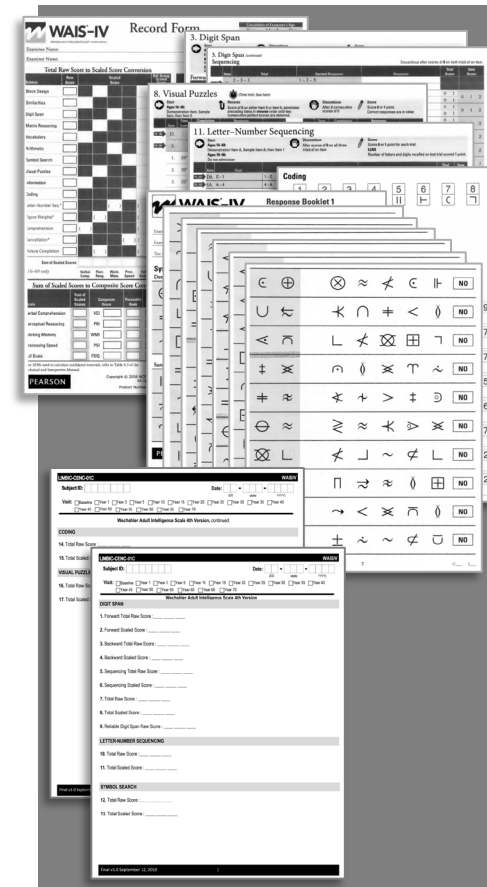
WAIS-IV: Scoring procedure

Process: Summary

1. **Raw score:** Total Correct
2. **Scaled score:**
 - A. Under Appendix A, Table A.1 (pages 207-218) of the WAIS-IV manual, identify the appropriate table to employ, based upon the demographic information collected from the participant
 - B. Locate the Scaled score value that corresponds with each Raw score

Record Form & CRF

Manual






WAIS-IV, VP: Scoring procedure

Process: Raw score

Record Form

1. Visual Puzzles: Total Correct

- Response = "Response Choices" indicated **correct** → 1/1

Regulation	Procedure description
 Time limit	<ul style="list-style-type: none"> Item 1-7: 20 seconds Item 8-26: 30 seconds
 Discontinue limit	3 consecutive Trial scores of 0
 Reverse Score of 0 for either Item 5 or 6 →	Administer preceding Items, according to reverse order, until 2 consecutive scores of 1 are obtained

8. Visual Puzzles (Time limit: See Item)

Start Ages 16-90
Demonstration Item: Sample Item, then Item 5

Reverse Score of 0 on either Item 5 or Item 6, administer preceding items in reverse order until two consecutive perfect scores are obtained.

Discontinue After 3 consecutive scores of 0

Score Score 0 or 1 point. Correct responses are in color.

Item	Time Limit	Completion	Response Choices	Score
D.			1 2 3 4 5 6	
S.			1 2 3 4 5 6	
1.	20"		1 2 3 4 5 6	0 1
2.	20"		1 2 3 4 5 6	0 1
3.	20"		1 2 3 4 5 6	0 1
4.	20"		1 2 3 4 5 6	0 1
5.	20"		1 2 3 4 5 6	0 1
6.	20"		1 2 3 4 5 6	0 1
7.	20"		1 2 3 4 5 6	0 1
8.	30"		1 2 3 4 5 6	0 1
9.	30"		1 2 3 4 5 6	0 1
10.	30"		1 2 3 4 5 6	0 1
11.	30"		1 2 3 4 5 6	0 1
12.	30"		1 2 3 4 5 6	0 1
13.	30"		1 2 3 4 5 6	0 1
14.	30"		1 2 3 4 5 6	0 1
15.	30"		1 2 3 4 5 6	0 1
16.	30"		1 2 3 4 5 6	0 1
17.	30"		1 2 3 4 5 6	0 1
18.	30"		1 2 3 4 5 6	0 1
19.	30"		1 2 3 4 5 6	0 1
20.	30"		1 2 3 4 5 6	0 1
21.	30"		1 2 3 4 5 6	0 1
22.	30"		1 2 3 4 5 6	0 1
23.	30"		1 2 3 4 5 6	0 1
24.	30"		1 2 3 4 5 6	0 1
25.	30"		1 2 3 4 5 6	0 1
26.	30"		1 2 3 4 5 6	0 1

Visual Puzzles Total Raw Score (Maximum = 26)

9. Information

Start Ages 16-90
Item 3

Reverse Score of 0 on either Item 3 or Item 4, administer preceding items in reverse order until two consecutive perfect scores are obtained.

Discontinue After 3 consecutive scores of 0

Score Score 0 or 1 point. See the Administration and Scoring Manual for sample responses.

Item	Response	Score
*1. Monday		0 1
*2. Shape		0 1
13. Thermometer		0 1
*4. Seconds		0 1
5. MLK Jr.		0 1
6. Line		0 1

*Responses requiring specific query are identified in the Administration and Scoring Manual.
†If the examinee does not give a correct response, provide corrective feedback as instructed in the Administration and Scoring Manual.

10 WAIS-IV Record Form

WAIS-IV, LN: Scoring procedure

Process: Raw score

Record Form

1. Letter-Number Sequencing: Total Correct

- Response = "Correct Response" column → 1/1
 - **Demonstration, Sample, Items 1-2:** Response = column 1
 - **Items 3-10:** Response = either column 1 or column 2



Regulation	Procedure description
Discontinue limit	1 Item with 3 consecutive Trial scores of 0

11. Letter-Number Sequencing

Start Ages 16-60: Demonstration Item A, Sample Item A, then Item 1. Ages 70-90: Do not administer. Discontinue: After scores of 0 on all three trials of an item. Score: Score 0 or 1 point for each trial. LUNS: Number of letters and digits recalled on last trial scored 1 point.

Item	Trial	Correct Responses	Response	Trial Score	Item Score
11. DA	C-1	1-C			
SA	A-4	4-A			
	2-B			0	1
11.	D-1	1-D		0	1
	4-C	4-C		0	1
	E-5	5-E		0	1
12.	3-A	3-A		0	1
	C-1	1-C		0	1
DB	2-B-1	1-2-B			
	D-5-A	5-A-D			
SB	2-B-4	2-4-B			
	5-C-A	5-A-C	A-C-5	0	1
3.	F-E-1	1-E-F	E-F-1	0	1
	3-2-A	2-3-A	A-2-3	0	1
	1-0-7	1-7-0	0-1-7	0	1
4.	H-9-4	4-9-H	H-4-9	0	1
	3-0-7	3-7-0	0-3-7	0	1
	Z-8-N	8-N-Z	N-Z-8	0	1
5.	M-6-U	6-M-U	M-U-6	0	1
	P-2-N	2-N-P	N-P-2	0	1
	V-1-J-5	1-5-J-V	J-V-1-5	0	1
6.	7-X-4-G	4-7-G-X	G-X-4-7	0	1
	5-9-T-6	6-9-S-T	S-T-6-9	0	1
	8-E-6-F-1	1-6-8-E-F	E-F-1-6-8	0	1
7.	K-4-C-2-S	2-4-C-K-S	C-K-S-2-4	0	1
	5-0-3-H-6	3-5-6-H-0	H-0-3-5-6	0	1
	M-4-P-7-R-2	2-4-7-M-P-R	M-P-R-2-4-7	0	1
8.	6-N-9-J-2-S	2-6-9-J-N-S	J-N-S-2-6-9	0	1
	U-6-H-5-F-3	3-5-6-F-H-U	F-H-U-3-5-6	0	1
	R-7-V-4-Y-8-F	4-7-8-F-R-V-Y	F-R-V-4-7-8	0	1
9.	9-X-2-J-3-N-7	2-3-7-9-J-N-X	J-N-X-2-3-7-9	0	1
	M-1-Q-8-R-4-D	1-4-8-D-M-Q-R	D-M-Q-R-1-4-8	0	1
	6-P-7-S-2-N-9-A	2-6-7-9-A-N-P-S	A-N-P-S-2-6-7-9	0	1
10.	U-1-R-9-X-4-K-3	1-3-4-9-K-R-U-X	K-R-U-X-1-3-4-9	0	1
	7-M-2-T-6-F-9-A	2-6-7-9-A-F-M-T	A-F-M-T-2-6-7-9	0	1

If the examinee does not say the number first, say: Remember to say the number first, then say the letter.

LUNS (Max = 8)

Letter-Number Sequencing Total Raw Score (Maximum = 30)

12 WAIS-IV Record Form

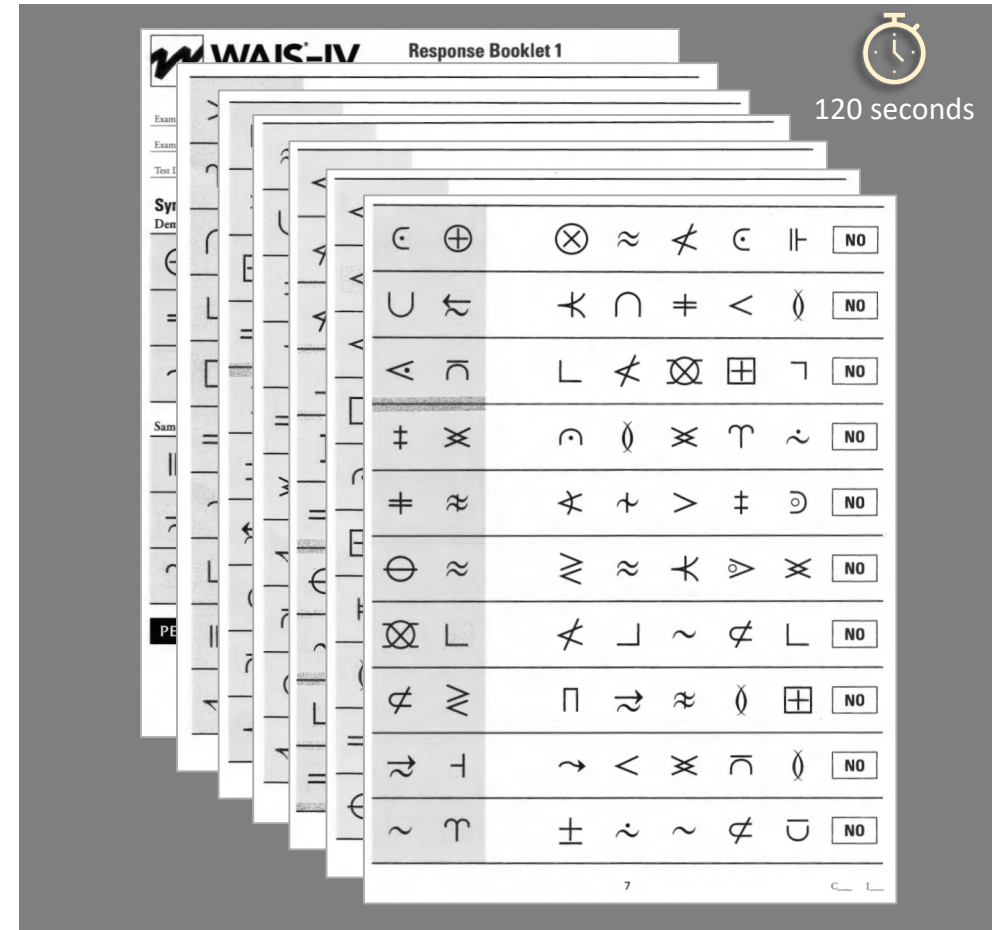
WAIS-IV, SS: Scoring procedure

Process: Raw score

Record Form

1. Symbol Search: Total Correct

- Response = Symbol Search Scoring Template → 1/1
- Raw score, formula = **Correct** – **Incorrect**



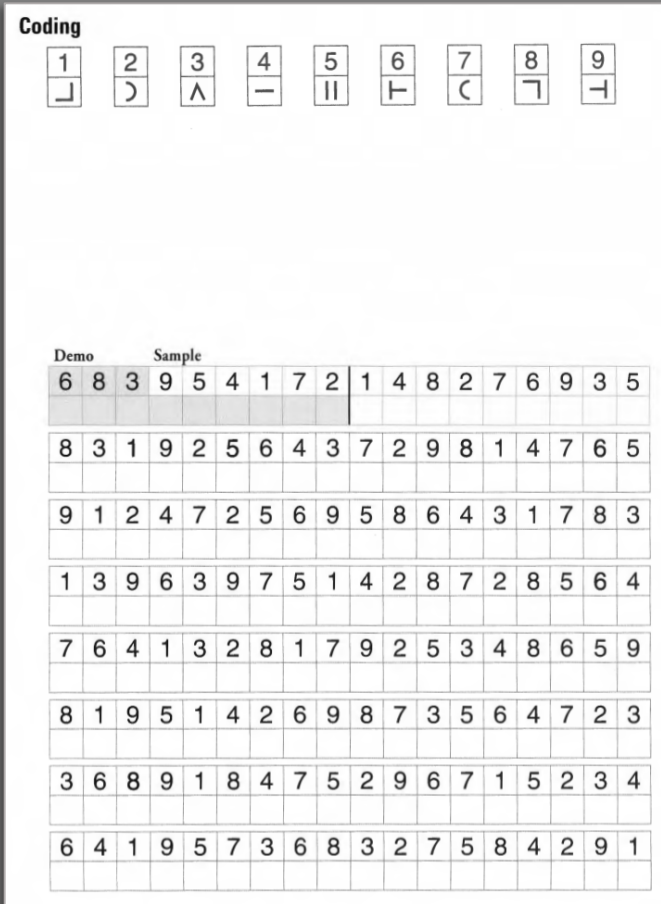
WAIS-IV, CD: Scoring procedure

Process: Raw score

Record Form

1. Coding: Total Correct

- Response = Coding Scoring Template → 1/1
- Raw score, formula = Total Response – Incorrect



The record form includes a 'Coding' section with nine boxes containing symbols: 1 (J), 2 (C), 3 (A), 4 (—), 5 (||), 6 (F), 7 (C), 8 (7), 9 (H). Below this is a 'Demo' section with a grid of numbers. The first row of the grid is shaded and contains the numbers 6, 8, 3, 9, 5, 4, 1, 7, 2, 1, 4, 8, 2, 7, 6, 9, 3, 5. The rest of the grid contains other numbers for practice. A timer icon and '120 seconds' are located on the right side of the form.

Coding	
1	2
J	C
3	4
A	—
5	6
	F
7	8
C	7
9	H

Demo										Sample							
6	8	3	9	5	4	1	7	2	1	4	8	2	7	6	9	3	5
8	3	1	9	2	5	6	4	3	7	2	9	8	1	4	7	6	5
9	1	2	4	7	2	5	6	9	5	8	6	4	3	1	7	8	3
1	3	9	6	3	9	7	5	1	4	2	8	7	2	8	5	6	4
7	6	4	1	3	2	8	1	7	9	2	5	3	4	8	6	5	9
8	1	9	5	1	4	2	6	9	8	7	3	5	6	4	7	2	3
3	6	8	9	1	8	4	7	5	2	9	6	7	1	5	2	3	4
6	4	1	9	5	7	3	6	8	3	2	7	5	8	4	2	9	1

120 seconds

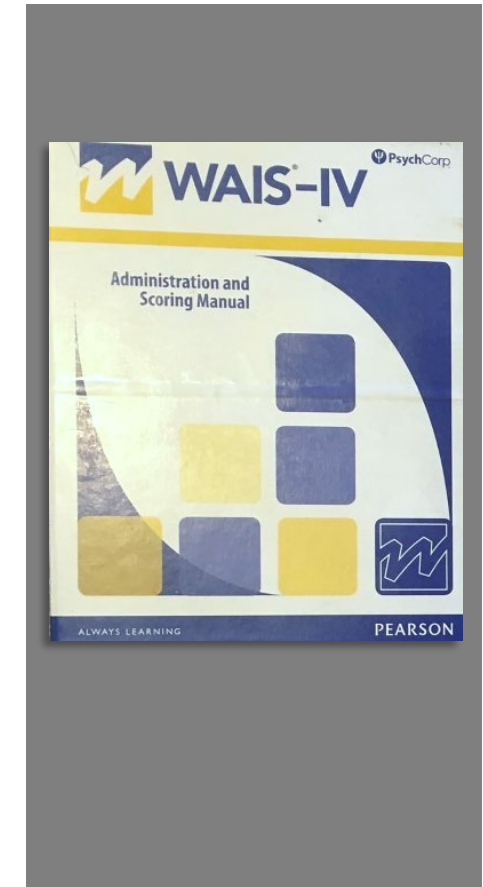
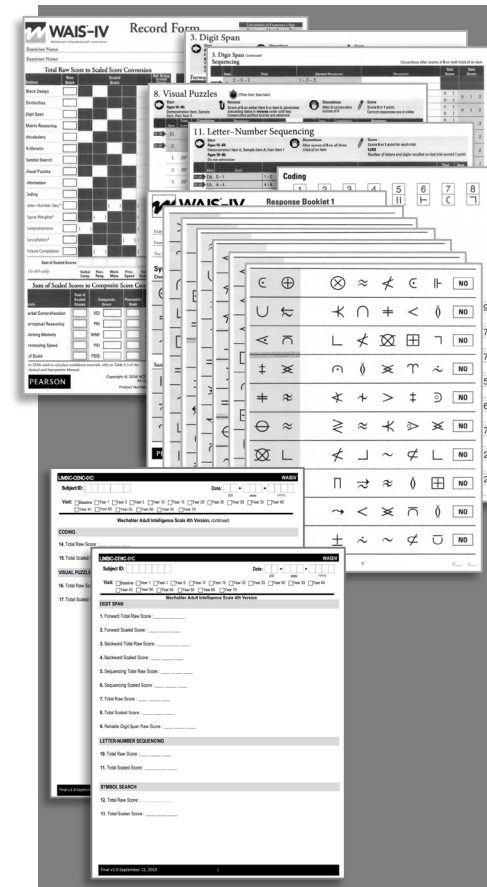
WAIS-IV: Scoring procedure

Process: Scaled score

Record Form & CRF

Manual

1. Raw score: Total Correct
2. Scaled score:
 - A. Digit Span, **conditions:** Appendix C, Table C.1 (pages 242-246) of the WAIS-IV manual, identify the appropriate table to employ, based upon the demographic information collected from the participant, then locate the Scaled score value that corresponds with each Raw score
 - B. WAIS-IV **Subtests:** Under Appendix A, Table A.1 (pages 207-218) of the WAIS-IV manual, identify the appropriate table to employ, based upon the demographic information collected from the participant
 - C. Locate the Scaled score value that corresponds with each Raw score



WAIS-IV: Practice

1. Complete the appropriate sections of the WAIS-IV Record Form with the participant information provided
2. Generate each Raw Score, then complete the appropriate fields of the Record Form and CRF
3. Obtain each Scaled score and finalize the documentation

Participant ID: 10C1000

- **Visit:** Baseline
 - Date: 07/28/2020
- **Demography:**
 - DOB: 11/10/1993
 - Age: 26 years
 - Sex: Male
 - Race: Asian
 - Education: 16 years

Record Form

CRF

The image displays a stack of WAIS-IV materials. On the left is the 'Record Form' which includes sections for 'Total Raw Score to Scaled Score Conversion', 'Subtest Scaled Score Profile', and 'Composite Score Profile'. In the center is 'Response Booklet 1' showing various subtests like '3. Digit Span', '8. Visual Puzzles', and '11. Letter-Number Sequencing'. On the right are 'CRF' (Composite Raw Form) sheets for 'DIGIT SPAN' and 'LETTER-NUMBER SEQUENCING', each with fields for subject ID, date, visit, and raw/scaled scores.

Neuropsychological assessment procedure

CVLT-II

California Verbal Learning Test, Second Edition

CVLT-II: Documentation procedure

Forms

Completion

Record Form

CRF

EDC Form

Record Form:



Required

CRF:



Required

EDC Form:



Required

CVLT-II California Verbal Learning Test-Second Edition
David C. Delis, Joel H. Kramer, Edith Kaplan, Beth A. Ober

Standard Form

Name: _____ ID#: _____ Examiner: _____ Date Tested: _____ Year: _____ Month: _____ Day: _____
Sex: F M Race/Ethnicity: _____ Education (years): _____ Date of Birth: _____
Handedness: R L Ambidextrous Hearing adequate? Y N

Instructions:
List A: Immediate Free Recall (List A)
List B: Long Delay Free Recall (List B)
List C: Long Delay Free Recall (List C)
List D: Long Delay Free Recall (List D)
List E: Long Delay Free Recall (List E)
List F: Long Delay Free Recall (List F)
List G: Long Delay Free Recall (List G)
List H: Long Delay Free Recall (List H)
List I: Long Delay Free Recall (List I)
List J: Long Delay Free Recall (List J)
List K: Long Delay Free Recall (List K)
List L: Long Delay Free Recall (List L)
List M: Long Delay Free Recall (List M)
List N: Long Delay Free Recall (List N)
List O: Long Delay Free Recall (List O)
List P: Long Delay Free Recall (List P)
List Q: Long Delay Free Recall (List Q)
List R: Long Delay Free Recall (List R)
List S: Long Delay Free Recall (List S)
List T: Long Delay Free Recall (List T)
List U: Long Delay Free Recall (List U)
List V: Long Delay Free Recall (List V)
List W: Long Delay Free Recall (List W)
List X: Long Delay Free Recall (List X)
List Y: Long Delay Free Recall (List Y)
List Z: Long Delay Free Recall (List Z)

Word List:
1. boat or flag C
2. gift or desk C
3. monkey or cow A
4. celery or asparagus C
5. bookcase or silence A
6. blender or truck C
7. onion or tiger C
8. basketball or rabies C
9. instruction or cabinet A
10. equine or direction A
11. banana or cabbage C
12. subway or backyard A
13. height or spinach A
14. giraffe or towel C
15. subject or motorcycle A
16. lamp or squirrel C

Total Accuracy (____) = $(\%) \times 100 = \%$

LMBC-CENC-01C CVLTII

Subject ID: _____ Date: _____

Visit: Baseline Year 1 Year 2 Year 3 Year 4 Year 5 Year 6 Year 7 Year 8 Year 9 Year 10

California Verbal Learning Test

1. Trial 1 Raw Score: _____
2. Trial 1 z-score: _____
3. Trial 2 Raw Score: _____
4. Trial 2 z-score: _____
5. Trial 3 Raw Score: _____
6. Trial 3 z-score: _____
7. Trial 4 Raw Score: _____
8. Trial 4 z-score: _____
9. Trial 5 Raw Score: _____
10. Trial 5 z-score: _____
11. Trial 5 Total Raw Score: _____
12. Trial 5 Total Standard T-Score: _____
13. Trial B Raw Score: _____
14. Trial B z-score: _____

LMBC-CENC-01C CVLTII

Subject ID: _____ Date: _____

Visit: Baseline Year 1 Year 2 Year 3 Year 4 Year 5 Year 6 Year 7 Year 8 Year 9 Year 10

California Verbal Learning Test, continued

15. Long Delay Free Recall Raw Score: _____
16. Long Delay Free Recall z-score: _____
17. Long Delay Free Recall Standard T-Score: _____
18. Long Delay Free Recall Total Raw Score: _____
19. Long Delay Free Recall Total Standard T-Score: _____
20. Total False Positives z-score: _____
21. Total Recognition Discriminability z-score: _____
22. Total Learning: _____
23. Across-Trial Recognition: _____
24. Proactive Interference: _____
25. Retroactive Interference: _____
26. Total Verbal Raw Score: _____
27. Total Verbal z-score: _____
28. Total Verbal Standard T-Score: _____
29. Total False Positives Raw Score: _____
30. Total False Positives z-score: _____
31. Total Recognition Discriminability Raw Score: _____
32. Forced Choice Recognition Raw Score (% Total Accuracy): _____

LMBC-CENC-01C CVLTII

Subject ID: _____ Date: _____

Visit: Baseline Year 1 Year 2 Year 3 Year 4 Year 5 Year 6 Year 7 Year 8 Year 9 Year 10

California Verbal Learning Test

1. Trial 1 Raw Score	0
2. Trial 1 z-score	0.0
3. Trial 2 Raw Score	10
4. Trial 2 z-score	0.0
5. Trial 3 Raw Score	10
6. Trial 3 z-score	0.0
7. Trial 4 Raw Score	10
8. Trial 4 z-score	0.0
9. Trial 5 Raw Score	10
10. Trial 5 z-score	0.0
11. Trial 5 Total Raw Score	50
12. Trial 5 Total Standard T-Score	44
13. Trial B Raw Score	10
14. Trial B z-score	0.0
15. Long Delay Free Recall Raw Score	10
16. Long Delay Free Recall z-score	0.0
17. Long Delay Free Recall Standard T-Score	12
18. Long Delay Free Recall Total Raw Score	0
19. Long Delay Free Recall Total Standard T-Score	12
20. Total False Positives Raw Score	0.0
21. Total False Positives z-score	0
22. Total Recognition Discriminability Raw Score	0
23. Total Recognition Discriminability z-score	0
24. Across-Trial Recognition	0
25. Proactive Interference	0
26. Retroactive Interference	0
27. Total Verbal Raw Score	10
28. Total Verbal z-score	0.0
29. Total Verbal Standard T-Score	0
30. Total False Positives Raw Score	0
31. Total False Positives z-score	0
32. Total Recognition Discriminability Raw Score	0
33. Total Recognition Discriminability z-score	0
34. Forced Choice Recognition Raw Score (% Total Accuracy)	100

CVLT-II: Documentation procedure

Demography

Record Form cover page

Completion required

Variable	Value description
Sex	Selection: <ul style="list-style-type: none">• Male• Female
Age	# years
Education	# years

CVLT-II
California Verbal Learning Test®
Second Edition • Adult Version

California Verbal Learning Test—Second Edition
Dean C. Delis Joel H. Kramer Edith Kaplan Beth A. Ober

Standard Form

Name: _____ ID#: _____ Examiner: _____

Sex: F M Race/Ethnicity: _____ Education (years): _____

Handedness: R L Ambidextrous Hearing adequate? Y N Hearing aid? Y N

First language: _____ Preferred language: _____ Effort appear adequate? Y ? N

	Year	Month	Day
Date Tested			
Date of Birth			
Age at Testing			

CVLT-II: Scoring procedure

Process: Summary

1. Raw score:

- A. Recall trials
- B. Recognition trials

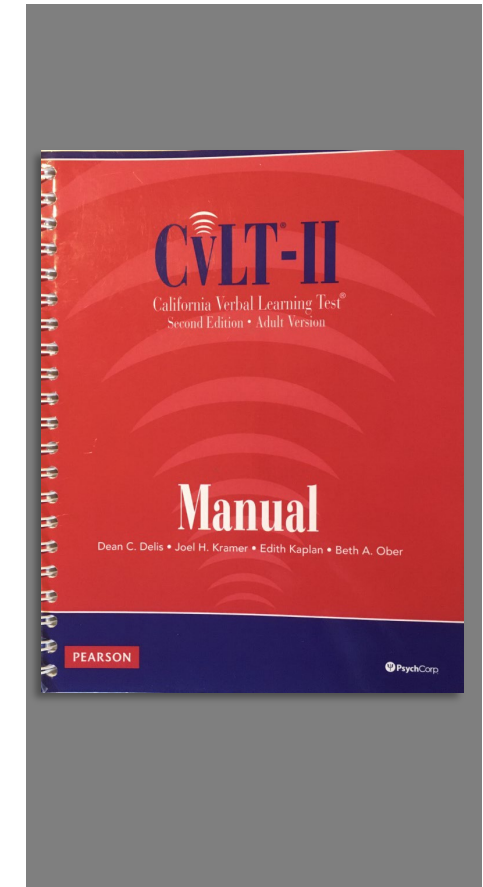
2. Scaled score:

- A. Under Appendix C, Tables C.1-C16 (pages 172-203) of the CVLT-II manual, identify the appropriate tables to employ, based upon the demographic information collected from the participant
- B. Locate the Scaled score value that corresponds with each Raw score

Record Form & CRF

The image shows two pages from the CVLT-II manual. The top page is the 'Standard Form' (Form 1) which includes demographic information (Name, Sex, Education, etc.), test instructions, and a list of words for the trials. The bottom page is the 'CRF' (Form 2) which is a scoring sheet with fields for recording raw scores for each trial and scaled scores for each trial and total scores.

Manual



CVLT-II: Scoring procedure

Process: Raw score

Record Form

1. Raw score: **Recall** trials

Correct response:

- CVLT-II manual, Scoring (page 22):
 1. Initial recall of a correct word from the target list
 2. Singular and plural versions of a target word are correct

Incorrect response:

- CVLT-II manual, Scoring (pages 22-23):

Repetition error:

- Any target word that is identically repeated following initial recall, during 1 trial

Intrusion error:

- Any word that is not included within the target list

LIST A
Trucks 1-5
Short-Delay Free Recall
Short-Delay Cued Recall
Long-Delay Free Recall
Long-Delay Cued Recall

LIST B
Trial B

CVLT-II: Scoring procedure

Process: Raw score

1. Raw score: Recall trials

List A
spinach
giraffe
bookcase
onion
motorcycle
cabinet
zebra
subway
lamp
celery
cow
desk
boat
squirrel
cabbage

LIST A

Trials 1-5
Short-Delay Free Recall
Short-Delay Cued Recall
Recall
Long-Delay Free Recall
Long-Delay Cued Recall

List B
violin
cucumber
elephant
closet
turnip
guitar
basement
sheep
clarinet
garage
corn
rabbit
patio
saxophone
tiger
radishes

LIST B

Trial B

List A Immediate Free Recall Trial 1
I'm going to read a list of words to you. Listen carefully, because when I'm through, I want you to tell me as many of the words as you can. You can say them in any order, just say as many of them as you can. Are you ready?

Trial 2
I'm going to read the same list again. Like before, tell me as many of the words as you can, in any order. Be sure you also say words from the list that you told me the first time.

Trial 3 and 4
I'm going to read the same list again. Like before, tell me as many of the words as you can, in any order, including words from the list you've said before.

Trial 5
I'm going to read the same list one more time. Like before, tell me as many words from this second list as you can, in any order, including words from the list you've said before.

Record all responses verbatim, in the order recalled. Prompt only once (i.e., Anything else?) at the end of each free and cued recall trial (i.e., after 15 seconds with no response or when the examinee says he/she cannot remember more words).

Trial	1	2	3	4	5
1					
2					
3					
4					
5					
6					
7					
8					
9					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
Total Correct	C				
Total Repetitions	R				
Total Intrusions	I				

List B Immediate Free Recall
Now I'm going to read a second list of words to you. When I'm through, I want you to tell me as many words from this second list as you can, in any order. Don't tell me words from the first list. Just this second list. Just the first list. Go ahead.

List A Short-Delay Free Recall
Now I want you to tell me all the words you got from the first list that are furniture. Tell me all the words from the first list that are vegetables. Tell me all the words from the first list that are ways of traveling. Don't tell me words from the second list. Just the first list. Go ahead.

List A Short-Delay Cued Recall
Tell me all the words from the first list that are furniture. Tell me all the words from the first list that are vegetables. Tell me all the words from the first list that are ways of traveling. Tell me all the words from the first list that are animals. Go ahead.

Record all responses verbatim, in the order recalled. Prompt only once (i.e., Anything else?) at the end of each free and cued recall trial (i.e., after 15 seconds with no response or when the examinee says he/she cannot remember more words).

Trial	1	2	3	4	5
1					
2					
3					
4					
5					
6					
7					
8					
9					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
Total Correct	C				
Total Repetitions	R				
Total Intrusions	I				

List A Long-Delay Free Recall
I read two different lists of words to you earlier. First list that I read to you earlier. Now, tell me all the words from the first list that are furniture. Tell me all the words from the first list that are vegetables. Tell me all the words from the first list that are ways of traveling. Tell me all the words from the first list that are animals. Go ahead.

List A Long-Delay Cued Recall
Tell me all the words from the first list that are furniture. Tell me all the words from the first list that are vegetables. Tell me all the words from the first list that are ways of traveling. Tell me all the words from the first list that are animals. Go ahead.

Record all responses verbatim, in the order recalled. Prompt only once (i.e., Anything else?) at the end of each free and cued recall trial (i.e., after 15 seconds with no response or when the examinee says he/she cannot remember more words).

Trial	1	2	3	4	5
1					
2					
3					
4					
5					
6					
7					
8					
9					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
Total Correct	C				
Total Repetitions	R				
Total Intrusions	I				

List B Immediate Free Recall
Now I'm going to read a second list of words to you. When I'm through, I want you to tell me as many words from this second list as you can, in any order. Don't tell me words from the first list. Just this second list. Just the first list. Go ahead.

List A Short-Delay Free Recall
Now I want you to tell me all the words you got from the first list that are furniture. Tell me all the words from the first list that are vegetables. Tell me all the words from the first list that are ways of traveling. Don't tell me words from the second list. Just the first list. Go ahead.

List A Short-Delay Cued Recall
Tell me all the words from the first list that are furniture. Tell me all the words from the first list that are vegetables. Tell me all the words from the first list that are ways of traveling. Tell me all the words from the first list that are animals. Go ahead.

Record all responses verbatim, in the order recalled. Prompt only once (i.e., Anything else?) at the end of each free and cued recall trial (i.e., after 15 seconds with no response or when the examinee says he/she cannot remember more words).

Trial	1	2	3	4	5
1					
2					
3					
4					
5					
6					
7					
8					
9					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
Total Correct	C				
Total Repetitions	R				
Total Intrusions	I				

List A Long-Delay Free Recall
I read two different lists of words to you earlier. First list that I read to you earlier. Now, tell me all the words from the first list that are furniture. Tell me all the words from the first list that are vegetables. Tell me all the words from the first list that are ways of traveling. Tell me all the words from the first list that are animals. Go ahead.

List A Long-Delay Cued Recall
Tell me all the words from the first list that are furniture. Tell me all the words from the first list that are vegetables. Tell me all the words from the first list that are ways of traveling. Tell me all the words from the first list that are animals. Go ahead.

Record all responses verbatim, in the order recalled. Prompt only once (i.e., Anything else?) at the end of each free and cued recall trial (i.e., after 15 seconds with no response or when the examinee says he/she cannot remember more words).

Trial	1	2	3	4	5
1					
2					
3					
4					
5					
6					
7					
8					
9					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
Total Correct	C				
Total Repetitions	R				
Total Intrusions	I				

CVLT-II: Scoring procedure

Process: Raw score

1. Raw score: Recognition trials

Yes/No Recognition:

- CVLT-II manual, Scoring (page 25):
 - **Hit:** response of “Yes” for a target word
 - **False-Positive:** response of “Yes” for an intrusion word

Forced-Choice Recognition :

- CVLT-II manual, Scoring (pages 26):
 - **Correct:** correct identification of target word
 - **Incorrect:** incorrect identification of intrusion word

Record Form

Yes/No

Forced-Choice

The image shows a detailed CVLT-II Record Form. It includes sections for 'List A Long-Delay Free Recall', 'List A Long-Delay Cued Recall', and 'List A Long-Delay Yes/No Recognition'. The 'Yes/No' section contains a grid of words categorized by type (e.g., Furniture, Vegetables, Ways of Traveling, Animals) and a table for recording responses (Yes/No) and scores (Total Correct, Total Rejections, Total Intrusions). Below this is the 'List A Long-Delay Forced-Choice Recognition (Optional)' section, which includes a list of words and a table for recording responses (Correct/Incorrect) and scores (Total Hits, Total False-Positives). The form also includes a 'Notes' section and a 'Total Accuracy' calculation at the bottom.

CVLT-II: Scoring procedure

Process: Scaled score

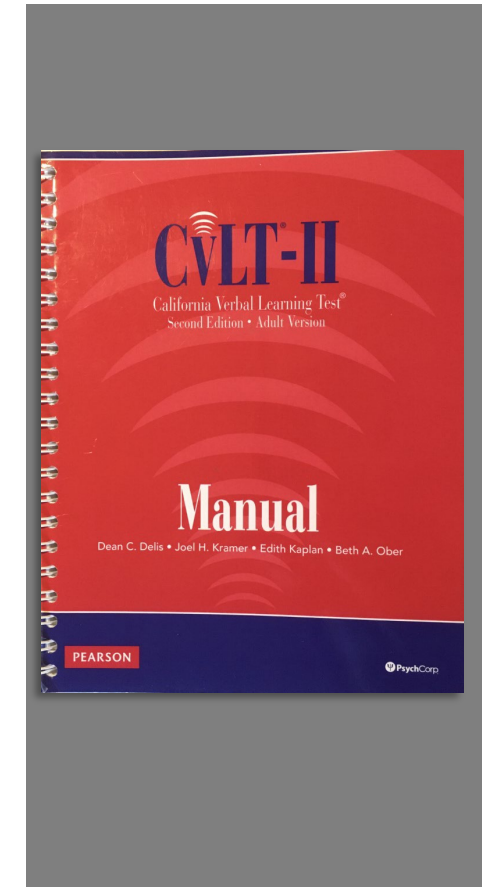
Record Form & CRF

Manual

1. Scaled score:

- A. Under Appendix C, Tables C.1-C16 (pages 172-203) of the CVLT-II manual, identify the appropriate tables to employ, based upon the demographic information collected from the participant
 - Trials 1-5 Total:
 - Male: Table C.1
 - Female: Table C.9
- B. Locate the Scaled score value that corresponds with each Raw score

The image shows two pages from the CVLT-II manual. The top page is the 'Standard Form' which includes demographic information (Name, Race/Ethnicity, Sex, Education, Occupation, Age, Trial 1-5) and instructions for scoring. It features a table with columns for 'Total', 'Short Delay', 'Free Recall', 'Long Delay', 'Cued Recall', and 'Total Raw Score'. The bottom page is the 'CRF' (Computer Record Form) which includes a 'Subject ID' field and a list of raw scores for various trials (e.g., Trial 1 Raw Score, Trial 2 Raw Score, etc.) and total scores.



CVLT-II: Practice

Participant ID: 10C1000

- Visit: Baseline**
 - Date: 07/28/2020
- Demography:**
 - DOB: 11/10/1993
 - Age: 26 years
 - Sex: Male
 - Race: Asian
 - Education: 16 years

1. Complete the appropriate sections of the CVLT-II Record Form with the participant information provided
2. Generate each Raw Score, then complete the appropriate fields of the Record Form and CRF
3. Obtain each Scaled score and finalize the documentation

Record Form

CVLT-II California Verbal Learning Test-Second Edition Standard Form
Deane C. Delis, Joel H. Kramer, Edith Kaplan, Beth A. Ober

Name: _____ EDI#: _____ Examination: _____
Sex: F M Race/Ethnicity: _____ Education (years): _____ Date Tested: _____
Date of Birth: _____

Handed: _____ Trial 1 I'm going to read a list of words to you. Listen. Trial 2 I'm going to read the same list again. Listen. Trial 3 I'm going to read the same list again. Listen. Trial 4 I'm going to read the same list again. Listen.

First list
List A: 1. immediately Free Recall Trial 1
List B: 2. cab 3. giraffe 4. motorcycle 5. baseball 6. giraffe 7. motorcycle 8. baseball 9. cab 10. giraffe 11. motorcycle 12. baseball 13. cab 14. giraffe 15. motorcycle 16. baseball 17. cab 18. giraffe 19. motorcycle 20. baseball 21. cab 22. giraffe 23. motorcycle 24. baseball 25. cab 26. giraffe 27. motorcycle 28. baseball 29. cab 30. giraffe 31. motorcycle 32. baseball 33. cab 34. giraffe 35. motorcycle 36. baseball 37. cab 38. giraffe 39. motorcycle 40. baseball 41. cab 42. giraffe 43. motorcycle 44. baseball 45. cab 46. giraffe 47. motorcycle 48. baseball 49. cab 50. giraffe 51. motorcycle 52. baseball 53. cab 54. giraffe 55. motorcycle 56. baseball 57. cab 58. giraffe 59. motorcycle 60. baseball 61. cab 62. giraffe 63. motorcycle 64. baseball 65. cab 66. giraffe 67. motorcycle 68. baseball 69. cab 70. giraffe 71. motorcycle 72. baseball 73. cab 74. giraffe 75. motorcycle 76. baseball 77. cab 78. giraffe 79. motorcycle 80. baseball 81. cab 82. giraffe 83. motorcycle 84. baseball 85. cab 86. giraffe 87. motorcycle 88. baseball 89. cab 90. giraffe 91. motorcycle 92. baseball 93. cab 94. giraffe 95. motorcycle 96. baseball 97. cab 98. giraffe 99. motorcycle 100. baseball

Second list
List A: 1. boat 2. desk 3. majority 4. celery 5. bookcase 6. blender 7. onion 8. baseball 9. instruction 10. squirrel 11. blanket 12. subway 13. height 14. giraffe 15. subject 16. lamp 17. boat 18. desk 19. majority 20. celery 21. bookcase 22. blender 23. onion 24. baseball 25. instruction 26. squirrel 27. blanket 28. subway 29. height 30. giraffe 31. subject 32. lamp 33. boat 34. desk 35. majority 36. celery 37. bookcase 38. blender 39. onion 40. baseball 41. instruction 42. squirrel 43. blanket 44. subway 45. height 46. giraffe 47. subject 48. lamp 49. boat 50. desk 51. majority 52. celery 53. bookcase 54. blender 55. onion 56. baseball 57. instruction 58. squirrel 59. blanket 60. subway 61. height 62. giraffe 63. subject 64. lamp 65. boat 66. desk 67. majority 68. celery 69. bookcase 70. blender 71. onion 72. baseball 73. instruction 74. squirrel 75. blanket 76. subway 77. height 78. giraffe 79. subject 80. lamp 81. boat 82. desk 83. majority 84. celery 85. bookcase 86. blender 87. onion 88. baseball 89. instruction 90. squirrel 91. blanket 92. subway 93. height 94. giraffe 95. subject 96. lamp 97. boat 98. desk 99. majority 100. celery

Detector types: C = concrete, A = abstract. Total Hits: _____ Total Accuracy: (_____/100) x 100 = _____ %

CRF

LIMBIC-CENC-01C CVLT-II
Subject ID: _____ Date: ____/____/____
Visit: Baseline Year 1 Year 3 Year 5 Year 10 Year 20 Year 25 Year 30 Year 35 Year 40 Year 45 Year 50 Year 55 Year 60 Year 65 Year 70

California Verbal Learning Test, continued

29. Total False Positives Raw Score: _____
30. Total False Positives z-score: _____
31. Total Recognition Discriminability z-score: _____
32. Forced Choice Recognition Raw Score (% Total Accuracy): _____

LIMBIC-CENC-01C CVLT-II
Subject ID: _____ Date: ____/____/____
Visit: Baseline Year 1 Year 3 Year 5 Year 10 Year 15 Year 20 Year 25 Year 30 Year 35 Year 40 Year 45 Year 50 Year 55 Year 60 Year 65 Year 70

California Verbal Learning Test

1. Trial 1 Raw Score: _____
2. Trial 1 z-score: _____
3. Trial 2 Raw Score: _____
4. Trial 2 z-score: _____
5. Trial 3 Raw Score: _____
6. Trial 3 z-score: _____
7. Trial 4 Raw Score: _____
8. Trial 4 z-score: _____
9. Trial 5 Raw Score: _____
10. Trial 5 z-score: _____
11. Trials 1-5 Total Raw Score: _____
12. Trials 1-5 Total Standard T-Score: _____
13. Trial B Raw Score: _____
14. Trial B z-score: _____
15. Short Delay Free Recall Raw Score: _____
16. Short Delay Free Recall z-score: _____
17. Short Delay Cued Recall Raw Score: _____
18. Short Delay Cued Recall z-score: _____
19. Long Delay Free Recall Raw Score: _____
20. Long Delay Free Recall z-score: _____
21. Long Delay Cued Recall Raw Score: _____
22. Long Delay Cued Recall z-score: _____
23. Total Learning Slope Trials 1-5 z-score: _____
24. Across-Trial Recall Consistency z-score: _____
25. Proactive Interference z-score: _____
26. Retroactive Interference z-score: _____
27. Total Hits Raw Score: _____

SFTP

The screenshot shows the LIMBIC CENC Web Client interface. The top navigation bar includes the logo, "Web Client", and menu items for Favorites, Tools, Help, and a User dropdown. Below the navigation bar is a breadcrumb trail showing "Home" and a "Jump to: Web Client" button. A search bar is present. The main content area displays a file listing for the "Home" directory with columns for Name, Size, and Time. A toolbar at the bottom of the listing includes options for Parent Directory, New Directory, Open, Upload, Download, Delete, and More Actions. At the bottom of the interface, a status bar shows "Directories: 18 Files: 0 Size: 0 KB".

Name	Size	Time
_SharedData		1/16/2020, 4:18:03 PM
01_Richmond		10/20/2020, 9:11:01 AM
02_Houston		10/20/2020, 9:11:49 AM
03_Tampa		10/20/2020, 9:12:17 AM
04_SanAntonio		10/20/2020, 9:12:36 AM
05_FortBelvoir		10/20/2020, 9:13:40 AM
06_Portland		10/20/2020, 9:13:57 AM
07_Minneapolis		10/20/2020, 9:14:22 AM
08_Boston		10/20/2020, 9:14:40 AM
09_Salisbury		10/20/2020, 9:14:53 AM
10_FortGordon		10/20/2020, 9:16:13 AM
11_SanDiego		7/15/2020, 2:02:52 PM
99_VCU_DBC		1/21/2020, 11:27:35 AM
Data Request		10/5/2020, 6:52:07 PM
NIH_ToolBox		7/27/2020, 1:18:08 PM
Regulatory Documents		3/18/2020, 9:51:56 AM
VINCII		9/16/2020, 1:17:57 PM
VINCII_Aryan		10/19/2020, 2:55:52 PM

This screenshot shows the LIMBIC CENC Web Client interface with the breadcrumb trail set to "Home > ##_Site > NP Audit". The main content area displays a file listing for the "NP Audit" directory, which is currently empty. The interface elements, including the navigation bar, search bar, and toolbar, are consistent with the previous screenshot.

Name	Size	Time
------	------	------

Reference

- **Grooved Pegboard Test, Trail-Making Test** (link: <https://www.parinc.com/Products/Pkey/357>):
 - Manual: Revised Comprehensive Norms for an Expanded Halstead-Reitan Battery: Demographically Adjusted Neuropsychological Norms for African American and Caucasian Adults
 - Link: <https://www.parinc.com/Products/Pkey/357>
- **D-KEFS**:
 - Manual: Delis-Kaplan Executive Function System (D-KEFS) Examiner's Manual
 - Link: <https://www.pearsonassessments.com/store/usassessments/en/Store/Professional-Assessments/Cognition-%26-Neuro/Delis-Kaplan-Executive-Function-System/p/100000618.html> (under Manual Scoring, Manuals section)
- **WAIS-IV**:
 - Manual: Wechsler Adult Intelligence Scale, Fourth Edition (WAIS-IV) Administration and Scoring Manual
 - Additional material:
 - WAIS-IV, Symbol Search Scoring Key
 - WAIS-IV, Coding Scoring Template
 - Link: <https://www.pearsonassessments.com/store/usassessments/en/Store/Professional-Assessments/Cognition-%26-Neuro/Wechsler-Adult-Intelligence-Scale-%7C-Fourth-Edition/p/100000392.html> (under Manual Scoring, Manuals section & Additional Materials section)
- **CVLT-II**:
 - Manual: California Verbal Learning Test, Second Edition (CVLT-II) Adult Version Manual
 - Link: <https://www.pearsonassessments.com/store/usassessments/en/Store/Professional-Assessments/Cognition-%26-Neuro/California-Verbal-Learning-Test-%7C-Second-Edition/p/100000166.html?tab=pricing-%2526-ordering> (under Manuals section)