

## APPENDIX D

Sex: Male  
Education: 7-8 years  
Age: 20-34 years  
Race: Caucasian

Scaled score	Summary scores			Executive functions					Attention/Working memory						Scaled score
	WAIS-R FSIQ	WAIS FSIQ	AIR	CAT ERROR	TRAIL B	THUR FLU	FAS	ANIMALS	WAIS-R DIGIT SPAN	WAIS DIGIT SPAN	PASAT	DIGIT ERROR	SSHOR RHYM	SPCH PERC	
19	100		100	87	94	92	82	85	91						19
18	96	100	97	83	89	88	79	81	87	80				81	18
17	92	98	92	79	85	84	75	77			81				17
16	88	94	87	75	80	81	72	72	80		78				16
15	84	90	81	71	76	77	68	68	76	70	74	74	68	69	15
14	79	85	76	67	72	73	65	64	72	67	70		64		14
13	75	81	71	63	67	69	61	59	68	64	66	68		61	13
12	71	77	65	59	63	65	57	55	64		62	64	58	57	12
11	67	72	60	55	58	62	54	51	60	57	58	61		53	11
10	62	68	55	51	54	58	50	47	56	54	55	57	52	49	10
9	58	64	49	47	49	54	47	42		51	51	54	49	45	9
8	54	59	44	43	45	50	43	38	48	48	47	50	46	41	8
7	50	55	39	39	40	46	39	34	44		43	47	43	37	7
6	46	51	33	35	36	43	36	30	40	41	39	43	40	33	6
5	41	47	28	31	32	39	32	25	37	38	35	40	36	29	5
4	37	42	22	27	27	35	29	21	33		32	37	33	26	4
3	33	38	17	23	23	31	25	17	29	32	28	33	30	22	3
2	29	34	12	19	18	27	21	12	25		24	30	27	18	2
1	24	29	6	15	14	24	18	8		25	20	26	24	14	1
0		25	1	11				4		22	16	23	21		0

Speed of information processing					Spatial skills				Verbal/Academic skills								Scaled score
Scaled score	WAIS-R DIGIT SYMB	WAIS DIGIT SYMB	TRAIL A	DIGIT TIME	WAIS-R BLOCK DESGN	WAIS BLOCK DESGN	TPT TIME	SPAT REL	WAIS-R VOCAB	WAIS VOCAB	APHAS SCRIN	BSTN NAME	BDAE COMP	PIAT RECOG	PIAT COMP	PIAT SPELL	
19	97		93		93		84		100								19
18	93	95	88	81			80		99								18
17	89	90	84	77	85		76		94	96				90	85		17
16	85	86	79	73	81	76	72		90	91		80		86	82	89	16
15	81	82	75	69	77	71	68		86	87				82	78		15
14	77	77	70	65	73	67	64		82	82		72		79	74	81	14
13	73	73	66	61	69	63	60		78	77	77	68		75	71	77	13
12	69	69	61	57	65	59	56		74	73			65	71	67	73	12
11	65	64	57	53	61	55	52	64	69	68	69	61		68	63	69	11
10	61	60	53	49	57	51	48		65	64	65	57		64	60	65	10
9	57	56	48	45	53	47	44	52	61	59	60	53	51	60	56	61	9
8	53	51	44	40	49	43	39		57	55	56	49		57	52	57	8
7	49	47	39	36	45	39	35	41	53	50	52	45	41	53	49	53	7
6	45	43	35	32	41	35	31		49	46	48	41		49	45	49	6
5	41	38	30	28	37	30	27	29	45	41	43	37	31	46	41	46	5
4	37	34	26	24	33	26	23		40	37	39	33		42	38	42	4
3	33	30	21		29	22	19	18	36	32	35	29	22	38	34		3
2	29	25	17		25	18	15	12	32	27	31	25	17	35			2
1	25	21	13		21	14	11	6	28	23	27	21	12				1
0		17				10	7	0	18	22					23	26	0

(continued)

## APPENDIX D (continued)

Sex: Male  
Education: 7-8 years  
Age: 20-34 years  
Race: Caucasian

Scaled score	Verbal episodic memory									Visual episodic memory						Scaled score
	STORY-T1	STORY LEARN	STORY RECALL	STORY LOSS	CVLT-1	CVLT-5	CVLT-TOT	CVLT-SDFR	CVLT-LDFR	TPT MEM	TPT LOC	FIGUR-T1	FIGUR LEARN	FIGUR RECALL	FIGUR LOSS	
19	92		88		89		85				82	89	87	86		19
18	88	93	84				81				78	85	83	83		18
17	84	88	80		80		77			78		80		79		17
16	79	84	76			73	73	70	77			76	75	75		16
15	75	79	72		71		68	67			66					15
14	71	75	68	65	66	65	64	63	68		62	68	67	68		14
13	66	70	64		62		60	59		62		64	63	64	60	13
12	62	66	60	58	57	57	56	55	59		54	59	59		57	12
11	58	61	56	55	52	53	52	51	55	54	51	55	55	56	53	11
10	54	57	52	51	48	49	48	48	50		47	51	51	53	50	10
9	49	52	48	48	43	45	44	44	46	46	43	47	47	49	46	9
8	45	48	44	44	39	41	40	40	41		39	42	43	45	43	8
7	41	43	40	41	34	37	35	36	37	38	35	38	39	41	39	7
6	36	39	36	37		33	31	33	32	34		34	34	38	36	6
5	32	34	32	34	25	29	27	29	28	30	27	30	30	34	32	5
4	28	30	28	30		25	23	25	23	26		25	26	30	28	4
3	24	25	24	27	16	21	19		19	22		21	22	27	25	3
2	19	21	20	24	11	17	15	18	14	18		17	18	23	21	2
1	15		15	20	7	13	11	14	10	14				19		1
0				17		9	7	10								

Scaled score	Lateralized sensorimotor/Psychomotor comparisons															Scaled score
	TAP DH	TAP NDH	GRIP DH	GRIP NDH	PEG DH	PEG NDH	TPT DH	TPT NDH	TPT BH	SP R	SP L	SP TOT	TFR R	TFR L		
19	89	87	82	80	87	84	83	84	84				90	89	19	
18	85	83	77	75	83	80	79	80	80				86	86	18	
17	81	78	72	70	79	76	75	76	75				82	82	17	
16	77	74	66	65	74	72	71	71	71				79	79	16	
15	72	70	61	60	70	68	66	67	66			66	75	75	15	
14	68	66	56	55	66	64	62	63	62	63			72	71	14	
13	64	62	51	50	62	60	58	59	58		60	59	68	68	13	
12	60	58	46	45	57	56	54	55	53	55			65	64	12	
11	56	54	41	40	53	52	50	50	49		52	53	61	61	11	
10	52	50	36	35	49	48	46	46	45	48	48	50	58	57	10	
9	47	46	31	30	44	44	42	42	40	44	44	46	54	54	9	
8	43	42	26	25	40	40	38	38	36	40	40	43	51	50	8	
7	39	38	21	20	36	36	34	33	31	36	36	40	47	47	7	
6	35	34	16	15	32	32	29	29	27	33	32	36	44	43	6	
5	31	30	10	10	27	28	25	25	23	29	28	33	40	40	5	
4	27	25	5	5	23	24	21	21	18	25	24	30	37	36	4	
3	22	21	0	0	19	20	17	17	14	21	21	27	33	33	3	
2	18	17	0	0	15	16	13	12	9	18	17	23	30	29	2	
1	14	13	0	0	10	12	9	8	5	14	13	20	26	26	1	
0	10	9	0	0	6	8		4							0	

Note. See page 16 for a description of acronyms.

## APPENDIX D (continued)

Sex: Male  
Education: 7-8 years  
Age: 35-39 years  
Race: Caucasian

Summary scores				Executive functions					Attention/Working memory						Scaled score
Scaled score	WAIS-R FSIQ	WAIS FSIQ	AIR	CAT ERROR	TRAIL B	THUR FLU	FAS	ANIMALS	WAIS-R DIGIT SPAN	WAIS DIGIT SPAN	PASAT	DIGIT ERROR	SSHOR RHYM	SPCH PERC	
19	99		100	90	96	94	84	88	91						19
18	95	100	100	86	92	90	80	84	87	81				81	18
17	90	96	96	82	87	86	77	79			83				17
16	86	92	90	78	83	82	73	75	80		79				16
15	82	88	85	74	78	78	69	71	76	71	76	76	69	70	15
14	78	83	80	70	74	75	66	67	72	68	72		66		14
13	74	79	74	66	69	71	62	62	68	65	68	69		62	13
12	69	75	69	62	65	67	59	58	64		64	66	59	58	12
11	65	70	64	58	60	63	55	54	60	58	60	62		54	11
10	61	66	58	54	56	60	51	49	56	55	56	59	53	50	10
9	57	62	53	50	52	56	48	45		52	53	55	50	46	9
8	52	57	47	46	47	52	44	41	48	49	49	52	47	42	8
7	48	53	42	42	43	48	41	37	44		45	48	44	38	7
6	44	49	37	38	38	44	37	32	40	42	41	45	41	34	6
5	40	44	31	34	34	41	33	28	37	39	37	41	38	30	5
4	35	40	26	30	29	37	30	24	33		33	38	34	26	4
3	31	36	21	26	25	33	26	20	29	33	30	35	31	23	3
2	27	31	15	22	20	29	23	15	25		26	31	28	19	2
1	23	27	10	18	16	25	19	11		26	22	28	25	15	1
0		23	5	14				7		23	18	24	22		0

Speed of information processing					Spatial skills				Verbal/Academic skills								Scaled score
Scaled score	WAIS-R DIGIT SYMB	WAIS DIGIT SYMB	TRAIL A	DIGIT TIME	WAIS-R BLOCK DESGN	WAIS BLOCK DESGN	TPT TIME	SPAT REL	WAIS-R VOCAB	WAIS VOCAB	APHAS SCRIN	BSTN NAME	BDAE COMP	PIAT RECOG	PIAT COMP	PIAT SPELL	
19	100		96		95		86		100								19
18	97	94	91	82			82		97								18
17	93	90	87	78	87		78		93	96				89	86		17
16	89	85	82	74	83	78	74		89	91		78		86	82	89	16
15	85	81	78	70	79	74	70		85	87				82	79		15
14	81	77	74	66	75	70	66		81	82		70		78	75	81	14
13	77	72	69	62	71	66	62		76	77	78	66		75	71	77	13
12	73	68	65	58	67	62	57		72	73			65	71	68	73	12
11	69	64	60	54	63	57	53	64	68	68	69	59		67	64	69	11
10	65	59	56	50	59	53	49		64	64	65	55		64	60	65	10
9	61	55	51	46	55	49	45	53	60	59	61	51	51	60	57	61	9
8	57	51	47	42	51	45	41		56	55	57	47		56	53	57	8
7	53	46	43	38	47	41	37	41	52	50	52	43	41	53	49	53	7
6	49	42	38	33	43	37	33		47	46	48	39		49	46	49	6
5	45	38	34	29	39	33	29	30	43	41	44	35	32	45	42	45	5
4	41	33	29	25	35	29	25		39	37	40	31		42	38	41	4
3	37	29	25		31	25	21	18	35	32	35	27	22	38	35		3
2	33	25	20		27	21	17	13	31	27	31	23	17	34			2
1	29	20	16		23	16	12	7	27	23	27	19	12				1
0		16				12	8	1	18	23					24	25	0

(continued)

## APPENDIX D (continued)

Sex: Male  
Education: 7-8 years  
Age: 35-39 years  
Race: Caucasian

Scaled score	Verbal episodic memory									Visual episodic memory						Scaled score
	STORY-T1	STORY LEARN	STORY RECALL	STORY LOSS	CVLT-1	CVLT-5	CVLT-TOT	CVLT-SDFR	CVLT-LDFR	TPT MEM	TPT LOC	FIGUR-T1	FIGUR LEARN	FIGUR RECALL	FIGUR LOSS	
19	94		89		90		86				85	92	90	87		19
18	90	95	85				82				81	88	86	84		18
17	85	91	81		81		78			79		84		80		17
16	81	86	77			74	74	72	78			79	78	76		16
15	77	82	73		72		70	68			69					15
14	73	77	69	66	67	66	66	64	69		65	71	70	69		14
13	68	73	65		63		61	60		63		67	66	65	60	13
12	64	68	61	59	58	58	57	56	60		58	62	62		57	12
11	60	63	57	55	53	54	53	53	56	55	54	58	58	57	53	11
10	55	59	53	52	49	50	49	49	51		50	54	54	54	50	10
9	51	54	49	48	44	46	45	45	47	47	46	50	50	50	46	9
8	47	50	45	45	40	42	41	41	42		42	45	46	46	43	8
7	43	45	40	41	35	38	37	38	38	39	38	41	42	42	39	7
6	38	41	36	38		34	33	34	33	35		37	38	39	36	6
5	34	36	32	34	26	30	28	30	29	31	30	33	34	35	32	5
4	30	32	28	31		26	24	26	24	27		29	30	31	29	4
3	26	27	24	27	17	22	20		20	23		24	26	28	25	3
2	21	23	20	24	12	18	16	19	15	19		20	22	24	22	2
1	17		16	20	8	15	12	15	11	15				20		1
0			17			11	8	11								0

Scaled score	Lateralized sensorimotor/Psychomotor comparisons														Scaled score
	TAP DH	TAP NDH	GRIP DH	GRIP NDH	PEG DH	PEG NDH	TPT DH	TPT NDH	TPT BH	SP R	SP L	SP TOT	TFR R	TFR L	
19	90	87	81	79	90	87	84	86	87				90	89	19
18	86	83	76	74	86	83	80	82	82				86	86	18
17	82	79	71	69	81	79	76	78	78				83	82	17
16	77	75	66	64	77	75	72	74	73				79	79	16
15	73	71	60	59	73	71	68	70	69			67	76	75	15
14	69	67	55	54	69	67	64	65	65	64			72	72	14
13	65	63	50	49	64	63	59	61	60		62	60	69	68	13
12	61	59	45	44	60	59	55	57	56	56			65	65	12
11	57	55	40	39	56	55	51	53	52		54	54	62	61	11
10	52	50	35	34	52	51	47	48	47	49	50	50	58	58	10
9	48	46	30	29	47	47	43	44	43	45	46	47	55	54	9
8	44	42	25	24	43	43	39	40	38	41	42	44	51	51	8
7	40	38	20	19	39	39	35	36	34	37	38	41	48	47	7
6	36	34	15	14	35	35	31	32	30	33	34	37	44	43	6
5	31	30	9	9	30	31	26	27	25	30	30	34	41	40	5
4	27	26	4	4	26	27	22	23	21	26	26	31	37	36	4
3	23	22	0	0	22	23	18	19	16	22	22	27	33	33	3
2	19	18	0	0	18	19	14	15	12	18	19	24	30	29	2
1	15	14	0	0	13	15	10	10	8	14	15	21	26	26	1
0	11	10	0	0	9	11		6							0

Note. See page 16 for a description of acronyms.

## APPENDIX D (continued)

Sex: Male  
Education: 7-8 years  
Age: 40-44 years  
Race: Caucasian

	Summary scores			Executive functions					Attention/Working memory							
Scaled score	WAIS-R FSIQ	WAIS FSIQ	AIR	CAT ERROR	TRAIL B	THUR FLU	FAS	ANIMALS	WAIS-R DIGIT SPAN	WAIS DIGIT SPAN	PASAT	DIGIT ERROR	SSHOR RHYM	SPCH PERC	Scaled score	
19	99		100	92	97	91	84	89	91						19	
18	95	99	100	88	93	88	81	85	87	82				82	18	
17	90	95	98	84	89	84	77	81			84				17	
16	86	91	93	80	84	80	74	76	80		80				16	
15	82	86	87	76	80	76	70	72	76	72	76	77	69	70	15	
14	78	82	82	72	75	73	66	68	72	69	73		66		14	
13	74	78	76	68	71	69	63	64	68	65	69	70		63	13	
12	69	73	71	64	66	65	59	59	64		65	66	60	59	12	
11	65	69	66	60	62	61	56	55	60	59	61	63		55	11	
10	61	65	60	56	57	57	52	51	56	56	57	59	54	51	10	
9	57	61	55	52	53	54	48	47		52	53	56	51	47	9	
8	52	56	50	48	49	50	45	42	48	49	50	52	48	43	8	
7	48	52	44	44	44	46	41	38	44		46	49	44	39	7	
6	44	48	39	40	40	42	38	34	40	43	42	46	41	35	6	
5	40	43	34	36	35	38	34	30	37	40	38	42	38	31	5	
4	35	39	28	32	31	35	30	25	33		34	39	35	27	4	
3	31	35	23	28	26	31	27	21	29	33	30	35	32	23	3	
2	27	30	17	24	22	27	23	17	25		27	32	29	19	2	
1	23	26	12	20	17	23	20	12		27	23	28	26	15	1	
0		22	7	16				8		23	19	25	23		0	

Speed of information processing					Spatial skills				Verbal/Academic skills								Scaled score
Scaled score	WAIS-R DIGIT SYMB	WAIS DIGIT SYMB	TRAIL A	DIGIT TIME	WAIS-R BLOCK DESGN	WAIS BLOCK DESGN	TPT TIME	SPAT REL	WAIS-R VOCAB	WAIS VOCAB	APHAS SCRIN	BSTN NAME	BDAE COMP	PIAT RECOG	PIAT COMP	PIAT SPELL	
19	100		97		95		87		100								19
18	97	96	93	83			83		97								18
17	93	92	89	79	87		79		93	96				89	86		17
16	89	88	84	75	83	79	75		89	91		75		85	83	89	16
15	85	83	80	71	79	75	71		85	87				82	79		15
14	81	79	75	67	75	71	67		81	82		68		78	75	81	14
13	77	75	71	63	71	67	63		76	77	78	64		74	72	77	13
12	73	70	66	59	67	63	59		72	73			65	71	68	73	12
11	69	66	62	55	63	59	55	65	68	68	69	56		67	64	69	11
10	65	62	57	51	59	55	50		64	64	65	52		63	61	65	10
9	61	57	53	46	55	50	46	53	60	59	61	48	51	60	57	61	9
8	57	53	49	42	51	46	42		56	55	57	44		56	53	57	8
7	53	49	44	38	47	42	38	42	52	50	53	40	41	52	50	53	7
6	49	44	40	34	43	38	34		47	46	48	36		49	46	49	6
5	45	40	35	30	39	34	30	30	43	41	44	32	32	45	42	45	5
4	41	36	31	26	35	30	26		39	37	40	28		41	39	41	4
3	37	31	26		31	26	22	19	35	32	36	24	22	38	35		3
2	33	27	22		27	22	18	13	31	27	31	20	17	34			2
1	29	22	17		23	18	14	7	27	23	27	16	12				1
0		18				14	10	1	18	23					24	25	0

(continued)

## APPENDIX D (continued)

Sex: Male  
Education: 7-8 years  
Age: 40-44 years  
Race: Caucasian

Scaled score	Verbal episodic memory									Visual episodic memory						Scaled score
	STORY-T1	STORY LEARN	STORY RECALL	STORY LOSS	CVLT-1	CVLT-5	CVLT-TOT	CVLT-SDFR	CVLT-LDFR	TPT MEM	TPT LOC	FIGUR-T1	FIGUR LEARN	FIGUR RECALL	FIGUR LOSS	
19	95		89		91		87				86	94	92	88		19
18	91	96	85				83				83	89	88	84		18
17	86	92	81		82		79			80		85		80		17
16	82	87	77			75	75	72	79			81	80	77		16
15	78	83	73		72		71	69			71					15
14	74	78	69	66	68	67	66	65	70		67	72	72	69		14
13	69	74	65		63		62	61		64		68	68	65	61	13
12	65	69	61	59	59	59	58	57	61		59	64	64		57	12
11	61	65	57	55	54	55	54	53	56	56	55	60	60	58	53	11
10	56	60	53	52	49	51	50	50	52		52	55	56	54	50	10
9	52	55	49	48	45	47	46	46	47	48	48	51	51	50	46	9
8	48	51	45	45	40	43	42	42	43		44	47	47	47	43	8
7	44	46	41	41	36	39	38	38	39	40	40	43	43	43	39	7
6	39	42	37	38		35	33	35	34	36		39	39	39	36	6
5	35	37	33	34	27	31	29	31	30	32	32	34	35	36	32	5
4	31	33	29	31		27	25	27	25	28		30	31	32	29	4
3	27	28	25	27	17	23	21		21	24		26	27	28	25	3
2	22	24	21	24	13	19	17	19	16	20		22	23	24	22	2
1	18		17	21	8	15	13	16	12	16				21		1
0				17		11	9	12								0

Scaled score	Lateralized sensorimotor/Psychomotor comparisons															Scaled score
	TAP DH	TAP NDH	GRIP DH	GRIP NDH	PEG DH	PEG NDH	TPT DH	TPT NDH	TPT BH	SP R	SP L	SP TOT	TFR R	TFR L		
19	91	88	82	80	92	87	85	88	88				86	85	19	
18	86	84	77	75	87	83	81	84	84				82	82	18	
17	82	80	72	70	83	79	77	79	79				79	78	17	
16	78	76	66	65	79	75	73	75	75				75	75	16	
15	74	72	61	60	75	71	69	71	71			68	72	71	15	
14	70	68	56	55	70	67	64	67	66	64			68	68	14	
13	66	64	51	50	66	63	60	63	62		63	61	65	64	13	
12	61	60	46	45	62	59	56	58	58	57			61	61	12	
11	57	56	41	40	58	55	52	54	53		55	54	58	57	11	
10	53	52	36	35	53	51	48	50	49	49	51	51	54	54	10	
9	49	48	31	30	49	47	44	46	44	45	47	48	51	50	9	
8	45	44	26	25	45	43	40	41	40	42	43	45	47	47	8	
7	40	39	21	20	41	39	36	37	36	38	39	41	44	43	7	
6	36	35	15	15	36	35	32	33	31	34	35	38	40	40	6	
5	32	31	10	10	32	31	27	29	27	30	31	35	37	36	5	
4	28	27	5	6	28	27	23	25	22	26	27	31	33	33	4	
3	24	23	0	1	24	23	19	20	18	23	23	28	30	29	3	
2	20	19	0	0	19	19	15	16	14	19	19	25	26	25	2	
1	15	15	0	0	15	15	11	12	9	15	16	22	23	22	1	
0	11	11	0	0	11	11		8							0	

Note. See page 16 for a description of acronyms.

## APPENDIX D (continued)

Sex: Male  
Education: 7-8 years  
Age: 45-49 years  
Race: Caucasian

Summary scores				Executive functions					Attention/Working memory						Scaled score
Scaled score	WAIS-R FSIQ	WAIS FSIQ	AIR	CAT ERROR	TRAIL B	THUR FLU	FAS	ANIMALS	WAIS-R DIGIT SPAN	WAIS DIGIT SPAN	PASAT	DIGIT ERROR	SSHOR RHYM	SPCH PERC	
19	97		100	94	99	92	85	91	91						19
18	93	98	100	90	95	89	81	86	87	82				83	18
17	89	94	100	86	90	85	78	82			85				17
16	85	90	95	82	86	81	74	78	80		81				16
15	80	85	90	78	81	77	71	74	76	72	77	77	70	71	15
14	76	81	84	74	77	73	67	69	72	69	74		67		14
13	72	77	79	70	72	70	63	65	68	66	70	70		64	13
12	68	72	74	66	68	66	60	61	64		66	67	61	60	12
11	63	68	68	62	63	62	56	57	60	59	62	64		56	11
10	59	64	63	58	59	58	53	52	56	56	58	60	54	52	10
9	55	59	57	54	55	54	49	48		53	54	57	51	48	9
8	51	55	52	50	50	51	45	44	48	50	50	53	48	44	8
7	46	51	47	46	46	47	42	39	44		47	50	45	40	7
6	42	46	41	41	41	43	38	35	40	43	43	46	42	36	6
5	38	42	36	37	37	39	35	31	37	40	39	43	39	32	5
4	34	38	31	33	32	35	31	27	33		35	39	36	28	4
3	30	34	25	29	28	32	28	22	29	34	31	36	33	24	3
2	25	29	20	25	23	28	24	18	25		27	33	29	20	2
1	21	25	15	21	19	24	20	14		27	24	29	26	16	1
0		21	9	17				10		24	20	26	23		0

Scaled score	Speed of information processing				Spatial skills				Verbal/Academic skills								Scaled score
	WAIS-R DIGIT SYMB	WAIS DIGIT SYMB	TRAIL A	DIGIT TIME	WAIS-R BLOCK DESGN	WAIS BLOCK DESGN	TPT TIME	SPAT REL	WAIS-R VOCAB	WAIS VOCAB	APHAS SCRIN	BSTN NAME	BDAE COMP	PIAT RECOG	PIAT COMP	PIAT SPELL	
19	100		99		96		89		100								19
18	100	99	95	84			85		96								18
17	96	94	90	80	88		81		92	96				89	87		17
16	92	90	86	76	85	80	77		88	91		76		85	83	89	16
15	88	86	81	72	81	76	72		83	87				81	79		15
14	84	81	77	68	77	72	68		79	82		68		78	76	81	14
13	80	77	72	64	73	68	64		75	77	78	64		74	72	77	13
12	76	73	68	60	69	64	60		71	73			65	70	68	73	12
11	72	68	64	56	65	60	56	65	67	68	70	56		67	65	69	11
10	68	64	59	52	61	56	52		63	64	65	53		63	61	65	10
9	64	60	55	47	57	52	48	54	59	59	61	49	51	59	57	61	9
8	60	55	50	43	53	48	44		54	55	57	45		56	54	57	8
7	56	51	46	39	49	43	40	42	50	50	53	41	41	52	50	53	7
6	52	47	41	35	45	39	36		46	46	49	37		48	46	49	6
5	48	42	37	31	41	35	32	31	42	41	44	33	32	45	43	45	5
4	44	38	32	27	37	31	27		38	37	40	29		41	39	41	4
3	40	33	28		33	27	23	19	34	32	36	25	22	37	35		3
2	36	29	24		29	23	19	13	29	27	32	21	17	34			2
1	32	25	19		25	19	15	8	25	23	27	17	13				1
0		20				15	11	2		18	23				24	25	0

(continued)

## APPENDIX D (continued)

Sex: Male  
Education: 7-8 years  
Age: 45-49 years  
Race: Caucasian

Scaled score	Verbal episodic memory									Visual episodic memory						Scaled score
	STORY-T1	STORY LEARN	STORY RECALL	STORY LOSS	CVLT-1	CVLT-5	CVLT-TOT	CVLT-SDFR	CVLT-LDFR	TPT MEM	TPT LOC	FIGUR-T1	FIGUR LEARN	FIGUR RECALL	FIGUR LOSS	
19	96		90		92		88				88	95	94	88		19
18	92	97	86				84				84	91	90	85		18
17	87	93	82		82		80			81		87		81		17
16	83	88	78			76	76	73	80			82	81	77		16
15	79	84	74		73		72	70			73					15
14	74	79	70	66	69	68	68	66	71		69	74	73	70		14
13	70	75	65		64		64	62		65		70	69	66	61	13
12	66	70	61	59	60	60	59	58	62		61	66	65		57	12
11	62	66	57	55	55	56	55	55	58	57	57	61	61	58	54	11
10	57	61	53	52	50	52	51	51	53		53	57	57	55	50	10
9	53	57	49	48	46	48	47	47	49	49	49	53	53	51	47	9
8	49	52	45	45	41	44	43	43	44		45	49	49	47	43	8
7	45	47	41	42	37	40	39	39	40	41	41	44	45	43	39	7
6	40	43	37	38		36	35	36	35	37		40	41	40	36	6
5	36	38	33	35	27	32	31	32	31	33	34	36	37	36	32	5
4	32	34	29	31		28	26	28	26	29		32	33	32	29	4
3	27	29	25	28	18	24	22		22	25		27	29	29	25	3
2	23	25	21	24	14	20	18	21	17	21		23	25	25	22	2
1	19		17	21	9	16	14	17	13	17				21		1
0				17		13	10	13								0

Scaled score	Lateralized sensorimotor/Psychomotor comparisons														Scaled score
	TAP DH	TAP NDH	GRIP DH	GRIP NDH	PEG DH	PEG NDH	TPT DH	TPT NDH	TPT BH	SP R	SP L	SP TOT	TFR R	TFR L	
19	91	90	83	82	94	89	86	90	90				86	86	19
18	87	86	78	77	90	85	82	85	86				82	82	18
17	83	82	73	72	85	81	78	81	81				79	79	17
16	79	78	68	67	81	77	74	77	77				75	75	16
15	75	73	63	62	77	73	70	73	72			68	72	71	15
14	70	69	58	57	72	69	66	68	68	65			68	68	14
13	66	65	53	52	68	65	62	64	64		64	62	65	64	13
12	62	61	47	47	64	61	57	60	59	57			61	61	12
11	58	57	42	42	60	57	53	56	55		56	55	58	57	11
10	54	53	37	37	55	53	49	52	51	50	52	52	54	54	10
9	50	49	32	32	51	49	45	47	46	46	48	49	51	50	9
8	45	45	27	27	47	45	41	43	42	42	44	45	47	47	8
7	41	41	22	22	43	41	37	39	37	38	40	42	44	43	7
6	37	37	17	17	38	37	33	35	33	35	36	39	40	40	6
5	33	33	12	12	34	33	29	30	29	31	32	36	37	36	5
4	29	29	7	7	30	29	24	26	24	27	28	32	33	33	4
3	24	25	2	2	26	25	20	22	20	23	24	29	30	29	3
2	20	20	0	0	21	21	16	18	15	20	20	26	26	26	2
1	16	16	0	0	17	17	12	14	11	16	16	22	23	22	1
0	12	12	0	0	13	13		9							0

Note. See page 16 for a description of acronyms.



## APPENDIX D (continued)

Sex: Male  
Education: 7-8 years  
Age: 50-54 years  
Race: Caucasian

	Summary scores			Executive functions					Attention/Working memory							
Scaled score	WAIS-R FSIQ	WAIS FSIQ	AIR	CAT ERROR	TRAIL B	THUR FLU	FAS	ANIMALS	WAIS-R DIGIT SPAN	WAIS DIGIT SPAN	PASAT	DIGIT ERROR	SSHOR RHYM	SPCH PERC	Scaled score	
19	97		100	95	100	93	86	92	91						19	
18	93	97	100	91	96	89	82	88	87	83				84	18	
17	89	93	100	87	92	86	78	84			86				17	
16	85	89	98	83	87	82	75	79	80		82				16	
15	80	84	92	79	83	78	71	75	76	73	78	78	71	73	15	
14	76	80	87	75	79	74	68	71	72	70	74		67		14	
13	72	76	82	71	74	70	64	67	68	66	71	71		65	13	
12	68	71	76	67	70	67	60	62	64		67	68	61	61	12	
11	63	67	71	63	65	63	57	58	60	60	63	64		57	11	
10	59	63	66	59	61	59	53	54	56	57	59	61	55	53	10	
9	55	58	60	55	56	55	50	49		53	55	57	52	49	9	
8	51	54	55	51	52	51	46	45	48	50	51	54	49	45	8	
7	46	50	49	47	47	48	43	41	44		48	50	46	41	7	
6	42	45	44	43	43	44	39	37	40	44	44	47	42	37	6	
5	38	41	39	39	38	40	35	32	37	41	40	44	39	33	5	
4	34	37	33	35	34	36	32	28	33		36	40	36	29	4	
3	30	32	28	31	30	32	28	24	29	34	32	37	33	25	3	
2	25	28	23	27	25	29	25	20	25		28	33	30	21	2	
1	21	24	17	23	21	25	21	15		28	25	30	27	18	1	
0		19	12	19				11		24	21	26	24		0	

Speed of information processing					Spatial skills				Verbal/Academic skills								Scaled score
Scaled score	WAIS-R DIGIT SYMB	WAIS DIGIT SYMB	TRAIL A	DIGIT TIME	WAIS-R BLOCK DESGN	WAIS BLOCK DESGN	TPT TIME	SPAT REL	WAIS-R VOCAB	WAIS VOCAB	APHAS SCRIN	BSTN NAME	BDAE COMP	PIAT RECOG	PIAT COMP	PIAT SPELL	
19	100		100		96		91		100								19
18	100	100	96	85			87		96								18
17	96	97	92	81	88		82		92	96				88	87		17
16	92	92	87	77	85	82	78		88	91		77		85	83	89	16
15	88	88	83	73	81	78	74		83	87				81	80		15
14	84	84	79	69	77	73	70		79	82		69		77	76	81	14
13	80	79	74	65	73	69	66		75	77	78	65		74	72	77	13
12	76	75	70	61	69	65	62		71	73			65	70	69	73	12
11	72	71	65	57	65	61	58	65	67	68	70	58		66	65	69	11
10	68	66	61	53	61	57	54		63	64	66	54		63	61	65	10
9	64	62	56	49	57	53	50	54	59	59	61	50	51	59	58	61	9
8	60	57	52	45	53	49	46		54	55	57	46		55	54	57	8
7	56	53	47	41	49	45	42	42	50	50	53	42	41	52	50	53	7
6	52	49	43	37	45	41	38		46	46	49	38		48	47	49	6
5	48	44	39	33	41	36	33	31	42	41	45	34	32	44	43	45	5
4	44	40	34	28	37	32	29		38	37	40	30		41	39	41	4
3	40	36	30		33	28	25	19	34	32	36	26	22	37	36		3
2	36	31	25		29	24	21	14	29	27	32	22	17	33			2
1	32	27	21		25	20	17	8	25	23	28	18	13				1
0		23				16	13	2		18	23				25	25	0

(continued)

## APPENDIX D (continued)

Sex: Male  
Education: 7-8 years  
Age: 50-54 years  
Race: Caucasian

Scaled score	Verbal episodic memory									Visual episodic memory						Scaled score
	STORY-T1	STORY LEARN	STORY RECALL	STORY LOSS	CVLT-1	CVLT-5	CVLT-TOT	CVLT-SDFR	CVLT-LDFR	TPT MEM	TPT LOC	FIGUR-T1	FIGUR LEARN	FIGUR RECALL	FIGUR LOSS	
19	97		90		93		90				90	97	95	89		19
18	92	98	86				86				86	92	91	85		18
17	88	94	82		84		82			82		88		81		17
16	84	89	78			77	77	75	81			84	83	78		16
15	80	85	74		74		73	71			74					15
14	75	80	70	66	70	69	69	67	72		70	76	75	70		14
13	71	76	66		65		65	63		66		71	71	66	61	13
12	67	71	62	59	61	61	61	60	63		62	67	67		57	12
11	63	67	58	56	56	57	57	56	59	58	59	63	63	59	54	11
10	58	62	54	52	51	53	53	52	54		55	59	59	55	50	10
9	54	58	50	49	47	50	49	48	50	50	51	54	55	51	47	9
8	50	53	46	45	42	46	44	45	45		47	50	51	48	43	8
7	45	49	42	42	38	42	40	41	41	42	43	46	47	44	40	7
6	41	44	38	38		38	36	37	36	38		42	43	40	36	6
5	37	40	34	35	29	34	32	33	32	34	35	37	39	37	32	5
4	33	35	29	31		30	28	29	27	30		33	34	33	29	4
3	28	30	25	28	19	26	24		23	26		29	30	29	25	3
2	24	26	21	24	15	22	20	22	18	22		25	26	25	22	2
1	20		17	21	10	18	15	18	14	18				22		1
0				17		14	11	14								0

Scaled score	Lateralized sensorimotor/Psychomotor comparisons															Scaled score
	TAP DH	TAP NDH	GRIP DH	GRIP NDH	PEG DH	PEG NDH	TPT DH	TPT NDH	TPT BH	SP R	SP L	SP TOT	TFR R	TFR L		
19	92	91	85	83	96	91	88	91	92				86	86	19	
18	88	87	80	78	92	87	84	87	88				82	82	18	
17	84	83	75	74	88	83	79	83	83				79	79	17	
16	80	79	70	69	83	79	75	79	79				75	75	16	
15	76	75	64	64	79	75	71	75	74			69	72	72	15	
14	71	71	59	59	75	71	67	70	70	66			68	68	14	
13	67	67	54	54	70	67	63	66	66		65	63	65	65	13	
12	63	63	49	49	66	63	59	62	61	58			61	61	12	
11	59	59	44	44	62	59	55	58	57		57	56	58	57	11	
10	55	54	39	39	58	55	51	53	53	51	53	53	54	54	10	
9	50	50	34	34	53	51	46	49	48	47	49	50	51	50	9	
8	46	46	29	29	49	47	42	45	44	43	45	46	47	47	8	
7	42	42	24	24	45	43	38	41	39	39	41	43	44	43	7	
6	38	38	19	19	41	39	34	37	35	36	37	40	40	40	6	
5	34	34	13	14	36	35	30	32	31	32	33	37	37	36	5	
4	30	30	8	9	32	31	26	28	26	28	29	33	33	33	4	
3	25	26	3	4	28	27	22	24	22	24	25	30	30	29	3	
2	21	22	0	0	24	23	18	20	17	20	21	27	26	26	2	
1	17	18	0	0	19	19	13	15	13	17	17	23	23	22	1	
0	13	14	0	0	15	15		11							0	

Note. See page 16 for a description of acronyms.

## APPENDIX D (continued)

Sex: Male  
Education: 7-8 years  
Age: 55-59 years  
Race: Caucasian

	Summary scores			Executive functions					Attention/Working memory							
Scaled score	WAIS-R FSIQ	WAIS FSIQ	AIR	CAT ERROR	TRAIL B	THUR FLU	FAS	ANIMALS	WAIS-R DIGIT SPAN	WAIS DIGIT SPAN	PASAT	DIGIT ERROR	SSHOR RHYM	SPCH PERC	Scaled score	
19	96		100	97	100	94	86	94	89						19	
18	91	96	100	93	98	90	83	89	85	83				86	18	
17	87	92	100	89	94	86	79	85			87				17	
16	83	87	100	85	89	83	75	81	77		83				16	
15	79	83	95	81	85	79	72	76	73	73	79	79	71	74	15	
14	74	79	90	77	80	75	68	72	70	70	75		68		14	
13	70	75	85	73	76	71	65	68	66	67	71	72		66	13	
12	66	70	79	69	72	67	61	64	62		68	68	62	62	12	
11	62	66	74	65	67	64	58	59	58	60	64	65		58	11	
10	58	62	69	61	63	60	54	55	54	57	60	62	56	54	10	
9	53	57	63	57	58	56	50	51		54	56	58	52	50	9	
8	49	53	58	53	54	52	47	47	46	51	52	55	49	46	8	
7	45	49	53	49	49	48	43	42	42		48	51	46	43	7	
6	41	44	47	45	45	45	40	38	38	44	45	48	43	39	6	
5	36	40	42	41	40	41	36	34	34	41	41	44	40	35	5	
4	32	36	36	37	36	37	32	29	30		37	41	37	31	4	
3	28	31	31	33	31	33	29	25	27	35	33	37	34	27	3	
2	24	27	26	29	27	29	25	21	23		29	34	31	23	2	
1	19	23	20	25	23	26	22	17		28	25	31	27	19	1	
0		18	15	21				12		25	22	27	24		0	

Scaled score	Speed of information processing				Spatial skills				Verbal/Academic skills								Scaled score
	WAIS-R DIGIT SYMB	WAIS DIGIT SYMB	TRAIL A	DIGIT TIME	WAIS-R BLOCK DESGN	WAIS BLOCK DESGN	TPT TIME	SPAT REL	WAIS-R VOCAB	WAIS VOCAB	APHAS SCRIN	BSTN NAME	BDAE COMP	PIAT RECOG	PIAT COMP	PIAT SPELL	
19	100		100		98		93		99								19
18	100	100	98	87			89		95								18
17	96	99	94	83	90		85		90	96				88	87		17
16	92	95	89	79	86	83	81		86	91		79		84	84	89	16
15	88	90	85	75	82	79	77		82	87				80	80		15
14	84	86	80	71	78	75	73		78	82		71		77	76	81	14
13	80	82	76	67	74	71	68		74	77	78	67		73	73	77	13
12	76	77	71	63	71	66	64		70	73			65	69	69	73	12
11	72	73	67	58	67	62	60	66	65	68	70	59		66	65	69	11
10	68	68	62	54	63	58	56		61	64	66	55		62	62	65	10
9	65	64	58	50	59	54	52	54	57	59	62	51	51	58	58	61	9
8	61	60	54	46	55	50	48		53	55	57	47		55	54	57	8
7	57	55	49	42	51	46	44	43	49	50	53	43	41	51	51	53	7
6	53	51	45	38	47	42	40		45	46	49	39		47	47	49	6
5	49	47	40	34	43	38	36	31	41	41	45	35	32	44	43	45	5
4	45	42	36	30	39	34	32		36	37	41	31		40	40	41	4
3	41	38	31		35	29	28	20	32	32	36	28	22	36	36		3
2	37	34	27		31	25	23	14	28	27	32	24	17	33			2
1	33	29	22		27	21	19	8	24	23	28	20	13				1
0		25				17	15	2		18	24				25	25	0

(continued)

## APPENDIX D (continued)

Sex: Male  
Education: 7-8 years  
Age: 55-59 years  
Race: Caucasian

Scaled score	Verbal episodic memory									Visual episodic memory						Scaled score
	STORY-T1	STORY LEARN	STORY RECALL	STORY LOSS	CVLT-1	CVLT-5	CVLT-TOT	CVLT-SDFR	CVLT-LDFR	TPT MEM	TPT LOC	FIGUR-T1	FIGUR LEARN	FIGUR RECALL	FIGUR LOSS	
19	98		91		94		92				91	98	97	89		19
18	93	99	86				87				87	94	93	86		18
17	89	95	82		85		83			83		90		82		17
16	85	90	78			79	79	76	83			86	85	78		16
15	81	86	74		76		75	73			76					15
14	76	81	70	66	71	71	71	69	74		72	77	77	71		14
13	72	77	66		67		67	65		68		73	73	67	61	13
12	68	72	62	59	62	63	63	61	65		64	69	68		57	12
11	64	68	58	56	57	59	59	58	60	60	60	64	64	59	54	11
10	59	63	54	52	53	55	54	54	56		56	60	60	56	50	10
9	55	59	50	49	48	51	50	50	51	52	52	56	56	52	47	9
8	51	54	46	45	44	47	46	46	47		49	52	52	48	43	8
7	46	50	42	42	39	43	42	42	42	44	45	47	48	44	40	7
6	42	45	38	38		39	38	39	38	40		43	44	41	36	6
5	38	41	34	35	30	35	34	35	33	36	37	39	40	37	33	5
4	34	36	30	31		31	30	31	29	32		35	36	33	29	4
3	29	32	26	28	21	27	26		24	28		30	32	30	26	3
2	25	27	22	24	16	23	21	24	20	24		26	28	26	22	2
1	21		18	21	12	20	17	20	15	20				22		1
0				18		16	13	16								0

Scaled score	Lateralized sensorimotor/Psychomotor comparisons															Scaled score
	TAP DH	TAP NDH	GRIP DH	GRIP NDH	PEG DH	PEG NDH	TPT DH	TPT NDH	TPT BH	SP R	SP L	SP TOT	TFR R	TFR L		
19	93	93	87	86	98	94	89	93	94				86	86	19	
18	89	88	82	81	94	90	85	89	90				82	82	18	
17	85	84	77	76	90	86	81	85	85				79	79	17	
16	81	80	72	71	86	82	77	81	81				75	75	16	
15	77	76	66	66	81	78	73	77	77			71	72	72	15	
14	73	72	61	61	77	74	69	72	72	67			68	68	14	
13	68	68	56	56	73	70	65	68	68		66	64	65	65	13	
12	64	64	51	51	69	66	61	64	64	59			61	61	12	
11	60	60	46	46	64	62	56	60	59		58	58	58	58	11	
10	56	56	41	41	60	58	52	55	55	52	54	54	54	54	10	
9	52	52	36	36	56	54	48	51	50	48	50	51	51	51	9	
8	47	48	31	31	52	50	44	47	46	44	46	48	47	47	8	
7	43	44	26	26	47	46	40	43	42	40	42	44	44	44	7	
6	39	40	21	21	43	42	36	39	37	37	38	41	40	40	6	
5	35	35	15	16	39	38	32	34	33	33	34	38	37	36	5	
4	31	31	10	11	35	34	28	30	28	29	30	34	33	33	4	
3	27	27	5	6	30	30	23	26	24	25	26	31	30	29	3	
2	22	23	0	1	26	26	19	22	20	22	22	28	26	26	2	
1	18	19	0	0	22	22	15	17	15	18	18	25	23	22	1	
0	14	15	0	0	18	18		13							0	

Note. See page 16 for a description of acronyms.

## APPENDIX D (continued)

Sex: Male  
Education: 7-8 years  
Age: 60-64 years  
Race: Caucasian

	Summary scores			Executive functions					Attention/Working memory							
Scaled score	WAIS-R FSIQ	WAIS FSIQ	AIR	CAT ERROR	TRAIL B	THUR FLU	FAS	ANIMALS	WAIS-R DIGIT SPAN	WAIS DIGIT SPAN	PASAT	DIGIT ERROR	SSHOR RHYM	SPCH PERC	Scaled score	
19	96		100	99	100	95	87	95	89						19	
18	91	95	100	95	100	91	83	91	85	84				87	18	
17	87	91	100	91	96	87	80	86			88				17	
16	83	86	100	87	91	83	76	82	77		84				16	
15	79	82	99	83	87	80	73	78	73	74	80	79	72	76	15	
14	74	78	93	79	83	76	69	74	70	71	76		69		14	
13	70	73	88	75	78	72	65	69	66	67	72	73		68	13	
12	66	69	83	71	74	68	62	65	62		69	69	62	64	12	
11	62	65	77	67	69	64	58	61	58	61	65	66		60	11	
10	58	60	72	63	65	61	55	57	54	58	61	62	56	56	10	
9	53	56	67	59	60	57	51	52		54	57	59	53	52	9	
8	49	52	61	55	56	53	47	48	46	51	53	55	50	48	8	
7	45	48	56	51	51	49	44	44	42		49	52	47	44	7	
6	41	43	50	47	47	45	40	39	38	45	46	48	44	40	6	
5	36	39	45	43	42	42	37	35	34	42	42	45	41	36	5	
4	32	35	40	39	38	38	33	31	30		38	42	37	32	4	
3	28	30	34	35	34	34	29	27	27	35	34	38	34	28	3	
2	24	26	29	31	29	30	26	22	23		30	35	31	25	2	
1	19	22	24	27	25	27	22	18		29	26	31	28	21	1	
0		17	18	23				14		25	22	28	25		0	

Scaled score	Speed of information processing				Spatial skills				Verbal/Academic skills								Scaled score
	WAIS-R DIGIT SYMB	WAIS DIGIT SYMB	TRAIL A	DIGIT TIME	WAIS-R BLOCK DESGN	WAIS BLOCK DESGN	TPT TIME	SPAT REL	WAIS-R VOCAB	WAIS VOCAB	APHAS SCRIN	BSTN NAME	BDAE COMP	PIAT RECOG	PIAT COMP	PIAT SPELL	
19	100		100		98		96		99								19
18	100	100	100	89			92		95								18
17	96	100	95	85	90		88		90	96				87	88		17
16	92	97	91	81	86	84	83		86	91		81		84	84	89	16
15	88	93	86	77	82	80	79		82	87				80	80		15
14	84	88	82	72	78	76	75		78	82		73		76	77	81	14
13	80	84	77	68	74	72	71		74	77	79	69		73	73	77	13
12	76	79	73	64	71	68	67		70	73			65	69	69	73	12
11	72	75	69	60	67	64	63	66	65	68	70	61		65	66	69	11
10	68	71	64	56	63	59	59		61	64	66	57		62	62	65	10
9	65	66	60	52	59	55	55	55	57	59	62	53	51	58	58	61	9
8	61	62	55	48	55	51	51		53	55	58	49		54	55	57	8
7	57	58	51	44	51	47	47	43	49	50	53	45	41	51	51	53	7
6	53	53	46	40	47	43	43		45	46	49	41		47	47	49	6
5	49	49	42	36	43	39	38	32	41	41	45	37	32	43	44	45	5
4	45	45	37	32	39	35	34		36	37	41	33		40	40	41	4
3	41	40	33		35	31	30	20	32	32	37	29	22	36	36		3
2	37	36	29		31	27	26	14	28	27	32	25	18	32			2
1	33	32	24		27	22	22	9	24	23	28	21	13				1
0		27				18	18	3		18	24				25	25	0

(continued)

## APPENDIX D (continued)

Sex: Male  
Education: 7-8 years  
Age: 60-64 years  
Race: Caucasian

Scaled score	Verbal episodic memory									Visual episodic memory						Scaled score
	STORY-T1	STORY LEARN	STORY RECALL	STORY LOSS	CVLT-1	CVLT-5	CVLT-TOT	CVLT-SDFR	CVLT-LDFR	TPT MEM	TPT LOC	FIGUR-T1	FIGUR LEARN	FIGUR RECALL	FIGUR LOSS	
19	97		91		96		94				93	100	98	90		19
18	92	97	87				90				89	96	94	86		18
17	88	93	83		86		85			85		91		82		17
16	84	88	79			81	81	78	85			87	86	79		16
15	80	84	75		77		77	75			77					15
14	75	79	71	67	73	73	73	71	76		73	79	78	71		14
13	71	75	67		68		69	67		69		74	74	67	61	13
12	67	70	63	60	64	65	65	63	67		66	70	70		57	12
11	62	66	59	57	59	61	61	59	62	61	62	66	66	60	54	11
10	58	61	55	53	54	57	57	56	58		58	62	62	56	50	10
9	54	57	50	50	50	53	52	52	53	54	54	57	58	52	47	9
8	50	52	46	46	45	49	48	48	49		50	53	54	49	43	8
7	45	48	42	43	41	45	44	44	44	46	46	49	50	45	40	7
6	41	43	38	39		41	40	41	40	42		45	46	41	36	6
5	37	39	34	36	31	37	36	37	35	38	39	41	42	38	33	5
4	33	34	30	33		33	32	33	31	34		36	38	34	29	4
3	28	30	26	29	22	29	28		26	30		32	34	30	26	3
2	24	25	22	26	18	25	24	26	22	26		28	30	26	22	2
1	20		18	22	13	21	19	22	17	22				23		1
0			19			18	15	18								0

Scaled score	Lateralized sensorimotor/Psychomotor comparisons															Scaled score
	TAP DH	TAP NDH	GRIP DH	GRIP NDH	PEG DH	PEG NDH	TPT DH	TPT NDH	TPT BH	SP R	SP L	SP TOT	TFR R	TFR L		
19	95	94	89	88	100	96	91	96	97				86	86	19	
18	91	90	84	83	97	92	87	91	92				82	82	18	
17	86	86	79	78	93	88	83	87	88				79	79	17	
16	82	82	74	73	88	84	79	83	83				75	75	16	
15	78	78	69	68	84	80	75	79	79			72	72	72	15	
14	74	73	63	63	80	76	71	75	75	68			68	68	14	
13	70	69	58	58	76	72	67	70	70		67	66	65	65	13	
12	66	65	53	53	71	68	63	66	66	61			61	61	12	
11	61	61	48	48	67	64	58	62	62		59	59	58	58	11	
10	57	57	43	43	63	60	54	58	57	53	55	56	54	54	10	
9	53	53	38	38	59	56	50	53	53	49	51	52	51	51	9	
8	49	49	33	33	54	52	46	49	48	45	47	49	47	47	8	
7	45	45	28	28	50	48	42	45	44	42	43	46	44	44	7	
6	40	41	23	23	46	44	38	41	40	38	39	43	40	40	6	
5	36	37	18	18	42	40	34	37	35	34	35	39	37	37	5	
4	32	33	13	13	37	36	30	32	31	30	31	36	33	33	4	
3	28	29	7	8	33	32	26	28	27	27	27	33	30	30	3	
2	24	25	2	3	29	28	21	24	22	23	23	29	26	26	2	
1	20	20	0	0	25	24	17	20	18	19	19	26	23	22	1	
0	15	16	0	0	20	20		15							0	

Note. See page 16 for a description of acronyms.

## APPENDIX D (continued)

Sex: Male  
Education: 7-8 years  
Age: 65-69 years  
Race: Caucasian

	Summary scores			Executive functions					Attention/Working memory							
Scaled score	WAIS-R FSIQ	WAIS FSIQ	AIR	CAT ERROR	TRAIL B	THUR FLU	FAS	ANIMALS	WAIS-R DIGIT SPAN	WAIS DIGIT SPAN	PASAT	DIGIT ERROR	SSHOR RHYM	SPCH PERC	Scaled score	
19	94		100	100	100	96	88	96	89						19	
18	90	94	100	97	100	92	84	92	85	84				89	18	
17	86	90	100	93	98	88	80	88			89				17	
16	81	85	100	89	94	84	77	84	77		85				16	
15	77	81	100	84	89	80	73	79	73	74	81	80	72	78	15	
14	73	77	97	80	85	77	70	75	70	71	77		69		14	
13	69	72	92	76	80	73	66	71	66	68	73	73		70	13	
12	64	68	86	72	76	69	62	66	62		69	70	63	66	12	
11	60	64	81	68	71	65	59	62	58	61	66	66		62	11	
10	56	59	76	64	67	61	55	58	54	58	62	63	57	58	10	
9	52	55	70	60	63	58	52	54		55	58	60	54	54	9	
8	47	51	65	56	58	54	48	49	46	52	54	56	50	50	8	
7	43	46	59	52	54	50	44	45	42		50	53	47	46	7	
6	39	42	54	48	49	46	41	41	38	45	46	49	44	42	6	
5	35	38	49	44	45	43	37	37	34	42	43	46	41	38	5	
4	31	33	43	40	40	39	34	32	30		39	42	38	34	4	
3	26	29	38	36	36	35	30	28	27	36	35	39	35	30	3	
2	22	25	33	32	31	31	26	24	23		31	35	32	26	2	
1	18	20	27	28	27	27	23	19		29	27	32	29	23	1	
0		16	22	24				15		26	23	29	26		0	

Scaled score	Speed of information processing				Spatial skills				Verbal/Academic skills								Scaled score
	WAIS-R DIGIT SYMB	WAIS DIGIT SYMB	TRAIL A	DIGIT TIME	WAIS-R BLOCK DESGN	WAIS BLOCK DESGN	TPT TIME	SPAT REL	WAIS-R VOCAB	WAIS VOCAB	APHAS SCRIN	BSTN NAME	BDAE COMP	PIAT RECOG	PIAT COMP	PIAT SPELL	
19	100		100		100		99		97								19
18	100	100	100	91			95		93								18
17	99	100	97	87	92		91		89	96				87	88		17
16	95	99	92	83	88	85	87		85	91		83		83	84	89	16
15	91	95	88	79	84	81	83		81	87				79	81		15
14	88	90	83	75	80	77	78		77	82		75		76	77	81	14
13	84	86	79	71	76	73	74		72	77	79	71		72	73	77	13
12	80	82	75	67	72	69	70		68	73			65	68	70	73	12
11	76	77	70	62	68	65	66	66	64	68	70	63		65	66	69	11
10	72	73	66	58	64	61	62		60	64	66	59		61	62	65	10
9	68	69	61	54	60	57	58	55	56	59	62	55	51	57	59	61	9
8	64	64	57	50	57	52	54		52	55	58	51		54	55	57	8
7	60	60	52	46	53	48	50	43	48	50	54	47	42	50	51	53	7
6	56	56	48	42	49	44	46		43	46	49	43		46	48	49	6
5	52	51	44	38	45	40	42	32	39	41	45	39	32	43	44	45	5
4	48	47	39	34	41	36	38		35	37	41	35		39	40	41	4
3	44	43	35		37	32	33	20	31	32	37	31	22	35	37		3
2	40	38	30		33	28	29	15	27	27	33	27	18	32			2
1	36	34	26		29	24	25	9	23	23	28	23	13				1
0		30				20	21	3		18	24				26	25	0

(continued)

## APPENDIX D (continued)

Sex: Male  
Education: 7-8 years  
Age: 65-69 years  
Race: Caucasian

Scaled score	Verbal episodic memory									Visual episodic memory						Scaled score
	STORY-T1	STORY LEARN	STORY RECALL	STORY LOSS	CVLT-1	CVLT-5	CVLT-TOT	CVLT-SDFR	CVLT-LDFR	TPT MEM	TPT LOC	FIGUR-T1	FIGUR LEARN	FIGUR RECALL	FIGUR LOSS	
19	98		91		97		96				95	100	100	90		19
18	93	99	87				92				91	97	96	86		18
17	89	94	83		88		88			88		93		83		17
16	85	89	79			83	84	81	87			89	88	79		16
15	80	85	75		79		80	77			79					15
14	76	80	71	67	75	75	76	73	78		75	80	80	72		14
13	72	76	67		70		71	69		72		76	76	68	61	13
12	68	71	63	60	65	67	67	66	69		67	72	72		57	12
11	63	67	59	57	61	63	63	62	64	64	63	67	68	60	54	11
10	59	62	55	54	56	59	59	58	60		60	63	64	57	50	10
9	55	58	51	50	52	55	55	54	55	56	56	59	60	53	47	9
8	51	53	47	47	47	52	51	50	51		52	55	56	49	43	8
7	46	49	43	43	43	48	47	47	46	48	48	51	51	45	40	7
6	42	44	39	40		44	43	43	42	44		46	47	42	36	6
5	38	40	35	36	33	40	38	39	37	40	40	42	43	38	33	5
4	33	35	31	33		36	34	35	33	36		38	39	34	29	4
3	29	31	27	29	24	32	30		29	32		34	35	31	26	3
2	25	26	23	26	20	28	26	28	24	28		29	31	27	22	2
1	21		19	22	15	24	22	24	20	24				23		1
0			19			20	18	20								0

Scaled score	Lateralized sensorimotor/Psychomotor comparisons															Scaled score
	TAP DH	TAP NDH	GRIP DH	GRIP NDH	PEG DH	PEG NDH	TPT DH	TPT NDH	TPT BH	SP R	SP L	SP TOT	TFR R	TFR L		
19	96	95	91	90	100	99	94	98	99				86	86	19	
18	92	91	86	85	100	95	90	94	95				82	83	18	
17	88	87	81	80	96	91	86	90	90				79	79	17	
16	84	83	76	75	91	87	82	85	86				75	76	16	
15	80	79	71	70	87	83	77	81	82			74	72	72	15	
14	75	75	66	65	83	79	73	77	77	70			68	68	14	
13	71	71	61	60	79	75	69	73	73		68	67	65	65	13	
12	67	67	56	55	74	71	65	68	69	62			61	61	12	
11	63	62	50	50	70	67	61	64	64		60	61	58	58	11	
10	59	58	45	45	66	63	57	60	60	55	56	57	54	54	10	
9	55	54	40	40	62	59	53	56	55	51	52	54	51	51	9	
8	50	50	35	35	57	55	49	52	51	47	48	51	47	47	8	
7	46	46	30	30	53	51	44	47	47	43	44	48	44	44	7	
6	42	42	25	26	49	47	40	43	42	39	40	44	40	40	6	
5	38	38	20	21	45	43	36	39	38	36	36	41	37	37	5	
4	34	34	15	16	40	39	32	35	34	32	32	38	33	33	4	
3	29	30	10	11	36	35	28	30	29	28	28	34	30	30	3	
2	25	26	5	6	32	31	24	26	25	24	24	31	26	26	2	
1	21	22	0	1	28	27	20	22	20	21	20	28	23	23	1	
0	17	18	0	0	23	23		18							0	

Note. See page 16 for a description of acronyms.



## APPENDIX D (continued)

Sex: Male  
Education: 7-8 years  
Age: 70-74 years  
Race: Caucasian

Summary scores				Executive functions					Attention/Working memory						Scaled score
Scaled score	WAIS-R FSIQ	WAIS FSIQ	AIR	CAT ERROR	TRAIL B	THUR FLU	FAS	ANIMALS	WAIS-R DIGIT SPAN	WAIS DIGIT SPAN	PASAT	DIGIT ERROR	SSHOR RHYM	SPCH PERC	
19	92		100	100	100	96	88	98	89						19
18	88	93	100	98	100	93	85	93	85	85				92	18
17	84	89	100	94	100	89	81	89			89				17
16	80	84	100	90	96	85	77	85	77		86				16
15	75	80	100	86	92	81	74	81	73	75	82	81	73	80	15
14	71	76	100	82	87	78	70	76	70	72	78		70		14
13	67	71	95	78	83	74	67	72	66	68	74	74		72	13
12	63	67	90	74	78	70	63	68	62		70	71	64	68	12
11	59	63	85	70	74	66	59	64	58	62	66	67		64	11
10	54	58	79	66	69	62	56	59	54	59	63	64	57	60	10
9	50	54	74	62	65	59	52	55		55	59	60	54	56	9
8	46	50	69	58	61	55	49	51	46	52	55	57	51	52	8
7	42	45	63	54	56	51	45	47	42		51	53	48	48	7
6	37	41	58	50	52	47	41	42	38	46	47	50	45	44	6
5	33	37	53	46	47	43	38	38	34	43	43	46	42	41	5
4	29	32	47	42	43	40	34	34	30		40	43	39	37	4
3	25	28	42	38	38	36	31	29	27	36	36	40	35	33	3
2	20	24	36	34	34	32	27	25	23		32	36	32	29	2
1	16	19	31	30	29	28	23	21		30	28	33	29	25	1
0		15	26	26				17		26	24	29	26		0

Scaled score	Speed of information processing				Spatial skills				Verbal/Academic skills								Scaled score
	WAIS-R DIGIT SYMB	WAIS DIGIT SYMB	TRAIL A	DIGIT TIME	WAIS-R BLOCK DESGN	WAIS BLOCK DESGN	TPT TIME	SPAT REL	WAIS-R VOCAB	WAIS VOCAB	APHAS SCRIN	BSTN NAME	BDAE COMP	PIAT RECOG	PIAT COMP	PIAT SPELL	
19	100		100		100		100		96								19
18	100	100	100	93			99		92								18
17	100	100	98	89	94		94		88	96				86	88		17
16	99	100	94	85	90	87	90		84	91		85		82	85	88	16
15	95	97	90	81	86	82	86		79	87				78	81		15
14	91	93	85	77	82	78	82		75	82		77		75	77	81	14
13	87	88	81	73	78	74	78		71	77	79	73		71	74	77	13
12	83	84	76	69	74	70	74		67	73			66	67	70	73	12
11	79	80	72	65	70	66	70	67	63	68	71	65		64	66	69	11
10	75	75	67	61	66	62	66		59	64	66	61		60	63	65	10
9	71	71	63	57	62	58	62	55	55	59	62	57	51	56	59	61	9
8	67	67	58	53	58	54	58		50	55	58	53		53	55	57	8
7	63	62	54	49	54	50	54	44	46	50	54	49	42	49	52	53	7
6	59	58	50	45	50	45	50		42	46	50	45		45	48	49	6
5	55	54	45	41	46	41	45	32	38	41	45	41	32	42	44	45	5
4	51	49	41	37	43	37	41		34	37	41	37		38	41	41	4
3	47	45	36		39	33	37	21	30	32	37	34	22	34	37		3
2	43	41	32		35	29	33	15	25	27	33	30	18	31			2
1	39	36	27		31	25	29	9	21	23	29	26	13				1
0		32				21	25	4		18	24				26	25	0

(continued)

## APPENDIX D (continued)

Sex: Male  
Education: 7-8 years  
Age: 70-74 years  
Race: Caucasian

Scaled score	Verbal episodic memory									Visual episodic memory						Scaled score
	STORY-T1	STORY LEARN	STORY RECALL	STORY LOSS	CVLT-1	CVLT-5	CVLT-TOT	CVLT-SDFR	CVLT-LDFR	TPT MEM	TPT LOC	FIGUR-T1	FIGUR LEARN	FIGUR RECALL	FIGUR LOSS	
19	99		92		100		99				96	100	100	91		19
18	94	100	88				95				92	99	98	87		18
17	90	95	84		90		91			90		94		83		17
16	86	91	80			86	87	83	89			90	89	80		16
15	81	86	75		81		83	80			81					15
14	77	81	71	68	77	78	78	76	80		77	82	81	72		14
13	73	77	67		72		74	72		74		78	77	68	61	13
12	69	72	63	61	68	70	70	68	71		69	73	73		58	12
11	64	68	59	57	63	66	66	64	67	66	65	69	69	61	54	11
10	60	63	55	54	58	62	62	61	62		61	65	65	57	51	10
9	56	59	51	50	54	58	58	57	58	58	57	61	61	53	47	9
8	52	54	47	47	49	54	54	53	53		53	56	57	50	43	8
7	47	50	43	43	45	50	50	49	49	50	50	52	53	46	40	7
6	43	45	39	40		46	45	46	44	46		48	49	42	36	6
5	39	41	35	36	35	42	41	42	40	42	42	44	45	38	33	5
4	34	36	31	33		38	37	38	36	38		39	41	35	29	4
3	30	32	27	29	26	34	33		31	34		35	37	31	26	3
2	26	27	23	26	22	30	29	30	27	30		31	33	27	22	2
1	22		19	22	17	27	25	27	22	26				24		1
0			19			23	21	23								0

Scaled score	Lateralized sensorimotor/Psychomotor comparisons															Scaled score
	TAP DH	TAP NDH	GRIP DH	GRIP NDH	PEG DH	PEG NDH	TPT DH	TPT NDH	TPT BH	SP R	SP L	SP TOT	TFR R	TFR L		
19	98	96	94	93	100	100	97	100	100				86	86	19	
18	94	92	88	88	100	98	93	96	98				82	83	18	
17	90	88	83	83	99	94	88	92	93				79	79	17	
16	86	84	78	78	95	90	84	88	89				75	76	16	
15	82	80	73	73	90	86	80	84	85			76	72	72	15	
14	77	76	68	68	86	82	76	79	80	71			68	69	14	
13	73	72	63	63	82	78	72	75	76		69	69	65	65	13	
12	69	68	58	58	77	74	68	71	71	64			61	62	12	
11	65	64	53	53	73	70	64	67	67		61	63	58	58	11	
10	61	60	48	48	69	66	60	63	63	56	57	59	54	54	10	
9	56	55	43	43	65	62	55	58	58	53	53	56	51	51	9	
8	52	51	38	38	60	58	51	54	54	49	49	53	47	47	8	
7	48	47	32	33	56	54	47	50	49	45	45	50	44	44	7	
6	44	43	27	28	52	50	43	46	45	41	41	46	40	40	6	
5	40	39	22	23	48	46	39	42	41	37	37	43	37	37	5	
4	36	35	17	18	43	42	35	37	36	34	33	40	33	33	4	
3	31	31	12	13	39	38	31	33	32	30	29	36	30	30	3	
2	27	27	7	8	35	34	27	29	28	26	25	33	26	26	2	
1	23	23	2	3	31	30	23	25	23	22	21	30	23	23	1	
0	19	19	0	0	26	26		20							0	

Note. See page 16 for a description of acronyms.

## APPENDIX D (continued)

Sex: Male  
Education: 7-8 years  
Age: 75-79 years  
Race: Caucasian

Summary scores				Executive functions					Attention/Working memory						Scaled score
Scaled score	WAIS-R FSIQ	WAIS FSIQ	AIR	CAT ERROR	TRAIL B	THUR FLU	FAS	ANIMALS	WAIS-R DIGIT SPAN	WAIS DIGIT SPAN	PASAT	DIGIT ERROR	SSHOR RHYM	SPCH PERC	
19	91		100	100	100	97	89	99	89						19
18	87	92	100	100	100	94	85	95	85	85				94	18
17	82	87	100	96	100	90	82	91			90				17
16	78	83	100	92	99	86	78	86	77		87				16
15	74	79	100	88	94	82	74	82	73	75	83	82	73	82	15
14	70	74	100	84	90	78	71	78	70	72	79		70		14
13	65	70	100	80	85	75	67	74	66	69	75	75		75	13
12	61	66	94	76	81	71	64	69	62		71	71	64	71	12
11	57	62	89	72	77	67	60	65	58	62	67	68		67	11
10	53	57	84	68	72	63	56	61	54	59	64	64	58	63	10
9	48	53	78	64	68	59	53	56		56	60	61	55	59	9
8	44	49	73	60	63	56	49	52	46	53	56	58	52	55	8
7	40	44	67	56	59	52	46	48	42		52	54	49	51	7
6	36	40	62	52	54	48	42	44	38	46	48	51	45	47	6
5	32	36	57	48	50	44	38	39	34	43	44	47	42	43	5
4	27	31	51	44	45	40	35	35	30		41	44	39	39	4
3	23	27	46	40	41	37	31	31	27	37	37	40	36	35	3
2	19	23	41	36	36	33	28	27	23		33	37	33	31	2
1	15	18	35	32	32	29	24	22		30	29	33	30	27	1
0		14	30	28				18		27	25	30	27		0

Speed of information processing					Spatial skills				Verbal/Academic skills								Scaled score
Scaled score	WAIS-R DIGIT SYMB	WAIS DIGIT SYMB	TRAIL A	DIGIT TIME	WAIS-R BLOCK DESGN	WAIS BLOCK DESGN	TPT TIME	SPAT REL	WAIS-R VOCAB	WAIS VOCAB	APHAS SCRIN	BSTN NAME	BDAE COMP	PIAT RECOG	PIAT COMP	PIAT SPELL	
19	100		100		100		100		95								19
18	100	100	100	96			100		91								18
17	100	100	100	92	96		99		86	96				85	89		17
16	100	100	96	88	92	88	95		82	91		87		81	85	88	16
15	98	99	91	84	88	84	91		78	87				78	81		15
14	94	95	87	80	84	80	87		74	82		79		74	78	80	14
13	90	91	82	76	80	75	82		70	77	79	75		70	74	76	13
12	86	86	78	72	76	71	78		66	73			66	67	70	72	12
11	82	82	73	68	72	67	74	67	62	68	71	67		63	67	68	11
10	78	78	69	64	68	63	70		57	64	67	63		59	63	64	10
9	74	73	65	60	64	59	66	56	53	59	62	60	51	56	59	61	9
8	70	69	60	56	60	55	62		49	55	58	56		52	56	57	8
7	66	65	56	52	56	51	58	44	45	50	54	52	42	48	52	53	7
6	62	60	51	48	52	47	54		41	46	50	48		45	48	49	6
5	58	56	47	44	48	43	50	33	37	41	46	44	32	41	45	45	5
4	54	52	42	40	44	38	46		32	37	41	40		37	41	41	4
3	50	47	38		40	34	42	21	28	32	37	36	22	34	37		3
2	46	43	33		36	30	37	15	24	27	33	32	18	30			2
1	42	39	29		32	26	33	10	20	23	29	28	13				1
0		34				22	29	4		18	25				26	25	0

(continued)

## APPENDIX D (continued)

Sex: Male  
Education: 7-8 years  
Age: 75-79 years  
Race: Caucasian

Scaled score	Verbal episodic memory									Visual episodic memory						Scaled score
	STORY-T1	STORY LEARN	STORY RECALL	STORY LOSS	CVLT-1	CVLT-5	CVLT-TOT	CVLT-SDFR	CVLT-LDFR	TPT MEM	TPT LOC	FIGUR-T1	FIGUR LEARN	FIGUR RECALL	FIGUR LOSS	
19	99		92		100		100				98	100	100	91		19
18	95	100	88				98				94	100	99	87		18
17	91	96	84		93		94			93		96		84		17
16	87	92	80			89	90	86	92			92	91	80		16
15	82	87	76		84		86	83			82					15
14	78	83	72	68	79	81	82	79	83		78	83	83	73		14
13	74	78	68		75		78	75		77		79	79	69	61	13
12	70	73	64	61	70	73	74	71	74		71	75	75		58	12
11	65	69	60	57	65	69	69	67	70	69	67	71	71	61	54	11
10	61	64	56	54	61	65	65	64	65		63	66	67	58	51	10
9	57	60	52	50	56	61	61	60	61	61	59	62	63	54	47	9
8	52	55	48	47	52	57	57	56	56		55	58	59	50	44	8
7	48	51	44	43	47	53	53	52	52	53	51	54	55	46	40	7
6	44	46	39	40		49	49	49	47	49		49	51	43	37	6
5	40	42	35	36	38	45	45	45	43	45	43	45	47	39	33	5
4	35	37	31	33		41	41	41	38	41		41	43	35	29	4
3	31	33	27	30	29	38	36		34	37		37	39	32	26	3
2	27	28	23	26	24	34	32	34	29	33		32	34	28	22	2
1	23		19	23	20	30	28	30	25	29				24		1
0				19		26	24	26								0

Scaled score	Lateralized sensorimotor/Psychomotor comparisons															Scaled score
	TAP DH	TAP NDH	GRIP DH	GRIP NDH	PEG DH	PEG NDH	TPT DH	TPT NDH	TPT BH	SP R	SP L	SP TOT	TFR R	TFR L		
19	100	97	96	95	100	100	100	100	100				86	86	19	
18	96	93	91	90	100	100	96	99	100				83	83	18	
17	92	89	86	85	100	97	92	95	96				79	79	17	
16	88	85	81	80	98	93	88	91	92				75	76	16	
15	84	81	76	75	94	89	83	86	88			78	72	72	15	
14	79	77	71	70	89	85	79	82	83	73			68	69	14	
13	75	73	65	65	85	81	75	78	79		70	72	65	65	13	
12	71	69	60	60	81	77	71	74	74	66			61	62	12	
11	67	65	55	55	77	73	67	70	70		62	65	58	58	11	
10	63	61	50	50	72	69	63	65	66	58	58	62	54	55	10	
9	59	57	45	45	68	65	59	61	61	55	54	59	51	51	9	
8	54	52	40	40	64	61	55	57	57	51	50	55	47	48	8	
7	50	48	35	35	60	57	50	53	53	47	46	52	44	44	7	
6	46	44	30	30	55	53	46	48	48	43	42	49	40	40	6	
5	42	40	25	25	51	49	42	44	44	39	38	45	37	37	5	
4	38	36	20	20	47	45	38	40	39	36	34	42	33	33	4	
3	33	32	14	16	43	41	34	36	35	32	30	39	30	30	3	
2	29	28	9	11	38	37	30	32	31	28	26	36	26	26	2	
1	25	24	4	6	34	33	26	27	26	24	22	32	23	23	1	
0	21	20	0	1	30	29		23							0	

Note. See page 16 for a description of acronyms.

## APPENDIX D (continued)

Sex: Male

Education: 7-8 years

Age: 80-85 years

Race: Caucasian

Summary scores				Executive functions					Attention/Working memory						Scaled score
Scaled score	WAIS-R FSIQ	WAIS FSIQ	AIR	CAT ERROR	TRAIL B	THUR FLU	FAS	ANIMALS	WAIS-R DIGIT SPAN	WAIS DIGIT SPAN	PASAT	DIGIT ERROR	SSHOR RHYM	SPCH PERC	
19	91		100	100	100	98	89	100	89						19
18	87	91	100	100	100	94	86	96	85	86				98	18
17	82	86	100	98	100	91	82	92			91				17
16	78	82	100	94	100	87	79	88	77		88				16
15	74	78	100	90	97	83	75	84	73	76	84	82	74	86	15
14	70	73	100	86	93	79	72	79	70	73	80		71		14
13	65	69	100	82	89	75	68	75	66	69	76	76		78	13
12	61	65	99	78	84	72	64	71	62		72	72	65	74	12
11	57	60	94	74	80	68	61	67	58	63	68	69		70	11
10	53	56	88	70	75	64	57	62	54	60	65	65	59	66	10
9	48	52	83	66	71	60	54	58		56	61	62	55	62	9
8	44	47	78	62	66	56	50	54	46	53	57	58	52	58	8
7	40	43	72	58	62	53	46	49	42		53	55	49	54	7
6	36	39	67	54	57	49	43	45	38	47	49	51	46	50	6
5	32	34	62	50	53	45	39	41	34	44	45	48	43	46	5
4	27	30	56	46	48	41	36	37	30		42	45	40	43	4
3	23	26	51	42	44	38	32	32	27	37	38	41	37	39	3
2	19	21	46	38	40	34	28	28	23		34	38	34	35	2
1	15	17	40	34	35	30	25	24		31	30	34	30	31	1
0		13	35	30				20		27	26	31	27		0

Scaled score	Speed of information processing				Spatial skills				Verbal/Academic skills								Scaled score
	WAIS-R DIGIT SYMB	WAIS DIGIT SYMB	TRAIL A	DIGIT TIME	WAIS-R BLOCK DESGN	WAIS BLOCK DESGN	TPT TIME	SPAT REL	WAIS-R VOCAB	WAIS VOCAB	APHAS SCRIN	BSTN NAME	BDAE COMP	PIAT RECOG	PIAT COMP	PIAT SPELL	
19	100		100		100		100		95								19
18	100	100	100	100			100		91								18
17	100	100	100	96	96		100		86	96				84	89		17
16	100	100	97	92	92	89	100		82	91		90		80	85	88	16
15	98	100	93	88	88	85	96		78	87				76	82		15
14	94	98	89	84	84	81	92		74	82		82		73	78	80	14
13	90	93	84	80	80	77	88		70	77	80	78		69	74	76	13
12	86	89	80	76	76	73	84		66	73			66	65	71	72	12
11	82	85	75	72	72	69	80	68	62	68	71	70		62	67	68	11
10	78	80	71	68	68	64	76		57	64	67	66		58	63	64	10
9	74	76	66	63	64	60	71	56	53	59	63	62	51	54	60	60	9
8	70	72	62	59	60	56	67		49	55	58	58		51	56	56	8
7	66	67	57	55	56	52	63	45	45	50	54	54	42	47	52	52	7
6	62	63	53	51	52	48	59		41	46	50	51		43	49	48	6
5	58	58	49	47	48	44	55	33	37	41	46	47	32	40	45	44	5
4	54	54	44	43	44	40	51		32	37	42	43		36	41	41	4
3	50	50	40		40	36	47	22	28	32	37	39	23	32	38		3
2	46	45	35		36	32	43	16	24	27	33	35	18	29			2
1	42	41	31		32	27	39	10	20	23	29	31	13				1
0		37				23	35	4		18	25				27	25	0

(continued)

## APPENDIX D (continued)

Sex: Male  
Education: 7-8 years  
Age: 80-85 years  
Race: Caucasian

Scaled score	Verbal episodic memory									Visual episodic memory						Scaled score
	STORY-T1	STORY LEARN	STORY RECALL	STORY LOSS	CVLT-1	CVLT-5	CVLT-TOT	CVLT-SDFR	CVLT-LDFR	TPT MEM	TPT LOC	FIGUR-T1	FIGUR LEARN	FIGUR RECALL	FIGUR LOSS	
19	100		92		100		100				100	100	100	92		19
18	96	100	88				100				96	100	100	88		18
17	92	97	84		96		98			97		98		84		17
16	88	93	80			93	94	90	96			93	93	81		16
15	83	88	76		87		90	86			84					15
14	79	84	72	68	82	85	86	83	87		80	85	85	73		14
13	75	79	68		78		82	79		81		81	81	69	61	13
12	71	75	64	61	73	77	78	75	78		72	77	77		58	12
11	66	70	60	57	69	73	74	71	74	73	68	72	73	62	54	11
10	62	66	56	54	64	69	69	68	69		65	68	69	58	51	10
9	58	61	52	51	59	65	65	64	65	65	61	64	65	54	47	9
8	54	57	48	47	55	61	61	60	60		57	60	61	51	44	8
7	49	52	44	44	50	57	57	56	56	57	53	55	56	47	40	7
6	45	48	40	40		53	53	52	51	53		51	52	43	37	6
5	41	43	36	37	41	49	49	49	47	49	45	47	48	40	33	5
4	36	38	32	33		45	45	45	42	45		43	44	36	30	4
3	32	34	28	30	32	41	41		38	41		38	40	32	26	3
2	28	29	24	26	27	37	36	37	33	37		34	36	28	23	2
1	24		20	23	23	34	32	34	29	33				25		1
0				19		30	28	30								0

Scaled score	Lateralized sensorimotor/Psychomotor comparisons															Scaled score
	TAP DH	TAP NDH	GRIP DH	GRIP NDH	PEG DH	PEG NDH	TPT DH	TPT NDH	TPT BH	SP R	SP L	SP TOT	TFR R	TFR L		
19	100	98	99	98	100	100	100	100	100				86	86	19	
18	99	94	94	93	100	100	100	100	100				83	83	18	
17	95	90	88	88	100	100	96	98	100				79	79	17	
16	91	86	83	83	100	96	92	94	96				76	76	16	
15	86	82	78	78	98	92	87	90	91			81	72	72	15	
14	82	78	73	73	93	88	83	85	87	76			69	69	14	
13	78	74	68	68	89	84	79	81	82		71	75	65	65	13	
12	74	70	63	63	85	80	75	77	78	68			62	62	12	
11	70	66	58	58	81	76	71	73	74		63	68	58	58	11	
10	65	62	53	53	76	72	67	69	69	61	59	65	55	55	10	
9	61	58	48	48	72	68	63	64	65	57	55	61	51	51	9	
8	57	54	43	43	68	64	59	60	60	53	51	58	47	48	8	
7	53	50	37	38	64	60	55	56	56	50	47	55	44	44	7	
6	49	45	32	33	59	56	50	52	52	46	43	52	40	41	6	
5	45	41	27	28	55	52	46	48	47	42	39	48	37	37	5	
4	40	37	22	23	51	48	42	43	43	38	35	45	33	34	4	
3	36	33	17	18	47	44	38	39	39	34	31	42	30	30	3	
2	32	29	12	13	42	40	34	35	34	31	27	38	26	26	2	
1	28	25	7	8	38	36	30	31	30	27	23	35	23	23	1	
0	24	21	2	3	34	32		26							0	

Note. See page 16 for a description of acronyms.

## APPENDIX D (continued)

Sex: Male  
Education: 9-11 years  
Age: 20-34 years  
Race: Caucasian

	Summary scores			Executive functions					Attention/Working memory							
Scaled score	WAIS-R FSIQ	WAIS FSIQ	AIR	CAT ERROR	TRAIL B	THUR FLU	FAS	ANIMALS	WAIS-R DIGIT SPAN	WAIS DIGIT SPAN	PASAT	DIGIT ERROR	SSHOR RHYM	SPCH PERC	Scaled score	
19	95		95	84	88	89	80	83	87						19	
18	90	97	90	80	83	85	77	79	83	78				78	18	
17	86	92	85	76	79	81	73	74			79				17	
16	82	88	79	72	74	77	70	70	76		75				16	
15	78	84	74	68	70	74	66	66	72	68	71	68	64	67	15	
14	73	79	69	64	65	70	62	61	68	65	67		61		14	
13	69	75	63	60	61	66	59	57	64	61	63	61		59	13	
12	65	71	58	56	56	62	55	53	60		60	58	54	55	12	
11	61	66	53	52	52	58	52	49	56	55	56	55		51	11	
10	56	62	47	48	47	55	48	44	52	52	52	51	48	47	10	
9	52	58	42	44	43	51	44	40		49	48	48	45	43	9	
8	48	53	36	40	39	47	41	36	44	45	44	44	42	39	8	
7	44	49	31	36	34	43	37	32	40		40	41	39	35	7	
6	40	45	26	32	30	39	34	27	37	39	37	37	36	31	6	
5	35	40	20	28	25	36	30	23	33	36	33	34	33	27	5	
4	31	36	15	24	21	32	27	19	29		29	30	29	23	4	
3	27	32	10	20	16	28	23	15	25	29	25	27	26	19	3	
2	23	27	4	16	12	24	19	10	21		21	24	23	16	2	
1	18	23	0	12	7	20	16	6		23	17	20	20	12	1	
0		19	0	8				2		19	13	17	17		0	

Speed of information processing					Spatial skills				Verbal/Academic skills								Scaled score
Scaled score	WAIS-R DIGIT SYMB	WAIS DIGIT SYMB	TRAIL A	DIGIT TIME	WAIS-R BLOCK DESGN	WAIS BLOCK DESGN	TPT TIME	SPAT REL	WAIS-R VOCAB	WAIS VOCAB	APHAS SCRIN	BSTN NAME	BDAE COMP	PIAT RECOG	PIAT COMP	PIAT SPELL	
19	93		87		89		83		97								19
18	89	91	82	81			79		93								18
17	85	87	78	77	81		75		88	90				85	81		17
16	81	82	74	72	77	73	71		84	85		77		81	78	84	16
15	77	78	69	68	73	69	67		80	80				77	74		15
14	73	74	65	64	69	65	63		76	76		69		74	70	76	14
13	69	69	60	60	65	61	59		72	71	68	65		70	67	72	13
12	65	65	56	56	61	56	54		68	67			62	66	63	68	12
11	61	61	51	52	57	52	50	58	63	62	60	57		63	59	64	11
10	57	56	47	48	53	48	46		59	58	56	54		59	56	60	10
9	53	52	42	44	49	44	42	46	55	53	52	50	48	55	52	56	9
8	49	48	38	40	45	40	38		51	49	47	46		52	48	52	8
7	45	43	34	36	41	36	34	35	47	44	43	42	38	48	45	48	7
6	41	39	29	32	37	32	30		43	40	39	38		44	41	44	6
5	37	35	25	28	33	28	26	23	38	35	35	34	29	41	37	40	5
4	33	30	20	24	29	24	22		34	30	31	30		37	34	36	4
3	29	26	16		25	19	18	12	30	26	26	26	19	33	30		3
2	25	22	11		21	15	14	6	26	21	22	22	14	30			2
1	21	17	7		17	11	9	0	22	17	18	18	10				1
0		13				7	5	0		12	14				19	20	0

(continued)

## APPENDIX D (continued)

Sex: Male  
Education: 9-11 years  
Age: 20-34 years  
Race: Caucasian

Scaled score	Verbal episodic memory									Visual episodic memory						Scaled score
	STORY-T1	STORY LEARN	STORY RECALL	STORY LOSS	CVLT-1	CVLT-5	CVLT-TOT	CVLT-SDFR	CVLT-LDFR	TPT MEM	TPT LOC	FIGUR-T1	FIGUR LEARN	FIGUR RECALL	FIGUR LOSS	
19	89		86		88		83				80	86	84	84		19
18	85	90	82				79				76	82	80	81		18
17	81	85	78		79		75			75		77		77		17
16	76	81	74			70	71	68	75			73	72	73		16
15	72	76	70		70		66	65			65					15
14	68	72	66	65	65	62	62	61	66		61	65	64	66		14
13	64	67	62		60		58	57		60		60	60	62	60	13
12	59	63	58	58	56	54	54	53	57		53	56	56		56	12
11	55	58	54	55	51	51	50	49	52	52	49	52	52	55	53	11
10	51	53	50	51	47	47	46	46	48		45	48	48	51	49	10
9	47	49	46	48	42	43	42	42	43	44	41	43	44	47	46	9
8	42	44	42	44	38	39	37	38	39		38	39	40	43	42	8
7	38	40	38	41	33	35	33	34	35	36	34	35	36	40	39	7
6	34	35	34	37		31	29	31	30	32		31	32	36	35	6
5	29	31	30	34	24	27	25	27	26	28	26	27	28	32	32	5
4	25	26	26	30		23	21	23	21	24		22	24	29	28	4
3	21	22	22	27	15	19	17		17	20		18	19	25	25	3
2	17	17	18	23	10	15	13	15	12	16		14	15	21	21	2
1	12		14	20	5	11	9	12	8	12				17		1
0				17		7	4	8								0

Scaled score	Lateralized sensorimotor/Psychomotor comparisons															Scaled score
	TAP DH	TAP NDH	GRIP DH	GRIP NDH	PEG DH	PEG NDH	TPT DH	TPT NDH	TPT BH	SP R	SP L	SP TOT	TFR R	TFR L		
19	85	82	82	80	86	83	82	83	82				88	87	19	
18	81	78	77	75	81	79	78	78	78				84	84	18	
17	76	74	72	70	77	75	74	74	74				81	80	17	
16	72	70	66	65	73	71	70	70	69				77	77	16	
15	68	66	61	60	69	67	66	66	65			65	74	73	15	
14	64	62	56	55	64	63	62	62	60	62			70	70	14	
13	60	58	51	50	60	59	58	57	56		59	58	67	66	13	
12	56	54	46	45	56	55	54	53	52	54			63	63	12	
11	51	50	41	40	52	51	49	49	47		51	52	60	59	11	
10	47	46	36	35	47	47	45	45	43	47	47	49	56	56	10	
9	43	41	31	30	43	43	41	40	39	43	43	45	53	52	9	
8	39	37	26	25	39	39	37	36	34	39	39	42	49	49	8	
7	35	33	21	20	35	35	33	32	30	35	36	39	46	45	7	
6	30	29	16	15	30	31	29	28	25	32	32	35	42	42	6	
5	26	25	10	10	26	27	25	24	21	28	28	32	39	38	5	
4	22	21	5	6	22	23	21	19	17	24	24	29	35	35	4	
3	18	17	0	1	17	19	16	15	12	20	20	26	31	31	3	
2	14	13	0	0	13	15	12	11	8	16	16	22	28	27	2	
1	10	9	0	0	9	11	8	7	3	13	12	19	24	24	1	
0	5	5	0	0	5	7		2							0	

Note. See page 16 for a description of acronyms.



## APPENDIX D (continued)

Sex: Male  
Education: 9-11 years  
Age: 35-39 years  
Race: Caucasian

Summary scores				Executive functions					Attention/Working memory						Scaled score
Scaled score	WAIS-R FSIQ	WAIS FSIQ	AIR	CAT ERROR	TRAIL B	THUR FLU	FAS	ANIMALS	WAIS-R DIGIT SPAN	WAIS DIGIT SPAN	PASAT	DIGIT ERROR	SSHOR RHYM	SPCH PERC	
19	93		99	87	90	90	82	86	87						19
18	89	94	94	83	85	87	78	81	84	79				79	18
17	84	90	88	79	81	83	74	77			80				17
16	80	86	83	75	76	79	71	73	76		77				16
15	76	81	78	71	72	75	67	69	72	69	73	70	65	68	15
14	72	77	72	67	68	71	64	64	68	66	69		62		14
13	68	73	67	63	63	68	60	60	64	62	65	63		60	13
12	63	68	61	59	59	64	57	56	60		61	59	56	56	12
11	59	64	56	55	54	60	53	51	56	56	57	56		52	11
10	55	60	51	51	50	56	49	47	52	53	54	53	49	48	10
9	51	55	45	47	45	53	46	43		50	50	49	46	44	9
8	46	51	40	43	41	49	42	39	44	46	46	46	43	40	8
7	42	47	35	39	36	45	39	34	41		42	42	40	36	7
6	38	43	29	35	32	41	35	30	37	40	38	39	37	32	6
5	34	38	24	31	27	37	31	26	33	37	34	35	34	28	5
4	29	34	19	27	23	34	28	22	29		31	32	31	24	4
3	25	30	13	23	19	30	24	17	25	30	27	28	27	20	3
2	21	25	8	19	14	26	21	13	21		23	25	24	16	2
1	17	21	2	15	10	22	17	9		24	19	22	21	13	1
0		17	0	11				5		20	15	18	18		0

Scaled score	Speed of information processing				Spatial skills				Verbal/Academic skills								Scaled score
	WAIS-R DIGIT SYMB	WAIS DIGIT SYMB	TRAIL A	DIGIT TIME	WAIS-R BLOCK DESGN	WAIS BLOCK DESGN	TPT TIME	SPAT REL	WAIS-R VOCAB	WAIS VOCAB	APHAS SCRIN	BSTN NAME	BDAE COMP	PIAT RECOG	PIAT COMP	PIAT SPELL	
19	96		90		91		85		95								19
18	93	90	86	82			81		91								18
17	89	86	81	78	83		76		87	90				84	82		17
16	85	82	77	74	79	75	72		83	85		75		81	78	84	16
15	81	77	72	69	75	71	68		79	80				77	75		15
14	77	73	68	65	71	67	64		75	76		67		73	71	76	14
13	73	69	64	61	67	63	60		70	71	69	63		70	67	72	13
12	69	64	59	57	63	59	56		66	67			62	66	64	68	12
11	65	60	55	53	59	55	52	59	62	62	60	55		62	60	64	11
10	61	55	50	49	55	51	48		58	58	56	52		59	56	60	10
9	57	51	46	45	51	47	44	47	54	53	52	48	48	55	53	56	9
8	53	47	41	41	47	42	40		50	49	48	44		51	49	52	8
7	49	42	37	37	43	38	36	36	45	44	44	40	38	48	45	48	7
6	45	38	32	33	39	34	32		41	40	39	36		44	42	44	6
5	41	34	28	29	35	30	27	24	37	35	35	32	29	40	38	40	5
4	37	29	24	25	31	26	23		33	30	31	28		37	34	36	4
3	33	25	19		27	22	19	13	29	26	27	24	19	33	31		3
2	29	21	15		23	18	15	7	25	21	23	20	14	29			2
1	25	16	10		19	14	11	1	21	17	18	16	10				1
0		12				10	7	0		12	14				20	20	0

(continued)

## APPENDIX D (continued)

Sex: Male  
Education: 9-11 years  
Age: 35-39 years  
Race: Caucasian

Scaled score	Verbal episodic memory									Visual episodic memory						Scaled score
	STORY-T1	STORY LEARN	STORY RECALL	STORY LOSS	CVLT-1	CVLT-5	CVLT-TOT	CVLT-SDFR	CVLT-LDFR	TPT MEM	TPT LOC	FIGUR-T1	FIGUR LEARN	FIGUR RECALL	FIGUR LOSS	
19	91		87		89		84				84	89	87	85		19
18	87	92	83				80				80	85	83	82		18
17	83	87	79		80		76			77		80		78		17
16	78	83	75			71	72	69	76			76	75	74		16
15	74	78	71		71		68	66			68					15
14	70	74	67	65	66	64	63	62	67		64	68	67	67		14
13	65	69	63		61		59	58		61		64	63	63	60	13
12	61	65	59	59	57	56	55	54	58		56	59	59		56	12
11	57	60	55	55	52	52	51	51	54	53	52	55	55	56	53	11
10	53	56	51	52	48	48	47	47	49		49	51	51	52	49	10
9	48	51	47	48	43	44	43	43	45	45	45	47	47	48	46	9
8	44	47	43	45	38	40	39	39	40		41	42	43	44	42	8
7	40	42	39	41	34	36	35	36	36	37	37	38	39	41	39	7
6	36	38	35	38		32	30	32	31	33		34	35	37	35	6
5	31	33	31	34	25	28	26	28	27	29	29	30	31	33	32	5
4	27	28	27	31		24	22	24	22	25		25	27	30	28	4
3	23	24	23	27	16	20	18		18	21		21	23	26	25	3
2	18	19	19	24	11	16	14	17	13	17		17	19	22	21	2
1	14		14	20	6	12	10	13	9	13				18		1
0				17		8	6	9								0

Scaled score	Lateralized sensorimotor/Psychomotor comparisons															Scaled score
	TAP DH	TAP NDH	GRIP DH	GRIP NDH	PEG DH	PEG NDH	TPT DH	TPT NDH	TPT BH	SP R	SP L	SP TOT	TFR R	TFR L		
19	86	83	81	79	88	86	84	85	85				88	88	19	
18	81	79	76	75	84	82	79	81	81				84	84	18	
17	77	75	71	70	80	78	75	77	76				81	81	17	
16	73	71	66	65	76	74	71	72	72				77	77	16	
15	69	66	60	60	71	70	67	68	67			66	74	74	15	
14	65	62	55	55	67	66	63	64	63	63			70	70	14	
13	61	58	50	50	63	62	59	60	59		61	59	67	67	13	
12	56	54	45	45	59	58	55	55	54	55			63	63	12	
11	52	50	40	40	54	54	51	51	50		53	53	60	59	11	
10	48	46	35	35	50	50	46	47	46	47	49	49	56	56	10	
9	44	42	30	30	46	46	42	43	41	44	45	46	53	52	9	
8	40	38	25	25	42	42	38	39	37	40	41	43	49	49	8	
7	35	34	20	20	37	38	34	34	32	36	37	40	46	45	7	
6	31	30	15	15	33	34	30	30	28	32	33	36	42	42	6	
5	27	26	9	10	29	30	26	26	24	29	30	33	39	38	5	
4	23	22	4	5	25	26	22	22	19	25	26	30	35	35	4	
3	19	18	0	0	20	22	18	17	15	21	22	26	32	31	3	
2	15	13	0	0	16	18	14	13	10	17	18	23	28	28	2	
1	10	9	0	0	12	14	9	9	6	13	14	20	25	24	1	
0	6	5	0	0	8	10		5							0	

Note. See page 16 for a description of acronyms.

## APPENDIX D (continued)

Sex: Male

Education: 9-11 years

Age: 40-44 years

Race: Caucasian

Summary scores				Executive functions					Attention/Working memory						Scaled score
Scaled score	WAIS-R FSIQ	WAIS FSIQ	AIR	CAT ERROR	TRAIL B	THUR FLU	FAS	ANIMALS	WAIS-R DIGIT SPAN	WAIS DIGIT SPAN	PASAT	DIGIT ERROR	SSHOR RHYM	SPCH PERC	
19	93		100	89	91	88	82	87	87						19
18	89	93	96	85	87	84	79	83	84	79				80	18
17	84	89	90	81	82	81	75	79			81				17
16	80	85	85	77	78	77	72	74	76		78				16
15	76	80	80	73	73	73	68	70	72	69	74	71	65	68	15
14	72	76	74	69	69	69	64	66	68	66	70		62		14
13	68	72	69	65	64	66	61	61	64	63	66	64		60	13
12	63	67	64	61	60	62	57	57	60		62	60	56	57	12
11	59	63	58	57	56	58	54	53	56	56	58	57		53	11
10	55	59	53	53	51	54	50	49	52	53	55	53	50	49	10
9	51	54	48	49	47	50	46	44		50	51	50	47	45	9
8	46	50	42	45	42	47	43	40	44	47	47	46	44	41	8
7	42	46	37	41	38	43	39	36	41		43	43	41	37	7
6	38	41	31	37	33	39	36	32	37	40	39	40	37	33	6
5	34	37	26	33	29	35	32	27	33	37	35	36	34	29	5
4	29	33	21	29	24	31	28	23	29		32	33	31	25	4
3	25	28	15	25	20	28	25	19	25	31	28	29	28	21	3
2	21	24	10	21	16	24	21	14	21		24	26	25	17	2
1	17	20	5	17	11	20	18	10		24	20	22	22	13	1
0		16	0	13				6		21	16	19	19		0

Speed of information processing					Spatial skills				Verbal/Academic skills								Scaled score
Scaled score	WAIS-R DIGIT SYMB	WAIS DIGIT SYMB	TRAIL A	DIGIT TIME	WAIS-R BLOCK DESGN	WAIS BLOCK DESGN	TPT TIME	SPAT REL	WAIS-R VOCAB	WAIS VOCAB	APHAS SCRIN	BSTN NAME	BDAE COMP	PIAT RECOG	PIAT COMP	PIAT SPELL	
19	96		92		91		86		95								19
18	93	93	87	82			82		91								18
17	89	88	83	78	83		78		87	90				84	82		17
16	85	84	79	74	79	77	74		83	85		72		80	79	84	16
15	81	80	74	70	75	72	70		79	80				77	75		15
14	77	75	70	66	71	68	65		75	76		64		73	71	76	14
13	73	71	65	62	67	64	61		70	71	69	61		69	68	72	13
12	69	66	61	58	63	60	57		66	67			62	66	64	68	12
11	65	62	56	54	59	56	53	59	62	62	61	53		62	60	64	11
10	61	58	52	50	55	52	49		58	58	56	49		58	57	60	10
9	57	53	47	46	51	48	45	47	54	53	52	45	48	55	53	56	9
8	53	49	43	42	47	44	41		50	49	48	41		51	49	52	8
7	49	45	39	38	43	40	37	36	45	44	44	37	38	47	46	48	7
6	45	40	34	34	39	35	33		41	40	40	33		44	42	44	6
5	41	36	30	30	35	31	29	24	37	35	35	29	29	40	38	40	5
4	37	32	25	26	31	27	25		33	30	31	25		36	35	36	4
3	33	27	21		27	23	20	13	29	26	27	21	19	33	31		3
2	29	23	16		23	19	16	7	25	21	23	17	15	29			2
1	25	19	12		19	15	12	1	21	17	19	13	10				1
0		14				11	8	0	12	14					20	20	0

(continued)

## APPENDIX D (continued)

Sex: Male  
Education: 9-11 years  
Age: 40-44 years  
Race: Caucasian

Scaled score	Verbal episodic memory									Visual episodic memory						Scaled score
	STORY-T1	STORY LEARN	STORY RECALL	STORY LOSS	CVLT-1	CVLT-5	CVLT-TOT	CVLT-SDFR	CVLT-LDFR	TPT MEM	TPT LOC	FIGUR-T1	FIGUR LEARN	FIGUR RECALL	FIGUR LOSS	
19	92		88		90		85				85	91	89	86		19
18	88	93	84				81				81	86	85	82		18
17	84	88	80		80		77			77		82		79		17
16	79	84	75			72	73	70	77			78	77	75		16
15	75	79	71		71		69	67			70					15
14	71	75	67	66	67	64	64	63	68		66	69	69	67		14
13	66	70	63		62		60	59		61		65	65	64	60	13
12	62	66	59	59	57	57	56	55	59		58	61	61		57	12
11	58	61	55	55	53	53	52	51	54	54	54	57	57	56	53	11
10	54	57	51	52	48	49	48	48	50		50	52	53	52	50	10
9	49	52	47	48	44	45	44	44	45	46	46	48	49	49	46	9
8	45	48	43	45	39	41	40	40	41		42	44	45	45	42	8
7	41	43	39	41	35	37	36	36	36	38	39	40	40	41	39	7
6	37	39	35	38		33	31	33	32	34		35	36	37	35	6
5	32	34	31	34	25	29	27	29	27	30	31	31	32	34	32	5
4	28	30	27	31		25	23	25	23	26		27	28	30	28	4
3	24	25	23	27	16	21	19		18	22		23	24	26	25	3
2	19	20	19	24	12	17	15	17	14	18		18	20	23	21	2
1	15		15	20	7	13	11	14	10	14				19		1
0				17		9	7	10								0

Scaled score	Lateralized sensorimotor/Psychomotor comparisons															Scaled score
	TAP DH	TAP NDH	GRIP DH	GRIP NDH	PEG DH	PEG NDH	TPT DH	TPT NDH	TPT BH	SP R	SP L	SP TOT	TFR R	TFR L		
19	86	84	82	81	90	86	84	86	87				84	84	19	
18	82	80	77	76	86	82	80	82	82				80	80	18	
17	78	76	72	71	82	78	76	78	78				77	77	17	
16	74	72	66	66	77	74	72	74	73				73	73	16	
15	70	68	61	61	73	70	68	70	69			67	70	70	15	
14	65	64	56	56	69	66	64	65	65	63			66	66	14	
13	61	60	51	51	65	62	60	61	60		62	60	63	63	13	
12	57	55	46	46	60	58	56	57	56	56			59	59	12	
11	53	51	41	41	56	54	52	53	52		54	53	56	56	11	
10	49	47	36	36	52	50	47	48	47	48	50	50	52	52	10	
9	44	43	31	31	48	46	43	44	43	44	46	47	49	49	9	
8	40	39	26	26	43	42	39	40	38	40	42	44	45	45	8	
7	36	35	21	21	39	38	35	36	34	37	38	40	42	41	7	
6	32	31	15	16	35	34	31	32	30	33	34	37	38	38	6	
5	28	27	10	11	31	30	27	27	25	29	31	34	35	34	5	
4	24	23	5	6	26	26	23	23	21	25	27	30	31	31	4	
3	19	19	0	1	22	22	19	19	16	22	23	27	28	27	3	
2	15	15	0	0	18	18	14	15	12	18	19	24	24	24	2	
1	11	11	0	0	14	14	10	10	8	14	15	21	21	20	1	
0	7	7	0	0	9	10		6							0	

Note. See page 16 for a description of acronyms.

## APPENDIX D (continued)

Sex: Male  
Education: 9-11 years  
Age: 45-49 years  
Race: Caucasian

Summary scores				Executive functions					Attention/Working memory						Scaled score
Scaled score	WAIS-R FSIQ	WAIS FSIQ	AIR	CAT ERROR	TRAIL B	THUR FLU	FAS	ANIMALS	WAIS-R DIGIT SPAN	WAIS DIGIT SPAN	PASAT	DIGIT ERROR	SSHOR RHYM	SPCH PERC	
19	91		100	91	93	89	83	88	87						19
18	87	92	98	87	88	85	79	84	84	80				81	18
17	83	88	93	83	84	82	76	80			82				17
16	79	84	88	79	79	78	72	76	76		78				16
15	74	79	82	75	75	74	69	71	72	70	75	71	66	69	15
14	70	75	77	71	70	70	65	67	68	67	71		63		14
13	66	71	71	67	66	66	61	63	64	63	67	64		61	13
12	62	66	66	63	62	63	58	59	60		63	61	57	57	12
11	57	62	61	59	57	59	54	54	56	57	59	57		54	11
10	53	58	55	55	53	55	51	50	52	54	55	54	50	50	10
9	49	53	50	51	48	51	47	46		50	52	51	47	46	9
8	45	49	45	47	44	47	43	41	44	47	48	47	44	42	8
7	41	45	39	43	39	44	40	37	41		44	44	41	38	7
6	36	40	34	39	35	40	36	33	37	41	40	40	38	34	6
5	32	36	29	35	30	36	33	29	33	38	36	37	35	30	5
4	28	32	23	31	26	32	29	24	29		32	33	32	26	4
3	24	27	18	26	22	28	25	20	25	31	29	30	29	22	3
2	19	23	13	22	17	25	22	16	21		25	26	26	18	2
1	15	19	7	18	13	21	18	12		25	21	23	22	14	1
0		14	2	14				7		21	17	20	19		0

Scaled score	Speed of information processing				Spatial skills				Verbal/Academic skills								Scaled score
	WAIS-R DIGIT SYMB	WAIS DIGIT SYMB	TRAIL A	DIGIT TIME	WAIS-R BLOCK DESGN	WAIS BLOCK DESGN	TPT TIME	SPAT REL	WAIS-R VOCAB	WAIS VOCAB	APHAS SCRIN	BSTN NAME	BDAE COMP	PIAT RECOG	PIAT COMP	PIAT SPELL	
19	100		94		93		87		94								19
18	96	95	89	83			83		90								18
17	92	91	85	79	85		79		86	90				84	83		17
16	88	86	80	75	81	78	75		82	85		73		80	79	83	16
15	84	82	76	71	77	74	71		77	80				76	75		15
14	80	77	71	67	73	70	67		73	76		65		73	72	76	14
13	76	73	67	63	69	65	63		69	71	69	61		69	68	72	13
12	72	69	62	59	65	61	59		65	67			62	65	64	68	12
11	68	64	58	55	61	57	55	59	61	62	61	53		62	61	64	11
10	64	60	54	51	57	53	51		57	58	57	49		58	57	60	10
9	60	56	49	47	53	49	47	48	52	53	52	45	48	54	53	56	9
8	56	51	45	43	49	45	42		48	49	48	42		51	50	52	8
7	52	47	40	39	45	41	38	36	44	44	44	38	39	47	46	48	7
6	48	43	36	35	41	37	34		40	40	40	34		43	42	44	6
5	44	38	31	31	37	33	30	25	36	35	36	30	29	40	39	40	5
4	40	34	27	27	33	28	26		32	30	31	26		36	35	36	4
3	36	30	22		29	24	22	13	28	26	27	22		32	31		3
2	32	25	18		25	20	18	8	23	21	23	18	15	29			2
1	28	21	14		21	16	14	2	19	17	19	14	10				1
0		17				12	10	0		12	15				20	20	0

(continued)

## APPENDIX D (continued)

Sex: Male  
Education: 9-11 years  
Age: 45-49 years  
Race: Caucasian

Scaled score	Verbal episodic memory									Visual episodic memory						Scaled score
	STORY-T1	STORY LEARN	STORY RECALL	STORY LOSS	CVLT-1	CVLT-5	CVLT-TOT	CVLT-SDFR	CVLT-LDFR	TPT MEM	TPT LOC	FIGUR-T1	FIGUR LEARN	FIGUR RECALL	FIGUR LOSS	
19	93		88		90		86				87	92	91	86		19
18	89	94	84				82				83	88	87	83		18
17	84	89	80		81		78			78		84		79		17
16	80	85	76			73	74	71	78			79	79	75		16
15	76	80	72		72		70	68			71					15
14	72	76	68	66	68	66	66	64	69		67	71	70	68		14
13	67	71	64		63		61	60		63		67	66	64	60	13
12	63	67	60	59	58	58	57	56	60		60	62	62		57	12
11	59	62	56	55	54	54	53	53	55	55	56	58	58	57	53	11
10	55	58	52	52	49	50	49	49	51		52	54	54	53	50	10
9	50	53	48	48	45	46	45	45	46	47	48	50	50	49	46	9
8	46	49	44	45	40	42	41	41	42		44	45	46	45	43	8
7	42	44	39	41	35	38	37	37	37	39	40	41	42	42	39	7
6	37	40	35	38		34	33	34	33	35		37	38	38	36	6
5	33	35	31	35	26	30	28	30	28	31	32	33	34	34	32	5
4	29	31	27	31		26	24	26	24	27		28	30	31	28	4
3	25	26	23	28	17	22	20		20	23		24	26	27	25	3
2	20	22	19	24	13	18	16	19	15	19		20	22	23	21	2
1	16		15	21	8	14	12	15	11	15				19		1
0				17		10	8	11								0

Scaled score	Lateralized sensorimotor/Psychomotor comparisons															Scaled score
	TAP DH	TAP NDH	GRIP DH	GRIP NDH	PEG DH	PEG NDH	TPT DH	TPT NDH	TPT BH	SP R	SP L	SP TOT	TFR R	TFR L		
19	87	85	83	82	92	88	86	88	88				84	84	19	
18	83	81	78	77	88	84	82	84	84				80	80	18	
17	79	77	73	72	84	80	77	80	80				77	77	17	
16	74	73	68	67	80	76	73	75	75				73	73	16	
15	70	69	63	62	75	72	69	71	71			67	70	70	15	
14	66	65	58	57	71	68	65	67	66	64			66	66	14	
13	62	61	53	52	67	64	61	63	62		63	61	63	63	13	
12	58	57	47	47	62	60	57	59	58	56			59	59	12	
11	54	53	42	42	58	56	53	54	53		55	54	56	56	11	
10	49	49	37	37	54	52	49	50	49	49	51	51	52	52	10	
9	45	45	32	32	50	48	44	46	45	45	47	48	49	49	9	
8	41	41	27	27	45	44	40	42	40	41	43	44	45	45	8	
7	37	36	22	22	41	40	36	37	36	37	39	41	42	42	7	
6	33	32	17	17	37	36	32	33	31	34	35	38	38	38	6	
5	28	28	12	12	33	32	28	29	27	30	31	34	35	35	5	
4	24	24	7	8	28	28	24	25	23	26	28	31	31	31	4	
3	20	20	2	3	24	24	20	21	18	22	24	28	28	27	3	
2	16	16	0	0	20	20	16	16	14	18	20	25	24	24	2	
1	12	12	0	0	16	16	11	12	9	15	16	21	21	20	1	
0	8	8	0	0	11	12		8							0	

Note. See page 16 for a description of acronyms.

## APPENDIX D (continued)

Sex: Male  
Education: 9-11 years  
Age: 50-54 years  
Race: Caucasian

	Summary scores			Executive functions					Attention/Working memory							
Scaled score	WAIS-R FSIQ	WAIS FSIQ	AIR	CAT ERROR	TRAIL B	THUR FLU	FAS	ANIMALS	WAIS-R DIGIT SPAN	WAIS DIGIT SPAN	PASAT	DIGIT ERROR	SSHOR RHYM	SPCH PERC	Scaled score	
19	91		100	92	94	90	84	90	87						19	
18	87	91	100	88	90	86	80	86	84	80				82	18	
17	83	87	96	84	86	82	76	81			83				17	
16	79	82	90	80	81	79	73	77	76		79				16	
15	74	78	85	76	77	75	69	73	72	70	76	72	67	70	15	
14	70	74	80	72	72	71	66	69	68	67	72		64		14	
13	66	69	74	68	68	67	62	64	64	64	68	65		63	13	
12	62	65	69	64	63	63	58	60	60		64	62	57	59	12	
11	57	61	63	60	59	60	55	56	56	57	60	58		55	11	
10	53	57	58	56	54	56	51	51	52	54	56	55	51	51	10	
9	49	52	53	52	50	52	48	47		51	52	51	48	47	9	
8	45	48	47	48	46	48	44	43	44	48	49	48	45	43	8	
7	41	44	42	44	41	44	40	39	41		45	44	42	39	7	
6	36	39	37	40	37	41	37	34	37	41	41	41	39	35	6	
5	32	35	31	36	32	37	33	30	33	38	37	38	35	31	5	
4	28	31	26	32	28	33	30	26	29		33	34	32	27	4	
3	24	26	21	28	23	29	26	22	25	32	29	31	29	23	3	
2	19	22	15	24	19	25	23	17	21		26	27	26	19	2	
1	15	18	10	20	14	22	19	13		25	22	24	23	15	1	
0		13	5	16				9		22	18	20	20		0	

Speed of information processing					Spatial skills				Verbal/Academic skills								Scaled score
Scaled score	WAIS-R DIGIT SYMB	WAIS DIGIT SYMB	TRAIL A	DIGIT TIME	WAIS-R BLOCK DESGN	WAIS BLOCK DESGN	TPT TIME	SPAT REL	WAIS-R VOCAB	WAIS VOCAB	APHAS SCR N	BSTN NAME	BDAE COMP	PIAT RECOG	PIAT COMP	PIAT SPELL	
19	100		95		93		89		94								19
18	96	97	91	85			85		90								18
17	92	93	86	81	85		81		86	90				83	83		17
16	88	88	82	77	81	79	77		82	85		74		80	79	83	16
15	84	84	77	73	77	75	73		77	80				76	76		15
14	80	80	73	69	73	71	69		73	76		66		72	72	75	14
13	76	75	69	64	69	67	65		69	71	70	62		69	68	71	13
12	72	71	64	60	65	63	61		65	67			63	65	65	67	12
11	68	67	60	56	61	58	57	60	61	62	61	54		61	61	63	11
10	64	62	55	52	57	54	52		57	58	57	51		58	57	59	10
9	60	58	51	48	53	50	48	48	52	53	53	47	48	54	54	56	9
8	56	54	46	44	49	46	44		48	49	48	43		50	50	52	8
7	52	49	42	40	45	42	40	37	44	44	44	39	39	47	46	48	7
6	48	45	37	36	41	38	36		40	40	40	35		43	43	44	6
5	44	41	33	32	37	34	32	25	36	35	36	31	29	39	39	40	5
4	40	36	29	28	33	30	28		32	30	32	27		36	35	36	4
3	36	32	24		29	26	24	14	28	26	27	23	19	32	32		3
2	32	28	20		25	21	20	8	23	21	23	19	15	28			2
1	28	23	15		21	17	16	2	19	17	19	15	10				1
0		19				13	12	0		12	15				21	20	0

(continued)

## APPENDIX D (continued)

Sex: Male  
Education: 9-11 years  
Age: 50-54 years  
Race: Caucasian

Scaled score	Verbal episodic memory									Visual episodic memory						Scaled score
	STORY-T1	STORY LEARN	STORY RECALL	STORY LOSS	CVLT-1	CVLT-5	CVLT-TOT	CVLT-SDFR	CVLT-LDFR	TPT MEM	TPT LOC	FIGUR-T1	FIGUR LEARN	FIGUR RECALL	FIGUR LOSS	
19	94		88		92		88				88	94	92	87		19
18	90	95	84				84				84	89	88	83		18
17	85	90	80		82		79			80		85		80		17
16	81	86	76			75	75	73	79			81	80	76		16
15	77	81	72		73		71	69			73					15
14	73	77	68	66	69	67	67	65	70		69	72	72	68		14
13	68	72	64		64		63	61		64		68	68	65	60	13
12	64	68	60	59	59	59	59	58	61		61	64	64		57	12
11	60	63	56	56	55	55	55	54	57	56	57	60	60	57	53	11
10	55	59	52	52	50	51	51	50	52		53	55	56	53	50	10
9	51	54	48	49	46	47	46	46	48	48	50	51	52	50	46	9
8	47	50	44	45	41	43	42	43	43		46	47	48	46	43	8
7	43	45	40	42	37	39	38	39	39	40	42	43	44	42	39	7
6	38	41	36	38		35	34	35	34	36		39	40	38	36	6
5	34	36	32	35	27	31	30	31	30	32	34	34	36	35	32	5
4	30	32	28	31		27	26	27	25	28		30	32	31	29	4
3	26	27	24	28	18	23	22		21	24		26	28	27	25	3
2	21	23	20	24	14	19	18	20	16	20		22	23	24	21	2
1	17		16	21	9	15	13	16	12	16				20		1
0				17		11	9	12								0

Scaled score	Lateralized sensorimotor/Psychomotor comparisons															Scaled score
	TAP DH	TAP NDH	GRIP DH	GRIP NDH	PEG DH	PEG NDH	TPT DH	TPT NDH	TPT BH	SP R	SP L	SP TOT	TFR R	TFR L		
19	88	87	85	84	95	90	87	90	90				84	84	19	
18	84	83	80	79	90	86	83	86	86				80	81	18	
17	80	79	75	74	86	82	79	81	82				77	77	17	
16	75	75	70	69	82	78	75	77	77				73	73	16	
15	71	70	64	64	78	74	71	73	73			68	70	70	15	
14	67	66	59	59	73	70	66	69	68	65			66	66	14	
13	63	62	54	54	69	66	62	65	64		64	62	63	63	13	
12	59	58	49	49	65	62	58	60	60	57			59	59	12	
11	54	54	44	44	60	58	54	56	55		56	55	56	56	11	
10	50	50	39	39	56	54	50	52	51	50	52	52	52	52	10	
9	46	46	34	34	52	50	46	48	47	46	48	49	49	49	9	
8	42	42	29	29	48	46	42	44	42	42	44	45	45	45	8	
7	38	38	24	24	43	42	38	39	38	38	40	42	42	42	7	
6	34	34	19	19	39	38	33	35	33	35	36	39	38	38	6	
5	29	30	13	14	35	34	29	31	29	31	32	36	35	35	5	
4	25	26	8	9	31	30	25	27	25	27	28	32	31	31	4	
3	21	22	3	4	26	26	21	22	20	23	25	29	28	28	3	
2	17	17	0	0	22	22	17	18	16	19	21	26	24	24	2	
1	13	13	0	0	18	18	13	14	11	16	17	22	21	21	1	
0	8	9	0	0	14	14		10							0	

Note. See page 16 for a description of acronyms.



## APPENDIX D (continued)

Sex: Male  
Education: 9-11 years  
Age: 55-59 years  
Race: Caucasian

	Summary scores			Executive functions					Attention/Working memory							
Scaled score	WAIS-R FSIQ	WAIS FSIQ	AIR	CAT ERROR	TRAIL B	THUR FLU	FAS	ANIMALS	WAIS-R DIGIT SPAN	WAIS DIGIT SPAN	PASAT	DIGIT ERROR	SSHOR RHYM	SPCH PERC	Scaled score	
19	90		100	94	96	91	84	91	85						19	
18	85	90	100	90	92	87	81	87	81	81				84	18	
17	81	86	99	86	87	83	77	83			84				17	
16	77	81	93	82	83	79	73	78	74		80				16	
15	73	77	88	78	79	76	70	74	70	71	76	73	67	72	15	
14	69	73	83	74	74	72	66	70	66	68	73		64		14	
13	64	68	77	70	70	68	63	66	62	64	69	66		64	13	
12	60	64	72	66	65	64	59	61	58		65	62	58	60	12	
11	56	60	67	62	61	60	55	57	54	58	61	59		56	11	
10	52	55	61	58	56	57	52	53	50	55	57	55	52	52	10	
9	47	51	56	54	52	53	48	49		51	53	52	49	48	9	
8	43	47	50	50	47	49	45	44	42	48	50	49	45	44	8	
7	39	42	45	46	43	45	41	40	38		46	45	42	40	7	
6	35	38	40	42	39	41	38	36	34	42	42	42	39	36	6	
5	30	34	34	38	34	38	34	32	31	39	38	38	36	32	5	
4	26	30	29	34	30	34	30	27	27		34	35	33	29	4	
3	22	25	24	30	25	30	27	23	23	32	30	31	30	25	3	
2	18	21	18	26	21	26	23	19	19		27	28	27	21	2	
1	14	17	13	22	16	22	20	14		26	23	24	24	17	1	
0		12	8	18				10		22	19	21	20		0	

Speed of information processing					Spatial skills				Verbal/Academic skills								Scaled score
Scaled score	WAIS-R DIGIT SYMB	WAIS DIGIT SYMB	TRAIL A	DIGIT TIME	WAIS-R BLOCK DESGN	WAIS BLOCK DESGN	TPT TIME	SPAT REL	WAIS-R VOCAB	WAIS VOCAB	APHAS SCRIN	BSTN NAME	BDAE COMP	PIAT RECOG	PIAT COMP	PIAT SPELL	
19	100		97		95		92		93								19
18	96	99	92	86			88		89								18
17	92	95	88	82	87		83		84	90				83	83		17
16	88	91	83	78	83	80	79		80	85		76		79	80	83	16
15	84	86	79	74	79	76	75		76	80				76	76		15
14	80	82	75	70	75	72	71		72	76		68		72	72	75	14
13	76	78	70	66	71	68	67		68	71	70	64		68	69	71	13
12	72	73	66	62	67	64	63		64	67			63	65	65	67	12
11	68	69	61	58	63	60	59	60	59	62	61	56		61	61	63	11
10	64	65	57	54	59	56	55		55	58	57	52		57	58	59	10
9	61	60	52	50	55	51	51	49	51	53	53	48	48	54	54	55	9
8	57	56	48	46	51	47	47		47	49	49	44		50	50	51	8
7	53	52	43	42	47	43	43	37	43	44	44	40	39	46	47	47	7
6	49	47	39	38	43	39	38		39	40	40	36		43	43	43	6
5	45	43	35	34	39	35	34	26	34	35	36	32	29	39	39	40	5
4	41	39	30	30	35	31	30		30	30	32	28		35	36	36	4
3	37	34	26		31	27	26	14	26	26	28	24	19	32	32		3
2	33	30	21		27	23	22	8	22	21	23	21	15	28			2
1	29	26	17		23	19	18	3	18	17	19	17	10				1
0		21				14	14	0		12	15				21	20	0

(continued)

## APPENDIX D (continued)

Sex: Male  
Education: 9-11 years  
Age: 55-59 years  
Race: Caucasian

Scaled score	Verbal episodic memory									Visual episodic memory						Scaled score
	STORY-T1	STORY LEARN	STORY RECALL	STORY LOSS	CVLT-1	CVLT-5	CVLT-TOT	CVLT-SDFR	CVLT-LDFR	TPT MEM	TPT LOC	FIGUR-T1	FIGUR LEARN	FIGUR RECALL	FIGUR LOSS	
19	95		89		93		90				90	95	94	87		19
18	91	96	85				85				86	91	90	84		18
17	86	92	81		84		81			81		87		80		17
16	82	87	77			76	77	74	81			82	82	76		16
15	78	82	73		75		73	71			74					15
14	74	78	69	66	70	69	69	67	72		71	74	74	69		14
13	69	73	64		65		65	63		65		70	70	65	60	13
12	65	69	60	59	61	61	61	59	63		63	66	66		57	12
11	61	64	56	56	56	57	56	56	58	57	59	61	62	58	53	11
10	56	60	52	52	52	53	52	52	54		55	57	57	54	50	10
9	52	55	48	49	47	49	48	48	49	50	51	53	53	50	46	9
8	48	51	44	45	42	45	44	44	45		47	49	49	46	43	8
7	44	46	40	42	38	41	40	40	40	42	43	44	45	43	39	7
6	39	42	36	38		37	36	37	36	38		40	41	39	36	6
5	35	37	32	35	29	33	32	33	31	34	36	36	37	35	32	5
4	31	33	28	31		29	28	29	27	30		32	33	32	29	4
3	27	28	24	28	20	25	23		22	26		27	29	28	25	3
2	22	24	20	24	15	21	19	22	18	22		23	25	24	22	2
1	18		16	21	10	17	15	18	13	18				20		1
0				17		13	11	14								0

Scaled score	Lateralized sensorimotor/Psychomotor comparisons															Scaled score
	TAP DH	TAP NDH	GRIP DH	GRIP NDH	PEG DH	PEG NDH	TPT DH	TPT NDH	TPT BH	SP R	SP L	SP TOT	TFR R	TFR L		
19	89	88	87	86	97	93	89	92	93				84	84	19	
18	85	84	82	81	93	89	85	88	88				80	81	18	
17	81	80	77	76	88	85	81	84	84				77	77	17	
16	77	76	72	71	84	81	76	79	79				73	74	16	
15	72	72	66	66	80	77	72	75	75			70	70	70	15	
14	68	68	61	61	76	73	68	71	71	66			66	67	14	
13	64	64	56	56	71	69	64	67	66		65	63	63	63	13	
12	60	60	51	51	67	65	60	62	62	58			59	59	12	
11	56	56	46	46	63	61	56	58	58		57	56	56	56	11	
10	51	51	41	41	59	57	52	54	53	51	53	53	52	52	10	
9	47	47	36	36	54	53	48	50	49	47	49	50	49	49	9	
8	43	43	31	31	50	49	43	46	44	43	45	47	45	45	8	
7	39	39	26	26	46	45	39	41	40	39	41	43	42	42	7	
6	35	35	21	21	42	41	35	37	36	36	37	40	38	38	6	
5	31	31	15	16	37	37	31	33	31	32	33	37	35	35	5	
4	26	27	10	11	33	33	27	29	27	28	29	33	31	31	4	
3	22	23	5	6	29	29	23	24	22	24	26	30	28	28	3	
2	18	19	0	2	25	25	19	20	18	20	22	27	24	24	2	
1	14	15	0	0	20	21	15	16	14	17	18	24	21	21	1	
0	10	11	0	0	16	17		12							0	

Note. See page 16 for a description of acronyms.

## APPENDIX D (continued)

Sex: Male

Education: 9-11 years

Age: 60-64 years

Race: Caucasian

Summary scores				Executive functions					Attention/Working memory						Scaled score
Scaled score	WAIS-R FSIQ	WAIS FSIQ	AIR	CAT ERROR	TRAIL B	THUR FLU	FAS	ANIMALS	WAIS-R DIGIT SPAN	WAIS DIGIT SPAN	PASAT	DIGIT ERROR	SSHOR RHYM	SPCH PERC	
19	90		100	96	98	92	85	93	85						19
18	85	89	100	92	94	88	81	88	81	81				85	18
17	81	85	100	88	90	84	78	84			85				17
16	77	80	97	84	85	80	74	80	74		81				16
15	73	76	91	80	81	76	70	76	70	71	77	73	68	73	15
14	69	72	86	76	76	73	67	71	66	68	73		65		14
13	64	67	81	72	72	69	63	67	62	65	70	67		66	13
12	60	63	75	68	67	65	60	63	58		66	63	58	62	12
11	56	59	70	64	63	61	56	59	54	58	62	60		58	11
10	52	54	64	60	58	57	53	54	50	55	58	56	52	54	10
9	47	50	59	56	54	54	49	50		52	54	53	49	50	9
8	43	46	54	52	50	50	45	46	42	49	50	49	46	46	8
7	39	41	48	48	45	46	42	41	38		47	46	43	42	7
6	35	37	43	44	41	42	38	37	34	42	43	42	40	38	6
5	30	33	38	40	36	38	35	33	31	39	39	39	37	34	5
4	26	28	32	36	32	35	31	29	27		35	36	34	30	4
3	22	24	27	32	27	31	27	24	23	33	31	32	30	26	3
2	18	20	22	28	23	27	24	20	19		27	29	27	22	2
1	14	15	16	24	18	23	20	16		26	24	25	24	18	1
0		11	11	20				12		23	20	22	21		0

Scaled score	Speed of information processing				Spatial skills				Verbal/Academic skills								Scaled score
	WAIS-R DIGIT SYMB	WAIS DIGIT SYMB	TRAIL A	DIGIT TIME	WAIS-R BLOCK DESGN	WAIS BLOCK DESGN	TPT TIME	SPAT REL	WAIS-R VOCAB	WAIS VOCAB	APHAS SCRIN	BSTN NAME	BDAE COMP	PIAT RECOG	PIAT COMP	PIAT SPELL	
19	100		98		95		94		93								19
18	96	100	94	88			90		89								18
17	92	97	90	84	87		86		84	90				82	84		17
16	88	93	85	80	83	81	82		80	85		77		79	80	83	16
15	84	89	81	76	79	77	78		76	80				75	76		15
14	80	84	76	72	75	73	74		72	76		70		71	73	75	14
13	76	80	72	68	71	69	70		68	71	70	66		68	69	71	13
12	72	76	67	64	67	65	66		64	67			63	64	65	67	12
11	68	71	63	60	63	61	62	60	59	62	62	58		60	62	63	11
10	64	67	58	56	59	57	58		55	58	57	54		57	58	59	10
9	61	63	54	52	55	53	53	49	51	53	53	50	48	53	54	55	9
8	57	58	50	48	51	49	49		47	49	49	46		49	51	51	8
7	53	54	45	44	47	44	45	37	43	44	45	42	39	46	47	47	7
6	49	50	41	39	43	40	41		39	40	40	38		42	43	43	6
5	45	45	36	35	39	36	37	26	34	35	36	34	29	38	40	39	5
4	41	41	32	31	35	32	33		30	30	32	30		35	36	35	4
3	37	37	27		31	28	29	14	26	26	28	26	20	31	32		3
2	33	32	23		27	24	25	9	22	21	24	22	15	27			2
1	29	28	18		23	20	21	3	18	17	19	18	10				1
0		24				16	17	0		12	15				21	20	0

(continued)

## APPENDIX D (continued)

Sex: Male  
Education: 9-11 years  
Age: 60-64 years  
Race: Caucasian

Scaled score	Verbal episodic memory									Visual episodic memory						Scaled score
	STORY-T1	STORY LEARN	STORY RECALL	STORY LOSS	CVLT-1	CVLT-5	CVLT-TOT	CVLT-SDFR	CVLT-LDFR	TPT MEM	TPT LOC	FIGUR-T1	FIGUR LEARN	FIGUR RECALL	FIGUR LOSS	
19	94		89		94		92				92	97	96	88		19
18	90	94	85				88				88	92	91	84		18
17	85	90	81		85		83			83		88		81		17
16	81	85	77			78	79	76	83			84	83	77		16
15	77	81	73		76		75	73			76					15
14	72	76	69	67	72	71	71	69	74		72	76	75	69		14
13	68	72	65		67		67	65		67		71	71	66	61	13
12	64	67	61	60	62	63	63	61	65		64	67	67		57	12
11	60	62	57	57	58	59	59	57	60	59	61	63	63	58	53	11
10	55	58	53	53	53	55	54	54	56		57	59	59	54	50	10
9	51	53	49	50	49	51	50	50	51	51	53	54	55	51	46	9
8	47	49	45	46	44	47	46	46	47		49	50	51	47	43	8
7	43	44	41	43	39	43	42	42	42	43	45	46	47	43	39	7
6	38	40	37	39		39	38	39	38	39		42	43	39	36	6
5	34	35	33	36	30	35	34	35	33	35	37	37	39	36	32	5
4	30	31	28	33		31	30	31	29	31		33	35	32	29	4
3	25	26	24	29	21	27	26		24	28		29	31	28	25	3
2	21	22	20	26	17	23	21	23	20	24		25	27	25	22	2
1	17		16	22	12	19	17	20	15	20				21		1
0			19			15	13	16								0

Scaled score	Lateralized sensorimotor/Psychomotor comparisons															Scaled score
	TAP DH	TAP NDH	GRIP DH	GRIP NDH	PEG DH	PEG NDH	TPT DH	TPT NDH	TPT BH	SP R	SP L	SP TOT	TFR R	TFR L		
19	90	89	89	88	100	95	91	94	95				84	84	19	
18	86	85	84	83	95	91	87	90	91				80	81	18	
17	82	81	79	78	91	87	83	86	86				77	77	17	
16	78	77	74	73	87	83	78	81	82				73	74	16	
15	74	73	69	68	83	79	74	77	78			71	70	70	15	
14	70	69	63	63	78	75	70	73	73	67			66	67	14	
13	65	65	58	58	74	71	66	69	69		66	65	63	63	13	
12	61	61	53	53	70	67	62	65	64	60			59	60	12	
11	57	57	48	48	66	63	58	60	60		58	58	56	56	11	
10	53	53	43	43	61	59	54	56	56	52	54	55	52	53	10	
9	49	49	38	39	57	55	50	52	51	48	50	51	49	49	9	
8	44	45	33	34	53	51	46	48	47	44	46	48	45	45	8	
7	40	41	28	29	49	47	41	44	42	41	42	45	42	42	7	
6	36	36	23	24	44	43	37	39	38	37	38	42	38	38	6	
5	32	32	18	19	40	39	33	35	34	33	34	38	35	35	5	
4	28	28	13	14	36	35	29	31	29	29	30	35	31	31	4	
3	24	24	7	9	32	31	25	27	25	26	26	32	28	28	3	
2	19	20	2	4	27	27	21	22	21	22	23	28	24	24	2	
1	15	16	0	0	23	23	17	18	16	18	19	25	21	21	1	
0	11	12	0	0	19	19		14							0	

Note. See page 16 for a description of acronyms.

## APPENDIX D (continued)

Sex: Male  
Education: 9-11 years  
Age: 65-69 years  
Race: Caucasian

	Summary scores			Executive functions					Attention/Working memory							
Scaled score	WAIS-R FSIQ	WAIS FSIQ	AIR	CAT ERROR	TRAIL B	THUR FLU	FAS	ANIMALS	WAIS-R DIGIT SPAN	WAIS DIGIT SPAN	PASAT	DIGIT ERROR	SSHOR RHYM	SPCH PERC	Scaled score	
19	88		100	98	100	92	85	94	85						19	
18	84	88	100	94	96	89	82	90	81	82				87	18	
17	80	83	100	90	92	85	78	86			86				17	
16	75	79	100	86	87	81	75	81	74		82				16	
15	71	75	95	82	83	77	71	77	70	72	78	74	68	75	15	
14	67	71	90	78	78	73	68	73	66	69	74		65		14	
13	63	66	84	74	74	70	64	68	62	65	71	67		68	13	
12	58	62	79	69	70	66	60	64	58		67	64	59	64	12	
11	54	58	73	65	65	62	57	60	54	59	63	60		60	11	
10	50	53	68	61	61	58	53	56	50	56	59	57	53	56	10	
9	46	49	63	57	56	54	50	51		52	55	53	50	52	9	
8	42	45	57	53	52	51	46	47	42	49	51	50	47	48	8	
7	37	40	52	49	47	47	42	43	38		48	47	43	44	7	
6	33	36	47	45	43	43	39	39	34	43	44	43	40	40	6	
5	29	32	41	41	38	39	35	34	31	40	40	40	37	36	5	
4	25	27	36	37	34	36	32	30	27		36	36	34	32	4	
3	20	23	31	33	30	32	28	26	23	33	32	33	31	28	3	
2	16	19	25	29	25	28	24	22	19		28	29	28	24	2	
1	12	14	20	25	21	24	21	17		27	24	26	25	20	1	
0		10	14	21				13		23	21	22	22		0	

Scaled score	Speed of information processing				Spatial skills				Verbal/Academic skills								Scaled score
	WAIS-R DIGIT SYMB	WAIS DIGIT SYMB	TRAIL A	DIGIT TIME	WAIS-R BLOCK DESGN	WAIS BLOCK DESGN	TPT TIME	SPAT REL	WAIS-R VOCAB	WAIS VOCAB	APHAS SCRIN	BSTN NAME	BDAE COMP	PIAT RECOG	PIAT COMP	PIAT SPELL	
19	100		100		97		98		91								19
18	99	100	96	90			93		87								18
17	95	100	91	86	89		89		83	90				82	84		17
16	91	95	87	82	85	83	85		79	85		79		78	80	83	16
15	87	91	82	78	81	78	81		75	80				74	77		15
14	83	87	78	74	77	74	77		71	76		72		71	73	75	14
13	80	82	73	70	73	70	73		66	71	70	68		67	69	71	13
12	76	78	69	66	69	66	69		62	67			63	63	66	67	12
11	72	74	65	62	65	62	65	61	58	62	62	60		60	62	63	11
10	68	69	60	58	61	58	61		54	58	58	56		56	58	59	10
9	64	65	56	54	57	54	57	49	50	53	53	52	48	52	55	55	9
8	60	61	51	50	53	50	53		46	49	49	48		49	51	51	8
7	56	56	47	46	49	46	48	38	41	44	45	44	39	45	47	47	7
6	52	52	42	42	45	42	44		37	40	41	40		41	44	43	6
5	48	48	38	38	41	37	40	26	33	35	36	36	29	38	40	39	5
4	44	43	33	34	37	33	36		29	30	32	32		34	36	35	4
3	40	39	29		33	29	32	15	25	26	28	28	20	30	33		3
2	36	35	25		29	25	28	9	21	21	24	24	15	27			2
1	32	30	20		25	21	24	3	17	17	20	20	10				1
0		26				17	20	0		12	15				22	19	0

(continued)

## APPENDIX D (continued)

Sex: Male  
Education: 9-11 years  
Age: 65-69 years  
Race: Caucasian

Scaled score	Verbal episodic memory									Visual episodic memory						Scaled score
	STORY-T1	STORY LEARN	STORY RECALL	STORY LOSS	CVLT-1	CVLT-5	CVLT-TOT	CVLT-SDFR	CVLT-LDFR	TPT MEM	TPT LOC	FIGUR-T1	FIGUR LEARN	FIGUR RECALL	FIGUR LOSS	
19	95		90		96		94				93	98	97	88		19
18	91	95	85				90				89	94	93	85		18
17	86	91	81		87		86			85		90		81		17
16	82	86	77			81	82	79	85			86	85	77		16
15	78	82	73		78		78	75			78					15
14	73	77	69	67	73	73	74	71	76		74	77	77	70		14
13	69	73	65		69		69	67		70		73	73	66	61	13
12	65	68	61	60	64	65	65	64	67		66	69	69		57	12
11	61	64	57	57	60	61	61	60	62	62	62	64	65	59	54	11
10	56	59	53	53	55	57	57	56	58		58	60	61	55	50	10
9	52	54	49	50	51	53	53	52	53	54	54	56	57	51	47	9
8	48	50	45	47	46	49	49	48	49		50	52	53	47	43	8
7	43	45	41	43	41	45	45	45	44	46	47	47	49	44	39	7
6	39	41	37	40		41	40	41	40	42		43	45	40	36	6
5	35	36	33	36	32	37	36	37	35	38	39	39	40	36	32	5
4	31	32	29	33		33	32	33	31	34		35	36	33	29	4
3	26	27	25	29	23	29	28		26	30		30	32	29	25	3
2	22	23	21	26	18	25	24	26	22	26		26	28	25	22	2
1	18		17	22	14	21	20	22	17	22				21		1
0				19		17	16	18								0

Scaled score	Lateralized sensorimotor/Psychomotor comparisons															Scaled score
	TAP DH	TAP NDH	GRIP DH	GRIP NDH	PEG DH	PEG NDH	TPT DH	TPT NDH	TPT BH	SP R	SP L	SP TOT	TFR R	TFR L		
19	92	91	91	91	100	98	93	97	98				84	84	19	
18	88	87	86	86	98	94	89	92	93				81	81	18	
17	84	83	81	81	94	90	85	88	89				77	77	17	
16	79	78	76	76	90	86	81	84	85				73	74	16	
15	75	74	71	71	86	82	77	80	80			73	70	70	15	
14	71	70	66	66	81	78	73	75	76	69			66	67	14	
13	67	66	61	61	77	74	69	71	71		67	66	63	63	13	
12	63	62	56	56	73	70	64	67	67	61			59	60	12	
11	59	58	50	51	69	66	60	63	63		59	60	56	56	11	
10	54	54	45	46	64	62	56	59	58	54	55	56	52	53	10	
9	50	50	40	41	60	58	52	54	54	50	51	53	49	49	9	
8	46	46	35	36	56	54	48	50	49	46	47	50	45	46	8	
7	42	42	30	31	52	50	44	46	45	42	43	47	42	42	7	
6	38	38	25	26	47	46	40	42	41	38	39	43	38	39	6	
5	33	34	20	21	43	42	36	37	36	35	35	40	35	35	5	
4	29	30	15	16	39	38	31	33	32	31	31	37	31	31	4	
3	25	25	10	11	35	34	27	29	28	27	27	33	28	28	3	
2	21	21	5	6	30	30	23	25	23	23	24	30	24	24	2	
1	17	17	0	1	26	26	19	21	19	19	20	27	21	21	1	
0	13	13	0	0	22	22		16							0	

Note. See page 16 for a description of acronyms.

## APPENDIX D (continued)

Sex: Male  
Education: 9-11 years  
Age: 70-74 years  
Race: Caucasian

Summary scores				Executive functions					Attention/Working memory						Scaled score
Scaled score	WAIS-R FSIQ	WAIS FSIQ	AIR	CAT ERROR	TRAIL B	THUR FLU	FAS	ANIMALS	WAIS-R DIGIT SPAN	WAIS DIGIT SPAN	PASAT	DIGIT ERROR	SSHOR RHYM	SPCH PERC	
19	86		100	99	100	93	86	96	85						19
18	82	87	100	95	99	89	83	91	81	82				89	18
17	78	82	100	91	94	86	79	87			87				17
16	74	78	100	87	90	82	75	83	74		83				16
15	69	74	99	83	85	78	72	78	70	72	79	75	69	78	15
14	65	69	93	79	81	74	68	74	66	69	75		66		14
13	61	65	88	75	76	71	65	70	62	66	71	68		70	13
12	57	61	83	71	72	67	61	66	58		68	65	60	66	12
11	53	56	77	67	68	63	57	61	54	59	64	61		62	11
10	48	52	72	63	63	59	54	57	50	56	60	58	53	58	10
9	44	48	67	59	59	55	50	53		53	56	54	50	54	9
8	40	44	61	55	54	52	47	49	42	50	52	51	47	50	8
7	36	39	56	51	50	48	43	44	38		48	47	44	46	7
6	31	35	50	47	45	44	39	40	34	43	45	44	41	42	6
5	27	31	45	43	41	40	36	36	31	40	41	40	38	38	5
4	23	26	40	39	36	36	32	31	27		37	37	35	34	4
3	19	22	34	35	32	33	29	27	23	34	33	34	32	31	3
2	14	18	29	31	28	29	25	23	19		29	30	28	27	2
1	10	13	24	27	23	25	21	19		27	25	27	25	23	1
0		9	18	23				14		24	22	23	22		0

Scaled score	Speed of information processing				Spatial skills				Verbal/Academic skills								Scaled score
	WAIS-R DIGIT SYMB	WAIS DIGIT SYMB	TRAIL A	DIGIT TIME	WAIS-R BLOCK DESGN	WAIS BLOCK DESGN	TPT TIME	SPAT REL	WAIS-R VOCAB	WAIS VOCAB	APHAS SCRIN	BSTN NAME	BDAE COMP	PIAT RECOG	PIAT COMP	PIAT SPELL	
19	100		100		99		100		90								19
18	100	100	97	93			97		86								18
17	99	100	93	89	91		93		82	90				81	84		17
16	95	98	88	85	87	84	89		78	85		82		77	81	83	16
15	91	93	84	81	83	80	85		73	80				74	77		15
14	87	89	80	77	79	76	81		69	76		74		70	73	75	14
13	83	85	75	73	75	71	77		65	71	70	70		66	70	71	13
12	79	80	71	69	71	67	73		61	67			63	63	66	67	12
11	75	76	66	64	67	63	69	61	57	62	62	62		59	62	63	11
10	71	72	62	60	63	59	64		53	58	58	58		55	59	59	10
9	67	67	57	56	59	55	60	50	48	53	54	54	48	52	55	55	9
8	63	63	53	52	55	51	56		44	49	49	50		48	51	51	8
7	59	59	48	48	51	47	52	38	40	44	45	46	39	44	48	47	7
6	55	54	44	44	47	43	48		36	40	41	42		41	44	43	6
5	51	50	40	40	43	39	44	27	32	35	37	38	29	37	40	39	5
4	47	46	35	36	39	35	40		28	30	32	34		33	37	35	4
3	43	41	31		35	30	36	15	24	26	28	30	20	30	33		3
2	39	37	26		31	26	32	9	19	21	24	26	15	26			2
1	35	32	22		27	22	28	4	15	17	20	23	10				1
0		28				18	24	0		12	16				22	19	0

(continued)

## APPENDIX D (continued)

Sex: Male  
Education: 9-11 years  
Age: 70-74 years  
Race: Caucasian

Scaled score	Verbal episodic memory									Visual episodic memory						Scaled score
	STORY-T1	STORY LEARN	STORY RECALL	STORY LOSS	CVLT-1	CVLT-5	CVLT-TOT	CVLT-SDFR	CVLT-LDFR	TPT MEM	TPT LOC	FIGUR-T1	FIGUR LEARN	FIGUR RECALL	FIGUR LOSS	
19	96		90		98		97				95	100	99	89		19
18	91	96	86				93				91	96	95	85		18
17	87	92	82		89		89			88		91		82		17
16	83	87	78			83	85	81	87			87	87	78		16
15	79	83	74		80		81	78			79					15
14	74	78	70	68	76	76	76	74	78		75	79	79	70		14
13	70	74	66		71		72	70		72		74	74	67	61	13
12	66	69	62	61	66	68	68	66	69		68	70	70		57	12
11	62	65	58	57	62	64	64	62	65	64	64	66	66	59	54	11
10	57	60	54	54	57	60	60	59	60		60	62	62	55	50	10
9	53	56	49	50	53	56	56	55	56	56	56	57	58	52	47	9
8	49	51	45	47	48	52	52	51	51		52	53	54	48	43	8
7	44	46	41	43	43	48	48	47	47	48	48	49	50	44	40	7
6	40	42	37	40		44	43	44	42	44		45	46	40	36	6
5	36	37	33	36	34	40	39	40	38	40	40	41	42	37	32	5
4	32	33	29	33		36	35	36	33	36		36	38	33	29	4
3	27	28	25	29	25	32	31		29	32		32	34	29	25	3
2	23	24	21	26	21	28	27	28	24	28		28	30	26	22	2
1	19		17	22	16	24	23	25	20	24				22		1
0			19			20	19	21								0

Scaled score	Lateralized sensorimotor/Psychomotor comparisons															Scaled score
	TAP DH	TAP NDH	GRIP DH	GRIP NDH	PEG DH	PEG NDH	TPT DH	TPT NDH	TPT BH	SP R	SP L	SP TOT	TFR R	TFR L		
19	94	92	94	93	100	100	96	99	100				84	85	19	
18	90	88	88	88	100	97	92	95	96				81	81	18	
17	86	84	83	83	97	93	88	91	92				77	77	17	
16	81	80	78	78	93	89	84	86	87				74	74	16	
15	77	76	73	73	89	85	80	82	83			75	70	70	15	
14	73	71	68	68	85	81	75	78	79	70			67	67	14	
13	69	67	63	63	80	77	71	74	74		68	68	63	63	13	
12	65	63	58	58	76	73	67	70	70	63			60	60	12	
11	60	59	53	53	72	69	63	65	65		60	62	56	56	11	
10	56	55	48	48	67	65	59	61	61	55	56	58	52	53	10	
9	52	51	43	43	63	61	55	57	57	52	52	55	49	49	9	
8	48	47	38	38	59	57	51	53	52	48	48	52	45	46	8	
7	44	43	32	33	55	53	47	48	48	44	44	49	42	42	7	
6	40	39	27	28	50	49	42	44	43	40	40	45	38	39	6	
5	35	35	22	23	46	45	38	40	39	36	36	42	35	35	5	
4	31	31	17	18	42	41	34	36	35	33	32	39	31	32	4	
3	27	27	12	13	38	37	30	32	30	29	28	35	28	28	3	
2	23	23	7	9	33	33	26	27	26	25	24	32	24	25	2	
1	19	18	2	4	29	29	22	23	22	21	21	29	21	21	1	
0	14	14	0	0	25	25		19							0	

Note. See page 16 for a description of acronyms.



## APPENDIX D (continued)

Sex: Male  
Education: 9-11 years  
Age: 75-79 years  
Race: Caucasian

	Summary scores			Executive functions					Attention/Working memory							
Scaled score	WAIS-R FSIQ	WAIS FSIQ	AIR	CAT ERROR	TRAIL B	THUR FLU	FAS	ANIMALS	WAIS-R DIGIT SPAN	WAIS DIGIT SPAN	PASAT	DIGIT ERROR	SSHOR RHYM	SPCH PERC	Scaled score	
19	85		100	100	100	94	87	97	85						19	
18	81	86	100	97	100	90	83	93	81	83				92	18	
17	76	81	100	93	97	87	80	88			88				17	
16	72	77	100	89	92	83	76	84	74		84				16	
15	68	73	100	85	88	79	72	80	70	73	80	76	70	80	15	
14	64	68	98	81	84	75	69	76	66	70	76		66		14	
13	59	64	92	77	79	71	65	71	62	66	72	69		72	13	
12	55	60	87	73	75	68	62	67	58		68	65	60	69	12	
11	51	55	81	69	70	64	58	63	54	60	65	62		65	11	
10	47	51	76	65	66	60	54	58	50	57	61	58	54	61	10	
9	42	47	71	61	61	56	51	54		53	57	55	51	57	9	
8	38	42	65	57	57	52	47	50	42	50	53	51	48	53	8	
7	34	38	60	53	52	49	44	46	38		49	48	45	49	7	
6	30	34	55	49	48	45	40	41	34	44	45	45	42	45	6	
5	26	29	49	45	43	41	36	37	31	41	42	41	38	41	5	
4	21	25	44	41	39	37	33	33	27		38	38	35	37	4	
3	17	21	39	37	35	33	29	29	23	34	34	34	32	33	3	
2	13	16	33	33	30	30	26	24	19		30	31	29	29	2	
1	9	12	28	29	26	26	22	20		28	26	27	26	25	1	
0		8	22	25				16		24	22	24	23		0	

Scaled score	Speed of information processing				Spatial skills				Verbal/Academic skills								Scaled score
	WAIS-R DIGIT SYMB	WAIS DIGIT SYMB	TRAIL A	DIGIT TIME	WAIS-R BLOCK DESGN	WAIS BLOCK DESGN	TPT TIME	SPAT REL	WAIS-R VOCAB	WAIS VOCAB	APHAS SCRIN	BSTN NAME	BDAE COMP	PIAT RECOG	PIAT COMP	PIAT SPELL	
19	100		100		100		100		89								19
18	100	100	99	96			100		85								18
17	100	100	95	92	93		97		80	90				80	85		17
16	98	100	90	88	89	85	93		76	85		84		76	81	83	16
15	94	96	86	84	85	81	89		72	80				73	77		15
14	90	91	81	80	81	77	85		68	76		76		69	74	75	14
13	86	87	77	76	77	73	81		64	71	71	72		65	70	71	13
12	82	83	72	71	73	69	77		60	67			63	62	66	67	12
11	78	78	68	67	69	64	73	61	55	62	62	64		58	63	63	11
10	74	74	63	63	65	60	69		51	58	58	60		54	59	59	10
9	70	70	59	59	61	56	65	50	47	53	54	56	48	51	55	55	9
8	66	65	55	55	57	52	61		43	49	50	52		47	52	51	8
7	62	61	50	51	53	48	57	38	39	44	45	49	39	43	48	47	7
6	58	57	46	47	49	44	52		35	40	41	45		40	44	43	6
5	54	52	41	43	45	40	48	27	31	35	37	41	29	36	41	39	5
4	50	48	37	39	41	36	44		26	30	33	37		32	37	35	4
3	46	43	32		37	32	40	15	22	26	28	33	20	29	33		3
2	42	39	28		33	28	36	10	18	21	24	29	15	25			2
1	38	35	23		29	23	32	4	14	17	20	25	10				1
0		30				19	28	0		12	16				22	19	0

(continued)

## APPENDIX D (continued)

Sex: Male  
Education: 9-11 years  
Age: 75-79 years  
Race: Caucasian

Scaled score	Verbal episodic memory									Visual episodic memory						Scaled score
	STORY-T1	STORY LEARN	STORY RECALL	STORY LOSS	CVLT-1	CVLT-5	CVLT-TOT	CVLT-SDFR	CVLT-LDFR	TPT MEM	TPT LOC	FIGUR-T1	FIGUR LEARN	FIGUR RECALL	FIGUR LOSS	
19	97		90		100		100				96	100	100	89		19
18	92	97	86				96				93	97	96	86		18
17	88	93	82		92		92			91		93		82		17
16	84	88	78			87	88	84	90			89	88	78		16
15	80	84	74		83		84	81			81					15
14	75	79	70	68	78	79	80	77	81		77	80	80	71		14
13	71	75	66		73		76	73		75		76	76	67	61	13
12	67	70	62	61	69	71	71	69	72		69	72	72		57	12
11	62	66	58	57	64	67	67	65	68	67	65	67	68	60	54	11
10	58	61	54	54	60	63	63	62	63		61	63	64	56	50	10
9	54	57	50	50	55	59	59	58	59	59	58	59	60	52	47	9
8	50	52	46	47	51	55	55	54	54		54	55	56	48	43	8
7	45	48	42	43	46	51	51	50	50	51	50	51	52	45	40	7
6	41	43	38	40		47	47	47	45	47		46	48	41	36	6
5	37	38	34	36	37	43	43	43	41	43	42	42	44	37	33	5
4	33	34	30	33		39	38	39	36	39		38	40	34	29	4
3	28	29	26	29	28	35	34		32	35		34	36	30	26	3
2	24	25	22	26	23	31	30	31	27	31		29	32	26	22	2
1	20		17	23	18	27	26	28	23	27				22		1
0				19		23	22	24								0

Scaled score	Lateralized sensorimotor/Psychomotor comparisons															Scaled score
	TAP DH	TAP NDH	GRIP DH	GRIP NDH	PEG DH	PEG NDH	TPT DH	TPT NDH	TPT BH	SP R	SP L	SP TOT	TFR R	TFR L		
19	96	93	96	95	100	100	99	100	100				84	85	19	
18	92	89	91	90	100	100	95	98	99				81	81	18	
17	88	85	86	86	100	96	91	93	95				77	78	17	
16	83	81	81	81	96	92	87	89	90				74	74	16	
15	79	77	76	76	92	88	83	85	86			77	70	71	15	
14	75	73	70	71	88	84	79	81	82	72			67	67	14	
13	71	68	65	66	84	80	75	77	77		69	71	63	64	13	
12	67	64	60	61	79	76	70	72	73	65			60	60	12	
11	63	60	55	56	75	72	66	68	68		61	64	56	56	11	
10	58	56	50	51	71	68	62	64	64	57	57	61	53	53	10	
9	54	52	45	46	67	64	58	60	60	54	53	57	49	49	9	
8	50	48	40	41	62	60	54	55	55	50	49	54	46	46	8	
7	46	44	35	36	58	56	50	51	51	46	45	51	42	42	7	
6	42	40	30	31	54	52	46	47	47	42	41	48	39	39	6	
5	37	36	25	26	50	48	42	43	42	38	37	44	35	35	5	
4	33	32	20	21	45	44	37	39	38	35	33	41	32	32	4	
3	29	28	14	16	41	40	33	34	33	31	29	38	28	28	3	
2	25	24	9	11	37	36	29	30	29	27	25	34	24	25	2	
1	21	20	4	6	33	32	25	26	25	23	21	31	21	21	1	
0	17	15	0	1	28	28		22							0	

Note. See page 16 for a description of acronyms.

## APPENDIX D (continued)

Sex: Male

Education: 9-11 years

Age: 80-85 years

Race: Caucasian

Summary scores				Executive functions					Attention/Working memory						Scaled score
Scaled score	WAIS-R FSIQ	WAIS FSIQ	AIR	CAT ERROR	TRAIL B	THUR FLU	FAS	ANIMALS	WAIS-R DIGIT SPAN	WAIS DIGIT SPAN	PASAT	DIGIT ERROR	SSHOR RHYM	SPCH PERC	
19	85		100	100	100	95	87	98	85						19
18	81	84	100	99	100	91	84	94	81	83				95	18
17	76	80	100	95	100	87	80	90			89				17
16	72	76	100	91	96	84	77	86	74		85				16
15	68	71	100	87	91	80	73	81	70	73	81	76	70	84	15
14	64	67	100	83	87	76	69	77	66	70	77		67		14
13	59	63	97	79	82	72	66	73	62	67	73	69		76	13
12	55	58	92	75	78	68	62	69	58		69	66	61	72	12
11	51	54	86	71	73	65	59	64	54	60	66	63		68	11
10	47	50	81	67	69	61	55	60	50	57	62	59	55	64	10
9	42	46	76	63	64	57	51	56		54	58	56	52	60	9
8	38	41	70	59	60	53	48	52	42	51	54	52	48	56	8
7	34	37	65	55	55	49	44	47	38		50	49	45	52	7
6	30	33	60	51	51	46	41	43	34	44	46	45	42	48	6
5	26	28	54	47	47	42	37	39	31	41	43	42	39	44	5
4	21	24	49	43	42	38	34	34	27		39	38	36	40	4
3	17	20	43	39	38	34	30	30	23	35	35	35	33	36	3
2	13	15	38	35	33	31	26	26	19		31	32	30	33	2
1	9	11	33	31	29	27	23	22		28	27	28	27	29	1
0		7	27	27				17		25	23	25	23		0

Scaled score	Speed of information processing				Spatial skills				Verbal/Academic skills								Scaled score
	WAIS-R DIGIT SYMB	WAIS DIGIT SYMB	TRAIL A	DIGIT TIME	WAIS-R BLOCK DESGN	WAIS BLOCK DESGN	TPT TIME	SPAT REL	WAIS-R VOCAB	WAIS VOCAB	APHAS SCRIN	BSTN NAME	BDAE COMP	PIAT RECOG	PIAT COMP	PIAT SPELL	
19	100		100		100		100		89								19
18	100	100	100	99			100		85								18
17	100	100	96	95	93		100		80	90				79	85		17
16	98	100	92	91	89	86	99		76	85		87		75	81	83	16
15	94	98	87	87	85	82	95		72	80				72	78		15
14	90	94	83	83	81	78	91		68	76		79		68	74	75	14
13	86	89	79	79	77	74	86		64	71	71	75		64	70	71	13
12	82	85	74	75	73	70	82		60	67			63	61	67	67	12
11	78	81	70	71	69	66	78	62	55	62	62	67		57	63	63	11
10	74	76	65	67	65	62	74		51	58	58	63		53	59	59	10
9	70	72	61	63	61	58	70	50	47	53	54	59	49	50	56	55	9
8	66	68	56	59	57	54	66		43	49	50	55		46	52	51	8
7	62	63	52	55	53	49	62	39	39	44	46	51	39	42	48	47	7
6	58	59	47	51	49	45	58		35	40	41	47		39	45	43	6
5	54	55	43	47	45	41	54	27	31	35	37	43	29	35	41	39	5
4	50	50	39	43	41	37	50		26	30	33	40		31	37	35	4
3	46	46	34		37	33	46	16	22	26	29	36	20	28	34		3
2	42	42	30		33	29	41	10	18	21	24	32	15	24			2
1	38	37	25		29	25	37	4	14	17	20	28	10				1
0		33				21	33	0		12	16				23	19	0

(continued)

## APPENDIX D (continued)

Sex: Male  
Education: 9-11 years  
Age: 80-85 years  
Race: Caucasian

Scaled score	Verbal episodic memory									Visual episodic memory						Scaled score
	STORY-T1	STORY LEARN	STORY RECALL	STORY LOSS	CVLT-1	CVLT-5	CVLT-TOT	CVLT-SDFR	CVLT-LDFR	TPT MEM	TPT LOC	FIGUR-T1	FIGUR LEARN	FIGUR RECALL	FIGUR LOSS	
19	98		91		100		100				98	100	100	90		19
18	93	98	87				100				94	99	98	86		18
17	89	94	83		95		96			95		95		83		17
16	85	89	79			90	92	88	94			90	90	79		16
15	81	85	75		86		88	84			83					15
14	76	80	70	68	81	83	84	81	85		79	82	82	71		14
13	72	76	66		77		80	77		79		78	78	68	61	13
12	68	71	62	61	72	75	76	73	76		71	73	74		57	12
11	64	67	58	57	67	71	72	69	71	71	67	69	70	60	54	11
10	59	62	54	54	63	67	67	66	67		63	65	66	56	50	10
9	55	58	50	50	58	63	63	62	62	63	59	61	62	53	47	9
8	51	53	46	47	54	59	59	58	58		55	56	58	49	43	8
7	46	49	42	44	49	55	55	54	53	55	52	52	54	45	40	7
6	42	44	38	40		51	51	50	49	51		48	50	42	36	6
5	38	40	34	37	40	47	47	47	44	47	44	44	45	38	33	5
4	34	35	30	33		43	43	43	40	43		40	41	34	29	4
3	29	31	26	30	31	39	39		36	39		35	37	30	26	3
2	25	26	22	26	26	35	34	35	31	35		31	33	27	22	2
1	21		18	23	22	31	30	32	27	31				23		1
0				19		27	26	28								0

Scaled score	Lateralized sensorimotor/Psychomotor comparisons															Scaled score
	TAP DH	TAP NDH	GRIP DH	GRIP NDH	PEG DH	PEG NDH	TPT DH	TPT NDH	TPT BH	SP R	SP L	SP TOT	TFR R	TFR L		
19	99	94	99	98	100	100	100	100	100				84	85	19	
18	94	90	94	93	100	100	99	100	100				81	81	18	
17	90	86	88	88	100	99	95	97	98				77	78	17	
16	86	82	83	83	100	95	91	92	94				74	74	16	
15	82	78	78	78	96	91	87	88	90			80	70	71	15	
14	78	74	73	73	92	87	83	84	85	75			67	67	14	
13	74	70	68	68	88	83	79	80	81		70	74	63	64	13	
12	69	66	63	63	83	79	75	76	76	67			60	60	12	
11	65	61	58	58	79	75	70	71	72		62	67	56	57	11	
10	61	57	53	53	75	71	66	67	68	60	58	64	53	53	10	
9	57	53	48	49	71	67	62	63	63	56	54	60	49	50	9	
8	53	49	43	44	66	63	58	59	59	52	50	57	46	46	8	
7	48	45	37	39	62	59	54	54	54	48	46	54	42	42	7	
6	44	41	32	34	58	55	50	50	50	45	42	51	39	39	6	
5	40	37	27	29	54	51	46	46	46	41	38	47	35	35	5	
4	36	33	22	24	49	47	42	42	41	37	34	44	32	32	4	
3	32	29	17	19	45	43	37	38	37	33	30	41	28	28	3	
2	28	25	12	14	41	39	33	33	33	30	26	37	25	25	2	
1	23	21	7	9	37	35	29	29	28	26	23	34	21	21	1	
0	19	17	2	4	32	31		25							0	

Note. See page 16 for a description of acronyms.

## APPENDIX D (continued)

Sex: Male  
Education: 12 years  
Age: 20-34 years  
Race: Caucasian

Summary scores				Executive functions					Attention/Working memory						Scaled score
Scaled score	WAIS-R FSIQ	WAIS FSIQ	AIR	CAT ERROR	TRAIL B	THUR FLU	FAS	ANIMALS	WAIS-R DIGIT SPAN	WAIS DIGIT SPAN	PASAT	DIGIT ERROR	SSHOR RHYM	SPCH PERC	
19	89		91	82	84	83	79	81	82						19
18	84	92	86	78	80	79	75	77	78	76				77	18
17	80	87	80	74	75	76	72	73			77				17
16	76	83	75	69	71	72	68	68	71		73				16
15	72	79	70	65	66	68	64	64	67	66	69	66	60	65	15
14	67	74	64	61	62	64	61	60	63	63	65		57		14
13	63	70	59	57	57	60	57	55	59	59	61	59		57	13
12	59	66	54	53	53	57	54	51	55		57	56	51	53	12
11	55	61	48	49	48	53	50	47	51	53	53	52		49	11
10	51	57	43	45	44	49	46	43	47	50	50	49	45	45	10
9	46	53	38	41	39	45	43	38		47	46	45	42	41	9
8	42	48	32	37	35	41	39	34	39	43	42	42	39	37	8
7	38	44	27	33	31	38	36	30	35		38	38	36	33	7
6	34	40	22	29	26	34	32	26	31	37	34	35	32	29	6
5	29	35	16	25	22	30	28	21	28	34	30	32	29	26	5
4	25	31	11	21	17	26	25	17	24		27	28	26	22	4
3	21	27	5	17	13	23	21	13	20	27	23	25	23	18	3
2	17	23	0	13	8	19	18	8	16		19	21	20	14	2
1	12	18	0	9	4	15	14	4		21	15	18	17	10	1
0		14	0	5				0		17	11	14	14		0

Scaled score	Speed of information processing				Spatial skills				Verbal/Academic skills								Scaled score
	WAIS-R DIGIT SYMB	WAIS DIGIT SYMB	TRAIL A	DIGIT TIME	WAIS-R BLOCK DESGN	WAIS BLOCK DESGN	TPT TIME	SPAT REL	WAIS-R VOCAB	WAIS VOCAB	APHAS SCRIN	BSTN NAME	BDAE COMP	PIAT RECOG	PIAT COMP	PIAT SPELL	
19	88		84		86		82		91								19
18	84	83	80	80			78		86								18
17	80	78	75	76	78		74		82	85				81	78		17
16	76	74	71	72	74	71	70		78	80		72		77	74	79	16
15	72	70	66	68	70	67	66		74	76				73	71		15
14	68	65	62	64	66	62	62		70	71		64		70	67	72	14
13	64	61	57	60	62	58	57		66	67	65	60		66	63	68	13
12	61	57	53	56	58	54	53		62	62			60	62	60	64	12
11	57	52	49	52	54	50	49	56	57	57	57	52		59	56	60	11
10	53	48	44	48	50	46	45		53	53	52	48		55	52	56	10
9	49	44	40	44	46	42	41	44	49	48	48	44	46	51	49	52	9
8	45	39	35	40	42	38	37		45	44	44	40		48	45	48	8
7	41	35	31	35	38	34	33	33	41	39	40	36	36	44	41	44	7
6	37	30	26	31	34	30	29		37	35	36	32		40	38	40	6
5	33	26	22	27	30	26	25	21	32	30	31	28	27	37	34	36	5
4	29	22	17	23	26	21	21		28	26	27	24		33	30	32	4
3	25	17	13		22	17	17	10	24	21	23	20	17	29	27		3
2	21	13	9		18	13	12	4	20	17	19	17	12	26			2
1	17	9	4		14	9	8	0	16	12	14	13	7				1
0		4				5	4	0		7	10				16	16	0

(continued)

## APPENDIX D (continued)

Sex: Male  
Education: 12 years  
Age: 20-34 years  
Race: Caucasian

Scaled score	Verbal episodic memory									Visual episodic memory						Scaled score
	STORY-T1	STORY LEARN	STORY RECALL	STORY LOSS	CVLT-1	CVLT-5	CVLT-TOT	CVLT-SDFR	CVLT-LDFR	TPT MEM	TPT LOC	FIGUR-T1	FIGUR LEARN	FIGUR RECALL	FIGUR LOSS	
19	87		85		87		81				79	83	82	83		19
18	83	87	81				77				75	79	78	79		18
17	78	83	77		78		73			74		75		76		17
16	74	78	73			68	69	67	73			71	70	72		16
15	70	73	69		69		65	63			64					15
14	66	69	65	65	64	60	61	59	64		60	62	62	64		14
13	61	64	61		60		56	55		58		58	58	61	59	13
12	57	60	57	58	55	53	52	52	55		52	54	54		56	12
11	53	55	53	55	50	49	48	48	51	50	48	49	50	53	52	11
10	49	51	49	51	46	45	44	44	46		44	45	45	50	49	10
9	44	46	45	48	41	41	40	40	42	42	40	41	41	46	45	9
8	40	42	41	44	37	37	36	37	37		37	37	37	42	42	8
7	36	37	37	41	32	33	32	33	33	34	33	32	33	38	38	7
6	31	33	32	37		29	28	29	28	30		28	29	35	35	6
5	27	28	28	34	23	25	23	25	24	26	25	24	25	31	31	5
4	23	24	24	30		21	19	21	19	22		20	21	27	28	4
3	19	19	20	27	14	17	15		15	18		16	17	23	24	3
2	14	15	16	23	9	13	11	14	10	14		11	13	20	21	2
1	10		12	20	5	9	7	10	6	10				16		1
0				17		5	3	6								0

Scaled score	Lateralized sensorimotor/Psychomotor comparisons															Scaled score
	TAP DH	TAP NDH	GRIP DH	GRIP NDH	PEG DH	PEG NDH	TPT DH	TPT NDH	TPT BH	SP R	SP L	SP TOT	TFR R	TFR L		
19	83	80	82	80	84	81	82	81	81				82	82	19	
18	79	76	77	75	80	77	78	77	77				79	79	18	
17	75	72	72	70	76	73	74	73	72				75	75	17	
16	71	68	66	66	72	69	70	69	68				72	72	16	
15	66	64	61	61	67	65	65	65	64			64	68	68	15	
14	62	60	56	56	63	61	61	60	59	61			65	64	14	
13	58	56	51	51	59	57	57	56	55		59	58	61	61	13	
12	54	52	46	46	55	53	53	52	50	53			58	57	12	
11	50	48	41	41	50	49	49	48	46		51	51	54	54	11	
10	46	44	36	36	46	45	45	43	42	46	47	48	51	50	10	
9	41	40	31	31	42	41	41	39	37	42	43	44	47	47	9	
8	37	36	26	26	38	37	37	35	33	38	39	41	44	43	8	
7	33	32	21	21	33	33	32	31	28	35	35	38	40	40	7	
6	29	27	15	16	29	29	28	27	24	31	31	35	36	36	6	
5	25	23	10	11	25	25	24	22	20	27	27	31	33	33	5	
4	20	19	5	6	21	21	20	18	15	23	23	28	29	29	4	
3	16	15	0	1	16	17	16	14	11	19	19	25	26	26	3	
2	12	11	0	0	12	13	12	10	7	16	15	21	22	22	2	
1	8	7	0	0	8	9	8	5	2	12	11	18	19	19	1	
0	4	3	0	0	4	5		1							0	

Note. See page 16 for a description of acronyms.

## APPENDIX D (continued)

Sex: Male  
Education: 12 years  
Age: 35-39 years  
Race: Caucasian

Summary scores				Executive functions					Attention/Working memory						Scaled score
Scaled score	WAIS-R FSIQ	WAIS FSIQ	AIR	CAT ERROR	TRAIL B	THUR FLU	FAS	ANIMALS	WAIS-R DIGIT SPAN	WAIS DIGIT SPAN	PASAT	DIGIT ERROR	SSHOR RHYM	SPCH PERC	
19	87		95	85	86	85	80	84	82						19
18	83	89	89	81	82	81	76	80	78	77				78	18
17	78	85	84	77	77	77	73	75			78				17
16	74	81	79	73	73	73	69	71	71		74				16
15	70	77	73	69	68	70	66	67	67	67	71	67	62	66	15
14	66	72	68	65	64	66	62	63	63	64	67		59		14
13	62	68	63	61	60	62	58	58	59	60	63	61		58	13
12	57	64	57	57	55	58	55	54	55		59	57	52	54	12
11	53	59	52	53	51	55	51	50	51	54	55	54		50	11
10	49	55	47	49	46	51	48	45	47	51	51	50	46	46	10
9	45	51	41	45	42	47	44	41		48	48	47	43	42	9
8	40	46	36	41	37	43	41	37	39	44	44	43	40	38	8
7	36	42	30	37	33	39	37	33	35		40	40	37	34	7
6	32	38	25	33	28	36	33	28	31	38	36	36	34	30	6
5	28	33	20	29	24	32	30	24	28	35	32	33	30	27	5
4	23	29	14	25	19	28	26	20	24		28	30	27	23	4
3	19	25	9	21	15	24	23	16	20	28	25	26	24	19	3
2	15	20	4	17	11	20	19	11	16		21	23	21	15	2
1	11	16	0	13	6	17	15	7		22	17	19	18	11	1
0		12	0	9				3		18	13	16	15		0

Speed of information processing					Spatial skills				Verbal/Academic skills								Scaled score
Scaled score	WAIS-R DIGIT SYMB	WAIS DIGIT SYMB	TRAIL A	DIGIT TIME	WAIS-R BLOCK DESGN	WAIS BLOCK DESGN	TPT TIME	SPAT REL	WAIS-R VOCAB	WAIS VOCAB	APHAS SCRIN	BSTN NAME	BDAE COMP	PIAT RECOG	PIAT COMP	PIAT SPELL	
19	91		87		87		84		89								19
18	87	90	83	81			79		85								18
17	83	86	79	77	79		75		81	85				80	79		17
16	80	82	74	73	75	73	71		77	80		70		77	75	79	16
15	76	77	70	69	71	69	67		73	76				73	71		15
14	72	73	65	65	67	65	63		68	71		62		69	68	71	14
13	68	69	61	61	63	61	59		64	67	65	58		66	64	67	13
12	64	64	56	57	59	57	55		60	62			60	62	60	63	12
11	60	60	52	53	55	53	51	56	56	57	57	50		58	57	59	11
10	56	56	47	49	51	48	47		52	53	53	46		55	53	55	10
9	52	51	43	45	47	44	43	45	48	48	49	42	46	51	49	51	9
8	48	47	39	41	43	40	39		44	44	44	38		47	46	47	8
7	44	42	34	37	39	36	34	33	39	39	40	34	36	44	42	43	7
6	40	38	30	33	35	32	30		35	35	36	30		40	38	39	6
5	36	34	25	28	31	28	26	22	31	30	32	26	27	36	35	36	5
4	32	29	21	24	27	24	22		27	26	28	22		33	31	32	4
3	28	25	16		23	20	18	10	23	21	23	18	17	29	27		3
2	24	21	12		19	16	14	5	19	17	19	15	12	25			2
1	20	16	7		15	12	10	0	14	12	15	11	7				1
0		12				7	6	0		7	11				16	16	0

(continued)

## APPENDIX D (continued)

Sex: Male  
Education: 12 years  
Age: 35-39 years  
Race: Caucasian

Scaled score	Verbal episodic memory									Visual episodic memory						Scaled score
	STORY-T1	STORY LEARN	STORY RECALL	STORY LOSS	CVLT-1	CVLT-5	CVLT-TOT	CVLT-SDFR	CVLT-LDFR	TPT MEM	TPT LOC	FIGUR-T1	FIGUR LEARN	FIGUR RECALL	FIGUR LOSS	
19	89		86		88		82				82	86	85	84		19
18	85	89	82				78				79	82	81	80		18
17	80	85	78		79		74			75		78		77		17
16	76	80	74			70	70	68	74			74	73	73		16
15	72	76	70		70		66	64			67					15
14	67	71	66	65	65	62	62	60	65		63	65	65	65		14
13	63	67	62		60		58	57		59		61	61	62	60	13
12	59	62	58	58	56	54	54	53	56		55	57	57		56	12
11	55	57	53	55	51	50	49	49	52	51	51	53	53	54	53	11
10	50	53	49	52	47	46	45	45	47		48	48	49	50	49	10
9	46	48	45	48	42	42	41	41	43	43	44	44	45	47	46	9
8	42	44	41	45	38	38	37	38	38		40	40	41	43	42	8
7	38	39	37	41	33	34	33	34	34	35	36	36	37	39	39	7
6	33	35	33	38		30	29	30	29	31		31	33	36	35	6
5	29	30	29	34	24	26	25	26	25	27	28	27	28	32	31	5
4	25	26	25	31		22	21	23	20	23		23	24	28	28	4
3	20	21	21	27	15	18	16		16	19		19	20	24	24	3
2	16	17	17	24	10	14	12	15	11	15		14	16	21	21	2
1	12		13	20	5	10	8	11	7	11				17		1
0				17		6	4	7								0

Scaled score	Lateralized sensorimotor/Psychomotor comparisons															Scaled score
	TAP DH	TAP NDH	GRIP DH	GRIP NDH	PEG DH	PEG NDH	TPT DH	TPT NDH	TPT BH	SP R	SP L	SP TOT	TFR R	TFR L		
19	84	81	81	80	87	84	83	84	84				82	82	19	
18	80	77	76	75	83	80	79	80	79				79	79	18	
17	76	73	71	70	79	76	75	75	75				75	75	17	
16	71	69	66	65	75	72	71	71	71				72	72	16	
15	67	65	60	60	70	68	67	67	66			65	68	68	15	
14	63	61	55	55	66	64	62	63	62	62			65	65	14	
13	59	57	50	50	62	60	58	58	57		60	58	61	61	13	
12	55	52	45	45	57	56	54	54	53	54			58	58	12	
11	50	48	40	40	53	52	50	50	49		53	52	54	54	11	
10	46	44	35	35	49	48	46	46	44	47	49	49	51	51	10	
9	42	40	30	30	45	44	42	42	40	43	45	45	47	47	9	
8	38	36	25	25	40	40	38	37	35	39	41	42	44	44	8	
7	34	32	20	20	36	36	34	33	31	35	37	39	40	40	7	
6	30	28	15	15	32	32	30	29	27	32	33	35	37	36	6	
5	25	24	9	10	28	28	25	25	22	28	29	32	33	33	5	
4	21	20	4	5	23	24	21	21	18	24	25	29	30	29	4	
3	17	16	0	0	19	20	17	16	14	20	21	26	26	26	3	
2	13	12	0	0	15	16	13	12	9	16	17	22	23	22	2	
1	9	8	0	0	11	12	9	8	5	13	13	19	19	19	1	
0	4	4	0	0	6	8		4							0	

Note. See page 16 for a description of acronyms.



## APPENDIX D (continued)

Sex: Male  
Education: 12 years  
Age: 40-44 years  
Race: Caucasian

Summary scores				Executive functions					Attention/Working memory						Scaled score
Scaled score	WAIS-R FSIQ	WAIS FSIQ	AIR	CAT ERROR	TRAIL B	THUR FLU	FAS	ANIMALS	WAIS-R DIGIT SPAN	WAIS DIGIT SPAN	PASAT	DIGIT ERROR	SSHOR RHYM	SPCH PERC	
19	87		97	87	88	87	81	85	82						19
18	83	88	92	83	83	83	77	81	78	77				78	18
17	78	84	86	79	79	79	73	77			79				17
16	74	80	81	75	74	75	70	72	71		75				16
15	70	75	76	71	70	72	66	68	67	67	72	68	62	67	15
14	66	71	70	67	65	68	63	64	63	64	68		59		14
13	62	67	65	63	61	64	59	60	59	61	64	61		59	13
12	57	62	59	59	56	60	56	55	55		60	58	53	55	12
11	53	58	54	55	52	56	52	51	51	54	56	54		51	11
10	49	54	49	51	48	53	48	47	47	51	52	51	47	47	10
9	45	49	43	47	43	49	45	43		48	49	47	44	43	9
8	40	45	38	43	39	45	41	38	39	45	45	44	40	39	8
7	36	41	33	38	34	41	38	34	35		41	41	37	35	7
6	32	37	27	34	30	37	34	30	31	38	37	37	34	31	6
5	28	32	22	30	25	34	30	25	28	35	33	34	31	27	5
4	23	28	17	26	21	30	27	21	24		29	30	28	23	4
3	19	24	11	22	16	26	23	17	20	29	26	27	25	19	3
2	15	19	6	18	12	22	20	13	16		22	23	22	15	2
1	11	15	0	14	7	18	16	8		22	18	20	19	12	1
0		11	0	10				4		19	14	16	15		0

Scaled score	Speed of information processing				Spatial skills				Verbal/Academic skills								Scaled score
	WAIS-R DIGIT SYMB	WAIS DIGIT SYMB	TRAIL A	DIGIT TIME	WAIS-R BLOCK DESGN	WAIS BLOCK DESGN	TPT TIME	SPAT REL	WAIS-R VOCAB	WAIS VOCAB	APHAS SCRIN	BSTN NAME	BDAE COMP	PIAT RECOG	PIAT COMP	PIAT SPELL	
19	91		89		87		85		89								19
18	87	93	85	82			81		85								18
17	83	88	80	78	79		77		81	85				80	79		17
16	80	84	76	74	75	74	73		77	80		70		76	75	79	16
15	76	80	71	70	71	70	68		73	76				73	72		15
14	72	75	67	66	67	66	64		68	71		62		69	68	71	14
13	68	71	62	62	63	62	60		64	67	66	58		65	64	67	13
12	64	67	58	58	59	58	56		60	62			60	62	61	63	12
11	60	62	54	54	55	54	52	57	56	57	57	50		58	57	59	11
10	56	58	49	50	51	50	48		52	53	53	46		54	53	55	10
9	52	53	45	46	47	46	44	45	48	48	49	42	46	51	50	51	9
8	48	49	40	41	43	42	40		44	44	45	38		47	46	47	8
7	44	45	36	37	39	37	36	34	39	39	40	34	36	43	42	43	7
6	40	40	31	33	35	33	32		35	35	36	30		40	39	39	6
5	36	36	27	29	31	29	28	22	31	30	32	27	27	36	35	35	5
4	32	32	22	25	27	25	23		27	26	28	23		32	31	31	4
3	28	27	18		23	21	19	11	23	21	24	19	17	29	28		3
2	24	23	14		19	17	15	5	19	17	19	15	12	25			2
1	20	19	9		15	13	11	0	14	12	15	11	8				1
0		14				9	7	0		7	11				17	16	0

(continued)

## APPENDIX D (continued)

Sex: Male  
Education: 12 years  
Age: 40-44 years  
Race: Caucasian

Scaled score	Verbal episodic memory									Visual episodic memory						Scaled score
	STORY-T1	STORY LEARN	STORY RECALL	STORY LOSS	CVLT-1	CVLT-5	CVLT-TOT	CVLT-SDFR	CVLT-LDFR	TPT MEM	TPT LOC	FIGUR-T1	FIGUR LEARN	FIGUR RECALL	FIGUR LOSS	
19	90		86		89		83				84	88	87	85		19
18	86	90	82				79				80	84	83	81		18
17	81	86	78		79		75			76		80		77		17
16	77	81	74			70	71	69	75			75	75	73		16
15	73	77	70		70		67	65			69					15
14	68	72	66	66	66	62	63	61	66		65	67	67	66		14
13	64	68	62		61		59	57		60		63	62	62	60	13
12	60	63	58	59	57	55	55	54	57		57	58	58		56	12
11	56	59	54	55	52	51	50	50	53	52	53	54	54	55	53	11
10	51	54	50	52	47	47	46	46	48		49	50	50	51	49	10
9	47	49	46	48	43	43	42	42	44	44	45	46	46	47	46	9
8	43	45	42	45	38	39	38	39	39		41	41	42	44	42	8
7	39	40	38	41	34	35	34	35	35	36	38	37	38	40	39	7
6	34	36	34	38		31	30	31	30	32		33	34	36	35	6
5	30	31	30	34	24	27	26	27	26	28	30	29	30	32	32	5
4	26	27	26	31		23	21	23	21	24		24	26	29	28	4
3	21	22	22	27	15	19	17		17	20		20	22	25	24	3
2	17	18	17	24	11	15	13	16	12	16		16	18	21	21	2
1	13		13	20	6	11	9	12	8	12				17		1
0				17		7	5	8								0

Scaled score	Lateralized sensorimotor/Psychomotor comparisons															Scaled score
	TAP DH	TAP NDH	GRIP DH	GRIP NDH	PEG DH	PEG NDH	TPT DH	TPT NDH	TPT BH	SP R	SP L	SP TOT	TFR R	TFR L		
19	85	82	82	81	89	86	84	85	85				82	82		19
18	80	78	77	76	85	82	80	81	81				79	79		18
17	76	74	71	71	81	78	76	77	77				75	75		17
16	72	70	66	66	76	74	72	73	72				72	72		16
15	68	66	61	61	72	70	68	68	68			66	68	68		15
14	64	62	56	56	68	66	63	64	63	62			65	65		14
13	59	58	51	51	64	62	59	60	59		61	59	61	61		13
12	55	54	46	46	59	58	55	56	55	55			58	58		12
11	51	50	41	41	55	54	51	52	50		54	53	54	54		11
10	47	46	36	36	51	50	47	47	46	47	50	49	51	51		10
9	43	41	31	31	47	46	43	43	41	43	46	46	47	47		9
8	39	37	26	26	42	42	39	39	37	40	42	43	44	44		8
7	34	33	21	21	38	38	35	35	33	36	38	39	40	40		7
6	30	29	15	16	34	34	30	30	28	32	34	36	37	37		6
5	26	25	10	11	30	30	26	26	24	28	30	33	33	33		5
4	22	21	5	6	25	26	22	22	20	25	26	30	30	30		4
3	18	17	0	1	21	22	18	18	15	21	22	26	26	26		3
2	13	13	0	0	17	18	14	14	11	17	18	23	23	22		2
1	9	9	0	0	12	14	10	9	6	13	14	20	19	19		1
0	5	5	0	0	8	10		5								0

Note. See page 16 for a description of acronyms.

## APPENDIX D (continued)

Sex: Male  
Education: 12 years  
Age: 45-49 years  
Race: Caucasian

Summary scores				Executive functions					Attention/Working memory						Scaled score
Scaled score	WAIS-R FSIQ	WAIS FSIQ	AIR	CAT ERROR	TRAIL B	THUR FLU	FAS	ANIMALS	WAIS-R DIGIT SPAN	WAIS DIGIT SPAN	PASAT	DIGIT ERROR	SSHOR RHYM	SPCH PERC	
19	85		99	88	89	88	81	87	82						19
18	81	87	94	84	85	84	78	82	78	78				79	18
17	77	83	89	80	80	80	74	78			80				17
16	73	79	83	76	76	76	71	74	71		76				16
15	68	74	78	72	71	72	67	70	67	68	72	69	63	67	15
14	64	70	73	68	67	69	63	65	63	65	69		60		14
13	60	66	67	64	62	65	60	61	59	61	65	62		60	13
12	56	61	62	60	58	61	56	57	55		61	59	53	56	12
11	51	57	57	56	54	57	53	53	51	55	57	55		52	11
10	47	53	51	52	49	53	49	48	47	52	53	52	47	48	10
9	43	48	46	48	45	50	45	44		49	49	48	44	44	9
8	39	44	40	44	40	46	42	40	39	45	46	45	41	40	8
7	35	40	35	40	36	42	38	35	35		42	41	38	36	7
6	30	35	30	36	31	38	35	31	31	39	38	38	35	32	6
5	26	31	24	32	27	34	31	27	28	36	34	34	32	28	5
4	22	27	19	28	22	31	27	23	24		30	31	29	24	4
3	18	22	14	24	18	27	24	18	20	29	26	28	25	20	3
2	13	18	8	20	14	23	20	14	16		23	24	22	16	2
1	9	14	3	16	9	19	17	10		23	19	21	19	13	1
0		9	0	12				6		19	15	17	16		0

Speed of information processing					Spatial skills				Verbal/Academic skills								Scaled score
Scaled score	WAIS-R DIGIT SYMB	WAIS DIGIT SYMB	TRAIL A	DIGIT TIME	WAIS-R BLOCK DESGN	WAIS BLOCK DESGN	TPT TIME	SPAT REL	WAIS-R VOCAB	WAIS VOCAB	APHAS SCRIN	BSTN NAME	BDAE COMP	PIAT RECOG	PIAT COMP	PIAT SPELL	
19	95		91		89		86		88								19
18	91	95	86	83			82		84								18
17	87	91	82	79	81		78		80	85				80	79		17
16	83	86	77	75	77	76	74		75	80		71		76	76	79	16
15	79	82	73	71	73	71	70		71	76				72	72		15
14	75	78	68	67	69	67	66		67	71		63		69	68	71	14
13	71	73	64	63	65	63	62		63	67	66	59		65	65	67	13
12	67	69	60	59	61	59	58		59	62			60	61	61	63	12
11	63	64	55	55	57	55	54	57	55	57	57	51		58	57	59	11
10	59	60	51	51	53	51	50		51	53	53	47		54	54	55	10
9	55	56	46	47	49	47	45	46	46	48	49	43	46	50	50	51	9
8	51	51	42	42	45	43	41		42	44	45	39		47	46	47	8
7	47	47	37	38	41	39	37	34	38	39	41	35	36	43	43	43	7
6	43	43	33	34	37	35	33		34	35	36	31		39	39	39	6
5	39	38	29	30	33	30	29	23	30	30	32	27	27	36	35	35	5
4	35	34	24	26	29	26	25		26	26	28	23		32	32	31	4
3	31	30	20		25	22	21	11	21	21	24	19	17	28	28		3
2	27	25	15		21	18	17	5	17	17	20	15	12	25			2
1	23	21	11		17	14	13	0	13	12	15	11	8				1
0		17				10	9	0		7	11				17	15	0

(continued)

## APPENDIX D (continued)

Sex: Male  
Education: 12 years  
Age: 45-49 years  
Race: Caucasian

Scaled score	Verbal episodic memory									Visual episodic memory						Scaled score
	STORY-T1	STORY LEARN	STORY RECALL	STORY LOSS	CVLT-1	CVLT-5	CVLT-TOT	CVLT-SDFR	CVLT-LDFR	TPT MEM	TPT LOC	FIGUR-T1	FIGUR LEARN	FIGUR RECALL	FIGUR LOSS	
19	91		87		90		85				86	90	88	85		19
18	86	91	83				80				82	85	84	81		18
17	82	87	78		80		76			77		81		78		17
16	78	82	74			72	72	70	76			77	76	74		16
15	74	78	70		71		68	66			70					15
14	69	73	66	66	67	64	64	62	67		66	68	68	66		14
13	65	69	62		62		60	58		61		64	64	63	60	13
12	61	64	58	59	57	56	56	55	58		59	60	60		56	12
11	57	60	54	55	53	52	52	51	54	53	55	56	56	55	53	11
10	52	55	50	52	48	48	47	47	49		51	51	52	51	49	10
9	48	51	46	48	44	44	43	43	45	45	47	47	48	48	46	9
8	44	46	42	45	39	40	39	40	40		43	43	44	44	42	8
7	39	42	38	41	35	36	35	36	36	37	39	39	40	40	39	7
6	35	37	34	38		32	31	32	31	33		34	36	37	35	6
5	31	32	30	34	25	28	27	28	27	29	31	30	32	33	32	5
4	27	28	26	31		24	23	25	22	25		26	28	29	28	4
3	22	23	22	28	16	20	19		18	21		22	24	25	25	3
2	18	19	18	24	12	16	14	17	13	17		18	20	22	21	2
1	14		14	21	7	12	10	13	9	13				18		1
0				17		8	6	9								0

Scaled score	Lateralized sensorimotor/Psychomotor comparisons															Scaled score
	TAP DH	TAP NDH	GRIP DH	GRIP NDH	PEG DH	PEG NDH	TPT DH	TPT NDH	TPT BH	SP R	SP L	SP TOT	TFR R	TFR L		
19	85	84	83	82	91	87	85	87	87				82	83	19	
18	81	80	78	77	87	83	81	83	83				79	79	18	
17	77	75	73	72	83	79	77	78	78				75	76	17	
16	73	71	68	67	78	75	73	74	74				72	72	16	
15	69	67	63	63	74	71	69	70	70			67	68	68	15	
14	64	63	58	58	70	67	65	66	65	63			65	65	14	
13	60	59	52	53	66	63	60	62	61		62	60	61	61	13	
12	56	55	47	48	61	59	56	57	56	55			58	58	12	
11	52	51	42	43	57	55	52	53	52		54	53	54	54	11	
10	48	47	37	38	53	51	48	49	48	48	51	50	51	51	10	
9	43	43	32	33	49	47	44	45	43	44	47	47	47	47	9	
8	39	39	27	28	44	43	40	40	39	40	43	44	44	44	8	
7	35	35	22	23	40	39	36	36	35	37	39	40	40	40	7	
6	31	31	17	18	36	35	32	32	30	33	35	37	37	37	6	
5	27	27	12	13	32	31	27	28	26	29	31	34	33	33	5	
4	23	22	7	8	27	27	23	24	21	25	27	30	30	30	4	
3	18	18	2	3	23	23	19	19	17	21	23	27	26	26	3	
2	14	14	0	0	19	19	15	15	13	18	19	24	23	23	2	
1	10	10	0	0	15	15	11	11	8	14	15	21	19	19	1	
0	6	6	0	0	10	11		7							0	

Note. See page 16 for a description of acronyms.

## APPENDIX D (continued)

Sex: Male  
Education: 12 years  
Age: 50-54 years  
Race: Caucasian

	Summary scores			Executive functions					Attention/Working memory							
Scaled score	WAIS-R FSIQ	WAIS FSIQ	AIR	CAT ERROR	TRAIL B	THUR FLU	FAS	ANIMALS	WAIS-R DIGIT SPAN	WAIS DIGIT SPAN	PASAT	DIGIT ERROR	SSHOR RHYM	SPCH PERC	Scaled score	
19	85		100	90	91	88	82	88	82						19	
18	81	86	97	86	86	85	78	84	78	78				80	18	
17	77	82	91	82	82	81	75	80			81				17	
16	73	78	86	78	78	77	71	75	71		77				16	
15	68	73	81	74	73	73	68	71	67	68	73	70	63	69	15	
14	64	69	75	70	69	69	64	67	63	65	69		60		14	
13	60	65	70	66	64	66	60	62	59	62	66	63		61	13	
12	56	60	65	62	60	62	57	58	55		62	59	54	57	12	
11	51	56	59	58	55	58	53	54	51	55	58	56		53	11	
10	47	52	54	54	51	54	50	50	47	52	54	52	48	49	10	
9	43	47	49	50	46	50	46	45		49	50	49	45	45	9	
8	39	43	43	46	42	47	42	41	39	46	46	45	42	41	8	
7	35	39	38	42	38	43	39	37	35		43	42	38	37	7	
6	30	34	33	38	33	39	35	33	31	39	39	39	35	33	6	
5	26	30	27	34	29	35	32	28	28	36	35	35	32	29	5	
4	22	26	22	30	24	31	28	24	24		31	32	29	25	4	
3	18	21	16	26	20	28	24	20	20	30	27	28	26	22	3	
2	13	17	11	22	15	24	21	15	16		23	25	23	18	2	
1	9	13	6	18	11	20	17	11		23	20	21	20	14	1	
0		8	0	14				7		20	16	18	17		0	

Speed of information processing					Spatial skills				Verbal/Academic skills								Scaled score
Scaled score	WAIS-R DIGIT SYMB	WAIS DIGIT SYMB	TRAIL A	DIGIT TIME	WAIS-R BLOCK DESGN	WAIS BLOCK DESGN	TPT TIME	SPAT REL	WAIS-R VOCAB	WAIS VOCAB	APHAS SCRIN	BSTN NAME	BDAE COMP	PIAT RECOG	PIAT COMP	PIAT SPELL	
19	95		92		89		88		88								19
18	91	97	88	84			84		84								18
17	87	93	83	80	81		80		80	85				79	80		17
16	83	88	79	76	77	77	76		75	80		72		76	76	79	16
15	79	84	75	72	73	73	72		71	76				72	72		15
14	75	80	70	68	69	69	68		67	71		64		68	69	71	14
13	71	75	66	64	65	64	64		63	67	66	60		65	65	67	13
12	67	71	61	60	61	60	60		59	62			60	61	61	63	12
11	63	67	57	56	57	56	55	57	55	57	58	52		57	58	59	11
10	59	62	52	52	53	52	51		51	53	53	48		54	54	55	10
9	55	58	48	48	49	48	47	46	46	48	49	44	46	50	50	51	9
8	51	54	43	44	45	44	43		42	44	45	40		46	47	47	8
7	47	49	39	40	41	40	39	34	38	39	41	36	36	43	43	43	7
6	43	45	35	36	37	36	35		34	35	37	32		39	39	39	6
5	39	41	30	32	33	32	31	23	30	30	32	28	27	35	36	35	5
4	35	36	26	28	29	28	27		26	26	28	24		32	32	31	4
3	31	32	21		25	23	23	11	21	21	24	20	17	28	28		3
2	27	28	17		21	19	19	6	17	17	20	17	12	24			2
1	23	23	12		17	15	15	0	13	12	16	13	8				1
0		19				11	11	0		7	11				17	15	0

(continued)

## APPENDIX D (continued)

Sex: Male  
Education: 12 years  
Age: 50-54 years  
Race: Caucasian

Scaled score	Verbal episodic memory									Visual episodic memory						Scaled score
	STORY-T1	STORY LEARN	STORY RECALL	STORY LOSS	CVLT-1	CVLT-5	CVLT-TOT	CVLT-SDFR	CVLT-LDFR	TPT MEM	TPT LOC	FIGUR-T1	FIGUR LEARN	FIGUR RECALL	FIGUR LOSS	
19	92		87		91		86				87	91	90	86		19
18	87	92	83				82				83	87	86	82		18
17	83	88	79		81		78			78		83		78		17
16	79	83	75			73	74	71	77			78	78	74		16
15	75	79	71		72		70	67			72					15
14	70	74	67	66	68	65	65	64	68		68	70	70	67		14
13	66	70	63		63		61	60		62		66	66	63	60	13
12	62	65	59	59	59	57	57	56	59		60	61	62		56	12
11	58	61	55	55	54	53	53	52	55	54	56	57	58	56	53	11
10	53	56	51	52	49	49	49	49	51		52	53	54	52	49	10
9	49	52	47	49	45	45	45	45	46	46	48	49	49	48	46	9
8	45	47	42	45	40	41	41	41	42		45	44	45	45	42	8
7	40	43	38	42	36	37	37	37	37	38	41	40	41	41	39	7
6	36	38	34	38		33	32	33	33	34		36	37	37	35	6
5	32	34	30	35	26	29	28	30	28	30	33	32	33	33	32	5
4	28	29	26	31		25	24	26	24	26		28	29	30	28	4
3	23	24	22	28	17	21	20		19	22		23	25	26	25	3
2	19	20	18	24	13	17	16	18	15	18		19	21	22	21	2
1	15		14	21	8	13	12	15	10	14				18		1
0				17		10	8	11								0

Scaled score	Lateralized sensorimotor/Psychomotor comparisons															Scaled score
	TAP DH	TAP NDH	GRIP DH	GRIP NDH	PEG DH	PEG NDH	TPT DH	TPT NDH	TPT BH	SP R	SP L	SP TOT	TFR R	TFR L		
19	86	85	85	84	93	89	87	89	89				82	83	19	
18	82	81	80	79	89	85	82	85	85				79	79	18	
17	78	77	75	74	85	81	78	80	80				75	76	17	
16	74	73	70	69	81	77	74	76	76				72	72	16	
15	69	69	64	64	76	73	70	72	72			68	68	69	15	
14	65	65	59	59	72	69	66	68	67	64			65	65	14	
13	61	61	54	54	68	65	62	63	63		63	61	61	62	13	
12	57	57	49	49	64	61	58	59	58	56			58	58	12	
11	53	52	44	45	59	57	54	55	54		55	54	54	54	11	
10	49	48	39	40	55	53	49	51	50	49	52	51	51	51	10	
9	44	44	34	35	51	49	45	47	45	45	48	48	47	47	9	
8	40	40	29	30	47	45	41	42	41	41	44	45	44	44	8	
7	36	36	24	25	42	41	37	38	37	37	40	41	40	40	7	
6	32	32	19	20	38	37	33	34	32	34	36	38	37	37	6	
5	28	28	13	15	34	33	29	30	28	30	32	35	33	33	5	
4	23	24	8	10	30	29	25	25	23	26	28	31	30	30	4	
3	19	20	3	5	25	25	21	21	19	22	24	28	26	26	3	
2	15	16	0	0	21	21	17	17	15	19	20	25	23	23	2	
1	11	12	0	0	17	17	12	13	10	15	16	22	19	19	1	
0	7	8	0	0	12	13		9							0	

Note. See page 16 for a description of acronyms.

## APPENDIX D (continued)

Sex: Male  
Education: 12 years  
Age: 55-59 years  
Race: Caucasian

	Summary scores			Executive functions					Attention/Working memory							
Scaled score	WAIS-R FSIQ	WAIS FSIQ	AIR	CAT ERROR	TRAIL B	THUR FLU	FAS	ANIMALS	WAIS-R DIGIT SPAN	WAIS DIGIT SPAN	PASAT	DIGIT ERROR	SSHOR RHYM	SPCH PERC	Scaled score	
19	84		100	92	93	89	83	90	83						19	
18	79	85	100	88	88	85	79	85	79	79				82	18	
17	75	81	95	84	84	82	75	81			82				17	
16	71	76	89	80	79	78	72	77	71		78				16	
15	67	72	84	76	75	74	68	72	67	69	74	70	64	70	15	
14	63	68	78	72	71	70	65	68	63	66	70		61		14	
13	58	63	73	68	66	66	61	64	60	62	67	63		62	13	
12	54	59	68	64	62	63	57	60	56		63	60	55	58	12	
11	50	55	62	60	57	59	54	55	52	56	59	57		54	11	
10	46	51	57	56	53	55	50	51	48	53	55	53	48	50	10	
9	41	46	52	52	48	51	47	47		50	51	50	45	46	9	
8	37	42	46	48	44	47	43	43	40	46	47	46	42	43	8	
7	33	38	41	44	39	44	39	38	36		44	43	39	39	7	
6	29	33	36	40	35	40	36	34	32	40	40	39	36	35	6	
5	24	29	30	36	31	36	32	30	28	37	36	36	33	31	5	
4	20	25	25	32	26	32	29	25	24		32	32	30	27	4	
3	16	20	19	28	22	28	25	21	20	30	28	29	27	23	3	
2	12	16	14	24	17	25	21	17	16		24	26	23	19	2	
1	8	12	9	20	13	21	18	13		24	21	22	20	15	1	
0		7	3	16				8		20	17	19	17		0	

Scaled score	Speed of information processing				Spatial skills				Verbal/Academic skills								Scaled score
	WAIS-R DIGIT SYMB	WAIS DIGIT SYMB	TRAIL A	DIGIT TIME	WAIS-R BLOCK DESGN	WAIS BLOCK DESGN	TPT TIME	SPAT REL	WAIS-R VOCAB	WAIS VOCAB	APHAS SCRIN	BSTN NAME	BDAE COMP	PIAT RECOG	PIAT COMP	PIAT SPELL	
19	98		94		92		90		87								19
18	94	96	90	86			86		82								18
17	90	92	85	82	84		82		78	85				79	80		17
16	86	88	81	78	80	78	78		74	80		73		75	76	79	16
15	82	83	76	74	76	74	74		70	76				72	73		15
14	78	79	72	70	72	70	70		66	71		65		68	69	71	14
13	74	75	67	66	68	66	66		62	67	66	61		64	65	67	13
12	70	70	63	62	64	62	62		58	62			60	61	62	63	12
11	66	66	58	58	60	57	58	58	53	57	58	53		57	58	59	11
10	62	62	54	53	56	53	54		49	53	54	50		53	54	55	10
9	58	57	50	49	52	49	50	46	45	48	49	46	46	50	51	51	9
8	54	53	45	45	48	45	46		41	44	45	42		46	47	47	8
7	50	49	41	41	44	41	41	35	37	39	41	38	36	42	43	43	7
6	46	44	36	37	40	37	37		33	35	37	34		39	40	39	6
5	42	40	32	33	36	33	33	23	28	30	33	30	27	35	36	35	5
4	38	36	27	29	32	29	29		24	26	28	26		31	32	31	4
3	34	31	23		28	25	25	12	20	21	24	22	17	28	29		3
2	30	27	18		24	21	21	6	16	17	20	18	13	24			2
1	26	23	14		20	16	17	0	12	12	16	14	8				1
0		18				12	13	0		7	12				18	15	0

(continued)

## APPENDIX D (continued)

Sex: Male  
Education: 12 years  
Age: 55-59 years  
Race: Caucasian

Scaled score	Verbal episodic memory									Visual episodic memory						Scaled score
	STORY-T1	STORY LEARN	STORY RECALL	STORY LOSS	CVLT-1	CVLT-5	CVLT-TOT	CVLT-SDFR	CVLT-LDFR	TPT MEM	TPT LOC	FIGUR-T1	FIGUR LEARN	FIGUR RECALL	FIGUR LOSS	
19	93		87		92		88				89	93	92	86		19
18	88	93	83				84				85	88	88	82		18
17	84	89	79		83		80			80		84		79		17
16	80	84	75			75	75	73	79			80	79	75		16
15	76	80	71		74		71	69			73					15
14	71	75	67	66	69	67	67	65	70		70	71	71	67		14
13	67	71	63		64		63	61		64		67	67	64	60	13
12	63	66	59	59	60	59	59	58	61		62	63	63		57	12
11	58	62	55	56	55	55	55	54	57	56	58	59	59	56	53	11
10	54	57	51	52	51	51	51	50	52		54	55	55	52	49	10
9	50	53	47	49	46	47	47	46	48	48	50	50	51	49	46	9
8	46	48	43	45	42	43	42	43	43		46	46	47	45	42	8
7	41	44	39	42	37	39	38	39	39	40	42	42	43	41	39	7
6	37	39	35	38		35	34	35	34	36		38	39	38	35	6
5	33	35	31	35	28	31	30	31	30	32	35	33	35	34	32	5
4	29	30	27	31		27	26	27	25	28		29	31	30	28	4
3	24	26	23	28	19	23	22		21	24		25	27	26	25	3
2	20	21	19	24	14	19	18	20	16	20		21	23	23	21	2
1	16		15	21	9	15	14	16	12	16				19		1
0				17		11	9	12								0

Scaled score	Lateralized sensorimotor/Psychomotor comparisons															Scaled score
	TAP DH	TAP NDH	GRIP DH	GRIP NDH	PEG DH	PEG NDH	TPT DH	TPT NDH	TPT BH	SP R	SP L	SP TOT	TFR R	TFR L		
19	87	86	87	86	96	92	88	91	91				82	83	19	
18	83	82	82	81	92	88	84	87	87				79	79	18	
17	79	78	77	76	87	84	80	82	83				75	76	17	
16	75	74	72	71	83	80	76	78	78				72	72	16	
15	71	70	66	66	79	76	72	74	74			69	68	69	15	
14	66	66	61	61	75	72	68	70	69	65			65	65	14	
13	62	62	56	57	70	68	64	65	65		64	62	61	62	13	
12	58	58	51	52	66	64	59	61	61	57			58	58	12	
11	54	54	46	47	62	60	55	57	56		56	56	54	55	11	
10	50	50	41	42	58	56	51	53	52	50	52	52	51	51	10	
9	46	46	36	37	53	52	47	49	48	46	49	49	47	48	9	
8	41	42	31	32	49	48	43	44	43	42	45	46	44	44	8	
7	37	37	26	27	45	44	39	40	39	39	41	42	40	40	7	
6	33	33	21	22	41	40	35	36	34	35	37	39	37	37	6	
5	29	29	15	17	36	36	31	32	30	31	33	36	33	33	5	
4	25	25	10	12	32	32	26	27	26	27	29	33	30	30	4	
3	20	21	5	7	28	28	22	23	21	23	25	29	26	26	3	
2	16	17	0	2	23	24	18	19	17	20	21	26	23	23	2	
1	12	13	0	0	19	20	14	15	12	16	17	23	19	19	1	
0	8	9	0	0	15	16		11							0	

Note. See page 16 for a description of acronyms.



## APPENDIX D (continued)

Sex: Male  
Education: 12 years  
Age: 60-64 years  
Race: Caucasian

	Summary scores			Executive functions					Attention/Working memory							
Scaled score	WAIS-R FSIQ	WAIS FSIQ	AIR	CAT ERROR	TRAIL B	THUR FLU	FAS	ANIMALS	WAIS-R DIGIT SPAN	WAIS DIGIT SPAN	PASAT	DIGIT ERROR	SSHOR RHYM	SPCH PERC	Scaled score	
19	84		100	94	95	89	83	91	83						19	
18	79	84	100	90	90	85	80	87	79	79				84	18	
17	75	80	98	86	86	81	76	82			83				17	
16	71	75	92	81	82	78	72	78	71		79				16	
15	67	71	87	77	77	74	69	74	67	69	75	71	65	72	15	
14	63	67	82	73	73	70	65	70	63	66	71		61		14	
13	58	62	76	69	68	66	62	65	60	63	67	64		64	13	
12	54	58	71	65	64	62	58	61	56		64	61	55	60	12	
11	50	54	66	61	59	59	54	57	52	56	60	57		56	11	
10	46	49	60	57	55	55	51	52	48	53	56	54	49	52	10	
9	41	45	55	53	50	51	47	48		50	52	50	46	48	9	
8	37	41	50	49	46	47	44	44	40	47	48	47	43	44	8	
7	33	36	44	45	42	44	40	40	36		44	43	40	40	7	
6	29	32	39	41	37	40	36	35	32	40	41	40	37	36	6	
5	24	28	33	37	33	36	33	31	28	37	37	37	33	32	5	
4	20	24	28	33	28	32	29	27	24		33	33	30	29	4	
3	16	19	23	29	24	28	26	23	20	31	29	30	27	25	3	
2	12	15	17	25	19	25	22	18	16		25	26	24	21	2	
1	8	11	12	21	15	21	19	14		24	21	23	21	17	1	
0		6	7	17				10		21	18	19	18		0	

Scaled score	Speed of information processing				Spatial skills				Verbal/Academic skills								Scaled score
	WAIS-R DIGIT SYMB	WAIS DIGIT SYMB	TRAIL A	DIGIT TIME	WAIS-R BLOCK DESGN	WAIS BLOCK DESGN	TPT TIME	SPAT REL	WAIS-R VOCAB	WAIS VOCAB	APHAS SCRIN	BSTN NAME	BDAE COMP	PIAT RECOG	PIAT COMP	PIAT SPELL	
19	98		96		92		93		87								19
18	94	99	91	88			89		82								18
17	90	94	87	84	84		85		78	85				78	80		17
16	86	90	82	80	80	79	81		74	80		75		75	77	79	16
15	82	86	78	76	76	75	77		70	76				71	73		15
14	78	81	73	72	72	71	73		66	71		67		67	69	71	14
13	74	77	69	67	68	67	69		62	67	67	63		64	66	67	13
12	70	73	65	63	64	63	65		58	62			60	60	62	63	12
11	66	68	60	59	60	59	61	58	53	57	58	55		56	58	59	11
10	62	64	56	55	56	55	56		49	53	54	51		53	55	55	10
9	58	60	51	51	52	50	52	47	45	48	50	47	46	49	51	51	9
8	54	55	47	47	48	46	48		41	44	45	43		45	47	47	8
7	50	51	42	43	44	42	44	35	37	39	41	39	37	42	44	43	7
6	46	47	38	39	40	38	40		33	35	37	36		38	40	39	6
5	42	42	33	35	36	34	36	24	28	30	33	32	27	34	36	35	5
4	38	38	29	31	32	30	32		24	26	29	28		31	33	31	4
3	34	34	25		28	26	28	12	20	21	24	24	17	27	29		3
2	30	29	20		24	22	24	6	16	17	20	20	13	23			2
1	26	25	16		20	18	20	1	12	12	16	16	8				1
0		20				14	16	0		7	12				18	15	0

(continued)

## APPENDIX D (continued)

Sex: Male  
Education: 12 years  
Age: 60-64 years  
Race: Caucasian

Scaled score	Verbal episodic memory									Visual episodic memory						Scaled score
	STORY-T1	STORY LEARN	STORY RECALL	STORY LOSS	CVLT-1	CVLT-5	CVLT-TOT	CVLT-SDFR	CVLT-LDFR	TPT MEM	TPT LOC	FIGUR-T1	FIGUR LEARN	FIGUR RECALL	FIGUR LOSS	
19	94		88		94		90				91	94	93	87		19
18	89	94	84				86				87	90	89	83		18
17	85	90	80		84		82			82		86		79		17
16	81	85	76			77	78	75	81			82	81	75		16
15	76	81	72		75		73	71			75					15
14	72	76	68	66	71	69	69	67	72		71	73	73	68		14
13	68	72	63		66		65	63		66		69	69	64	60	13
12	64	67	59	59	61	61	61	60	63		63	65	65		57	12
11	59	63	55	56	57	57	57	56	58	58	59	60	61	57	53	11
10	55	58	51	52	52	53	53	52	54		56	56	57	53	50	10
9	51	54	47	49	48	49	49	48	49	50	52	52	53	49	46	9
8	47	49	43	45	43	45	45	45	45		48	48	49	46	43	8
7	42	45	39	42	39	41	40	41	40	42	44	43	45	42	39	7
6	38	40	35	38		37	36	37	36	38		39	41	38	35	6
5	34	36	31	35	29	33	32	33	32	34	36	35	37	34	32	5
4	29	31	27	31		29	28	29	27	30		31	32	31	28	4
3	25	27	23	28	20	25	24		23	26		26	28	27	25	3
2	21	22	19	25	16	21	20	22	18	22		22	24	23	21	2
1	17		15	21	11	17	16	18	14	18				19		1
0			18			13	12	14								0

Scaled score	Lateralized sensorimotor/Psychomotor comparisons															Scaled score
	TAP DH	TAP NDH	GRIP DH	GRIP NDH	PEG DH	PEG NDH	TPT DH	TPT NDH	TPT BH	SP R	SP L	SP TOT	TFR R	TFR L		
19	89	88	89	89	99	94	90	93	94				82	83	19	
18	85	84	84	84	94	90	86	89	89				79	79	18	
17	80	80	79	79	90	86	82	85	85				75	76	17	
16	76	75	74	74	86	82	78	80	81				72	72	16	
15	72	71	69	69	81	78	74	76	76			70	68	69	15	
14	68	67	63	64	77	74	70	72	72	66			65	65	14	
13	64	63	58	59	73	70	66	68	67		65	64	61	62	13	
12	59	59	53	54	69	66	62	63	63	59			58	58	12	
11	55	55	48	49	64	62	57	59	59		57	57	54	55	11	
10	51	51	43	44	60	58	53	55	54	51	53	54	51	51	10	
9	47	47	38	39	56	54	49	51	50	47	50	51	47	48	9	
8	43	43	33	34	52	50	45	47	46	44	46	47	44	44	8	
7	39	39	28	29	47	46	41	42	41	40	42	44	40	41	7	
6	34	35	23	24	43	42	37	38	37	36	38	41	37	37	6	
5	30	31	18	19	39	38	33	34	32	32	34	37	33	34	5	
4	26	27	12	14	35	34	29	30	28	28	30	34	30	30	4	
3	22	22	7	9	30	30	24	25	24	25	26	31	26	27	3	
2	18	18	2	4	26	26	20	21	19	21	22	28	23	23	2	
1	13	14	0	0	22	22	16	17	15	17	18	24	19	19	1	
0	9	10	0	0	18	18		13							0	

Note. See page 16 for a description of acronyms.

## APPENDIX D (continued)

Sex: Male  
Education: 12 years  
Age: 65-69 years  
Race: Caucasian

Summary scores				Executive functions					Attention/Working memory						Scaled score
Scaled score	WAIS-R FSIQ	WAIS FSIQ	AIR	CAT ERROR	TRAIL B	THUR FLU	FAS	ANIMALS	WAIS-R DIGIT SPAN	WAIS DIGIT SPAN	PASAT	DIGIT ERROR	SSHOR RHYM	SPCH PERC	
19	82		100	95	97	90	84	92	83						19
18	78	83	100	91	93	86	80	88	79	80				85	18
17	74	79	100	87	88	82	77	84			84				17
16	69	74	96	83	84	78	73	80	71		80				16
15	65	70	91	79	79	75	69	75	67	70	76	72	65	74	15
14	61	66	85	75	75	71	66	71	63	67	72		62		14
13	57	61	80	71	70	67	62	67	60	63	68	65		66	13
12	52	57	75	67	66	63	59	62	56		64	61	56	62	12
11	48	53	69	63	62	60	55	58	52	57	61	58		58	11
10	44	48	64	59	57	56	51	54	48	54	57	55	50	54	10
9	40	44	59	55	53	52	48	50		50	53	51	46	50	9
8	36	40	53	51	48	48	44	45	40	47	49	48	43	46	8
7	31	35	48	47	44	44	41	41	36		45	44	40	42	7
6	27	31	42	43	39	41	37	37	32	41	41	41	37	38	6
5	23	27	37	39	35	37	34	33	28	38	38	37	34	34	5
4	19	22	32	35	30	33	30	28	24		34	34	31	30	4
3	14	18	26	31	26	29	26	24	20	31	30	30	28	27	3
2	10	14	21	27	22	25	23	20	16		26	27	25	23	2
1	6	9	16	23	17	22	19	15		25	22	24	22	19	1
0		5	10	19				11		21	18	20	18		0

Scaled score	Speed of information processing				Spatial skills				Verbal/Academic skills								Scaled score
	WAIS-R DIGIT SYMB	WAIS DIGIT SYMB	TRAIL A	DIGIT TIME	WAIS-R BLOCK DESGN	WAIS BLOCK DESGN	TPT TIME	SPAT REL	WAIS-R VOCAB	WAIS VOCAB	APHAS SCR N	BSTN NAME	BDAE COMP	PIAT RECOG	PIAT COMP	PIAT SPELL	
19	100		97		94		96		85								19
18	97	100	93	90			92		81								18
17	93	97	88	86	86		88		77	85				78	81		17
16	89	92	84	82	82	80	84		73	80		77		74	77	79	16
15	85	88	80	78	78	76	80		69	76				70	73		15
14	81	84	75	74	74	72	76		65	71		69		67	70	71	14
13	77	79	71	70	70	68	72		60	67	67	65		63	66	67	13
12	73	75	66	66	66	64	68		56	62			61	59	62	63	12
11	69	71	62	62	62	60	64	59	52	57	58	57		56	59	59	11
10	65	66	57	57	58	56	60		48	53	54	53		52	55	55	10
9	61	62	53	53	54	52	56	47	44	48	50	49	46	48	51	51	9
8	57	58	48	49	50	48	51		40	44	46	45		45	48	47	8
7	53	53	44	45	46	43	47	36	35	39	41	41	37	41	44	43	7
6	49	49	40	41	42	39	43		31	35	37	38		37	40	39	6
5	45	45	35	37	38	35	39	24	27	30	33	34	27	34	37	35	5
4	41	40	31	33	34	31	35		23	26	29	30		30	33	31	4
3	37	36	26		30	27	31	13	19	21	25	26	17	26	29		3
2	33	31	22		26	23	27	7	15	17	20	22	13	23			2
1	29	27	17		22	19	23	1	10	12	16	18	8				1
0		23				15	19	0		7	12				19	15	0

(continued)

## APPENDIX D (continued)

Sex: Male  
Education: 12 years  
Age: 65-69 years  
Race: Caucasian

Scaled score	Verbal episodic memory									Visual episodic memory						Scaled score
	STORY-T1	STORY LEARN	STORY RECALL	STORY LOSS	CVLT-1	CVLT-5	CVLT-TOT	CVLT-SDFR	CVLT-LDFR	TPT MEM	TPT LOC	FIGUR-T1	FIGUR LEARN	FIGUR RECALL	FIGUR LOSS	
19	95		88		95		92				92	96	95	87		19
18	90	96	84				88				88	92	91	83		18
17	86	91	80		86		84			84		87		80		17
16	82	86	76			79	80	77	83			83	83	76		16
15	77	82	72		77		76	73			77					15
14	73	77	68	66	72	71	72	69	74		73	75	75	68		14
13	69	73	64		68		68	66		68		70	71	65	60	13
12	65	68	60	59	63	63	64	62	65		65	66	66		57	12
11	60	64	56	56	59	59	59	58	61	60	61	62	62	57	53	11
10	56	59	52	52	54	55	55	54	56		57	58	58	53	50	10
9	52	55	48	49	50	51	51	51	52	52	53	53	54	50	46	9
8	48	50	44	46	45	47	47	47	47		49	49	50	46	43	8
7	43	46	40	42	40	43	43	43	43	44	46	45	46	42	39	7
6	39	41	36	39		39	39	39	38	40		41	42	39	36	6
5	35	37	31	35	31	35	35	36	34	36	38	36	38	35	32	5
4	30	32	27	32		31	31	32	29	32		32	34	31	29	4
3	26	28	23	28	22	27	26		25	28		28	30	27	25	3
2	22	23	19	25	18	23	22	24	20	24		24	26	24	21	2
1	18		15	21	13	19	18	20	16	20				20		1
0				18		15	14	17								0

Scaled score	Lateralized sensorimotor/Psychomotor comparisons														Scaled score
	TAP DH	TAP NDH	GRIP DH	GRIP NDH	PEG DH	PEG NDH	TPT DH	TPT NDH	TPT BH	SP R	SP L	SP TOT	TFR R	TFR L	
19	90	89	91	91	100	97	93	95	96				82	83	19
18	86	85	86	86	97	93	89	91	92				79	80	18
17	82	81	81	81	93	89	85	87	88				75	76	17
16	78	77	76	76	89	85	80	83	83				72	73	16
15	74	73	71	71	84	81	76	78	79			72	68	69	15
14	69	69	66	66	80	77	72	74	74	68			65	65	14
13	65	64	61	61	76	73	68	70	70		66	65	61	62	13
12	61	60	56	56	72	69	64	66	66	60			58	58	12
11	57	56	50	51	67	65	60	62	61		58	59	54	55	11
10	53	52	45	46	63	61	56	57	57	53	54	56	51	51	10
9	48	48	40	41	59	57	52	53	53	49	50	52	47	48	9
8	44	44	35	36	55	53	47	49	48	45	47	49	44	44	8
7	40	40	30	31	50	49	43	45	44	41	43	46	40	41	7
6	36	36	25	26	46	45	39	41	39	38	39	42	37	37	6
5	32	32	20	21	42	41	35	36	35	34	35	39	33	34	5
4	28	28	15	16	38	37	31	32	31	30	31	36	30	30	4
3	23	24	10	11	33	33	27	28	26	26	27	33	26	27	3
2	19	20	5	6	29	29	23	24	22	22	23	29	23	23	2
1	15	16	0	1	25	25	19	19	17	19	19	26	19	20	1
0	11	11	0	0	21	21		15							0

Note. See page 16 for a description of acronyms.

## APPENDIX D (continued)

Sex: Male  
Education: 12 years  
Age: 70-74 years  
Race: Caucasian

Summary scores				Executive functions					Attention/Working memory						Scaled score
Scaled score	WAIS-R FSIQ	WAIS FSIQ	AIR	CAT ERROR	TRAIL B	THUR FLU	FAS	ANIMALS	WAIS-R DIGIT SPAN	WAIS DIGIT SPAN	PASAT	DIGIT ERROR	SSHOR RHYM	SPCH PERC	
19	80		100	97	100	91	84	94	83						19
18	76	82	100	93	95	87	81	89	79	80				88	18
17	72	77	100	89	91	83	77	85			85				17
16	68	73	100	85	86	79	74	81	71		81				16
15	64	69	95	81	82	76	70	77	67	70	77	72	66	76	15
14	59	65	89	77	77	72	66	72	63	67	73		63		14
13	55	60	84	73	73	68	63	68	60	64	69	66		68	13
12	51	56	78	69	68	64	59	64	56		65	62	56	64	12
11	47	52	73	65	64	60	56	60	52	57	62	59		60	11
10	42	47	68	61	60	57	52	55	48	54	58	55	50	56	10
9	38	43	62	57	55	53	49	51		51	54	52	47	52	9
8	34	39	57	53	51	49	45	47	40	48	50	48	44	48	8
7	30	34	52	49	46	45	41	42	36		46	45	41	45	7
6	25	30	46	45	42	41	38	38	32	41	42	41	38	41	6
5	21	26	41	41	37	38	34	34	28	38	39	38	35	37	5
4	17	21	36	37	33	34	31	30	24		35	35	31	33	4
3	13	17	30	33	28	30	27	25	20	32	31	31	28	29	3
2	9	13	25	29	24	26	23	21	16		27	28	25	25	2
1	4	8	20	25	20	22	20	17		25	23	24	22	21	1
0		4	14	21				13		22	19	21	19		0

Scaled score	Speed of information processing				Spatial skills				Verbal/Academic skills								Scaled score
	WAIS-R DIGIT SYMB	WAIS DIGIT SYMB	TRAIL A	DIGIT TIME	WAIS-R BLOCK DESGN	WAIS BLOCK DESGN	TPT TIME	SPAT REL	WAIS-R VOCAB	WAIS VOCAB	APHAS SCRIN	BSTN NAME	BDAE COMP	PIAT RECOG	PIAT COMP	PIAT SPELL	
19	100		99		96		100		84								19
18	100	100	95	92			96		80								18
17	96	99	90	88	88		92		76	85				77	81		17
16	92	95	86	84	84	82	88		72	80		79		73	77	79	16
15	88	90	81	80	80	78	84		67	76				70	74		15
14	84	86	77	76	76	73	80		63	71		71		66	70	71	14
13	80	82	72	72	72	69	76		59	67	67	67		62	66	67	13
12	76	77	68	68	68	65	72		55	62			61	59	63	63	12
11	72	73	63	64	64	61	67	59	51	57	59	59		55	59	59	11
10	68	69	59	60	60	57	63		47	53	54	56		51	55	55	10
9	64	64	55	56	56	53	59	47	42	48	50	52	46	48	52	51	9
8	60	60	50	52	52	49	55		38	44	46	48		44	48	47	8
7	56	56	46	48	48	45	51	36	34	39	42	44	37	40	44	43	7
6	52	51	41	44	44	41	47		30	35	37	40		37	41	39	6
5	48	47	37	40	40	36	43	24	26	30	33	36	27	33	37	35	5
4	45	42	32	36	36	32	39		22	26	29	32		29	33	31	4
3	41	38	28		32	28	35	13	17	21	25	28	17	26	30		3
2	37	34	23		28	24	31	7	13	17	21	24	13	22			2
1	33	29	19		24	20	27	1	9	12	16	20	8				1
0		25				16	22	0		7	12				19	15	0

(continued)

## APPENDIX D (continued)

Sex: Male  
Education: 12 years  
Age: 70-74 years  
Race: Caucasian

Scaled score	Verbal episodic memory									Visual episodic memory						Scaled score
	STORY-T1	STORY LEARN	STORY RECALL	STORY LOSS	CVLT-1	CVLT-5	CVLT-TOT	CVLT-SDFR	CVLT-LDFR	TPT MEM	TPT LOC	FIGUR-T1	FIGUR LEARN	FIGUR RECALL	FIGUR LOSS	
19	95		88		98		95				94	97	96	88		19
18	91	97	84				91				90	93	92	84		18
17	87	92	80		88		87			86		89		80		17
16	83	88	76			82	83	80	86			85	84	76		16
15	78	83	72		79		79	76			78					15
14	74	78	68	67	75	74	75	72	77		74	76	76	69		14
13	70	74	64		70		71	68		70		72	72	65	60	13
12	66	69	60	60	65	66	67	65	68		67	68	68		57	12
11	61	65	56	56	61	62	62	61	63	62	63	63	64	58	53	11
10	57	60	52	53	56	58	58	57	59		59	59	60	54	50	10
9	53	56	48	49	52	54	54	53	54	54	55	55	56	50	46	9
8	48	51	44	46	47	50	50	49	50		51	51	52	47	43	8
7	44	47	40	42	43	46	46	46	45	46	47	46	48	43	39	7
6	40	42	36	39		42	42	42	41	43		42	44	39	36	6
5	36	38	32	35	33	38	38	38	36	39	39	38	40	35	32	5
4	31	33	28	32		34	33	34	32	35		34	36	32	29	4
3	27	29	24	28	24	30	29		27	31		30	32	28	25	3
2	23	24	20	25	20	26	25	27	23	27		25	28	24	22	2
1	19		16	21	15	22	21	23	18	23				20		1
0				18		18	17	19								0

Scaled score	Lateralized sensorimotor/Psychomotor comparisons															Scaled score
	TAP DH	TAP NDH	GRIP DH	GRIP NDH	PEG DH	PEG NDH	TPT DH	TPT NDH	TPT BH	SP R	SP L	SP TOT	TFR R	TFR L		
19	92	90	94	93	100	100	96	98	99				83	83	19	
18	88	86	88	88	100	96	91	94	95				79	80	18	
17	84	82	83	83	96	92	87	89	90				76	76	17	
16	80	78	78	78	92	88	83	85	86				72	73	16	
15	75	74	73	73	88	84	79	81	82			74	69	69	15	
14	71	70	68	69	83	80	75	77	77	70			65	66	14	
13	67	66	63	64	79	76	71	73	73		67	67	61	62	13	
12	63	62	58	59	75	72	67	68	69	62			58	59	12	
11	59	57	53	54	71	68	63	64	64		59	61	54	55	11	
10	55	53	48	49	66	64	58	60	60	54	55	58	51	51	10	
9	50	49	43	44	62	60	54	56	55	51	51	54	47	48	9	
8	46	45	37	39	58	56	50	52	51	47	47	51	44	44	8	
7	42	41	32	34	54	52	46	47	47	43	44	48	40	41	7	
6	38	37	27	29	49	48	42	43	42	39	40	44	37	37	6	
5	34	33	22	24	45	44	38	39	38	36	36	41	33	34	5	
4	29	29	17	19	41	40	34	35	33	32	32	38	30	30	4	
3	25	25	12	14	37	36	30	30	29	28	28	35	26	27	3	
2	21	21	7	9	32	32	26	26	25	24	24	31	23	23	2	
1	17	17	2	4	28	28	21	22	20	20	20	28	19	20	1	
0	13	13	0	0	24	24		18							0	

Note. See page 16 for a description of acronyms.

## APPENDIX D (continued)

Sex: Male  
Education: 12 years  
Age: 75-79 years  
Race: Caucasian

Summary scores				Executive functions					Attention/Working memory						Scaled score
Scaled score	WAIS-R FSIQ	WAIS FSIQ	AIR	CAT ERROR	TRAIL B	THUR FLU	FAS	ANIMALS	WAIS-R DIGIT SPAN	WAIS DIGIT SPAN	PASAT	DIGIT ERROR	SSHOR RHYM	SPCH PERC	
19	79		100	99	100	92	85	95	83						19
18	75	81	100	95	98	88	81	91	79	81				90	18
17	70	76	100	91	93	84	78	87			85				17
16	66	72	100	87	89	80	74	82	71		82				16
15	62	68	99	83	84	76	71	78	67	71	78	73	66	79	15
14	58	63	93	79	80	73	67	74	63	68	74		63		14
13	53	59	88	75	76	69	64	70	60	64	70	66		71	13
12	49	55	83	71	71	65	60	65	56		66	63	57	67	12
11	45	50	77	67	67	61	56	61	52	58	62	59		63	11
10	41	46	72	63	62	57	53	57	48	55	59	56	51	59	10
9	37	42	67	59	58	54	49	52		51	55	53	48	55	9
8	32	38	61	54	53	50	46	48	40	48	51	49	45	51	8
7	28	33	56	50	49	46	42	44	36		47	46	41	47	7
6	24	29	50	46	44	42	38	40	32	42	43	42	38	43	6
5	20	25	45	42	40	38	35	35	28	39	39	39	35	39	5
4	15	20	40	38	35	35	31	31	24		36	35	32	35	4
3	11	16	34	34	31	31	28	27	20	32	32	32	29	31	3
2	7	12	29	30	27	27	24	23	16		28	28	26	28	2
1	3	7	24	26	22	23	20	18		26	24	25	23	24	1
0		3	18	22				14		22	20	22	20		0

Scaled score	Speed of information processing				Spatial skills				Verbal/Academic skills								Scaled score
	WAIS-R DIGIT SYMB	WAIS DIGIT SYMB	TRAIL A	DIGIT TIME	WAIS-R BLOCK DESGN	WAIS BLOCK DESGN	TPT TIME	SPAT REL	WAIS-R VOCAB	WAIS VOCAB	APHAS SCRIN	BSTN NAME	BDAE COMP	PIAT RECOG	PIAT COMP	PIAT SPELL	
19	100		100		98		100		83								19
18	100	100	96	95			100		78								18
17	99	100	92	91	90		96		74	85				76	81		17
16	95	97	87	87	86	83	92		70	80		82		72	78	79	16
15	91	93	83	83	82	79	88		66	76				69	74		15
14	87	88	78	79	78	75	84		62	71		74		65	70	71	14
13	83	84	74	75	74	71	80		58	67	67	70		61	67	67	13
12	79	80	70	71	70	66	76		54	62			61	58	63	63	12
11	75	75	65	67	66	62	72	59	49	57	59	62		54	59	59	11
10	71	71	61	63	62	58	68		45	53	55	58		50	56	55	10
9	67	67	56	59	58	54	64	48	41	48	50	54	46	47	52	51	9
8	64	62	52	55	54	50	59		37	44	46	50		43	48	47	8
7	60	58	47	51	50	46	55	36	33	39	42	46	37	39	45	43	7
6	56	53	43	47	46	42	51		29	35	38	42		36	41	39	6
5	52	49	38	43	42	38	47	25	24	30	33	38	27	32	37	35	5
4	48	45	34	39	38	34	43		20	26	29	34		28	34	31	4
3	44	40	30		34	29	39	13	16	21	25	30	18	25	30		3
2	40	36	25		30	25	35	7	12	17	21	26	13	21			2
1	36	32	21		26	21	31	2	8	12	17	22	8				1
0		27				17	27	0		7	12				19	15	0

(continued)

## APPENDIX D (continued)

Sex: Male  
Education: 12 years  
Age: 75-79 years  
Race: Caucasian

Scaled score	Verbal episodic memory									Visual episodic memory						Scaled score
	STORY-T1	STORY LEARN	STORY RECALL	STORY LOSS	CVLT-1	CVLT-5	CVLT-TOT	CVLT-SDFR	CVLT-LDFR	TPT MEM	TPT LOC	FIGUR-T1	FIGUR LEARN	FIGUR RECALL	FIGUR LOSS	
19	96		89		100		99				95	99	98	88		19
18	92	98	85				95				91	95	94	84		18
17	88	93	81		91		90			89		90		81		17
16	84	89	77			85	86	83	88			86	86	77		16
15	79	84	73		82		82	79			80					15
14	75	80	69	67	77	77	78	75	80		76	78	78	69		14
13	71	75	65		73		74	71		73		73	74	66	60	13
12	66	71	61	60	68	69	70	68	71		68	69	70		57	12
11	62	66	57	56	63	65	66	64	66	65	64	65	66	58	53	11
10	58	61	52	53	59	61	62	60	62		60	61	62	54	50	10
9	54	57	48	49	54	57	57	56	57	57	57	56	58	51	46	9
8	49	52	44	46	50	53	53	53	53		53	52	54	47	43	8
7	45	48	40	42	45	49	49	49	48	49	49	48	49	43	39	7
6	41	43	36	39		45	45	45	44	45		44	45	40	36	6
5	37	39	32	35	36	41	41	41	39	41	41	40	41	36	32	5
4	32	34	28	32		37	37	37	35	38		35	37	32	29	4
3	28	30	24	28	27	33	33		30	34		31	33	28	25	3
2	24	25	20	25	22	29	29	30	26	30		27	29	25	22	2
1	19		16	22	18	25	24	26	21	26				21		1
0				18		21	20	22								0

Scaled score	Lateralized sensorimotor/Psychomotor comparisons														Scaled score
	TAP DH	TAP NDH	GRIP DH	GRIP NDH	PEG DH	PEG NDH	TPT DH	TPT NDH	TPT BH	SP R	SP L	SP TOT	TFR R	TFR L	
19	94	91	96	96	100	100	99	100	100				83	83	19
18	90	87	91	91	100	99	95	96	98				79	80	18
17	86	83	86	86	99	95	91	92	93				76	76	17
16	82	79	81	81	95	91	86	88	89				72	73	16
15	78	75	76	76	91	87	82	84	85			76	69	69	15
14	73	71	70	71	87	83	78	80	80	72			65	66	14
13	69	67	65	66	82	79	74	75	76		68	70	62	62	13
12	65	63	60	61	78	75	70	71	72	64			58	59	12
11	61	59	55	56	74	71	66	67	67		60	63	55	55	11
10	57	55	50	51	70	67	62	63	63	56	56	60	51	52	10
9	52	50	45	46	65	63	58	59	58	53	52	57	48	48	9
8	48	46	40	41	61	59	53	54	54	49	48	53	44	45	8
7	44	42	35	36	57	55	49	50	50	45	45	50	41	41	7
6	40	38	30	31	53	51	45	46	45	41	41	47	37	37	6
5	36	34	25	26	48	47	41	42	41	38	37	44	33	34	5
4	32	30	20	21	44	43	37	37	36	34	33	40	30	30	4
3	27	26	14	16	40	39	33	33	32	30	29	37	26	27	3
2	23	22	9	11	36	35	29	29	28	26	25	34	23	23	2
1	19	18	4	6	31	31	25	25	23	22	21	30	19	20	1
0	15	14	0	1	27	27		21							0

Note. See page 16 for a description of acronyms.



## APPENDIX D (continued)

Sex: Male  
Education: 12 years  
Age: 80-85 years  
Race: Caucasian

Summary scores				Executive functions					Attention/Working memory						Scaled score
Scaled score	WAIS-R FSIQ	WAIS FSIQ	AIR	CAT ERROR	TRAIL B	THUR FLU	FAS	ANIMALS	WAIS-R DIGIT SPAN	WAIS DIGIT SPAN	PASAT	DIGIT ERROR	SSHOR RHYM	SPCH PERC	
19	79		100	100	100	92	86	97	83						19
18	75	80	100	97	100	89	82	92	79	81				94	18
17	70	75	100	93	96	85	79	88			86				17
16	66	71	100	89	92	81	75	84	71		83				16
15	62	67	100	84	88	77	71	80	67	71	79	74	67	82	15
14	58	62	98	80	83	73	68	75	63	68	75		64		14
13	53	58	93	76	79	70	64	71	60	65	71	67		74	13
12	49	54	87	72	74	66	61	67	56		67	64	58	70	12
11	45	49	82	68	70	62	57	63	52	58	63	60		66	11
10	41	45	77	64	65	58	53	58	48	55	60	57	51	62	10
9	37	41	71	60	61	54	50	54		52	56	53	48	58	9
8	32	36	66	56	56	51	46	50	40	49	52	50	45	54	8
7	28	32	61	52	52	47	43	45	36		48	46	42	50	7
6	24	28	55	48	47	43	39	41	32	42	44	43	39	47	6
5	20	23	50	44	43	39	35	37	28	39	40	40	36	43	5
4	15	19	45	40	39	36	32	33	24		37	36	33	39	4
3	11	15	39	36	34	32	28	28	20	33	33	33	30	35	3
2	7	10	34	32	30	28	25	24	16		29	29	26	31	2
1	3	6	29	28	25	24	21	20		26	25	26	23	27	1
0		2	23	24				16		23	21	22	20		0

Speed of information processing					Spatial skills				Verbal/Academic skills								Scaled score
Scaled score	WAIS-R DIGIT SYMB	WAIS DIGIT SYMB	TRAIL A	DIGIT TIME	WAIS-R BLOCK DESGN	WAIS BLOCK DESGN	TPT TIME	SPAT REL	WAIS-R VOCAB	WAIS VOCAB	APHAS SCRIN	BSTN NAME	BDAE COMP	PIAT RECOG	PIAT COMP	PIAT SPELL	
19	100		100		98		100		83								19
18	100	100	98	99			100		78								18
17	99	100	94	95	90		100		74	85				75	82		17
16	95	99	89	91	86	84	98		70	80		84		71	78	78	16
15	91	95	85	87	82	80	94		66	76				68	75		15
14	87	91	80	83	78	76	89		62	71		76		64	71	70	14
13	83	86	76	79	74	72	85		58	67	67	72		60	67	67	13
12	79	82	71	75	70	68	81		54	62			61	57	64	63	12
11	75	78	67	71	66	64	77	60	49	57	59	65		53	60	59	11
10	71	73	62	67	62	60	73		45	53	55	61		49	56	55	10
9	67	69	58	63	58	55	69	48	41	48	51	57	46	46	53	51	9
8	64	65	54	58	54	51	65		37	44	46	53		42	49	47	8
7	60	60	49	54	50	47	61	37	33	39	42	49	37	38	45	43	7
6	56	56	45	50	46	43	57		29	35	38	45		35	42	39	6
5	52	52	40	46	42	39	53	25	24	30	34	41	27	31	38	35	5
4	48	47	36	42	38	35	49		20	26	29	37		27	34	31	4
3	44	43	31		34	31	44	14	16	21	25	33	18	24	31		3
2	40	39	27		30	27	40	8	12	17	21	29	13	20			2
1	36	34	22		26	23	36	2	8	12	17	25	8				1
0		30				19	32	0		7	13				20	15	0

(continued)

## APPENDIX D (continued)

Sex: Male  
Education: 12 years  
Age: 80-85 years  
Race: Caucasian

Scaled score	Verbal episodic memory									Visual episodic memory						Scaled score
	STORY-T1	STORY LEARN	STORY RECALL	STORY LOSS	CVLT-1	CVLT-5	CVLT-TOT	CVLT-SDFR	CVLT-LDFR	TPT MEM	TPT LOC	FIGUR-T1	FIGUR LEARN	FIGUR RECALL	FIGUR LOSS	
19	97		89		100		100				97	100	100	89		19
18	93	99	85				99				93	96	96	85		18
17	89	94	81		94		95			93		92		81		17
16	85	90	77			89	91	87	92			88	88	77		16
15	80	85	73		85		86	83			82					15
14	76	81	69	67	80	81	82	79	83		78	79	80	70		14
13	72	76	65		76		78	75		77		75	76	66	61	13
12	68	72	61	60	71	73	74	71	74		70	71	71		57	12
11	63	67	57	56	66	69	70	68	70	69	66	67	67	59	54	11
10	59	63	53	53	62	65	66	64	65		62	62	63	55	50	10
9	55	58	49	49	57	61	62	60	61	61	58	58	59	51	46	9
8	50	54	45	46	53	57	58	56	56		54	54	55	48	43	8
7	46	49	41	43	48	53	53	53	52	53	51	50	51	44	39	7
6	42	45	37	39		49	49	49	47	49		45	47	40	36	6
5	38	40	33	36	39	45	45	45	43	45	43	41	43	36	32	5
4	33	35	29	32		41	41	41	38	41		37	39	33	29	4
3	29	31	25	29	30	37	37		34	37		33	35	29	25	3
2	25	26	21	25	25	33	33	34	29	33		29	31	25	22	2
1	21		17	22	21	29	29	30	25	29				21		1
0				18		25	25	26								0

Scaled score	Lateralized sensorimotor/Psychomotor comparisons															Scaled score
	TAP DH	TAP NDH	GRIP DH	GRIP NDH	PEG DH	PEG NDH	TPT DH	TPT NDH	TPT BH	SP R	SP L	SP TOT	TFR R	TFR L		
19	97	92	99	99	100	100	100	100	100				83	83	19	
18	93	88	94	94	100	100	99	100	100				79	80	18	
17	89	84	88	89	100	98	95	96	97				76	76	17	
16	84	80	83	84	99	94	91	91	93				72	73	16	
15	80	76	78	79	95	90	86	87	88			79	69	69	15	
14	76	72	73	74	91	86	82	83	84	74			65	66	14	
13	72	68	68	69	86	82	78	79	79		69	73	62	62	13	
12	68	64	63	64	82	78	74	74	75	67			58	59	12	
11	64	60	58	59	78	74	70	70	71		61	66	55	55	11	
10	59	56	53	54	74	70	66	66	66	59	57	63	51	52	10	
9	55	52	48	49	69	66	62	62	62	55	53	60	48	48	9	
8	51	47	43	44	65	62	58	58	58	51	50	56	44	45	8	
7	47	43	37	39	61	58	53	53	53	48	46	53	41	41	7	
6	43	39	32	34	57	54	49	49	49	44	42	50	37	38	6	
5	38	35	27	29	52	50	45	45	44	40	38	46	34	34	5	
4	34	31	22	24	48	46	41	41	40	36	34	43	30	31	4	
3	30	27	17	19	44	42	37	36	36	33	30	40	27	27	3	
2	26	23	12	14	40	38	33	32	31	29	26	37	23	23	2	
1	22	19	7	9	35	34	29	28	27	25	22	33	20	20	1	
0	18	15	2	4	31	30		24							0	

Note. See page 16 for a description of acronyms.

## APPENDIX D (continued)

Sex: Male  
Education: 13-15 years  
Age: 20-34 years  
Race: Caucasian

Summary scores				Executive functions					Attention/Working memory						Scaled score
Scaled score	WAIS-R FSIQ	WAIS FSIQ	AIR	CAT ERROR	TRAIL B	THUR FLU	FAS	ANIMALS	WAIS-R DIGIT SPAN	WAIS DIGIT SPAN	PASAT	DIGIT ERROR	SSHOR RHYM	SPCH PERC	
19	83		88	79	81	81	77	79	78						19
18	78	87	83	75	77	77	74	75	75	74				75	18
17	74	82	77	71	72	73	70	71			74				17
16	70	78	72	67	68	69	66	66	67		70				16
15	66	74	67	63	63	65	63	62	63	64	67	65	58	63	15
14	61	69	61	59	59	62	59	58	59	61	63		55		14
13	57	65	56	55	54	58	56	54	55	57	59	58		55	13
12	53	61	50	51	50	54	52	49	51		55	54	48	51	12
11	49	56	45	47	46	50	48	45	47	51	51	51		47	11
10	45	52	40	43	41	47	45	41	43	48	47	47	42	43	10
9	40	48	34	39	37	43	41	37		45	44	44	39	40	9
8	36	44	29	35	32	39	38	32	35	41	40	40	36	36	8
7	32	39	24	31	28	35	34	28	32		36	37	33	32	7
6	28	35	18	27	23	31	30	24	28	35	32	34	30	28	6
5	23	31	13	23	19	28	27	19	24	32	28	30	27	24	5
4	19	26	8	19	14	24	23	15	20		24	27	23	20	4
3	15	22	2	15	10	20	20	11	16	25	21	23	20	16	3
2	11	18	0	11	6	16	16	7	12		17	20	17	12	2
1	6	13	0	7	1	12	12	2		19	13	16	14	8	1
0		9	0	3				0		15	9	13	11		0

Scaled score	Speed of information processing				Spatial skills				Verbal/Academic skills								Scaled score
	WAIS-R DIGIT SYMB	WAIS DIGIT SYMB	TRAIL A	DIGIT TIME	WAIS-R BLOCK DESGN	WAIS BLOCK DESGN	TPT TIME	SPAT REL	WAIS-R VOCAB	WAIS VOCAB	APHAS SCRIN	BSTN NAME	BDAE COMP	PIAT RECOG	PIAT COMP	PIAT SPELL	
19	84		82		83		81		85								19
18	80	80	78	80			77		80								18
17	76	75	73	76	75		73		76	80				77	75		17
16	72	71	69	72	71	69	69		72	75		69		73	71	75	16
15	68	67	64	68	67	64	65		68	71				69	68		15
14	64	62	60	63	63	60	60		64	66		61		66	64	67	14
13	60	58	55	59	59	56	56		60	62	63	57		62	60	63	13
12	57	54	51	55	55	52	52		55	57			58	58	57	59	12
11	53	49	47	51	51	48	48	54	51	53	55	50		55	53	55	11
10	49	45	42	47	47	44	44		47	48	50	46		51	49	51	10
9	45	40	38	43	43	40	40	43	43	44	46	42	43	47	46	47	9
8	41	36	33	39	39	36	36		39	39	42	38		44	42	43	8
7	37	32	29	35	35	32	32	31	35	34	38	34	34	40	38	39	7
6	33	27	24	31	31	27	28		31	30	33	30		36	35	35	6
5	29	23	20	27	27	23	24	20	26	25	29	26	24	33	31	31	5
4	25	19	15	23	23	19	20		22	21	25	22		29	27	27	4
3	21	14	11		19	15	15	8	18	16	21	18	15	25	24		3
2	17	10	7		15	11	11	3	14	12	17	14	10	22			2
1	13	6	2		11	7	7	0	10	7	12	10	5				1
0		1				3	3	0		3	8				13	11	0

(continued)

## APPENDIX D (continued)

Sex: Male  
Education: 13-15 years  
Age: 20-34 years  
Race: Caucasian

Scaled score	Verbal episodic memory									Visual episodic memory						Scaled score
	STORY-T1	STORY LEARN	STORY RECALL	STORY LOSS	CVLT-1	CVLT-5	CVLT-TOT	CVLT-SDFR	CVLT-LDFR	TPT MEM	TPT LOC	FIGUR-T1	FIGUR LEARN	FIGUR RECALL	FIGUR LOSS	
19	85		84		86		80				78	81	80	82		19
18	80	84	80				75				74	77	76	78		18
17	76	80	76		77		71			72		72		74		17
16	72	75	72			66	67	65	72			68	67	70		16
15	68	71	67		68		63	61			63					15
14	63	66	63	65	63	59	59	58	63		59	60	59	63		14
13	59	62	59		59		55	54		56		55	55	59	59	13
12	55	57	55	58	54	51	51	50	54		51	51	51		56	12
11	51	53	51	55	49	47	47	46	49	48	47	47	47	52	52	11
10	46	48	47	51	45	43	42	42	45		43	43	43	48	49	10
9	42	44	43	48	40	39	38	39	40	40	39	38	39	44	45	9
8	38	39	39	44	36	35	34	35	36		35	34	35	41	41	8
7	33	35	35	41	31	31	30	31	31	32	32	30	31	37	38	7
6	29	30	31	37		27	26	27	27	28		26	27	33	34	6
5	25	26	27	34	22	23	22	24	22	24	24	22	23	29	31	5
4	21	21	23	30		19	18	20	18	20		17	19	26	27	4
3	16	16	19	27	13	15	14		13	16		13	15	22	24	3
2	12	12	15	23	8	11	9	12	9	12		9	11	18	20	2
1	8		11	20	4	7	5	8	4	8				15		1
0				16		3	1	5								0

Scaled score	Lateralized sensorimotor/Psychomotor comparisons															Scaled score
	TAP DH	TAP NDH	GRIP DH	GRIP NDH	PEG DH	PEG NDH	TPT DH	TPT NDH	TPT BH	SP R	SP L	SP TOT	TFR R	TFR L		
19	82	79	82	81	83	80	81	80	80				81	81	19	
18	78	75	77	76	79	76	77	76	75				77	77	18	
17	74	71	72	71	75	72	73	72	71				74	74	17	
16	70	67	66	66	70	68	69	68	67				70	70	16	
15	65	63	61	61	66	64	65	63	62			63	67	67	15	
14	61	59	56	56	62	60	61	59	58	60			63	63	14	
13	57	55	51	51	58	56	57	55	54		58	57	60	60	13	
12	53	51	46	46	53	52	53	51	49	53			56	56	12	
11	49	47	41	41	49	48	48	47	45		50	50	53	53	11	
10	44	43	36	36	45	44	44	42	40	45	46	47	49	49	10	
9	40	39	31	31	41	40	40	38	36	41	42	44	45	45	9	
8	36	35	26	26	36	36	36	34	32	37	38	40	42	42	8	
7	32	31	21	21	32	32	32	30	27	34	34	37	38	38	7	
6	28	26	15	16	28	28	28	25	23	30	30	34	35	35	6	
5	24	22	10	11	24	24	24	21	18	26	26	30	31	31	5	
4	19	18	5	6	19	20	20	17	14	22	22	27	28	28	4	
3	15	14	0	1	15	16	15	13	10	19	18	24	24	24	3	
2	11	10	0	0	11	12	11	9	5	15	15	21	21	21	2	
1	7	6	0	0	7	8	7	4	1	11	11	17	17	17	1	
0	3	2	0	0	2	4		0							0	

Note. See page 16 for a description of acronyms.

## APPENDIX D (continued)

Sex: Male  
Education: 13-15 years  
Age: 35-39 years  
Race: Caucasian

Summary scores				Executive functions					Attention/Working memory						Scaled score
Scaled score	WAIS-R FSIQ	WAIS FSIQ	AIR	CAT ERROR	TRAIL B	THUR FLU	FAS	ANIMALS	WAIS-R DIGIT SPAN	WAIS DIGIT SPAN	PASAT	DIGIT ERROR	SSHOR RHYM	SPCH PERC	
19	81		92	83	83	82	78	82	78						19
18	77	85	86	79	79	79	75	78	75	75				76	18
17	73	80	81	75	75	75	71	74			76				17
16	68	76	75	71	70	71	68	69	67		72				16
15	64	72	70	67	66	67	64	65	63	65	68	66	59	64	15
14	60	67	65	63	61	63	60	61	59	62	65		56		14
13	56	63	59	59	57	60	57	56	55	58	61	59		56	13
12	51	59	54	54	52	56	53	52	51		57	56	49	52	12
11	47	54	49	50	48	52	50	48	47	52	53	52		48	11
10	43	50	43	46	43	48	46	44	43	49	49	49	43	44	10
9	39	46	38	42	39	44	42	39		46	45	45	40	41	9
8	34	41	33	38	34	41	39	35	35	42	42	42	37	37	8
7	30	37	27	34	30	37	35	31	32		38	38	34	33	7
6	26	33	22	30	26	33	32	27	28	36	34	35	31	29	6
5	22	28	16	26	21	29	28	22	24	33	30	32	28	25	5
4	18	24	11	22	17	25	25	18	20		26	28	25	21	4
3	13	20	6	18	12	22	21	14	16	26	22	25	21	17	3
2	9	15	0	14	8	18	17	9	12		19	21	18	13	2
1	5	11	0	10	3	14	14	5		20	15	18	15	9	1
0		7	0	6				1		16	11	14	12		0

Scaled score	Speed of information processing				Spatial skills				Verbal/Academic skills								Scaled score
	WAIS-R DIGIT SYMB	WAIS DIGIT SYMB	TRAIL A	DIGIT TIME	WAIS-R BLOCK DESGN	WAIS BLOCK DESGN	TPT TIME	SPAT REL	WAIS-R VOCAB	WAIS VOCAB	APHAS SCRIN	BSTN NAME	BDAE COMP	PIAT RECOG	PIAT COMP	PIAT SPELL	
19	87		85		83		82		83								19
18	83	87	81	81			78		79								18
17	79	83	77	77	75		74		75	80				76	76		17
16	76	79	72	73	71	71	70		71	75		67		73	72	75	16
15	72	74	68	69	67	67	66		67	71				69	68		15
14	68	70	63	65	64	63	62		62	66		59		65	65	67	14
13	64	66	59	61	60	59	58		58	62	63	55		62	61	63	13
12	60	61	54	56	56	55	54		54	57			58	58	57	59	12
11	56	57	50	52	52	50	50	55	50	53	55	48		54	54	55	11
10	52	52	45	48	48	46	46		46	48	51	44		51	50	51	10
9	48	48	41	44	44	42	42	44	42	44	47	40	44	47	46	47	9
8	44	44	37	40	40	38	37		38	39	42	36		43	43	43	8
7	40	39	32	36	36	34	33	32	33	34	38	32	34	40	39	39	7
6	36	35	28	32	32	30	29		29	30	34	28		36	35	35	6
5	32	31	23	28	28	26	25	21	25	25	30	24	24	32	32	31	5
4	28	26	19	24	24	22	21		21	21	25	20		29	28	27	4
3	24	22	14		20	18	17	9	17	16	21	16	15	25	24		3
2	20	18	10		16	13	13	3	13	12	17	12	10	21			2
1	16	13	5		12	9	9	0	8	7	13	8	5				1
0		9				5	5	0		3	9				13	11	0

(continued)

## APPENDIX D (continued)

Sex: Male  
Education: 13-15 years  
Age: 35-39 years  
Race: Caucasian

Scaled score	Verbal episodic memory									Visual episodic memory						Scaled score
	STORY-T1	STORY LEARN	STORY RECALL	STORY LOSS	CVLT-1	CVLT-5	CVLT-TOT	CVLT-SDFR	CVLT-LDFR	TPT MEM	TPT LOC	FIGUR-T1	FIGUR LEARN	FIGUR RECALL	FIGUR LOSS	
19	87		84		87		81				81	84	83	83		19
18	82	86	80				77				78	80	79	79		18
17	78	82	76		78		73			73		75		75		17
16	74	77	72			68	68	66	73			71	71	71		16
15	70	73	68		69		64	62			66					15
14	65	68	64	65	64	60	60	59	64		62	63	63	64		14
13	61	64	60		60		56	55		57		59	59	60	59	13
12	57	59	56	58	55	52	52	51	55		54	54	54		56	12
11	52	55	52	55	50	48	48	47	50	49	50	50	50	53	52	11
10	48	50	48	52	46	44	44	44	46		46	46	46	49	49	10
9	44	46	44	48	41	40	40	40	41	41	43	42	42	45	45	9
8	40	41	40	45	37	36	35	36	37		39	37	38	42	42	8
7	35	37	36	41	32	32	31	32	32	33	35	33	34	38	38	7
6	31	32	32	38		28	27	29	28	29		29	30	34	35	6
5	27	28	28	34	23	24	23	25	23	25	27	25	26	30	31	5
4	23	23	24	31		20	19	21	19	21		20	22	27	28	4
3	18	19	20	27	14	16	15		14	17		16	18	23	24	3
2	14	14	16	24	9	12	11	13	10	13		12	14	19	21	2
1	10		12	20	5	8	7	10	5	9				16		1
0				17		4	2	6								0

Scaled score	Lateralized sensorimotor/Psychomotor comparisons															Scaled score
	TAP DH	TAP NDH	GRIP DH	GRIP NDH	PEG DH	PEG NDH	TPT DH	TPT NDH	TPT BH	SP R	SP L	SP TOT	TFR R	TFR L		
19	83	80	81	80	86	83	83	83	82				81	81	19	
18	79	76	76	75	82	79	78	78	78				77	77	18	
17	75	72	71	70	78	75	74	74	74				74	74	17	
16	70	68	66	65	73	71	70	70	69				70	70	16	
15	66	64	60	60	69	67	66	66	65			64	67	67	15	
14	62	60	55	55	65	63	62	62	60	61			63	63	14	
13	58	56	50	50	61	59	58	57	56		60	58	60	60	13	
12	54	51	45	45	56	55	54	53	52	53			56	56	12	
11	49	47	40	40	52	51	50	49	47		52	51	53	53	11	
10	45	43	35	35	48	47	46	45	43	46	48	48	49	49	10	
9	41	39	30	31	44	43	41	40	39	42	44	44	46	46	9	
8	37	35	25	26	39	39	37	36	34	38	40	41	42	42	8	
7	33	31	20	21	35	35	33	32	30	34	36	38	39	39	7	
6	29	27	15	16	31	31	29	28	25	31	32	35	35	35	6	
5	24	23	9	11	27	27	25	24	21	27	28	31	32	32	5	
4	20	19	4	6	22	23	21	19	17	23	24	28	28	28	4	
3	16	15	0	1	18	19	17	15	12	19	20	25	25	25	3	
2	12	11	0	0	14	15	13	11	8	16	16	21	21	21	2	
1	8	7	0	0	10	11	8	7	4	12	13	18	18	17	1	
0	3	2	0	0	5	7		2							0	

Note. See page 16 for a description of acronyms.

## APPENDIX D (continued)

Sex: Male  
Education: 13-15 years  
Age: 40-44 years  
Race: Caucasian

Summary scores				Executive functions					Attention/Working memory						Scaled score
Scaled score	WAIS-R FSIQ	WAIS FSIQ	AIR	CAT ERROR	TRAIL B	THUR FLU	FAS	ANIMALS	WAIS-R DIGIT SPAN	WAIS DIGIT SPAN	PASAT	DIGIT ERROR	SSHOR RHYM	SPCH PERC	
19	81		94	84	85	84	79	83	78						19
18	77	83	88	80	80	80	75	79	75	75				77	18
17	73	79	83	76	76	77	72	75			77				17
16	68	75	78	72	71	73	68	71	67		73				16
15	64	70	72	68	67	69	65	66	63	65	69	67	59	65	15
14	60	66	67	64	63	65	61	62	59	62	66		56		14
13	56	62	62	60	58	61	57	58	55	59	62	60		57	13
12	51	58	56	56	54	58	54	54	51		58	56	50	53	12
11	47	53	51	52	49	54	50	49	47	52	54	53		49	11
10	43	49	45	48	45	50	47	45	43	49	50	49	44	45	10
9	39	45	40	44	40	46	43	41		46	46	46	41	41	9
8	34	40	35	40	36	42	40	37	35	43	42	43	38	37	8
7	30	36	29	36	31	39	36	32	32		39	39	35	33	7
6	26	32	24	32	27	35	32	28	28	36	35	36	31	29	6
5	22	27	19	28	23	31	29	24	24	33	31	32	28	26	5
4	18	23	13	24	18	27	25	19	20		27	29	25	22	4
3	13	19	8	20	14	23	22	15	16	27	23	25	22	18	3
2	9	14	3	16	9	20	18	11	12		19	22	19	14	2
1	5	10	0	12	5	16	14	7		20	16	18	16	10	1
0		6	0	8				2		17	12	15	13		0

Scaled score	Speed of information processing				Spatial skills				Verbal/Academic skills								Scaled score
	WAIS-R DIGIT SYMB	WAIS DIGIT SYMB	TRAIL A	DIGIT TIME	WAIS-R BLOCK DESGN	WAIS BLOCK DESGN	TPT TIME	SPAT REL	WAIS-R VOCAB	WAIS VOCAB	APHAS SCRIN	BSTN NAME	BDAE COMP	PIAT RECOG	PIAT COMP	PIAT SPELL	
19	87		87		83		84		83								19
18	83	90	83	82			80		79								18
17	79	85	78	78	75		75		75	80				76	76		17
16	76	81	74	73	71	72	71		71	75		67		73	72	75	16
15	72	77	69	69	67	68	67		67	71				69	69		15
14	68	72	65	65	64	64	63		62	66		59		65	65	67	14
13	64	68	60	61	60	60	59		58	62	64	56		62	61	63	13
12	60	63	56	57	56	56	55		54	57			58	58	58	59	12
11	56	59	52	53	52	52	51	55	50	53	55	48		54	54	55	11
10	52	55	47	49	48	48	47		46	48	51	44		51	50	51	10
9	48	50	43	45	44	43	43	44	42	44	47	40	44	47	47	47	9
8	44	46	38	41	40	39	39		38	39	43	36		43	43	43	8
7	40	42	34	37	36	35	35	32	33	34	38	32	34	40	39	39	7
6	36	37	29	33	32	31	31		29	30	34	28		36	36	35	6
5	32	33	25	29	28	27	26	21	25	25	30	24	25	32	32	31	5
4	28	29	20	25	24	23	22		21	21	26	20		28	28	27	4
3	24	24	16		20	19	18	9	17	16	21	16	15	25	25		3
2	20	20	12		16	15	14	4	13	12	17	12	10	21			2
1	16	16	7		12	11	10	0	8	7	13	8	5				1
0		11				7	6	0		3	9				14	11	0

(continued)

## APPENDIX D (continued)

Sex: Male  
Education: 13-15 years  
Age: 40-44 years  
Race: Caucasian

Scaled score	Verbal episodic memory									Visual episodic memory						Scaled score
	STORY-T1	STORY LEARN	STORY RECALL	STORY LOSS	CVLT-1	CVLT-5	CVLT-TOT	CVLT-SDFR	CVLT-LDFR	TPT MEM	TPT LOC	FIGUR-T1	FIGUR LEARN	FIGUR RECALL	FIGUR LOSS	
19	88		85		88		82				83	85	84	83		19
18	83	88	81				78				79	81	80	79		18
17	79	83	77		79		74			74		77		76		17
16	75	79	73			68	69	67	73			73	72	72		16
15	70	74	69		69		65	63			68					15
14	66	69	65	66	65	61	61	60	64		64	64	64	65		14
13	62	65	61		60		57	56		58		60	60	61	59	13
12	58	60	56	59	56	53	53	52	55		56	56	56		56	12
11	53	56	52	55	51	49	49	48	51	50	52	52	52	53	52	11
10	49	51	48	52	46	45	45	44	47		48	47	48	50	49	10
9	45	47	44	48	42	41	40	41	42	42	44	43	44	46	45	9
8	41	42	40	45	37	37	36	37	38		40	39	40	42	42	8
7	36	38	36	41	33	33	32	33	33	34	36	35	36	38	38	7
6	32	33	32	38		29	28	29	29	30		30	32	35	35	6
5	28	29	28	34	24	25	24	26	24	26	29	26	28	31	31	5
4	23	24	24	31		21	20	22	20	22		22	24	27	28	4
3	19	20	20	27	14	17	16		15	18		18	20	23	24	3
2	15	15	16	24	10	13	12	14	11	14		13	16	20	21	2
1	11		12	20	5	9	7	10	6	10				16		1
0				17		5	3	7								0

Scaled score	Lateralized sensorimotor/Psychomotor comparisons															Scaled score
	TAP DH	TAP NDH	GRIP DH	GRIP NDH	PEG DH	PEG NDH	TPT DH	TPT NDH	TPT BH	SP R	SP L	SP TOT	TFR R	TFR L		
19	83	81	82	81	88	85	84	84	84				81	81	19	
18	79	77	77	76	84	81	79	80	80				77	78	18	
17	75	73	71	71	79	77	75	76	75				74	74	17	
16	71	69	66	66	75	73	71	71	71				70	71	16	
15	67	65	61	61	71	69	67	67	66			65	67	67	15	
14	63	61	56	56	67	65	63	63	62	61			63	63	14	
13	58	57	51	51	62	61	59	59	58		61	58	60	60	13	
12	54	53	46	46	58	57	55	55	53	54			56	56	12	
11	50	49	41	41	54	53	51	50	49		53	52	53	53	11	
10	46	45	36	37	50	49	46	46	45	46	49	48	49	49	10	
9	42	40	31	32	45	45	42	42	40	43	45	45	46	46	9	
8	37	36	26	27	41	41	38	38	36	39	41	42	42	42	8	
7	33	32	21	22	37	37	34	33	31	35	37	39	39	39	7	
6	29	28	15	17	33	33	30	29	27	31	33	35	35	35	6	
5	25	24	10	12	28	29	26	25	23	27	29	32	32	32	5	
4	21	20	5	7	24	25	22	21	18	24	25	29	28	28	4	
3	17	16	0	2	20	21	18	17	14	20	21	25	25	25	3	
2	12	12	0	0	16	17	13	12	9	16	17	22	21	21	2	
1	8	8	0	0	11	13	9	8	5	12	13	19	18	18	1	
0	4	4	0	0	7	9		4							0	

Note. See page 16 for a description of acronyms.



## APPENDIX D (continued)

Sex: Male  
Education: 13-15 years  
Age: 45-49 years  
Race: Caucasian

Summary scores				Executive functions					Attention/Working memory						Scaled score
Scaled score	WAIS-R FSIQ	WAIS FSIQ	AIR	CAT ERROR	TRAIL B	THUR FLU	FAS	ANIMALS	WAIS-R DIGIT SPAN	WAIS DIGIT SPAN	PASAT	DIGIT ERROR	SSHOR RHYM	SPCH PERC	
19	79		96	86	86	85	80	85	78						19
18	75	82	91	82	82	81	76	81	75	76				78	18
17	71	78	85	78	77	77	72	76			78				17
16	67	74	80	74	73	74	69	72	67		74				16
15	62	69	75	70	69	70	65	68	63	66	70	67	60	66	15
14	58	65	69	66	64	66	62	64	59	63	66		57		14
13	54	61	64	62	60	62	58	59	55	59	63	61		58	13
12	50	56	59	58	55	58	55	55	51		59	57	51	54	12
11	46	52	53	54	51	55	51	51	47	53	55	54		50	11
10	41	48	48	50	46	51	47	46	43	50	51	50	44	46	10
9	37	43	43	46	42	47	44	42		47	47	47	41	42	9
8	33	39	37	42	37	43	40	38	35	43	43	43	38	38	8
7	29	35	32	38	33	39	37	34	32		40	40	35	34	7
6	24	31	26	34	29	36	33	29	28	37	36	36	32	30	6
5	20	26	21	30	24	32	29	25	24	34	32	33	29	26	5
4	16	22	16	26	20	28	26	21	20		28	30	26	23	4
3	12	18	10	22	15	24	22	17	16	27	24	26	23	19	3
2	7	13	5	18	11	20	19	12	12		20	23	20	15	2
1	3	9	0	14	6	17	15	8		21	17	19	16	11	1
0		5	0	10				4		17	13	16	13		0

Speed of information processing					Spatial skills				Verbal/Academic skills								Scaled score
Scaled score	WAIS-R DIGIT SYMB	WAIS DIGIT SYMB	TRAIL A	DIGIT TIME	WAIS-R BLOCK DESGN	WAIS BLOCK DESGN	TPT TIME	SPAT REL	WAIS-R VOCAB	WAIS VOCAB	APHAS SCRIN	BSTN NAME	BDAE COMP	PIAT RECOG	PIAT COMP	PIAT SPELL	
19	91		89		85		85		82								19
18	87	92	84	83			81		78								18
17	83	87	80	79	77		77		74	80				76	76		17
16	79	83	75	75	73	73	73		69	75		68		72	73	75	16
15	75	79	71	70	69	69	69		65	71				69	69		15
14	71	74	66	66	65	65	65		61	66		60		65	65	67	14
13	67	70	62	62	61	61	61		57	62	64	56		61	62	63	13
12	63	66	58	58	57	57	57		53	57			58	58	58	59	12
11	59	61	53	54	53	53	52	56	49	53	55	48		54	54	55	11
10	55	57	49	50	50	49	48		44	48	51	44		50	51	51	10
9	51	53	44	46	46	45	44	44	40	44	47	41	44	47	47	47	9
8	47	48	40	42	42	41	40		36	39	43	37		43	43	43	8
7	43	44	35	38	38	36	36	33	32	34	39	33	34	39	40	39	7
6	39	40	31	34	34	32	32		28	30	34	29		36	36	35	6
5	35	35	27	30	30	28	28	21	24	25	30	25	25	32	32	31	5
4	31	31	22	26	26	24	24		20	21	26	21		28	29	27	4
3	27	27	18		22	20	20	10	15	16	22	17	15	25	25		3
2	23	22	13		18	16	16	4	11	12	17	13	10	21			2
1	19	18	9		14	12	12	0	7	7	13	9	5				1
0		14				8	8	0		3	9				14	11	0

(continued)

## APPENDIX D (continued)

Sex: Male  
Education: 13-15 years  
Age: 45-49 years  
Race: Caucasian

Scaled score	Verbal episodic memory									Visual episodic memory						Scaled score
	STORY-T1	STORY LEARN	STORY RECALL	STORY LOSS	CVLT-1	CVLT-5	CVLT-TOT	CVLT-SDFR	CVLT-LDFR	TPT MEM	TPT LOC	FIGUR-T1	FIGUR LEARN	FIGUR RECALL	FIGUR LOSS	
19	88		85		89		83				85	87	86	84		19
18	84	89	81				79				81	83	82	80		18
17	80	84	77		79		75			75		79		76		17
16	76	80	73			70	71	68	74			74	74	72		16
15	71	75	69		70		66	64			69					15
14	67	71	65	66	66	62	62	61	65		65	66	66	65		14
13	63	66	61		61		58	57		59		62	62	61	60	13
12	59	61	57	59	57	54	54	53	57		57	57	58		56	12
11	54	57	53	55	52	50	50	49	52	51	54	53	54	54	52	11
10	50	52	49	52	47	46	46	46	48		50	49	50	50	49	10
9	46	48	45	48	43	42	42	42	43	43	46	45	46	46	45	9
8	41	43	41	45	38	38	38	38	39		42	40	42	43	42	8
7	37	39	37	41	34	34	33	34	34	35	38	36	37	39	38	7
6	33	34	33	38		30	29	30	30	31		32	33	35	35	6
5	29	30	29	34	24	26	25	27	25	27	30	28	29	31	31	5
4	24	25	25	31		22	21	23	21	23		23	25	28	28	4
3	20	21	20	28	15	18	17		16	19		19	21	24	24	3
2	16	16	16	24	11	14	13	15	12	15		15	17	20	21	2
1	12		12	21	6	10	9	12	7	11				17		1
0				17		6	5	8								0

Scaled score	Lateralized sensorimotor/Psychomotor comparisons														Scaled score
	TAP DH	TAP NDH	GRIP DH	GRIP NDH	PEG DH	PEG NDH	TPT DH	TPT NDH	TPT BH	SP R	SP L	SP TOT	TFR R	TFR L	
19	84	83	83	83	90	87	85	86	86				81	81	19
18	80	79	78	78	86	83	81	82	81				77	78	18
17	76	74	73	73	81	79	76	77	77				74	74	17
16	72	70	68	68	77	75	72	73	73				70	71	16
15	68	66	63	63	73	71	68	69	68			66	67	67	15
14	63	62	58	58	69	67	64	65	64	62			63	64	14
13	59	58	52	53	64	63	60	60	60		62	59	60	60	13
12	55	54	47	48	60	59	56	56	55	55			56	57	12
11	51	50	42	43	56	55	52	52	51		54	53	53	53	11
10	47	46	37	38	52	51	48	48	46	47	50	49	49	50	10
9	42	42	32	33	47	47	43	44	42	43	46	46	46	46	9
8	38	38	27	28	43	43	39	39	38	40	42	43	42	42	8
7	34	34	22	23	39	39	35	35	33	36	38	39	39	39	7
6	30	30	17	18	35	35	31	31	29	32	34	36	35	35	6
5	26	26	12	13	30	31	27	27	24	28	30	33	32	32	5
4	22	21	7	8	26	27	23	22	20	24	26	30	28	28	4
3	17	17	2	3	22	23	19	18	16	21	22	26	25	25	3
2	13	13	0	0	18	19	15	14	11	17	18	23	21	21	2
1	9	9	0	0	13	15	10	10	7	13	14	20	18	18	1
0	5	5	0	0	9	11		6							0

Note. See page 16 for a description of acronyms.

## APPENDIX D (continued)

Sex: Male  
Education: 13-15 years  
Age: 50-54 years  
Race: Caucasian

	Summary scores			Executive functions					Attention/Working memory							
Scaled score	WAIS-R FSIQ	WAIS FSIQ	AIR	CAT ERROR	TRAIL B	THUR FLU	FAS	ANIMALS	WAIS-R DIGIT SPAN	WAIS DIGIT SPAN	PASAT	DIGIT ERROR	SSHOR RHYM	SPCH PERC	Scaled score	
19	79		99	88	88	86	80	86	78						19	
18	75	81	94	84	84	82	77	82	75	76				79	18	
17	71	77	88	80	79	78	73	78			79				17	
16	67	73	83	76	75	74	70	73	67		75				16	
15	62	68	77	72	70	71	66	69	63	66	71	68	61	67	15	
14	58	64	72	68	66	67	62	65	59	63	67		57		14	
13	54	60	67	64	61	63	59	61	55	60	63	61		59	13	
12	50	55	61	60	57	59	55	56	51		60	58	51	55	12	
11	46	51	56	56	53	55	52	52	47	53	56	54		51	11	
10	41	47	51	52	48	52	48	48	43	50	52	51	45	47	10	
9	37	42	45	48	44	48	44	44		47	48	47	42	43	9	
8	33	38	40	44	39	44	41	39	35	44	44	44	39	39	8	
7	29	34	35	40	35	40	37	35	32		40	41	36	36	7	
6	24	29	29	36	30	36	34	31	28	37	37	37	33	32	6	
5	20	25	24	32	26	33	30	27	24	34	33	34	29	28	5	
4	16	21	19	28	21	29	26	22	20		29	30	26	24	4	
3	12	16	13	23	17	25	23	18	16	28	25	27	23	20	3	
2	7	12	8	19	12	21	19	14	12		21	23	20	16	2	
1	3	8	2	15	8	18	16	9		21	17	20	17	12	1	
0		3	0	11				5		18	14	16	14		0	

Scaled score	Speed of information processing				Spatial skills				Verbal/Academic skills								Scaled score
	WAIS-R DIGIT SYMB	WAIS DIGIT SYMB	TRAIL A	DIGIT TIME	WAIS-R BLOCK DESGN	WAIS BLOCK DESGN	TPT TIME	SPAT REL	WAIS-R VOCAB	WAIS VOCAB	APHAS SCRIN	BSTN NAME	BDAE COMP	PIAT RECOG	PIAT COMP	PIAT SPELL	
19	91		90		85		87		82								19
18	87	94	86	84			83		78								18
17	83	90	81	80	77		79		74	80				76	77		17
16	79	85	77	76	73	75	75		69	75		69		72	73	75	16
15	75	81	73	72	69	71	71		65	71				68	69		15
14	71	77	68	68	65	66	67		61	66		61		64	66	67	14
13	67	72	64	64	61	62	63		57	62	64	57		61	62	63	13
12	63	68	59	60	57	58	58		53	57			58	57	58	59	12
11	59	64	55	56	53	54	54	56	49	53	56	50		53	55	55	11
10	55	59	50	51	50	50	50		44	48	51	46		50	51	51	10
9	51	55	46	47	46	46	46	45	40	44	47	42	44	46	47	47	9
8	47	51	41	43	42	42	42		36	39	43	38		42	44	43	8
7	43	46	37	39	38	38	38	33	32	34	39	34	34	39	40	39	7
6	39	42	33	35	34	34	34		28	30	35	30		35	36	35	6
5	35	38	28	31	30	29	30	22	24	25	30	26	25	31	33	31	5
4	31	33	24	27	26	25	26		20	21	26	22		28	29	27	4
3	27	29	19		22	21	22	10	15	16	22	18	15	24	25		3
2	23	25	15		18	17	18	4	11	12	18	14	10	20			2
1	19	20	10		14	13	13	0	7	7	13	10	5				1
0		16				9	9	0		3	9				14	11	0

(continued)

## APPENDIX D (continued)

Sex: Male  
Education: 13-15 years  
Age: 50-54 years  
Race: Caucasian

Scaled score	Verbal episodic memory									Visual episodic memory						Scaled score
	STORY-T1	STORY LEARN	STORY RECALL	STORY LOSS	CVLT-1	CVLT-5	CVLT-TOT	CVLT-SDFR	CVLT-LDFR	TPT MEM	TPT LOC	FIGUR-T1	FIGUR LEARN	FIGUR RECALL	FIGUR LOSS	
19	89		86		90		84				86	89	88	84		19
18	85	90	82				80				82	84	84	80		18
17	81	85	77		81		76			76		80		77		17
16	77	81	73			71	72	70	76			76	76	73		16
15	72	76	69		71		68	66			71					15
14	68	72	65	66	67	63	64	62	67		67	67	67	66		14
13	64	67	61		62		60	58		60		63	63	62	60	13
12	60	63	57	59	58	55	56	54	58		59	59	59		56	12
11	55	58	53	55	53	51	51	51	53	52	55	55	55	54	53	11
10	51	53	49	52	48	47	47	47	49		51	50	51	51	49	10
9	47	49	45	49	44	43	43	43	44	45	47	46	47	47	46	9
8	42	44	41	45	39	39	39	39	40		44	42	43	43	42	8
7	38	40	37	42	35	35	35	36	35	37	40	38	39	39	38	7
6	34	35	33	38		31	31	32	31	33		34	35	36	35	6
5	30	31	29	35	26	27	27	28	26	29	32	29	31	32	31	5
4	25	26	25	31		23	23	24	22	25		25	27	28	28	4
3	21	22	21	28	16	19	18		17	21		21	23	24	24	3
2	17	17	17	24	12	15	14	17	13	17		17	19	21	21	2
1	13		13	21	7	12	10	13	8	13				17		1
0				17		8	6	9								0

Scaled score	Lateralized sensorimotor/Psychomotor comparisons															Scaled score
	TAP DH	TAP NDH	GRIP DH	GRIP NDH	PEG DH	PEG NDH	TPT DH	TPT NDH	TPT BH	SP R	SP L	SP TOT	TFR R	TFR L		
19	85	84	85	85	92	89	86	88	88				81	81	19	
18	81	80	80	80	88	85	82	83	83				77	78	18	
17	77	76	75	75	84	81	78	79	79				74	74	17	
16	73	72	70	70	79	77	74	75	75				70	71	16	
15	68	68	64	65	75	73	70	71	70			67	67	67	15	
14	64	64	59	60	71	69	65	66	66	63			63	64	14	
13	60	60	54	55	67	65	61	62	62		63	60	60	60	13	
12	56	55	49	50	62	61	57	58	57	56			56	57	12	
11	52	51	44	45	58	57	53	54	53		55	54	53	53	11	
10	48	47	39	40	54	53	49	50	48	48	51	50	49	50	10	
9	43	43	34	35	50	49	45	45	44	44	47	47	46	46	9	
8	39	39	29	30	45	45	41	41	40	40	43	44	42	43	8	
7	35	35	24	25	41	41	37	37	35	37	39	40	39	39	7	
6	31	31	19	20	37	37	33	33	31	33	35	37	35	36	6	
5	27	27	13	15	33	33	28	29	26	29	31	34	32	32	5	
4	22	23	8	10	28	29	24	24	22	25	27	31	28	28	4	
3	18	19	3	5	24	25	20	20	18	21	23	27	25	25	3	
2	14	15	0	0	20	21	16	16	13	18	19	24	21	21	2	
1	10	11	0	0	16	17	12	12	9	14	15	21	18	18	1	
0	6	7	0	0	11	13		7							0	

Note. See page 16 for a description of acronyms.

## APPENDIX D (continued)

Sex: Male  
Education: 13-15 years  
Age: 55-59 years  
Race: Caucasian

Summary scores				Executive functions					Attention/Working memory						Scaled score
Scaled score	WAIS-R FSIQ	WAIS FSIQ	AIR	CAT ERROR	TRAIL B	THUR FLU	FAS	ANIMALS	WAIS-R DIGIT SPAN	WAIS DIGIT SPAN	PASAT	DIGIT ERROR	SSHOR RHYM	SPCH PERC	
19	78		100	89	90	87	81	88	79						19
18	74	80	97	85	86	83	77	83	75	77				80	18
17	69	76	91	81	81	79	74	79			80				17
16	65	72	86	77	77	75	70	75	67		76				16
15	61	67	81	73	72	71	67	71	63	67	72	69	61	68	15
14	57	63	75	69	68	68	63	66	60	64	68		58		14
13	52	59	70	65	63	64	59	62	56	60	64	62		60	13
12	48	54	64	61	59	60	56	58	52		61	59	52	57	12
11	44	50	59	57	54	56	52	54	48	54	57	55		53	11
10	40	46	54	53	50	52	49	49	44	51	53	52	46	49	10
9	35	41	48	49	46	49	45	45		48	49	48	42	45	9
8	31	37	43	45	41	45	41	41	36	44	45	45	39	41	8
7	27	33	38	41	37	41	38	36	32		41	41	36	37	7
6	23	28	32	37	32	37	34	32	28	38	38	38	33	33	6
5	18	24	27	33	28	34	31	28	24	35	34	34	30	29	5
4	14	20	22	29	23	30	27	24	20		30	31	27	25	4
3	10	15	16	25	19	26	23	19	17	28	26	28	24	21	3
2	6	11	11	21	14	22	20	15	13		22	24	21	17	2
1	2	7	5	17	10	18	16	11		22	18	21	18	13	1
0		2	0	13				7		18	14	17	14		0

Scaled score	Speed of information processing				Spatial skills				Verbal/Academic skills								Scaled score
	WAIS-R DIGIT SYMB	WAIS DIGIT SYMB	TRAIL A	DIGIT TIME	WAIS-R BLOCK DESGN	WAIS BLOCK DESGN	TPT TIME	SPAT REL	WAIS-R VOCAB	WAIS VOCAB	APHAS SCRIN	BSTN NAME	BDAE COMP	PIAT RECOG	PIAT COMP	PIAT SPELL	
19	94		92		88		89		81								19
18	90	93	88	85			85		76								18
17	86	89	83	81	80		81		72	80				75	77		17
16	82	85	79	77	76	76	77		68	75		71		71	73	75	16
15	78	80	74	73	72	72	73		64	71				68	70		15
14	74	76	70	69	68	68	69		60	66		63		64	66	67	14
13	70	72	65	65	64	64	65		56	62	64	59		60	62	63	13
12	66	67	61	61	60	59	61		51	57			58	57	59	59	12
11	62	63	56	57	56	55	57	56	47	53	56	51		53	55	55	11
10	58	59	52	53	52	51	53		43	48	52	47		49	51	51	10
9	54	54	48	49	48	47	49	45	39	44	47	43	44	46	48	47	9
8	50	50	43	45	45	43	44		35	39	43	39		42	44	43	8
7	46	46	39	41	41	39	40	33	31	34	39	35	34	38	40	39	7
6	42	41	34	37	37	35	36		27	30	35	31		35	37	35	6
5	38	37	30	33	33	31	32	22	22	25	31	27	25	31	33	31	5
4	34	33	25	29	29	27	28		18	21	26	23		27	29	27	4
3	30	28	21		25	22	24	10	14	16	22	19	15	24	26		3
2	26	24	16		21	18	20	5	10	12	18	16	10	20			2
1	22	20	12		17	14	16	0	6	7	14	12	6				1
0		15				10	12	0		3	9				15	11	0

(continued)

## APPENDIX D (continued)

Sex: Male  
Education: 13-15 years  
Age: 55-59 years  
Race: Caucasian

Scaled score	Verbal episodic memory									Visual episodic memory						Scaled score
	STORY-T1	STORY LEARN	STORY RECALL	STORY LOSS	CVLT-1	CVLT-5	CVLT-TOT	CVLT-SDFR	CVLT-LDFR	TPT MEM	TPT LOC	FIGUR-T1	FIGUR LEARN	FIGUR RECALL	FIGUR LOSS	
19	90		86		91		86				88	90	89	85		19
18	86	91	82				82				84	86	85	81		18
17	82	86	78		82		78			78		82		77		17
16	78	82	74			73	74	71	77			77	77	73		16
15	73	77	70		73		70	67			72					15
14	69	73	66	66	68	65	66	64	68		68	69	69	66		14
13	65	68	62		64		61	60		62		65	65	62	60	13
12	60	64	58	59	59	57	57	56	59		61	60	61		56	12
11	56	59	54	56	54	53	53	52	55	54	57	56	57	55	53	11
10	52	55	50	52	50	49	49	49	50		53	52	53	51	49	10
9	48	50	45	49	45	45	45	45	46	46	49	48	49	47	46	9
8	43	45	41	45	41	41	41	41	41		45	44	45	44	42	8
7	39	41	37	42	36	37	37	37	37	38	41	39	41	40	39	7
6	35	36	33	38		33	33	33	32	34		35	37	36	35	6
5	31	32	29	35	27	29	28	30	28	30	34	31	33	32	32	5
4	26	27	25	31		25	24	26	23	26		27	29	29	28	4
3	22	23	21	28	18	21	20		19	22		22	25	25	24	3
2	18	18	17	24	13	17	16	18	15	18		18	20	21	21	2
1	13		13	21	9	13	12	15	10	14				18		1
0				17		9	8	11								0

Scaled score	Lateralized sensorimotor/Psychomotor comparisons															Scaled score
	TAP DH	TAP NDH	GRIP DH	GRIP NDH	PEG DH	PEG NDH	TPT DH	TPT NDH	TPT BH	SP R	SP L	SP TOT	TFR R	TFR L		
19	86	85	87	87	95	91	88	90	90				81	82	19	
18	82	81	82	82	90	87	84	85	86				77	78	18	
17	78	77	77	77	86	83	80	81	81				74	74	17	
16	74	73	72	72	82	79	75	77	77				70	71	16	
15	70	69	66	67	78	75	71	73	73			68	67	67	15	
14	65	65	61	62	73	71	67	68	68	64			63	64	14	
13	61	61	56	57	69	67	63	64	64		64	61	60	60	13	
12	57	57	51	52	65	63	59	60	59	57			56	57	12	
11	53	53	46	47	61	59	55	56	55		56	55	53	53	11	
10	49	49	41	42	56	55	51	52	51	49	52	52	49	50	10	
9	45	45	36	37	52	51	47	47	46	45	48	48	46	46	9	
8	40	41	31	32	48	47	42	43	42	41	44	45	42	43	8	
7	36	36	26	27	44	43	38	39	37	38	40	42	39	39	7	
6	32	32	21	22	39	39	34	35	33	34	36	38	35	36	6	
5	28	28	15	17	35	35	30	31	29	30	32	35	32	32	5	
4	24	24	10	12	31	31	26	26	24	26	28	32	28	29	4	
3	19	20	5	7	27	27	22	22	20	23	24	29	25	25	3	
2	15	16	0	2	22	23	18	18	16	19	20	25	21	22	2	
1	11	12	0	0	18	19	14	14	11	15	16	22	18	18	1	
0	7	8	0	0	14	15		9							0	

Note. See page 16 for a description of acronyms.

## APPENDIX D (continued)

Sex: Male  
Education: 13-15 years  
Age: 60-64 years  
Race: Caucasian

Summary scores				Executive functions					Attention/Working memory						Scaled score
Scaled score	WAIS-R FSIQ	WAIS FSIQ	AIR	CAT ERROR	TRAIL B	THUR FLU	FAS	ANIMALS	WAIS-R DIGIT SPAN	WAIS DIGIT SPAN	PASAT	DIGIT ERROR	SSHOR RHYM	SPCH PERC	
19	78		100	91	92	86	82	89	79						19
18	74	79	100	87	88	83	78	85	75	77				82	18
17	69	75	95	83	83	79	74	81			81				17
16	65	70	89	79	79	75	71	76	67		77				16
15	61	66	84	75	74	71	67	72	63	67	73	70	62	70	15
14	57	62	78	71	70	67	64	68	60	64	69		59		14
13	52	57	73	67	65	64	60	64	56	61	65	63		62	13
12	48	53	68	63	61	60	56	59	52		61	59	52	58	12
11	44	49	62	59	57	56	53	55	48	54	58	56		54	11
10	40	45	57	55	52	52	49	51	44	51	54	52	46	50	10
9	35	40	52	51	48	49	46	46		48	50	49	43	46	9
8	31	36	46	47	43	45	42	42	36	45	46	45	40	43	8
7	27	32	41	43	39	41	38	38	32		42	42	37	39	7
6	23	27	36	39	34	37	35	34	28	38	38	39	34	35	6
5	18	23	30	35	30	33	31	29	24	35	35	35	31	31	5
4	14	19	25	31	25	30	28	25	20		31	32	27	27	4
3	10	14	20	27	21	26	24	21	17	29	27	28	24	23	3
2	6	10	14	23	16	22	20	17	13		23	25	21	19	2
1	2	6	9	19	12	18	17	12		22	19	21	18	15	1
0		1	3	15				8		19	15	18	15		0

Speed of information processing					Spatial skills				Verbal/Academic skills								Scaled score
Scaled score	WAIS-R DIGIT SYMB	WAIS DIGIT SYMB	TRAIL A	DIGIT TIME	WAIS-R BLOCK DESGN	WAIS BLOCK DESGN	TPT TIME	SPAT REL	WAIS-R VOCAB	WAIS VOCAB	APHAS SCRIN	BSTN NAME	BDAE COMP	PIAT RECOG	PIAT COMP	PIAT SPELL	
19	94		94		88		92		81								19
18	90	96	89	87			88		76								18
17	86	91	85	83	80		84		72	80				74	77		17
16	82	87	80	79	76	77	80		68	75		72		71	74	74	16
15	78	83	76	75	72	73	76		64	71				67	70		15
14	74	78	71	71	68	69	72		60	66		65		63	66	67	14
13	70	74	67	67	64	65	68		56	62	64	61		60	63	63	13
12	66	70	63	63	60	61	64		51	57			58	56	59	59	12
11	62	65	58	59	56	57	59	57	47	53	56	53		52	55	55	11
10	58	61	54	55	52	52	55		43	48	52	49		49	52	51	10
9	54	57	49	51	48	48	51	45	39	44	48	45	44	45	48	47	9
8	50	52	45	47	45	44	47		35	39	43	41		41	44	43	8
7	46	48	40	43	41	40	43	34	31	34	39	37	34	38	41	39	7
6	42	44	36	39	37	36	39		27	30	35	33		34	37	35	6
5	38	39	31	35	33	32	35	22	22	25	31	29	25	30	33	31	5
4	34	35	27	31	29	28	31		18	21	27	25		27	30	27	4
3	30	30	23		25	24	27	11	14	16	22	21	15	23	26		3
2	26	26	18		21	20	23	5	10	12	18	17	10	19			2
1	22	22	14		17	15	19	0	6	7	14	13	6				1
0		17				11	14	0		3	10				15	11	0

(continued)

## APPENDIX D (continued)

Sex: Male  
Education: 13-15 years  
Age: 60-64 years  
Race: Caucasian

Scaled score	Verbal episodic memory									Visual episodic memory						Scaled score
	STORY-T1	STORY LEARN	STORY RECALL	STORY LOSS	CVLT-1	CVLT-5	CVLT-TOT	CVLT-SDFR	CVLT-LDFR	TPT MEM	TPT LOC	FIGUR-T1	FIGUR LEARN	FIGUR RECALL	FIGUR LOSS	
19	91		86		93		88				89	92	91	85		19
18	87	92	82				84				86	87	87	81		18
17	83	87	78		83		80			80		83		78		17
16	79	83	74			75	76	73	79			79	79	74		16
15	74	78	70		74		72	69			74					15
14	70	74	66	66	70	67	68	66	70		70	71	71	67		14
13	66	69	62		65		64	62		64		66	67	63	60	13
12	61	65	58	59	61	59	59	58	61		62	62	63		56	12
11	57	60	54	56	56	55	55	54	57	56	58	58	58	55	53	11
10	53	56	50	52	51	51	51	50	52		55	54	54	52	49	10
9	49	51	46	49	47	47	47	47	48	48	51	49	50	48	46	9
8	44	47	42	45	42	43	43	43	43		47	45	46	44	42	8
7	40	42	38	42	38	39	39	39	39	40	43	41	42	40	39	7
6	36	38	34	38		35	35	35	34	36		37	38	37	35	6
5	31	33	30	35	28	31	31	32	30	32	35	32	34	33	32	5
4	27	28	26	31		27	26	28	25	28		28	30	29	28	4
3	23	24	22	28	19	23	22		21	24		24	26	25	25	3
2	19	19	18	25	15	19	18	20	16	20		20	22	22	21	2
1	14		14	21	10	15	14	16	12	16				18		1
0				18		11	10	13								0

Scaled score	Lateralized sensorimotor/Psychomotor comparisons															Scaled score
	TAP DH	TAP NDH	GRIP DH	GRIP NDH	PEG DH	PEG NDH	TPT DH	TPT NDH	TPT BH	SP R	SP L	SP TOT	TFR R	TFR L		
19	88	87	89	89	97	93	90	92	92				81	82	19	
18	83	83	84	84	93	89	86	88	88				77	78	18	
17	79	79	79	79	89	85	82	83	84				74	75	17	
16	75	74	74	74	85	81	78	79	79				70	71	16	
15	71	70	69	69	80	77	73	75	75			69	67	68	15	
14	67	66	63	64	76	73	69	71	71	65			63	64	14	
13	63	62	58	59	72	69	65	66	66		65	63	60	60	13	
12	58	58	53	54	68	65	61	62	62	58			56	57	12	
11	54	54	48	49	63	61	57	58	57		57	56	53	53	11	
10	50	50	43	44	59	57	53	54	53	50	53	53	49	50	10	
9	46	46	38	39	55	53	49	50	49	47	49	50	46	46	9	
8	42	42	33	34	51	49	45	45	44	43	45	46	42	43	8	
7	38	38	28	29	46	45	40	41	40	39	41	43	39	39	7	
6	33	34	23	24	42	41	36	37	35	35	37	40	35	36	6	
5	29	30	18	19	38	37	32	33	31	31	33	37	32	32	5	
4	25	26	12	14	34	33	28	29	27	28	29	33	28	29	4	
3	21	21	7	9	29	29	24	24	22	24	25	30	25	25	3	
2	17	17	2	4	25	25	20	20	18	20	21	27	21	22	2	
1	12	13	0	0	21	21	16	16	14	16	17	23	18	18	1	
0	8	9	0	0	16	17		12							0	

Note. See page 16 for a description of acronyms.



## APPENDIX D (continued)

Sex: Male  
Education: 13-15 years  
Age: 65-69 years  
Race: Caucasian

Summary scores				Executive functions					Attention/Working memory						Scaled score
Scaled score	WAIS-R FSIQ	WAIS FSIQ	AIR	CAT ERROR	TRAIL B	THUR FLU	FAS	ANIMALS	WAIS-R DIGIT SPAN	WAIS DIGIT SPAN	PASAT	DIGIT ERROR	SSHOR RHYM	SPCH PERC	
19	76		100	93	94	87	82	91	79						19
18	72	78	100	89	90	84	79	86	75	78				84	18
17	68	74	98	85	86	80	75	82			81				17
16	63	69	93	81	81	76	71	78	67		78				16
15	59	65	87	77	77	72	68	73	63	68	74	70	62	72	15
14	55	61	82	73	72	68	64	69	60	65	70		59		14
13	51	56	77	69	68	65	61	65	56	61	66	63		64	13
12	46	52	71	65	63	61	57	61	52		62	60	53	60	12
11	42	48	66	61	59	57	53	56	48	55	58	57		56	11
10	38	43	61	57	54	53	50	52	44	52	55	53	47	52	10
9	34	39	55	53	50	49	46	48		49	51	50	44	48	9
8	30	35	50	49	45	46	43	44	36	45	47	46	41	44	8
7	25	30	45	45	41	42	39	39	32		43	43	37	41	7
6	21	26	39	41	37	38	35	35	28	39	39	39	34	37	6
5	17	22	34	37	32	34	32	31	24	36	35	36	31	33	5
4	13	17	28	33	28	30	28	26	20		32	32	28	29	4
3	8	13	23	29	23	27	25	22	17	29	28	29	25	25	3
2	4	9	18	25	19	23	21	18	13		24	26	22	21	2
1	0	5	12	21	14	19	18	14		23	20	22	19	17	1
0		0	7	17				9		19	16	19	16		0

Scaled score	Speed of information processing				Spatial skills				Verbal/Academic skills								Scaled score
	WAIS-R DIGIT SYMB	WAIS DIGIT SYMB	TRAIL A	DIGIT TIME	WAIS-R BLOCK DESGN	WAIS BLOCK DESGN	TPT TIME	SPAT REL	WAIS-R VOCAB	WAIS VOCAB	APHAS SCRIN	BSTN NAME	BDAE COMP	PIAT RECOG	PIAT COMP	PIAT SPELL	
19	97		95		90		95		79								19
18	93	98	91	90			91		75								18
17	89	94	86	85	82		87		71	80				74	78		17
16	85	89	82	81	78	78	83		67	75		74		70	74	74	16
15	81	85	78	77	74	74	79		63	71				66	70		15
14	77	81	73	73	70	70	75		58	66		67		63	67	66	14
13	73	76	69	69	66	66	71		54	62	65	63		59	63	62	13
12	69	72	64	65	62	62	67		50	57			58	55	59	58	12
11	65	68	60	61	58	58	63	57	46	53	56	55		52	56	54	11
10	61	63	55	57	54	54	59		42	48	52	51		48	52	50	10
9	57	59	51	53	50	50	54	46	38	44	48	47	44	44	48	47	9
8	53	55	46	49	46	45	50		34	39	44	43		41	45	43	8
7	49	50	42	45	42	41	46	34	29	34	39	39	34	37	41	39	7
6	45	46	38	41	38	37	42		25	30	35	35		33	37	35	6
5	41	41	33	37	34	33	38	23	21	25	31	31	25	30	34	31	5
4	37	37	29	33	31	29	34		17	21	27	27		26	30	27	4
3	33	33	24		27	25	30	11	13	16	23	23	15	22	26		3
2	29	28	20		23	21	26	5	9	12	18	19	10	19			2
1	25	24	15		19	17	22	0	4	7	14	15	6				1
0		20				13	18	0		3	10				15	11	0

(continued)

## APPENDIX D (continued)

Sex: Male  
Education: 13-15 years  
Age: 65-69 years  
Race: Caucasian

Scaled score	Verbal episodic memory									Visual episodic memory						Scaled score
	STORY-T1	STORY LEARN	STORY RECALL	STORY LOSS	CVLT-1	CVLT-5	CVLT-TOT	CVLT-SDFR	CVLT-LDFR	TPT MEM	TPT LOC	FIGUR-T1	FIGUR LEARN	FIGUR RECALL	FIGUR LOSS	
19	92		87		94		91				91	93	92	86		19
18	88	93	83				87				87	89	88	82		18
17	84	88	79		85		83			82		85		78		17
16	79	84	75			77	78	75	81			81	80	74		16
15	75	79	71		76		74	72			76					15
14	71	75	66	66	72	69	70	68	72		72	72	72	67		14
13	67	70	62		67		66	64		66		68	68	63	60	13
12	62	66	58	59	62	61	62	60	63		64	64	64		56	12
11	58	61	54	56	58	57	58	57	59	58	60	59	60	56	53	11
10	54	57	50	52	53	53	54	53	54		56	55	56	52	49	10
9	50	52	46	49	49	49	50	49	50	50	52	51	52	48	46	9
8	45	48	42	45	44	45	45	45	45		48	47	48	45	42	8
7	41	43	38	42	39	41	41	41	41	42	45	42	44	41	39	7
6	37	39	34	39		37	37	38	36	38		38	40	37	35	6
5	32	34	30	35	30	33	33	34	32	34	37	34	36	33	32	5
4	28	30	26	32		29	29	30	28	30		30	32	30	28	4
3	24	25	22	28	21	25	25		23	26		25	28	26	25	3
2	20	20	18	25	17	21	21	23	19	22		21	24	22	21	2
1	15		14	21	12	17	17	19	14	18				19		1
0			18			14	12	15								0

Scaled score	Lateralized sensorimotor/Psychomotor comparisons															Scaled score
	TAP DH	TAP NDH	GRIP DH	GRIP NDH	PEG DH	PEG NDH	TPT DH	TPT NDH	TPT BH	SP R	SP L	SP TOT	TFR R	TFR L		
19	89	88	91	91	100	96	92	94	95				81	82	19	
18	85	84	86	86	96	92	88	90	91				77	78	18	
17	81	80	81	81	92	88	84	86	86				74	75	17	
16	77	76	76	76	87	84	80	82	82				70	71	16	
15	73	72	71	71	83	80	76	77	78			71	67	68	15	
14	68	68	66	66	79	76	72	73	73	67			63	64	14	
13	64	63	61	61	75	72	68	69	69		66	65	60	61	13	
12	60	59	56	57	70	68	63	65	64	59			56	57	12	
11	56	55	50	52	66	64	59	60	60		58	58	53	54	11	
10	52	51	45	47	62	60	55	56	56	52	54	55	49	50	10	
9	47	47	40	42	58	56	51	52	51	48	50	51	46	46	9	
8	43	43	35	37	53	52	47	48	47	44	46	48	42	43	8	
7	39	39	30	32	49	48	43	44	42	41	42	45	39	39	7	
6	35	35	25	27	45	44	39	39	38	37	38	42	35	36	6	
5	31	31	20	22	41	40	35	35	34	33	34	38	32	32	5	
4	27	27	15	17	36	36	30	31	29	29	30	35	28	29	4	
3	22	23	10	12	32	32	26	27	25	25	26	32	25	25	3	
2	18	19	5	7	28	28	22	22	21	22	22	28	21	22	2	
1	14	15	0	2	24	24	18	18	16	18	18	25	18	18	1	
0	10	10	0	0	19	20		14							0	

Note. See page 16 for a description of acronyms.

## APPENDIX D (continued)

Sex: Male  
Education: 13-15 years  
Age: 70-74 years  
Race: Caucasian

Summary scores				Executive functions					Attention/Working memory						Scaled score
Scaled score	WAIS-R FSIQ	WAIS FSIQ	AIR	CAT ERROR	TRAIL B	THUR FLU	FAS	ANIMALS	WAIS-R DIGIT SPAN	WAIS DIGIT SPAN	PASAT	DIGIT ERROR	SSHOR RHYM	SPCH PERC	
19	74		100	95	97	88	83	92	79						19
18	70	77	100	91	92	84	79	88	75	78				86	18
17	66	73	100	87	88	81	76	83			82				17
16	62	68	97	83	84	77	72	79	67		79				16
15	58	64	91	79	79	73	68	75	63	68	75	71	63	74	15
14	53	60	86	75	75	69	65	71	60	65	71		60		14
13	49	55	81	71	70	65	61	66	56	62	67	64		66	13
12	45	51	75	66	66	62	58	62	52		63	61	54	62	12
11	41	47	70	62	61	58	54	58	48	55	59	57		59	11
10	36	42	64	58	57	54	50	54	44	52	56	54	47	55	10
9	32	38	59	54	52	50	47	49		49	52	50	44	51	9
8	28	34	54	50	48	46	43	45	36	46	48	47	41	47	8
7	24	29	48	46	43	43	40	41	32		44	43	38	43	7
6	19	25	43	42	39	39	36	36	28	39	40	40	35	39	6
5	15	21	38	38	35	35	33	32	24	36	36	37	32	35	5
4	11	16	32	34	30	31	29	28	20		33	33	29	31	4
3	7	12	27	30	26	27	25	24	17	30	29	30	26	27	3
2	3	8	22	26	21	24	22	19	13		25	26	22	23	2
1	0	3	16	22	17	20	18	15		23	21	23	19	19	1
0		0	11	18				11		20	17	19	16		0

Speed of information processing					Spatial skills				Verbal/Academic skills								Scaled score
Scaled score	WAIS-R DIGIT SYMB	WAIS DIGIT SYMB	TRAIL A	DIGIT TIME	WAIS-R BLOCK DESGN	WAIS BLOCK DESGN	TPT TIME	SPAT REL	WAIS-R VOCAB	WAIS VOCAB	APHAS SCRIN	BSTN NAME	BDAE COMP	PIAT RECOG	PIAT COMP	PIAT SPELL	
19	100		97		92		99		78								19
18	96	100	93	92			95		74								18
17	92	96	88	88	84		91		70	80				73	78		17
16	88	92	84	84	80	79	87		65	75		77		69	74	74	16
15	84	87	79	80	76	75	83		61	71				66	71		15
14	80	83	75	76	72	71	79		57	66		69		62	67	66	14
13	76	79	70	72	68	67	75		53	62	65	65		58	63	62	13
12	72	74	66	68	64	63	70		49	57			58	55	60	58	12
11	68	70	61	64	60	59	66	58	45	53	56	57		51	56	54	11
10	64	66	57	60	56	55	62		41	48	52	53		47	52	50	10
9	60	61	53	56	52	51	58	46	36	44	48	49	44	44	49	46	9
8	56	57	48	51	48	47	54		32	39	44	45		40	45	42	8
7	52	52	44	47	44	43	50	35	28	34	40	41	34	36	41	38	7
6	48	48	39	43	40	38	46		24	30	35	37		33	38	34	6
5	44	44	35	39	36	34	42	23	20	25	31	33	25	29	34	31	5
4	41	39	30	35	32	30	38		16	21	27	29		25	30	27	4
3	37	35	26		28	26	34	12	11	16	23	25	15	22	27		3
2	33	31	21		24	22	30	6	7	12	19	22	10	18			2
1	29	26	17		20	18	25	0	3	7	14	18	6				1
0		22				14	21	0		3	10				16	11	0

(continued)

## APPENDIX D (continued)

Sex: Male  
Education: 13-15 years  
Age: 70-74 years  
Race: Caucasian

Scaled score	Verbal episodic memory									Visual episodic memory						Scaled score
	STORY-T1	STORY LEARN	STORY RECALL	STORY LOSS	CVLT-1	CVLT-5	CVLT-TOT	CVLT-SDFR	CVLT-LDFR	TPT MEM	TPT LOC	FIGUR-T1	FIGUR LEARN	FIGUR RECALL	FIGUR LOSS	
19	93		87		97		94				93	95	94	86		19
18	89	94	83				90				89	91	90	82		18
17	85	89	79		87		85			85		86		79		17
16	80	85	75			80	81	78	84			82	82	75		16
15	76	80	71		78		77	74			77					15
14	72	76	67	66	74	72	73	71	75		73	74	74	68		14
13	68	71	63		69		69	67		69		69	70	64	60	13
12	63	67	59	60	65	64	65	63	66		66	65	66		57	12
11	59	62	55	56	60	60	61	59	61	61	62	61	62	56	53	11
10	55	58	51	53	55	56	57	55	57		58	57	58	53	49	10
9	50	53	47	49	51	52	52	52	52	53	54	52	54	49	46	9
8	46	49	43	46	46	48	48	48	48		50	48	50	45	42	8
7	42	44	39	42	42	44	44	44	44	45	46	44	46	41	39	7
6	38	40	35	39		40	40	40	39	41		40	41	38	35	6
5	33	35	30	35	32	36	36	37	35	37	38	35	37	34	32	5
4	29	31	26	32		32	32	33	30	33		31	33	30	28	4
3	25	26	22	28	23	28	28		26	29		27	29	26	25	3
2	21	22	18	25	19	24	24	25	21	25		23	25	23	21	2
1	16		14	21	14	20	19	21	17	21				19		1
0			18			16	15	18								0

Scaled score	Lateralized sensorimotor/Psychomotor comparisons														Scaled score
	TAP DH	TAP NDH	GRIP DH	GRIP NDH	PEG DH	PEG NDH	TPT DH	TPT NDH	TPT BH	SP R	SP L	SP TOT	TFR R	TFR L	
19	91	89	94	94	100	99	95	97	98				81	82	19
18	87	85	88	89	99	95	91	93	94				78	78	18
17	83	81	83	84	95	91	87	88	89				74	75	17
16	79	77	78	79	91	87	83	84	85				70	71	16
15	74	73	73	74	86	83	79	80	80			73	67	68	15
14	70	69	68	69	82	79	74	76	76	69			63	64	14
13	66	65	63	64	78	75	70	71	72		67	67	60	61	13
12	62	61	58	59	74	71	66	67	67	61			56	57	12
11	58	56	53	54	69	67	62	63	63		59	60	53	54	11
10	53	52	48	49	65	63	58	59	58	54	55	57	49	50	10
9	49	48	43	44	61	59	54	55	54	50	51	53	46	47	9
8	45	44	37	39	57	55	50	50	50	46	47	50	42	43	8
7	41	40	32	34	52	51	46	46	45	42	43	47	39	40	7
6	37	36	27	29	48	47	42	42	41	38	39	44	35	36	6
5	33	32	22	24	44	43	37	38	37	35	35	40	32	32	5
4	28	28	17	19	40	39	33	33	32	31	31	37	28	29	4
3	24	24	12	14	35	35	29	29	28	27	27	34	25	25	3
2	20	20	7	9	31	31	25	25	23	23	23	30	21	22	2
1	16	16	2	4	27	27	21	21	19	20	19	27	18	18	1
0	12	12	0	0	23	23		17							0

Note. See page 16 for a description of acronyms.

## APPENDIX D (continued)

Sex: Male  
Education: 13-15 years  
Age: 75-79 years  
Race: Caucasian

Summary scores				Executive functions					Attention/Working memory						Scaled score
Scaled score	WAIS-R FSIQ	WAIS FSIQ	AIR	CAT ERROR	TRAIL B	THUR FLU	FAS	ANIMALS	WAIS-R DIGIT SPAN	WAIS DIGIT SPAN	PASAT	DIGIT ERROR	SSHOR RHYM	SPCH PERC	
19	73		100	96	99	89	83	93	79						19
18	69	76	100	92	95	85	80	89	75	79				89	18
17	64	71	100	88	91	81	76	85			83				17
16	60	67	100	84	86	78	73	81	67		79				16
15	56	63	95	80	82	74	69	76	63	69	76	72	64	77	15
14	52	59	90	76	77	70	65	72	60	66	72		60		14
13	47	54	85	72	73	66	62	68	56	62	68	65		69	13
12	43	50	79	68	68	62	58	63	52		64	61	54	65	12
11	39	46	74	64	64	59	55	59	48	56	60	58		61	11
10	35	41	69	60	59	55	51	55	44	53	56	55	48	57	10
9	31	37	63	56	55	51	48	51		49	53	51	45	53	9
8	26	33	58	52	51	47	44	46	36	46	49	48	42	49	8
7	22	28	53	48	46	43	40	42	32		45	44	39	45	7
6	18	24	47	44	42	40	37	38	28	40	41	41	35	42	6
5	14	20	42	40	37	36	33	34	24	37	37	37	32	38	5
4	9	15	36	36	33	32	30	29	20		33	34	29	34	4
3	5	11	31	32	28	28	26	25	17	30	30	30	26	30	3
2	1	7	26	28	24	24	22	21	13		26	27	23	26	2
1	0	2	20	24	19	21	19	16		24	22	24	20	22	1
0		0	15	20				12		20	18	20	17		0

Scaled score	Speed of information processing				Spatial skills				Verbal/Academic skills								Scaled score
	WAIS-R DIGIT SYMB	WAIS DIGIT SYMB	TRAIL A	DIGIT TIME	WAIS-R BLOCK DESGN	WAIS BLOCK DESGN	TPT TIME	SPAT REL	WAIS-R VOCAB	WAIS VOCAB	APHAS SCRIN	BSTN NAME	BDAE COMP	PIAT RECOG	PIAT COMP	PIAT SPELL	
19	100		99		94		100		77								19
18	99	100	94	95			99		72								18
17	95	98	90	91	86		95		68	80				72	78		17
16	91	94	85	87	82	81	91		64	75		79		68	75	74	16
15	87	90	81	83	78	77	87		60	71				65	71		15
14	83	85	76	79	74	72	83		56	66		71		61	67	66	14
13	79	81	72	75	70	68	79		52	62	65	67		57	64	62	13
12	75	77	68	71	66	64	75		48	57			58	54	60	58	12
11	71	72	63	67	62	60	71	58	43	53	57	59		50	56	54	11
10	67	68	59	62	58	56	67		39	48	52	55		46	53	50	10
9	63	63	54	58	54	52	62	46	35	44	48	51	44	43	49	46	9
8	60	59	50	54	50	48	58		31	39	44	48		39	45	42	8
7	56	55	45	50	46	44	54	35	27	34	40	44	35	35	42	38	7
6	52	50	41	46	42	40	50		23	30	36	40		32	38	34	6
5	48	46	36	42	38	36	46	23	18	25	31	36	25	28	34	30	5
4	44	42	32	38	34	31	42		14	21	27	32		24	31	26	4
3	40	37	28		30	27	38	12	10	16	23	28	15	21	27		3
2	36	33	23		26	23	34	6	6	12	19	24	11	17			2
1	32	29	19		22	19	30	0	2	7	15	20	6				1
0		24				15	26	0		3	10				16	11	0

(continued)

## APPENDIX D (continued)

Sex: Male  
Education: 13-15 years  
Age: 75-79 years  
Race: Caucasian

Scaled score	Verbal episodic memory									Visual episodic memory						Scaled score
	STORY-T1	STORY LEARN	STORY RECALL	STORY LOSS	CVLT-1	CVLT-5	CVLT-TOT	CVLT-SDFR	CVLT-LDFR	TPT MEM	TPT LOC	FIGUR-T1	FIGUR LEARN	FIGUR RECALL	FIGUR LOSS	
19	94		87		99		97				94	96	96	87		19
18	90	95	83				93				90	92	92	83		18
17	86	90	79		90		89			88		88		79		17
16	81	86	75			83	85	81	87			84	84	75		16
15	77	81	71		81		81	77			79					15
14	73	77	67	67	76	75	76	74	78		75	75	75	68		14
13	69	72	63		72		72	70		72		71	71	64	60	13
12	64	68	59	60	67	67	68	66	69		67	67	67		57	12
11	60	63	55	56	62	63	64	62	64	64	63	62	63	57	53	11
10	56	59	51	53	58	59	60	58	60		59	58	59	53	50	10
9	51	54	47	49	53	55	56	55	55	56	56	54	55	49	46	9
8	47	50	43	46	49	51	52	51	51		52	50	51	46	43	8
7	43	45	39	42	44	47	48	47	46	48	48	46	47	42	39	7
6	39	41	35	39		43	43	43	42	44		41	43	38	35	6
5	34	36	31	35	35	39	39	40	37	40	40	37	39	34	32	5
4	30	32	27	32		35	35	36	33	36		33	35	31	28	4
3	26	27	23	28	26	31	31		28	32		29	31	27	25	3
2	22	23	19	25	21	27	27	28	24	28		24	27	23	21	2
1	17		15	21	17	23	23	24	20	24				20		1
0			18			19	19	21								0

Scaled score	Lateralized sensorimotor/Psychomotor comparisons															Scaled score
	TAP DH	TAP NDH	GRIP DH	GRIP NDH	PEG DH	PEG NDH	TPT DH	TPT NDH	TPT BH	SP R	SP L	SP TOT	TFR R	TFR L		
19	93	90	96	96	100	100	98	100	100				81	82	19	
18	89	86	91	91	100	98	94	95	97				78	78	18	
17	85	82	86	86	98	94	90	91	92				74	75	17	
16	81	78	81	81	94	90	86	87	88				71	71	16	
15	77	74	76	76	90	86	82	83	83			76	67	68	15	
14	72	70	70	71	86	82	78	78	79	71			64	64	14	
13	68	66	65	66	81	78	74	74	75		68	69	60	61	13	
12	64	62	60	61	77	74	69	70	70	63			57	57	12	
11	60	58	55	56	73	70	65	66	66		60	62	53	54	11	
10	56	53	50	51	68	66	61	62	61	56	56	59	50	50	10	
9	51	49	45	46	64	62	57	57	57	52	52	56	46	47	9	
8	47	45	40	42	60	58	53	53	53	48	48	53	42	43	8	
7	43	41	35	37	56	54	49	49	48	44	44	49	39	40	7	
6	39	37	30	32	51	50	45	45	44	40	40	46	35	36	6	
5	35	33	25	27	47	46	41	40	40	37	36	43	32	33	5	
4	31	29	19	22	43	42	37	36	35	33	32	39	28	29	4	
3	26	25	14	17	39	38	32	32	31	29	28	36	25	26	3	
2	22	21	9	12	34	34	28	28	26	25	24	33	21	22	2	
1	18	17	4	7	30	30	24	24	22	22	20	30	18	18	1	
0	14	13	0	2	26	26		19							0	

Note. See page 16 for a description of acronyms.

## APPENDIX D (continued)

Sex: Male  
Education: 13-15 years  
Age: 80-85 years  
Race: Caucasian

	Summary scores			Executive functions					Attention/Working memory							
Scaled score	WAIS-R FSIQ	WAIS FSIQ	AIR	CAT ERROR	TRAIL B	THUR FLU	FAS	ANIMALS	WAIS-R DIGIT SPAN	WAIS DIGIT SPAN	PASAT	DIGIT ERROR	SSHOR RHYM	SPCH PERC	Scaled score	
19	73		100	98	100	90	84	95	79						19	
18	69	75	100	94	98	86	81	91	75	79				92	18	
17	64	70	100	90	94	82	77	86			84				17	
16	60	66	100	86	89	78	73	82	67		80				16	
15	56	62	100	82	85	75	70	78	63	69	77	73	64	80	15	
14	52	57	95	78	80	71	66	74	60	66	73		61		14	
13	47	53	90	74	76	67	63	69	56	63	69	66		72	13	
12	43	49	84	70	71	63	59	65	52		65	62	55	68	12	
11	39	44	79	66	67	60	55	61	48	56	61	59		64	11	
10	35	40	74	62	63	56	52	56	44	53	57	55	49	61	10	
9	31	36	68	58	58	52	48	52		50	54	52	45	57	9	
8	26	31	63	54	54	48	45	48	36	47	50	48	42	53	8	
7	22	27	57	50	49	44	41	44	32		46	45	39	49	7	
6	18	23	52	46	45	41	37	39	28	40	42	42	36	45	6	
5	14	18	47	42	40	37	34	35	24	37	38	38	33	41	5	
4	9	14	41	38	36	33	30	31	20		34	35	30	37	4	
3	5	10	36	34	31	29	27	27	17	31	31	31	27	33	3	
2	1	5	31	30	27	25	23	22	13		27	28	24	29	2	
1	0	1	25	26	22	22	19	18		24	23	24	21	25	1	
0		0	20	22				14		21	19	21	17		0	

Speed of information processing					Spatial skills				Verbal/Academic skills								Scaled score
Scaled score	WAIS-R DIGIT SYMB	WAIS DIGIT SYMB	TRAIL A	DIGIT TIME	WAIS-R BLOCK DESGN	WAIS BLOCK DESGN	TPT TIME	SPAT REL	WAIS-R VOCAB	WAIS VOCAB	APHAS SCRIN	BSTN NAME	BDAE COMP	PIAT RECOG	PIAT COMP	PIAT SPELL	
19	100		100		94		100		77								19
18	99	100	96	99			100		72								18
17	95	100	92	95	86		100		68	80				71	79		17
16	91	96	87	91	82	82	97		64	75		82		67	75	74	16
15	87	92	83	86	78	78	92		60	71				64	71		15
14	83	88	78	82	74	74	88		56	66		74		60	68	66	14
13	79	83	74	78	70	70	84		52	62	65	70		56	64	62	13
12	75	79	69	74	66	66	80		48	57			59	53	60	58	12
11	71	75	65	70	62	62	76	58	43	53	57	62		49	57	54	11
10	67	70	60	66	58	57	72		39	48	53	58		45	53	50	10
9	63	66	56	62	54	53	68	47	35	44	48	54	44	42	49	46	9
8	60	62	52	58	50	49	64		31	39	44	50		38	46	42	8
7	56	57	47	54	46	45	60	35	27	34	40	46	35	34	42	38	7
6	52	53	43	50	42	41	56		23	30	36	42		31	38	34	6
5	48	49	38	46	38	37	52	24	18	25	32	39	25	27	35	30	5
4	44	44	34	42	34	33	47		14	21	27	35		23	31	26	4
3	40	40	29		30	29	43	12	10	16	23	31	15	20	27		3
2	36	36	25		26	25	39	6	6	12	19	27	11	16			2
1	32	31	20		22	20	35	1	2	7	15	23	6				1
0		27				16	31	0		3	11				16	10	0

(continued)

## APPENDIX D (continued)

Sex: Male  
Education: 13-15 years  
Age: 80-85 years  
Race: Caucasian

Scaled score	Verbal episodic memory									Visual episodic memory						Scaled score
	STORY-T1	STORY LEARN	STORY RECALL	STORY LOSS	CVLT-1	CVLT-5	CVLT-TOT	CVLT-SDFR	CVLT-LDFR	TPT MEM	TPT LOC	FIGUR-T1	FIGUR LEARN	FIGUR RECALL	FIGUR LOSS	
19	95		88		100		100				96	98	97	87		19
18	91	96	84				97				92	94	93	83		18
17	87	92	80		93		93			91		90		80		17
16	82	87	76			87	89	85	90			85	85	76		16
15	78	83	72		84		85	81			81					15
14	74	78	68	67	79	79	81	77	81		77	77	77	69		14
13	70	74	64		75		77	74		75		73	73	65	60	13
12	65	69	60	60	70	71	72	70	73		69	68	69		57	12
11	61	64	56	56	66	67	68	66	68	67	65	64	65	57	53	11
10	57	60	51	53	61	63	64	62	64		61	60	61	54	50	10
9	52	55	47	49	56	59	60	59	59	59	57	56	57	50	46	9
8	48	51	43	46	52	55	56	55	55		53	51	53	46	43	8
7	44	46	39	42	47	51	52	51	50	51	50	47	49	42	39	7
6	40	42	35	39		47	48	47	46	47		43	45	39	36	6
5	35	37	31	36	38	43	43	43	41	43	42	39	41	35	32	5
4	31	33	27	32		39	39	40	37	40		35	37	31	29	4
3	27	28	23	29	29	35	35		32	36		30	33	28	25	3
2	23	24	19	25	24	31	31	32	28	32		26	29	24	21	2
1	18		15	22	20	27	27	28	23	28				20		1
0			18			23	23	25								0

Scaled score	Lateralized sensorimotor/Psychomotor comparisons															Scaled score
	TAP DH	TAP NDH	GRIP DH	GRIP NDH	PEG DH	PEG NDH	TPT DH	TPT NDH	TPT BH	SP R	SP L	SP TOT	TFR R	TFR L		
19	96	91	99	99	100	100	100	100	100				81	82	19	
18	92	87	94	94	100	100	98	99	100				78	79	18	
17	88	83	88	89	100	98	94	94	96				74	75	17	
16	83	79	83	84	98	94	90	90	91				71	72	16	
15	79	75	78	79	94	90	86	86	87			78	67	68	15	
14	75	71	73	74	89	86	82	82	83	73			64	64	14	
13	71	67	68	69	85	82	78	77	78		69	72	60	61	13	
12	67	63	63	64	81	78	74	73	74	66			57	57	12	
11	62	59	58	59	77	74	69	69	69		61	65	53	54	11	
10	58	55	53	54	72	70	65	65	65	58	57	62	50	50	10	
9	54	50	48	49	68	66	61	61	61	54	53	59	46	47	9	
8	50	46	43	44	64	62	57	56	56	51	49	55	43	43	8	
7	46	42	37	39	60	58	53	52	52	47	45	52	39	40	7	
6	42	38	32	34	55	54	49	48	48	43	41	49	36	36	6	
5	37	34	27	29	51	50	45	44	43	39	37	46	32	33	5	
4	33	30	22	24	47	46	41	39	39	35	33	42	29	29	4	
3	29	26	17	19	43	42	36	35	34	32	29	39	25	26	3	
2	25	22	12	14	38	38	32	31	30	28	25	36	22	22	2	
1	21	18	7	9	34	34	28	27	26	24	21	32	18	19	1	
0	16	14	2	5	30	30		23							0	

Note. See page 16 for a description of acronyms.



## APPENDIX D (continued)

Sex: Male  
Education: 16-17 years  
Age: 20-34 years  
Race: Caucasian

Summary scores				Executive functions					Attention/Working memory						Scaled score
Scaled score	WAIS-R FSIQ	WAIS FSIQ	AIR	CAT ERROR	TRAIL B	THUR FLU	FAS	ANIMALS	WAIS-R DIGIT SPAN	WAIS DIGIT SPAN	PASAT	DIGIT ERROR	SSHOR RHYM	SPCH PERC	
19	77		85	76	78	77	75	77	75						19
18	72	81	79	72	74	74	71	73	71	71				73	18
17	68	76	74	68	70	70	68	68			72				17
16	64	72	69	64	65	66	64	64	63		68				16
15	60	68	63	60	61	62	61	60	59	61	64	63	56	61	15
14	55	63	58	56	56	58	57	56	55	58	60		53		14
13	51	59	53	52	52	55	54	51	51	55	56	57		53	13
12	47	55	47	48	47	51	50	47	47		52	53	46	49	12
11	43	50	42	44	43	47	46	43	43	49	49	50		45	11
10	39	46	37	40	38	43	43	39	39	45	45	46	40	41	10
9	34	42	31	36	34	39	39	34		42	41	43	37	37	9
8	30	37	26	32	30	36	36	30	32	39	37	39	34	33	8
7	26	33	20	28	25	32	32	26	28		33	36	31	30	7
6	22	29	15	24	21	28	28	21	24	32	29	32	28	26	6
5	17	24	10	20	16	24	25	17	20	29	26	29	25	22	5
4	13	20	4	16	12	21	21	13	16		22	26	21	18	4
3	9	16	0	12	7	17	18	9	12	23	18	22	18	14	3
2	5	11	0	8	3	13	14	4	8		14	19	15	10	2
1	0	7	0	4	0	9	10	0		16	10	15	12	6	1
0		3	0	0				0		13	6	12	9		0

Speed of information processing					Spatial skills				Verbal/Academic skills								Scaled score
Scaled score	WAIS-R DIGIT SYMB	WAIS DIGIT SYMB	TRAIL A	DIGIT TIME	WAIS-R BLOCK DESGN	WAIS BLOCK DESGN	TPT TIME	SPAT REL	WAIS-R VOCAB	WAIS VOCAB	APHAS SCR N	BSTN NAME	BDAE COMP	PIAT RECOG	PIAT COMP	PIAT SPELL	
19	80		80		79		79		78								19
18	76	76	76	79			75		74								18
17	72	71	71	75	71		71		70	74				72	71		17
16	68	67	67	71	67	66	67		66	69		67		68	67	70	16
15	64	63	63	67	63	62	63		62	65				65	64		15
14	60	58	58	63	59	58	59		58	60		59		61	60	62	14
13	56	54	54	59	55	54	55		54	56	61	55		57	56	58	13
12	52	50	49	55	51	49	51		49	51			55	54	53	54	12
11	49	45	45	51	47	45	47	53	45	47	53	47		50	49	50	11
10	45	41	40	47	43	41	43		41	42	49	43		46	45	46	10
9	41	37	36	43	39	37	39	42	37	37	44	40	41	43	42	42	9
8	37	32	31	39	35	33	35		33	33	40	36		39	38	38	8
7	33	28	27	35	31	29	30	30	29	28	36	32	31	35	34	34	7
6	29	24	23	30	27	25	26		24	24	32	28		31	31	30	6
5	25	19	18	26	23	21	22	19	20	19	28	24	22	28	27	26	5
4	21	15	14	22	19	17	18		16	15	23	20		24	23	22	4
3	17	11	9		15	12	14	7	12	10	19	16	12	20	20		3
2	13	6	5		11	8	10	2	8	6	15	12	7	17			2
1	9	2	0		7	4	6	0	4	1	11	8	2				1
0		0				0	2	0		0	7				9	6	0

(continued)

## APPENDIX D (continued)

Sex: Male  
Education: 16-17 years  
Age: 20-34 years  
Race: Caucasian

Scaled score	Verbal episodic memory									Visual episodic memory						Scaled score
	STORY-T1	STORY LEARN	STORY RECALL	STORY LOSS	CVLT-1	CVLT-5	CVLT-TOT	CVLT-SDFR	CVLT-LDFR	TPT MEM	TPT LOC	FIGUR-T1	FIGUR LEARN	FIGUR RECALL	FIGUR LOSS	
19	82		82		85		78				77	78	77	80		19
18	78	81	78				73				73	73	73	76		18
17	73	77	74		76		69			70		69		72		17
16	69	72	70			64	65	63	69			65	65	69		16
15	65	67	66		67		61	59			61					15
14	61	63	62	65	62	56	57	56	60		57	57	56	61		14
13	56	58	58		57		53	52		54		52	52	58	59	13
12	52	54	54	58	53	48	49	48	51		50	48	48		55	12
11	48	49	50	55	48	44	45	44	47	46	46	44	44	50	52	11
10	43	45	45	51	44	40	40	40	42		42	40	40	46	48	10
9	39	40	41	48	39	36	36	37	38	38	38	35	36	43	45	9
8	35	36	37	44	35	32	32	33	34		34	31	32	39	41	8
7	31	31	33	41	30	28	28	29	29	30	30	27	28	35	38	7
6	26	27	29	37		24	24	25	25	26		23	24	31	34	6
5	22	22	25	34	21	20	20	22	20	22	23	18	20	28	30	5
4	18	18	21	30		16	16	18	16	18		14	16	24	27	4
3	14	13	17	27	12	13	11		11	14		10	12	20	23	3
2	9	9	13	23	7	9	7	10	7	10		6	8	16	20	2
1	5		9	20	2	5	3	6	2	6				13		1
0				16		1	0	3								0

Scaled score	Lateralized sensorimotor/Psychomotor comparisons														Scaled score
	TAP DH	TAP NDH	GRIP DH	GRIP NDH	PEG DH	PEG NDH	TPT DH	TPT NDH	TPT BH	SP R	SP L	SP TOT	TFR R	TFR L	
19	81	79	82	81	82	79	81	79	78				79	79	19
18	77	75	77	76	77	75	77	75	74				75	76	18
17	73	70	72	71	73	71	73	70	69				72	72	17
16	69	66	66	66	69	67	68	66	65				68	69	16
15	65	62	61	61	65	63	64	62	61			62	65	65	15
14	60	58	56	56	60	59	60	58	56	59			61	61	14
13	56	54	51	51	56	55	56	53	52		57	56	58	58	13
12	52	50	46	46	52	51	52	49	48	52			54	54	12
11	48	46	41	41	48	47	48	45	43		49	49	51	51	11
10	44	42	36	36	43	43	44	41	39	44	45	46	47	47	10
9	39	38	31	32	39	39	40	37	34	40	41	43	44	44	9
8	35	34	26	27	35	35	35	32	30	36	37	39	40	40	8
7	31	30	21	22	31	31	31	28	26	33	33	36	37	37	7
6	27	26	15	17	26	27	27	24	21	29	29	33	33	33	6
5	23	22	10	12	22	23	23	20	17	25	26	29	30	30	5
4	19	17	5	7	18	19	19	15	12	21	22	26	26	26	4
3	14	13	0	2	14	15	15	11	8	18	18	23	23	23	3
2	10	9	0	0	9	11	11	7	4	14	14	20	19	19	2
1	6	5	0	0	5	7	7	3	0	10	10	16	16	16	1
0	2	1	0	0	1	3		0							0

Note. See page 16 for a description of acronyms.

## APPENDIX D (continued)

Sex: Male  
Education: 16-17 years  
Age: 35-39 years  
Race: Caucasian

Summary scores				Executive functions					Attention/Working memory						Scaled score
Scaled score	WAIS-R FSIQ	WAIS FSIQ	AIR	CAT ERROR	TRAIL B	THUR FLU	FAS	ANIMALS	WAIS-R DIGIT SPAN	WAIS DIGIT SPAN	PASAT	DIGIT ERROR	SSHOR RHYM	SPCH PERC	
19	75		88	80	81	79	76	80	75						19
18	71	75	83	76	76	75	73	76	71	72				74	18
17	67	70	78	72	72	72	69	71			73				17
16	62	66	72	68	67	68	66	67	63		70				16
15	58	62	67	64	63	64	62	63	59	62	66	65	57	62	15
14	54	57	62	60	58	60	58	58	55	59	62		54		14
13	50	53	56	56	54	56	55	54	51	56	58	58		54	13
12	45	49	51	52	50	53	51	50	47		54	55	48	50	12
11	41	44	45	48	45	49	48	46	43	50	50	51		46	11
10	37	40	40	44	41	45	44	41	39	46	47	48	41	42	10
9	33	36	35	39	36	41	40	37		43	43	44	38	38	9
8	28	31	29	35	32	37	37	33	32	40	39	41	35	34	8
7	24	27	24	31	27	34	33	29	28		35	37	32	31	7
6	20	23	19	27	23	30	30	24	24	33	31	34	29	27	6
5	16	18	13	23	18	26	26	20	20	30	27	30	26	23	5
4	12	14	8	19	14	22	22	16	16		24	27	23	19	4
3	7	10	3	15	10	18	19	12	12	24	20	24	20	15	3
2	3	5	0	11	5	15	15	7	8		16	20	16	11	2
1	0	1	0	7	1	11	12	3		17	12	17	13	7	1
0		0	0	3				0		14	8	13	10		0

Scaled score	Speed of information processing				Spatial skills				Verbal/Academic skills								Scaled score
	WAIS-R DIGIT SYMB	WAIS DIGIT SYMB	TRAIL A	DIGIT TIME	WAIS-R BLOCK DESGN	WAIS BLOCK DESGN	TPT TIME	SPAT REL	WAIS-R VOCAB	WAIS VOCAB	APHAS SCRIN	BSTN NAME	BDAE COMP	PIAT RECOG	PIAT COMP	PIAT SPELL	
19	83		84		81		81		77								19
18	79	80	79	80			77		73								18
17	75	76	75	76	73		73		69	74				72	72		17
16	71	72	70	72	69	68	69		65	69		65		68	68	69	16
15	68	67	66	68	65	64	65		61	65				64	64		15
14	64	63	61	64	61	60	61		56	60		57		61	61	62	14
13	60	59	57	60	57	56	57		52	56	62	53		57	57	58	13
12	56	54	53	56	53	52	52		48	51			55	53	53	54	12
11	52	50	48	52	49	48	48	54	44	47	53	45		50	50	50	11
10	48	46	44	48	45	44	44		40	42	49	41		46	46	46	10
9	44	41	39	44	41	40	40	43	36	37	45	38	41	42	42	42	9
8	40	37	35	40	37	35	36		31	33	41	34		38	39	38	8
7	36	33	30	36	33	31	32	31	27	28	36	30	31	35	35	34	7
6	32	28	26	32	29	27	28		23	24	32	26		31	31	30	6
5	28	24	21	28	25	23	24	20	19	19	28	22	22	27	28	26	5
4	24	20	17	23	21	19	20		15	15	24	18		24	24	22	4
3	20	15	13		17	15	16	8	11	10	20	14	12	20	20		3
2	16	11	8		13	11	12	2	7	6	15	10	7	16			2
1	12	7	4		9	7	7	0	2	1	11	6	3				1
0		2				3	3	0		0	7				9	6	0

(continued)

## APPENDIX D (continued)

Sex: Male  
Education: 16-17 years  
Age: 35-39 years  
Race: Caucasian

Scaled score	Verbal episodic memory									Visual episodic memory						Scaled score
	STORY-T1	STORY LEARN	STORY RECALL	STORY LOSS	CVLT-1	CVLT-5	CVLT-TOT	CVLT-SDFR	CVLT-LDFR	TPT MEM	TPT LOC	FIGUR-T1	FIGUR LEARN	FIGUR RECALL	FIGUR LOSS	
19	84		83		86		79				80	81	80	81		19
18	80	83	79				75				76	77	76	77		18
17	75	79	75		77		71			71		72		73		17
16	71	74	71			65	66	64	70			68	68	70		16
15	67	70	66		68		62	60			65					15
14	62	65	62	65	63	57	58	57	62		61	60	60	62		14
13	58	61	58		58		54	53		55		55	56	59	59	13
12	54	56	54	58	54	49	50	49	53		53	51	52		55	12
11	50	51	50	55	49	45	46	45	48	47	49	47	48	51	52	11
10	45	47	46	51	45	41	42	42	44		45	43	43	47	48	10
9	41	42	42	48	40	37	37	38	39	39	41	38	39	44	45	9
8	37	38	38	45	35	33	33	34	35		37	34	35	40	41	8
7	33	33	34	41	31	30	29	30	30	31	34	30	31	36	38	7
6	28	29	30	38		26	25	26	26	27		26	27	32	34	6
5	24	24	26	34	22	22	21	23	21	23	26	21	23	29	31	5
4	20	20	22	31		18	17	19	17	19		17	19	25	27	4
3	15	15	18	27	13	14	13		12	15		13	15	21	24	3
2	11	11	14	24	8	10	9	11	8	11		9	11	17	20	2
1	7		10	20	3	6	4	8	3	7				14		1
0				17		2	0	4								0

Scaled score	Lateralized sensorimotor/Psychomotor comparisons															Scaled score
	TAP DH	TAP NDH	GRIP DH	GRIP NDH	PEG DH	PEG NDH	TPT DH	TPT NDH	TPT BH	SP R	SP L	SP TOT	TFR R	TFR L		
19	82	79	81	81	85	82	82	81	81				79	79	19	
18	78	75	76	76	80	78	78	77	76				75	76	18	
17	74	71	71	71	76	74	74	73	72				72	72	17	
16	70	67	65	66	72	70	70	69	68				68	69	16	
15	65	63	60	61	68	66	66	64	63			63	65	65	15	
14	61	59	55	56	63	62	61	60	59	60			61	62	14	
13	57	55	50	51	59	58	57	56	55		59	57	58	58	13	
12	53	51	45	46	55	54	53	52	50	52			54	55	12	
11	49	47	40	41	51	50	49	47	46		51	50	51	51	11	
10	44	42	35	36	46	46	45	43	41	45	47	47	47	48	10	
9	40	38	30	31	42	42	41	39	37	41	43	43	44	44	9	
8	36	34	25	26	38	38	37	35	33	37	39	40	40	41	8	
7	32	30	20	21	34	34	33	31	28	33	35	37	37	37	7	
6	28	26	15	16	29	30	28	26	24	30	31	34	33	33	6	
5	24	22	9	11	25	26	24	22	19	26	27	30	30	30	5	
4	19	18	4	6	21	22	20	18	15	22	24	27	26	26	4	
3	15	14	0	1	17	18	16	14	11	18	20	24	23	23	3	
2	11	10	0	0	12	14	12	9	6	14	16	20	19	19	2	
1	7	6	0	0	8	10	8	5	2	11	12	17	16	16	1	
0	3	2	0	0	4	6		1							0	

Note. See page 16 for a description of acronyms.

## APPENDIX D (continued)

Sex: Male  
Education: 16-17 years  
Age: 40-44 years  
Race: Caucasian

Summary scores				Executive functions					Attention/Working memory						Scaled score
Scaled score	WAIS-R FSIQ	WAIS FSIQ	AIR	CAT ERROR	TRAIL B	THUR FLU	FAS	ANIMALS	WAIS-R DIGIT SPAN	WAIS DIGIT SPAN	PASAT	DIGIT ERROR	SSHOR RHYM	SPCH PERC	
19	75		91	81	82	80	77	81	75						19
18	71	73	85	77	78	76	73	77	71	73				74	18
17	67	69	80	73	73	72	70	73			74				17
16	62	65	74	69	69	69	66	68	63		70				16
15	58	61	69	65	64	65	63	64	59	63	67	66	57	63	15
14	54	56	64	61	60	61	59	60	55	60	63		54		14
13	50	52	58	57	55	57	55	56	51	56	59	59		55	13
12	45	48	53	53	51	53	52	51	47		55	55	48	51	12
11	41	43	48	49	47	50	48	47	43	50	51	52		47	11
10	37	39	42	45	42	46	45	43	39	47	47	48	42	43	10
9	33	35	37	41	38	42	41	39		44	44	45	39	39	9
8	28	30	32	37	33	38	37	34	32	40	40	41	36	35	8
7	24	26	26	33	29	34	34	30	28		36	38	33	31	7
6	20	22	21	29	24	31	30	26	24	34	32	35	29	27	6
5	16	17	15	25	20	27	27	21	20	31	28	31	26	23	5
4	12	13	10	21	15	23	23	17	16		24	28	23	19	4
3	7	9	5	17	11	19	19	13	12	24	21	24	20	16	3
2	3	4	0	13	6	15	16	9	8		17	21	17	12	2
1	0	0	0	9	2	12	12	4		18	13	17	14	8	1
0		0	0	5				0		14	9	14	11		0

Scaled score	Speed of information processing				Spatial skills				Verbal/Academic skills								Scaled score
	WAIS-R DIGIT SYMB	WAIS DIGIT SYMB	TRAIL A	DIGIT TIME	WAIS-R BLOCK DESGN	WAIS BLOCK DESGN	TPT TIME	SPAT REL	WAIS-R VOCAB	WAIS VOCAB	APHAS SCRIN	BSTN NAME	BDAE COMP	PIAT RECOG	PIAT COMP	PIAT SPELL	
19	83		85		81		82		77								19
18	79	83	81	81			78		73								18
17	75	78	76	77	73		74		69	74				71	72		17
16	71	74	72	73	69	69	70		65	69		64		68	68	69	16
15	68	70	67	69	65	65	66		61	65				64	65		15
14	64	65	63	65	61	61	62		56	60		56		60	61	61	14
13	60	61	59	61	57	57	58		52	56	62	52		57	57	57	13
12	56	57	54	57	53	53	54		48	51			55	53	54	53	12
11	52	52	50	53	49	49	50	54	44	47	54	45		49	50	49	11
10	48	48	45	49	45	45	45		40	42	49	41		46	46	45	10
9	44	44	41	45	41	41	41	43	36	37	45	37	41	42	43	42	9
8	40	39	36	40	37	37	37		31	33	41	33		38	39	38	8
7	36	35	32	36	33	33	33	31	27	28	37	29	31	35	35	34	7
6	32	31	27	32	29	28	29		23	24	32	25		31	32	30	6
5	28	26	23	28	25	24	25	20	19	19	28	21	22	27	28	26	5
4	24	22	19	24	21	20	21		15	15	24	17		24	24	22	4
3	20	17	14		17	16	17	8	11	10	20	13	12	20	21		3
2	16	13	10		13	12	13	3	7	6	16	9	7	16			2
1	12	9	5		9	8	9	0	2	1	11	5	3				1
0		4				4	5	0		0	7				10	6	0

(continued)

## APPENDIX D (continued)

Sex: Male  
Education: 16-17 years  
Age: 40-44 years  
Race: Caucasian

Scaled score	Verbal episodic memory									Visual episodic memory						Scaled score
	STORY-T1	STORY LEARN	STORY RECALL	STORY LOSS	CVLT-1	CVLT-5	CVLT-TOT	CVLT-SDFR	CVLT-LDFR	TPT MEM	TPT LOC	FIGUR-T1	FIGUR LEARN	FIGUR RECALL	FIGUR LOSS	
19	85		83		87		80				81	82	82	81		19
18	80	84	79				76				77	78	77	78		18
17	76	80	75		77		71			72		74		74		17
16	72	75	71			66	67	65	71			70	69	70		16
15	68	71	67		68		63	61			65					15
14	63	66	63	66	64	58	59	58	62		61	61	61	63		14
13	59	62	59		59		55	54		56		57	57	59	59	13
12	55	57	55	59	54	50	51	50	53		54	53	53		56	12
11	51	53	51	55	50	46	47	46	49	48	50	48	49	52	52	11
10	46	48	47	52	45	42	43	42	44		46	44	45	48	48	10
9	42	44	43	48	41	38	38	39	40	40	42	40	41	44	45	9
8	38	39	39	45	36	34	34	35	35		38	36	37	40	41	8
7	33	34	35	41	32	30	30	31	31	32	34	32	33	37	38	7
6	29	30	30	38		26	26	27	26	28		27	29	33	34	6
5	25	25	26	34	22	22	22	24	22	24	26	23	25	29	31	5
4	21	21	22	31		18	18	20	17	20		19	21	25	27	4
3	16	16	18	27	13	15	14		13	16		15	17	22	24	3
2	12	12	14	24	9	11	10	12	9	12		10	13	18	20	2
1	8		10	20	4	7	5	8	4	8				14		1
0				17		3	1	5								0

Scaled score	Lateralized sensorimotor/Psychomotor comparisons															Scaled score
	TAP DH	TAP NDH	GRIP DH	GRIP NDH	PEG DH	PEG NDH	TPT DH	TPT NDH	TPT BH	SP R	SP L	SP TOT	TFR R	TFR L		
19	83	80	82	82	86	84	83	83	82				79	79	19	
18	79	76	77	77	82	80	79	78	78				75	76	18	
17	74	72	71	72	78	76	75	74	74				72	72	17	
16	70	68	66	67	74	72	71	70	69				68	69	16	
15	66	64	61	62	69	68	66	66	65			64	65	65	15	
14	62	60	56	57	65	64	62	62	61	60			61	62	14	
13	58	56	51	52	61	60	58	57	56		60	57	58	58	13	
12	53	52	46	47	57	56	54	53	52	53			54	55	12	
11	49	48	41	42	52	52	50	49	47		52	51	51	51	11	
10	45	44	36	37	48	48	46	45	43	45	48	47	47	48	10	
9	41	40	31	32	44	44	42	40	39	42	44	44	44	44	9	
8	37	36	26	27	40	40	38	36	34	38	40	41	40	41	8	
7	33	31	20	22	35	36	33	32	30	34	36	38	37	37	7	
6	28	27	15	17	31	32	29	28	25	30	32	34	33	34	6	
5	24	23	10	12	27	28	25	24	21	26	28	31	30	30	5	
4	20	19	5	7	23	24	21	19	17	23	25	28	26	27	4	
3	16	15	0	2	18	20	17	15	12	19	21	24	23	23	3	
2	12	11	0	0	14	16	13	11	8	15	17	21	19	19	2	
1	7	7	0	0	10	12	9	7	4	11	13	18	16	16	1	
0	3	3	0	0	6	8		2							0	

Note. See page 16 for a description of acronyms.

## APPENDIX D (continued)

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

Summary scores				Executive functions					Attention/Working memory						Scaled score
Scaled score	WAIS-R FSIQ	WAIS FSIQ	AIR	CAT ERROR	TRAIL B	THUR FLU	FAS	ANIMALS	WAIS-R DIGIT SPAN	WAIS DIGIT SPAN	PASAT	DIGIT ERROR	SSHOR RHYM	SPCH PERC	
19	73		93	83	84	81	78	83	75						19
18	69	72	88	79	79	77	74	78	71	73				75	18
17	65	68	82	75	75	73	70	74			75				17
16	61	64	77	71	70	69	67	70	63		71				16
15	56	59	72	67	66	66	63	66	59	63	67	66	58	64	15
14	52	55	66	63	61	62	60	61	55	60	64		55		14
13	48	51	61	59	57	58	56	57	51	57	60	59		56	13
12	44	46	55	55	53	54	52	53	47		56	56	49	52	12
11	40	42	50	51	48	50	49	48	43	51	52	53		48	11
10	35	38	45	47	44	47	45	44	39	47	48	49	42	44	10
9	31	34	39	43	39	43	42	40		44	44	46	39	40	9
8	27	29	34	39	35	39	38	36	32	41	41	42	36	36	8
7	23	25	29	35	30	35	34	31	28		37	39	33	32	7
6	18	21	23	31	26	31	31	27	24	34	33	35	30	28	6
5	14	16	18	27	21	28	27	23	20	31	29	32	27	24	5
4	10	12	13	23	17	24	24	19	16		25	28	24	20	4
3	6	8	7	19	12	20	20	14	12	25	21	25	21	16	3
2	1	3	2	15	8	16	17	10	8		18	22	18	13	2
1	0	0	0	11	4	12	13	6		18	14	18	14	9	1
0		0	0	7				2		15	10	15	11		0

Scaled score	Speed of information processing				Spatial skills				Verbal/Academic skills								Scaled score
	WAIS-R DIGIT SYMB	WAIS DIGIT SYMB	TRAIL A	DIGIT TIME	WAIS-R BLOCK DESGN	WAIS BLOCK DESGN	TPT TIME	SPAT REL	WAIS-R VOCAB	WAIS VOCAB	APHAS SCRIN	BSTN NAME	BDAE COMP	PIAT RECOG	PIAT COMP	PIAT SPELL	
19	87		87		83		84		76								19
18	83	85	82	82			80		72								18
17	79	81	78	78	75		76		68	74				71	72		17
16	75	76	74	74	71	71	72		63	69		65		67	69	69	16
15	71	72	69	70	67	67	67		59	65				64	65		15
14	67	68	65	66	63	62	63		55	60		57		60	61	61	14
13	63	63	60	62	59	58	59		51	56	62	53		56	58	57	13
12	59	59	56	58	55	54	55		47	51			55	53	54	53	12
11	55	55	51	54	51	50	51	55	43	47	54	45		49	50	49	11
10	51	50	47	50	47	46	47		38	42	50	41		45	47	45	10
9	47	46	42	46	43	42	43	43	34	37	45	37	41	42	43	41	9
8	43	42	38	42	39	38	39		30	33	41	33		38	39	37	8
7	39	37	34	37	35	34	35	32	26	28	37	30	31	34	36	33	7
6	35	33	29	33	31	30	31		22	24	33	26		31	32	29	6
5	31	28	25	29	27	26	27	20	18	19	28	22	22	27	28	26	5
4	27	24	20	25	23	21	22		13	15	24	18		23	25	22	4
3	23	20	16		19	17	18	9	9	10	20	14	12	20	21		3
2	19	15	11		15	13	14	3	5	6	16	10	7	16			2
1	15	11	7		11	9	10	0	1	1	12	6	3				1
0		7				5	6	0		0	7				10	6	0

(continued)

## 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 LEARN	STORY RECALL	STORY LOSS	CVLT-1	CVLT-5	CVLT-TOT	CVLT-SDFR	CVLT-LDFR	TPT MEM	TPT LOC	FIGUR-T1	FIGUR LEARN	FIGUR RECALL	FIGUR LOSS	
19	86		83		87		81				82	84	83	82		19
18	81	85	79				77				78	80	79	78		18
17	77	81	75		78		73			73		75		74		17
16	73	76	71			67	69	66	72			71	71	71		16
15	69	72	67		69		64	62			67					15
14	64	67	63	66	65	59	60	59	63		63	63	63	63		14
13	60	63	59		60		56	55		57		58	59	60	59	13
12	56	58	55	59	55	51	52	51	54		55	54	55		56	12
11	51	54	51	55	51	47	48	47	50	49	51	50	51	52	52	11
10	47	49	47	52	46	43	44	44	45		47	46	47	48	49	10
9	43	45	43	48	42	39	40	40	41	41	44	42	43	45	45	9
8	39	40	39	45	37	35	35	36	36		40	37	39	41	41	8
7	34	36	35	41	32	31	31	32	32	33	36	33	35	37	38	7
6	30	31	31	38		28	27	28	27	29		29	31	33	34	6
5	26	26	27	34	23	24	23	25	23	25	28	25	26	30	31	5
4	22	22	23	31		20	19	21	19	21		20	22	26	27	4
3	17	17	19	27	14	16	15		14	17		16	18	22	24	3
2	13	13	15	24	10	12	11	13	10	13		12	14	18	20	2
1	9		11	21	5	8	7	10	5	9				15		1
0				17		4	2	6								0

Scaled score	Lateralized sensorimotor/Psychomotor comparisons															Scaled score
	TAP DH	TAP NDH	GRIP DH	GRIP NDH	PEG DH	PEG NDH	TPT DH	TPT NDH	TPT BH	SP R	SP L	SP TOT	TFR R	TFR L		
19	83	82	83	83	88	86	84	84	84				79	80	19	
18	79	78	78	78	84	82	80	80	80				75	76	18	
17	75	74	73	73	80	78	76	76	75				72	73	17	
16	71	70	68	68	76	74	72	72	71				68	69	16	
15	67	65	63	63	71	70	68	67	67			65	65	65	15	
14	63	61	58	58	67	66	63	63	62	61			61	62	14	
13	58	57	52	53	63	62	59	59	58		61	58	58	58	13	
12	54	53	47	48	59	58	55	55	54	54			54	55	12	
11	50	49	42	43	54	54	51	51	49		53	52	51	51	11	
10	46	45	37	38	50	50	47	46	45	46	49	48	47	48	10	
9	42	41	32	34	46	46	43	42	40	42	45	45	44	44	9	
8	37	37	27	29	42	42	39	38	36	38	41	42	40	41	8	
7	33	33	22	24	37	38	35	34	32	35	37	38	37	37	7	
6	29	29	17	19	33	34	30	29	27	31	33	35	33	34	6	
5	25	25	12	14	29	30	26	25	23	27	29	32	30	30	5	
4	21	21	7	9	25	26	22	21	18	23	25	28	26	27	4	
3	17	17	2	4	20	22	18	17	14	20	22	25	23	23	3	
2	12	12	0	0	16	18	14	13	10	16	18	22	19	20	2	
1	8	8	0	0	12	14	10	8	5	12	14	19	16	16	1	
0	4	4	0	0	8	10		4							0	

Note. See page 16 for a description of acronyms.



## APPENDIX D (continued)

Sex: Male  
Education: 16-17 years  
Age: 50-54 years  
Race: Caucasian

Summary scores				Executive functions					Attention/Working memory						Scaled score
Scaled score	WAIS-R FSIQ	WAIS FSIQ	AIR	CAT ERROR	TRAIL B	THUR FLU	FAS	ANIMALS	WAIS-R DIGIT SPAN	WAIS DIGIT SPAN	PASAT	DIGIT ERROR	SSHOR RHYM	SPCH PERC	
19	73		96	85	85	82	78	84	75						19
18	69	71	90	81	81	78	75	80	71	74				77	18
17	65	67	85	77	77	74	71	76			76				17
16	61	63	80	73	72	70	67	71	63		72				16
15	56	58	74	69	68	66	64	67	59	64	68	67	59	65	15
14	52	54	69	65	63	63	60	63	55	61	65		56		14
13	48	50	64	61	59	59	57	58	51	57	61	60		57	13
12	44	45	58	57	54	55	53	54	47		57	57	49	53	12
11	40	41	53	53	50	51	49	50	43	51	53	53		49	11
10	35	37	47	49	45	47	46	46	39	48	49	50	43	45	10
9	31	32	42	45	41	44	42	41		45	45	46	40	41	9
8	27	28	37	41	36	40	39	37	32	41	42	43	37	37	8
7	23	24	31	37	32	36	35	33	28		38	39	34	33	7
6	18	19	26	33	28	32	32	29	24	35	34	36	31	29	6
5	14	15	21	29	23	28	28	24	20	32	30	33	28	25	5
4	10	11	15	25	19	25	24	20	16		26	29	24	22	4
3	6	6	10	21	14	21	21	16	12	25	22	26	21	18	3
2	1	2	5	17	10	17	17	11	8		19	22	18	14	2
1	0	0	0	12	5	13	14	7		19	15	19	15	10	1
0		0	0	8				3		15	11	15	12		0

Scaled score	Speed of information processing				Spatial skills				Verbal/Academic skills								Scaled score
	WAIS-R DIGIT SYMB	WAIS DIGIT SYMB	TRAIL A	DIGIT TIME	WAIS-R BLOCK DESGN	WAIS BLOCK DESGN	TPT TIME	SPAT REL	WAIS-R VOCAB	WAIS VOCAB	APHAS SCRIN	BSTN NAME	BDAE COMP	PIAT RECOG	PIAT COMP	PIAT SPELL	
19	87		89		83		86		76								19
18	83	87	84	83			82		72								18
17	79	83	80	79	75		78		68	74				71	73		17
16	75	79	75	75	71	72	73		63	69		66		67	69	69	16
15	71	74	71	71	67	68	69		59	65				63	65		15
14	67	70	66	67	63	64	65		55	60		58		60	62	61	14
13	63	66	62	63	59	60	61		51	56	62	54		56	58	57	13
12	59	61	57	59	55	55	57		47	51			55	52	54	53	12
11	55	57	53	55	51	51	53	55	43	47	54	46		49	51	49	11
10	51	53	49	51	47	47	49		38	42	50	42		45	47	45	10
9	47	48	44	47	43	43	45	44	34	37	46	39	41	41	43	41	9
8	43	44	40	43	39	39	41		30	33	41	35		38	40	37	8
7	39	39	35	39	35	35	37	32	26	28	37	31	31	34	36	33	7
6	35	35	31	35	31	31	33		22	24	33	27		30	32	29	6
5	31	31	26	31	27	27	28	21	18	19	29	23	22	27	29	25	5
4	27	26	22	27	23	23	24		13	15	24	19		23	25	21	4
3	23	22	17		19	19	20	9	9	10	20	15	12	19	21		3
2	19	18	13		15	14	16	3	5	6	16	11	8	16			2
1	15	13	9		11	10	12	0	1	1	12	7	3				1
0		9				6	8	0		0	8				10	6	0

(continued)

## APPENDIX D (continued)

Sex: Male  
Education: 16-17 years  
Age: 50-54 years  
Race: Caucasian

Scaled score	Verbal episodic memory									Visual episodic memory						Scaled score
	STORY-T1	STORY LEARN	STORY RECALL	STORY LOSS	CVLT-1	CVLT-5	CVLT-TOT	CVLT-SDFR	CVLT-LDFR	TPT MEM	TPT LOC	FIGUR-T1	FIGUR LEARN	FIGUR RECALL	FIGUR LOSS	
19	87		84		89		82				84	85	85	82		19
18	82	86	80				78				80	81	81	79		18
17	78	82	76		79		74			74		77		75		17
16	74	77	72			68	70	68	74			73	73	71		16
15	70	73	68		70		66	64			68					15
14	65	68	64	66	66	61	62	60	65		65	64	65	64		14
13	61	64	60		61		58	56		58		60	60	60	59	13
12	57	59	55	59	56	53	53	52	56		57	56	56		56	12
11	52	55	51	55	52	49	49	49	51	50	53	52	52	53	52	11
10	48	50	47	52	47	45	45	45	47		49	47	48	49	49	10
9	44	46	43	48	43	41	41	41	42	42	45	43	44	45	45	9
8	40	41	39	45	38	37	37	37	38		41	39	40	41	42	8
7	35	37	35	42	34	33	33	34	33	34	37	35	36	38	38	7
6	31	32	31	38		29	29	30	29	30		30	32	34	35	6
5	27	28	27	35	24	25	25	26	24	26	30	26	28	30	31	5
4	23	23	23	31		21	20	22	20	22		22	24	26	27	4
3	18	18	19	28	15	17	16		15	18		18	20	23	24	3
2	14	14	15	24	11	13	12	15	11	15		13	16	19	20	2
1	10		11	21	6	9	8	11	6	11				15		1
0				17		5	4	7								0

Scaled score	Lateralized sensorimotor/Psychomotor comparisons															Scaled score
	TAP DH	TAP NDH	GRIP DH	GRIP NDH	PEG DH	PEG NDH	TPT DH	TPT NDH	TPT BH	SP R	SP L	SP TOT	TFR R	TFR L		
19	84	83	85	85	91	88	85	86	86				79	80	19	
18	80	79	80	80	86	84	81	82	82				75	76	18	
17	76	75	75	75	82	80	77	78	77				72	73	17	
16	72	71	70	70	78	76	73	73	73				68	69	16	
15	68	67	64	65	74	72	69	69	69			66	65	66	15	
14	63	63	59	60	69	68	65	65	64	62			61	62	14	
13	59	59	54	55	65	64	61	61	60		62	59	58	59	13	
12	55	55	49	50	61	60	57	57	56	54			54	55	12	
11	51	51	44	45	57	56	53	52	51		54	53	51	51	11	
10	47	46	39	40	52	52	48	48	47	47	50	49	47	48	10	
9	43	42	34	35	48	48	44	44	42	43	46	46	44	44	9	
8	38	38	29	30	44	44	40	40	38	39	42	43	40	41	8	
7	34	34	24	25	40	40	36	35	34	36	38	39	37	37	7	
6	30	30	19	20	35	36	32	31	29	32	34	36	33	34	6	
5	26	26	13	15	31	32	28	27	25	28	30	33	30	30	5	
4	22	22	8	11	27	28	24	23	20	24	26	30	26	27	4	
3	17	18	3	6	23	24	20	19	16	20	22	26	23	23	3	
2	13	14	0	1	18	20	15	14	12	17	19	23	19	20	2	
1	9	10	0	0	14	16	11	10	7	13	15	20	16	16	1	
0	5	6	0	0	10	12		6							0	

Note. See page 16 for a description of acronyms.

## APPENDIX D (continued)

Sex: Male  
Education: 16-17 years  
Age: 55-59 years  
Race: Caucasian

Summary scores				Executive functions					Attention/Working memory						Scaled score
Scaled score	WAIS-R FSIQ	WAIS FSIQ	AIR	CAT ERROR	TRAIL B	THUR FLU	FAS	ANIMALS	WAIS-R DIGIT SPAN	WAIS DIGIT SPAN	PASAT	DIGIT ERROR	SSHOR RHYM	SPCH PERC	
19	72		99	87	87	82	79	85	77						19
18	68	74	93	82	83	79	75	81	74	74				78	18
17	63	70	88	78	78	75	72	77			77				17
16	59	65	83	74	74	71	68	73	66		73				16
15	55	61	77	70	70	67	64	68	62	64	69	68	59	66	15
14	51	57	72	66	65	63	61	64	58	61	65		56		14
13	46	52	67	62	61	60	57	60	54	58	62	61		58	13
12	42	48	61	58	56	56	54	56	50		58	57	50	54	12
11	38	44	56	54	52	52	50	51	46	51	54	54		50	11
10	34	39	51	50	47	48	47	47	42	48	50	51	44	47	10
9	29	35	45	46	43	44	43	43		45	46	47	41	43	9
8	25	31	40	42	38	41	39	38	34	42	42	44	37	39	8
7	21	27	34	38	34	37	36	34	31		39	40	34	35	7
6	17	22	29	34	29	33	32	30	27	35	35	37	31	31	6
5	13	18	24	30	25	29	29	26	23	32	31	33	28	27	5
4	8	14	18	26	21	26	25	21	19		27	30	25	23	4
3	4	9	13	22	16	22	21	17	15	26	23	26	22	19	3
2	0	5	8	18	12	18	18	13	11		19	23	19	15	2
1	0	1	2	14	7	14	14	9		19	16	20	16	11	1
0		0	0	10				4		16	12	16	13		0

Scaled score	Speed of information processing				Spatial skills				Verbal/Academic skills								Scaled score
	WAIS-R DIGIT SYMB	WAIS DIGIT SYMB	TRAIL A	DIGIT TIME	WAIS-R BLOCK DESGN	WAIS BLOCK DESGN	TPT TIME	SPAT REL	WAIS-R VOCAB	WAIS VOCAB	APHAS SCRIN	BSTN NAME	BDAE COMP	PIAT RECOG	PIAT COMP	PIAT SPELL	
19	93	97	90		88		88		75								19
18	90	93	86	85			84		70								18
17	86	88	81	81	80		80		66	74				70	73		17
16	82	84	77	77	76	77	76		62	69		68		66	69	69	16
15	78	80	72	73	72	73	72		58	65				63	66		15
14	74	75	68	69	68	69	68		54	60		60		59	62	61	14
13	70	71	64	65	64	65	63		50	56	63	56		55	58	57	13
12	66	67	59	61	60	60	59		45	51			55	52	55	53	12
11	62	62	55	57	56	56	55	55	41	47	54	48		48	51	49	11
10	58	58	50	52	52	52	51		37	42	50	44		44	47	45	10
9	54	54	46	48	48	48	47	44	33	37	46	40	41	41	44	41	9
8	50	49	41	44	44	44	43		29	33	42	36		37	40	37	8
7	46	45	37	40	40	40	39	32	25	28	37	32	32	33	36	33	7
6	42	41	32	36	36	36	35		20	24	33	28		30	33	29	6
5	38	36	28	32	32	32	31	21	16	19	29	24	22	26	29	25	5
4	34	32	24	28	28	28	27		12	15	25	20		22	25	21	4
3	30	28	19		24	24	23	9	8	10	20	16	12	19	22		3
2	26	23	15		20	19	19	4	4	6	16	12	8	15			2
1	22	19	10		16	15	14	0	0	1	12	9	3				1
0		15				11	10	0		0	8				11	5	0

(continued)

## APPENDIX D (continued)

Sex: Male  
Education: 16-17 years  
Age: 55-59 years  
Race: Caucasian

Scaled score	Verbal episodic memory									Visual episodic memory						Scaled score
	STORY-T1	STORY LEARN	STORY RECALL	STORY LOSS	CVLT-1	CVLT-5	CVLT-TOT	CVLT-SDFR	CVLT-LDFR	TPT MEM	TPT LOC	FIGUR-T1	FIGUR LEARN	FIGUR RECALL	FIGUR LOSS	
19	88		84		90		84				86	87	86	83		19
18	83	87	80				80				82	83	82	79		18
17	79	83	76		81		76			76		79		75		17
16	75	78	72			70	72	69	75			74	74	72		16
15	70	74	68		72		68	65			70					15
14	66	69	64	66	67	62	64	62	66		66	66	66	64		14
13	62	65	60		62		59	58		60		62	62	61	59	13
12	58	60	56	59	58	54	55	54	57		58	57	58		56	12
11	53	56	52	56	53	50	51	50	53	52	55	53	54	53	52	11
10	49	51	48	52	49	46	47	47	48		51	49	50	49	49	10
9	45	47	44	49	44	42	43	43	44	44	47	45	46	46	45	9
8	41	42	40	45	39	38	39	39	39		43	40	42	42	42	8
7	36	38	36	42	35	35	35	35	35	36	39	36	38	38	38	7
6	32	33	32	38		31	30	31	30	32		32	34	34	35	6
5	28	29	28	35	26	27	26	28	26	28	31	28	30	31	31	5
4	23	24	24	31		23	22	24	21	24		23	26	27	28	4
3	19	20	19	28	17	19	18		17	20		19	22	23	24	3
2	15	15	15	24	12	15	14	16	12	16		15	18	19	21	2
1	11		11	21	7	11	10	13	8	12				16		1
0				17		7	6	9								0

Scaled score	Lateralized sensorimotor/Psychomotor comparisons															Scaled score
	TAP DH	TAP NDH	GRIP DH	GRIP NDH	PEG DH	PEG NDH	TPT DH	TPT NDH	TPT BH	SP R	SP L	SP TOT	TFR R	TFR L		
19	86	85	87	87	93	90	87	88	88				79	80	19	
18	81	80	82	82	89	86	83	84	84				75	76	18	
17	77	76	77	77	85	82	79	80	80				72	73	17	
16	73	72	71	72	80	78	75	75	75				68	69	16	
15	69	68	66	67	76	74	71	71	71			67	65	66	15	
14	65	64	61	62	72	70	67	67	67	63			61	62	14	
13	60	60	56	57	68	66	62	63	62		63	60	58	59	13	
12	56	56	51	52	63	62	58	59	58	56			54	55	12	
11	52	52	46	47	59	58	54	54	53		55	54	51	52	11	
10	48	48	41	42	55	54	50	50	49	48	51	50	47	48	10	
9	44	44	36	37	51	50	46	46	45	44	47	47	44	45	9	
8	40	40	31	32	46	46	42	42	40	40	43	44	40	41	8	
7	35	36	26	28	42	42	38	37	36	37	39	41	37	37	7	
6	31	32	21	23	38	38	34	33	31	33	35	37	33	34	6	
5	27	27	15	18	34	34	30	29	27	29	31	34	30	30	5	
4	23	23	10	13	29	30	25	25	23	25	27	31	26	27	4	
3	19	19	5	8	25	26	21	21	18	22	23	27	23	23	3	
2	14	15	0	3	21	22	17	16	14	18	20	24	19	20	2	
1	10	11	0	0	17	18	13	12	10	14	16	21	16	16	1	
0	6	7	0	0	12	14		8							0	

Note. See page 16 for a description of acronyms.

## APPENDIX D (continued)

Sex: Male  
Education: 16-17 years  
Age: 60-64 years  
Race: Caucasian

Summary scores				Executive functions					Attention/Working memory						Scaled score
Scaled score	WAIS-R FSIQ	WAIS FSIQ	AIR	CAT ERROR	TRAIL B	THUR FLU	FAS	ANIMALS	WAIS-R DIGIT SPAN	WAIS DIGIT SPAN	PASAT	DIGIT ERROR	SSHOR RHYM	SPCH PERC	
19	72		100	89	90	83	79	87	77						19
18	68	73	98	85	86	79	76	83	74	75				80	18
17	63	69	92	81	82	76	72	78			78				17
16	59	64	87	77	77	72	69	74	66		74				16
15	55	60	82	73	73	68	65	70	62	65	70	68	60	68	15
14	51	56	76	69	68	64	62	66	58	62	66		57		14
13	46	51	71	65	64	60	58	61	54	58	63	62		60	13
12	42	47	66	61	59	57	54	57	50		59	58	50	56	12
11	38	43	60	57	55	53	51	53	46	52	55	55		52	11
10	34	38	55	53	50	49	47	48	42	49	51	51	44	48	10
9	29	34	49	49	46	45	44	44		46	47	48	41	44	9
8	25	30	44	45	41	42	40	40	34	42	43	44	38	40	8
7	21	25	39	41	37	38	36	36	31		40	41	35	36	7
6	17	21	33	37	33	34	33	31	27	36	36	37	32	32	6
5	13	17	28	33	28	30	29	27	23	33	32	34	29	29	5
4	8	12	23	29	24	26	26	23	19		28	31	26	25	4
3	4	8	17	25	19	23	22	19	15	26	24	27	22	21	3
2	0	4	12	21	15	19	18	14	11		20	24	19	17	2
1	0	0	7	17	10	15	15	10		20	16	20	16	13	1
0		0	1	13				6		16	13	17	13		0

Speed of information processing					Spatial skills				Verbal/Academic skills								Scaled score
Scaled score	WAIS-R DIGIT SYMB	WAIS DIGIT SYMB	TRAIL A	DIGIT TIME	WAIS-R BLOCK DESGN	WAIS BLOCK DESGN	TPT TIME	SPAT REL	WAIS-R VOCAB	WAIS VOCAB	APHAS SCRIN	BSTN NAME	BDAE COMP	PIAT RECOG	PIAT COMP	PIAT SPELL	
19	93		93		88		91		75								19
18	90	95	88	87			87		70								18
17	86	91	84	83	80		83		66	74				70	73		17
16	82	86	80	79	76	78	78		62	69		69		66	70	69	16
15	78	82	75	75	72	74	74		58	65				62	66		15
14	74	78	71	71	68	70	70		54	60		61		59	62	61	14
13	70	73	66	67	64	66	66		50	56	63	58		55	59	57	13
12	66	69	62	62	60	62	62		45	51			56	51	55	53	12
11	62	65	57	58	56	58	58	56	41	47	54	50		48	51	49	11
10	58	60	53	54	52	53	54		37	42	50	46		44	48	45	10
9	54	56	48	50	48	49	50	44	33	37	46	42	41	40	44	41	9
8	50	52	44	46	44	45	46		29	33	42	38		37	40	37	8
7	46	47	40	42	40	41	42	33	25	28	38	34	32	33	37	33	7
6	42	43	35	38	36	37	38		20	24	33	30		29	33	29	6
5	38	39	31	34	32	33	34	21	16	19	29	26	22	25	29	25	5
4	34	34	26	30	28	29	29		12	15	25	22		22	26	21	4
3	30	30	22		24	25	25	10	8	10	21	18	12	18	22		3
2	26	26	17		20	21	21	4	4	6	16	14	8	14			2
1	22	21	13		16	17	17	0	0	1	12	10	3				1
0		17				12	13	0		0	8				11	5	0

(continued)

## APPENDIX D (continued)

Sex: Male  
Education: 16-17 years  
Age: 60-64 years  
Race: Caucasian

Scaled score	Verbal episodic memory									Visual episodic memory						Scaled score
	STORY-T1	STORY LEARN	STORY RECALL	STORY LOSS	CVLT-1	CVLT-5	CVLT-TOT	CVLT-SDFR	CVLT-LDFR	TPT MEM	TPT LOC	FIGUR-T1	FIGUR LEARN	FIGUR RECALL	FIGUR LOSS	
19	89		85		91		86				88	89	88	83		19
18	84	88	80				82				84	84	84	80		18
17	80	84	76		82		78			78		80		76		17
16	76	79	72			72	74	71	77			76	76	72		16
15	71	75	68		73		70	67			73					15
14	67	70	64	66	69	64	66	64	68		69	67	68	65		14
13	63	66	60		64		62	60		62		63	64	61	59	13
12	59	61	56	59	59	56	57	56	59		61	59	60		56	12
11	54	57	52	56	55	52	53	52	55	54	57	55	56	54	52	11
10	50	52	48	52	50	48	49	48	50		53	50	52	50	49	10
9	46	48	44	49	46	44	45	45	46	46	49	46	48	46	45	9
8	41	43	40	45	41	40	41	41	41		45	42	43	42	42	8
7	37	39	36	42	36	36	37	37	37	38	42	38	39	39	38	7
6	33	34	32	38		33	33	33	32	34		33	35	35	35	6
5	29	30	28	35	27	29	28	30	28	30	34	29	31	31	31	5
4	24	25	24	31		25	24	26	23	26		25	27	27	28	4
3	20	21	20	28	18	21	20		19	22		21	23	24	24	3
2	16	16	16	24	14	17	16	18	14	18		17	19	20	21	2
1	12		12	21	9	13	12	14	10	14				16		1
0				18		9	8	11								0

Scaled score	Lateralized sensorimotor/Psychomotor comparisons															Scaled score
	TAP DH	TAP NDH	GRIP DH	GRIP NDH	PEG DH	PEG NDH	TPT DH	TPT NDH	TPT BH	SP R	SP L	SP TOT	TFR R	TFR L		
19	87	86	89	89	96	92	89	90	91				79	80	19	
18	83	82	84	84	92	88	85	86	86				76	76	18	
17	79	78	79	79	87	84	81	82	82				72	73	17	
16	74	74	74	74	83	80	77	78	78				68	69	16	
15	70	70	69	70	79	76	73	73	73			68	65	66	15	
14	66	65	63	65	75	72	69	69	69	64			61	62	14	
13	62	61	58	60	70	68	65	65	65		64	62	58	59	13	
12	58	57	53	55	66	64	60	61	60	57			54	55	12	
11	53	53	48	50	62	60	56	57	56		56	55	51	52	11	
10	49	49	43	45	58	56	52	52	51	49	52	52	47	48	10	
9	45	45	38	40	53	52	48	48	47	46	48	49	44	45	9	
8	41	41	33	35	49	48	44	44	43	42	44	45	40	41	8	
7	37	37	28	30	45	44	40	40	38	38	40	42	37	38	7	
6	33	33	23	25	41	40	36	35	34	34	36	39	33	34	6	
5	28	29	18	20	36	36	32	31	29	30	32	36	30	31	5	
4	24	25	12	15	32	32	27	27	25	27	28	32	26	27	4	
3	20	21	7	10	28	28	23	23	21	23	24	29	23	24	3	
2	16	17	2	5	24	24	19	19	16	19	20	26	19	20	2	
1	12	12	0	0	19	20	15	14	12	15	17	22	16	16	1	
0	7	8	0	0	15	16		10							0	

Note. See page 16 for a description of acronyms.

## APPENDIX D (continued)

Sex: Male  
Education: 16-17 years  
Age: 65-69 years  
Race: Caucasian

Summary scores				Executive functions					Attention/Working memory						Scaled score
Scaled score	WAIS-R FSIQ	WAIS FSIQ	AIR	CAT ERROR	TRAIL B	THUR FLU	FAS	ANIMALS	WAIS-R DIGIT SPAN	WAIS DIGIT SPAN	PASAT	DIGIT ERROR	SSHOR RHYM	SPCH PERC	
19	70		100	91	93	84	80	88	77						19
18	66	72	100	87	88	80	77	84	74	75				82	18
17	62	68	96	83	84	76	73	80			79				17
16	57	63	91	79	79	73	69	75	66		75				16
15	53	59	85	75	75	69	66	71	62	65	71	69	60	70	15
14	49	55	80	71	70	65	62	67	58	62	67		57		14
13	45	50	75	67	66	61	59	63	54	59	63	62		62	13
12	41	46	69	63	62	58	55	58	50		60	59	51	58	12
11	36	42	64	59	57	54	51	54	46	52	56	55		54	11
10	32	37	58	55	53	50	48	50	42	49	52	52	45	50	10
9	28	33	53	51	48	46	44	46		46	48	49	42	46	9
8	24	29	48	47	44	42	41	41	34	43	44	45	39	42	8
7	19	24	42	43	39	39	37	37	31		40	42	35	38	7
6	15	20	37	39	35	35	33	33	27	36	37	38	32	34	6
5	11	16	32	35	30	31	30	29	23	33	33	35	29	31	5
4	7	11	26	31	26	27	26	24	19		29	31	26	27	4
3	2	7	21	27	21	23	23	20	15	27	25	28	23	23	3
2	0	3	16	23	17	20	19	16	11		21	24	20	19	2
1	0	0	10	19	13	16	15	11		20	17	21	17	15	1
0		0	5	15				7		17	14	18	14		0

Scaled score	Speed of information processing				Spatial skills				Verbal/Academic skills								Scaled score
	WAIS-R DIGIT SYMB	WAIS DIGIT SYMB	TRAIL A	DIGIT TIME	WAIS-R BLOCK DESGN	WAIS BLOCK DESGN	TPT TIME	SPAT REL	WAIS-R VOCAB	WAIS VOCAB	APHAS SCRIN	BSTN NAME	BDAE COMP	PIAT RECOG	PIAT COMP	PIAT SPELL	
19	97		94		89		94		73								19
18	93	97	90	89			90		69								18
17	89	93	86	85	81		86		65	74				69	74		17
16	85	89	81	81	78	79	82		61	69		71		65	70	69	16
15	81	84	77	77	74	75	78		57	65				62	66		15
14	77	80	72	73	70	71	74		52	60		63		58	63	61	14
13	73	76	68	69	66	67	69		48	56	63	60		54	59	57	13
12	69	71	63	65	62	63	65		44	51			56	51	55	53	12
11	65	67	59	61	58	59	61	56	40	47	55	52		47	52	49	11
10	61	63	55	57	54	55	57		36	42	50	48		43	48	45	10
9	57	58	50	52	50	51	53	45	32	37	46	44	41	40	44	41	9
8	53	54	46	48	46	47	49		27	33	42	40		36	41	37	8
7	49	50	41	44	42	42	45	33	23	28	38	36	32	32	37	33	7
6	45	45	37	40	38	38	41		19	24	34	32		28	33	29	6
5	41	41	32	36	34	34	37	22	15	19	29	28	22	25	30	25	5
4	37	37	28	32	30	30	33		11	15	25	24		21	26	21	4
3	33	32	23		26	26	29	10	7	10	21	20	12	17	22		3
2	29	28	19		22	22	24	4	3	6	17	16	8	14			2
1	25	24	15		18	18	20	0	0	1	12	12	3				1
0		19				14	16	0		0	8				11	5	0

(continued)

## APPENDIX D (continued)

Sex: Male  
Education: 16-17 years  
Age: 65-69 years  
Race: Caucasian

Scaled score	Verbal episodic memory									Visual episodic memory						Scaled score
	STORY-T1	STORY LEARN	STORY RECALL	STORY LOSS	CVLT-1	CVLT-5	CVLT-TOT	CVLT-SDFR	CVLT-LDFR	TPT MEM	TPT LOC	FIGUR-T1	FIGUR LEARN	FIGUR RECALL	FIGUR LOSS	
19	89		85		93		89				90	90	90	84		19
18	85	90	81				85				86	86	86	80		18
17	81	85	77		84		81			80		82		76		17
16	77	81	73			74	76	73	79			77	77	73		16
15	72	76	69		75		72	70			74					15
14	68	71	65	66	70	67	68	66	70		70	69	69	65		14
13	64	67	61		66		64	62		64		65	65	62	60	13
12	60	62	57	59	61	59	60	58	61		63	60	61		56	12
11	55	58	53	56	57	55	56	55	57	56	59	56	57	54	52	11
10	51	53	49	52	52	51	52	51	52		55	52	53	50	49	10
9	47	49	44	49	47	47	48	47	48	48	51	48	49	47	45	9
8	42	44	40	45	43	43	43	43	43		47	44	45	43	42	8
7	38	40	36	42	38	39	39	39	39	40	43	39	41	39	38	7
6	34	35	32	39		35	35	36	34	36		35	37	35	35	6
5	30	31	28	35	29	31	31	32	30	32	35	31	33	32	31	5
4	25	26	24	32		27	27	28	25	28		27	29	28	28	4
3	21	22	20	28	20	23	23		21	24		22	25	24	24	3
2	17	17	16	25	15	19	19	21	16	20		18	21	20	21	2
1	13		12	21	11	15	14	17	12	16				17		1
0			18			11	10	13								0

Scaled score	Lateralized sensorimotor/Psychomotor comparisons															Scaled score
	TAP DH	TAP NDH	GRIP DH	GRIP NDH	PEG DH	PEG NDH	TPT DH	TPT NDH	TPT BH	SP R	SP L	SP TOT	TFR R	TFR L		
19	88	87	91	92	99	95	92	93	93				79	80	19	
18	84	83	86	87	95	91	88	89	89				76	77	18	
17	80	79	81	82	90	87	83	84	85				72	73	17	
16	76	75	76	77	86	83	79	80	80				69	70	16	
15	72	71	71	72	82	79	75	76	76			70	65	66	15	
14	68	67	66	67	77	75	71	72	72	66			62	62	14	
13	63	63	61	62	73	71	67	67	67		65	64	58	59	13	
12	59	59	56	57	69	67	63	63	63	58			55	55	12	
11	55	54	50	52	65	63	59	59	58		57	57	51	52	11	
10	51	50	45	47	60	59	55	55	54	51	53	54	48	48	10	
9	47	46	40	42	56	55	50	51	50	47	49	50	44	45	9	
8	42	42	35	37	52	51	46	46	45	43	45	47	40	41	8	
7	38	38	30	32	48	47	42	42	41	39	41	44	37	38	7	
6	34	34	25	27	43	43	38	38	37	36	37	41	33	34	6	
5	30	30	20	22	39	39	34	34	32	32	33	37	30	31	5	
4	26	26	15	17	35	35	30	29	28	28	29	34	26	27	4	
3	22	22	10	12	31	31	26	25	23	24	25	31	23	24	3	
2	17	18	5	7	26	27	22	21	19	21	21	27	19	20	2	
1	13	14	0	2	22	23	18	17	15	17	17	24	16	17	1	
0	9	10	0	0	18	19		13							0	

Note. See page 16 for a description of acronyms.



## APPENDIX D (continued)

Sex: Male  
 Education: 16-17 years  
 Age: 70-74 years  
 Race: Caucasian

	Summary scores			Executive functions					Attention/Working memory							
Scaled score	WAIS-R FSIQ	WAIS FSIQ	AIR	CAT ERROR	TRAIL B	THUR FLU	FAS	ANIMALS	WAIS-R DIGIT SPAN	WAIS DIGIT SPAN	PASAT	DIGIT ERROR	SSHOR RHYM	SPCH PERC	Scaled score	
19	69		100	93	95	85	81	90	77						19	
18	64	71	100	89	91	81	77	85	74	76				84	18	
17	60	66	100	85	86	77	74	81			80				17	
16	56	62	94	81	82	74	70	77	66		76				16	
15	52	58	89	77	77	70	66	73	62	66	72	70	61	72	15	
14	47	53	84	73	73	66	63	68	58	63	68		58		14	
13	43	49	78	69	68	62	59	64	54	59	64	63		64	13	
12	39	45	73	65	64	58	56	60	50		60	60	52	60	12	
11	35	41	68	61	60	55	52	56	46	53	57	56		56	11	
10	30	36	62	56	55	51	48	51	42	50	53	53	45	52	10	
9	26	32	57	52	51	47	45	47		47	49	49	42	49	9	
8	22	28	52	48	46	43	41	43	34	43	45	46	39	45	8	
7	18	23	46	44	42	39	38	38	31		41	42	36	41	7	
6	13	19	41	40	37	36	34	34	27	37	37	39	33	37	6	
5	9	15	35	36	33	32	30	30	23	34	34	35	30	33	5	
4	5	10	30	32	28	28	27	26	19		30	32	27	29	4	
3	1	6	25	28	24	24	23	21	15	27	26	29	24	25	3	
2	0	2	19	24	19	20	20	17	11		22	25	20	21	2	
1	0	0	14	20	15	17	16	13		21	18	22	17	17	1	
0		0	9	16				9		17	14	18	14		0	

Speed of information processing					Spatial skills				Verbal/Academic skills								Scaled score
Scaled score	WAIS-R DIGIT SYMB	WAIS DIGIT SYMB	TRAIL A	DIGIT TIME	WAIS-R BLOCK DESGN	WAIS BLOCK DESGN	TPT TIME	SPAT REL	WAIS-R VOCAB	WAIS VOCAB	APHAS SCR N	BSTN NAME	BDAE COMP	PIAT RECOG	PIAT COMP	PIAT SPELL	
19	100		96		91		98		72								19
18	96	100	92	92			94		68								18
17	92	95	87	87	83		90		64	74				68	74		17
16	88	91	83	83	79	81	85		59	69		74		64	70	69	16
15	84	87	78	79	75	76	81		55	65				61	67		15
14	80	82	74	75	71	72	77		51	60		66		57	63	61	14
13	76	78	69	71	67	68	73		47	56	63	62		53	59	57	13
12	72	74	65	67	64	64	69		43	51			56	50	56	53	12
11	68	69	61	63	60	60	65	56	39	47	55	54		46	52	49	11
10	64	65	56	59	56	56	61		34	42	51	50		42	48	45	10
9	60	61	52	55	52	52	57	45	30	37	46	46	41	39	45	41	9
8	56	56	47	51	48	48	53		26	33	42	42		35	41	37	8
7	52	52	43	47	44	44	49	33	22	28	38	38	32	31	37	33	7
6	48	48	38	43	40	40	45		18	24	34	34		28	34	29	6
5	44	43	34	39	36	35	40	22	14	19	30	30	22	24	30	25	5
4	40	39	30	35	32	31	36		10	15	25	26		20	26	21	4
3	36	35	25		28	27	32	10	5	10	21	22	13	17	23		3
2	32	30	21		24	23	28	5	1	6	17	18	8	13			2
1	28	26	16		20	19	24	0	0	1	13	15	3				1
0		21				15	20	0	0	0	8				12	5	0

(continued)

## APPENDIX D (continued)

Sex: Male  
Education: 16-17 years  
Age: 70-74 years  
Race: Caucasian

Scaled score	Verbal episodic memory									Visual episodic memory						Scaled score
	STORY-T1	STORY LEARN	STORY RECALL	STORY LOSS	CVLT-1	CVLT-5	CVLT-TOT	CVLT-SDFR	CVLT-LDFR	TPT MEM	TPT LOC	FIGUR-T1	FIGUR LEARN	FIGUR RECALL	FIGUR LOSS	
19	90		85		95		92				91	92	91	84		19
18	86	91	81				88				88	87	87	81		18
17	82	86	77		86		83			82		83		77		17
16	78	82	73			77	79	76	82			79	79	73		16
15	73	77	69		77		75	72			76					15
14	69	73	65	66	73	69	71	69	73		72	71	71	66		14
13	65	68	61		68		67	65		67		66	67	62	60	13
12	60	63	57	59	63	61	63	61	64		64	62	63		56	12
11	56	59	53	56	59	57	59	57	59	59	60	58	59	55	53	11
10	52	54	49	53	54	53	55	53	55		56	54	55	51	49	10
9	48	50	45	49	50	49	50	50	50	51	53	49	51	47	46	9
8	43	45	41	46	45	45	46	46	46		49	45	47	43	42	8
7	39	41	37	42	40	42	42	42	41	43	45	41	43	40	38	7
6	35	36	33	39		38	38	38	37	39		37	39	36	35	6
5	31	32	29	35	31	34	34	35	32	35	37	32	35	32	31	5
4	26	27	25	32		30	30	31	28	31		28	31	28	28	4
3	22	23	21	28	22	26	26		23	27		24	26	25	24	3
2	18	18	17	25	18	22	22	23	19	23		20	22	21	21	2
1	13		13	21	13	18	17	19	14	19				17		1
0				18		14	13	16								0

Scaled score	Lateralized sensorimotor/Psychomotor comparisons															Scaled score
	TAP DH	TAP NDH	GRIP DH	GRIP NDH	PEG DH	PEG NDH	TPT DH	TPT NDH	TPT BH	SP R	SP L	SP TOT	TFR R	TFR L		
19	90	88	94	94	100	98	94	95	96				79	80	19	
18	86	84	88	89	98	94	90	91	92				76	77	18	
17	82	80	83	84	93	90	86	87	88				72	73	17	
16	78	76	78	79	89	86	82	83	83				69	70	16	
15	74	72	73	74	85	82	78	78	79			72	65	66	15	
14	69	68	68	69	81	78	74	74	74	68			62	63	14	
13	65	64	63	64	76	74	70	70	70		66	66	58	59	13	
12	61	60	58	59	72	70	66	66	66	60			55	56	12	
11	57	56	53	54	68	66	62	62	61		58	59	51	52	11	
10	53	52	48	49	64	62	57	57	57	53	54	56	48	48	10	
9	49	47	43	44	59	58	53	53	52	49	50	52	44	45	9	
8	44	43	37	40	55	54	49	49	48	45	46	49	41	41	8	
7	40	39	32	35	51	50	45	45	44	41	42	46	37	38	7	
6	36	35	27	30	47	46	41	40	39	37	38	43	34	34	6	
5	32	31	22	25	42	42	37	36	35	34	34	39	30	31	5	
4	28	27	17	20	38	38	33	32	31	30	30	36	27	27	4	
3	23	23	12	15	34	34	29	28	26	26	26	33	23	24	3	
2	19	19	7	10	30	30	24	24	22	22	22	29	19	20	2	
1	15	15	2	5	25	26	20	19	17	19	18	26	16	17	1	
0	11	11	0	0	21	22		15							0	

Note. See page 16 for a description of acronyms.

## APPENDIX D (continued)

Sex: Male  
Education: 16-17 years  
Age: 75-79 years  
Race: Caucasian

Summary scores				Executive functions					Attention/Working memory						Scaled score
Scaled score	WAIS-R FSIQ	WAIS FSIQ	AIR	CAT ERROR	TRAIL B	THUR FLU	FAS	ANIMALS	WAIS-R DIGIT SPAN	WAIS DIGIT SPAN	PASAT	DIGIT ERROR	SSHOR RHYM	SPCH PERC	
19	67		100	94	98	86	81	91	77						19
18	63	70	100	90	93	82	78	87	74	76				86	18
17	58	65	100	86	89	78	74	83			81				17
16	54	61	99	82	84	74	71	78	66		77				16
15	50	57	93	78	80	71	67	74	62	66	73	71	62	75	15
14	46	52	88	74	75	67	63	70	58	63	69		58		14
13	41	48	83	70	71	63	60	65	54	60	65	64		67	13
12	37	44	77	66	67	59	56	61	50		61	60	52	63	12
11	33	39	72	62	62	55	53	57	46	53	58	57		59	11
10	29	35	66	58	58	52	49	53	42	50	54	53	46	55	10
9	25	31	61	54	53	48	45	48		47	50	50	43	51	9
8	20	26	56	50	49	44	42	44	34	44	46	47	40	47	8
7	16	22	50	46	44	40	38	40	31		42	43	37	43	7
6	12	18	45	42	40	36	35	36	27	37	38	40	34	39	6
5	8	13	40	38	35	33	31	31	23	34	35	36	30	35	5
4	3	9	34	34	31	29	27	27	19		31	33	27	31	4
3	0	5	29	30	27	25	24	23	15	28	27	29	24	28	3
2	0	1	24	26	22	21	20	19	11		23	26	21	24	2
1	0	0	18	22	18	17	17	14		21	19	22	18	20	1
0		0	13	18				10		18	15	19	15		0

Scaled score	Speed of information processing				Spatial skills				Verbal/Academic skills								Scaled score
	WAIS-R DIGIT SYMB	WAIS DIGIT SYMB	TRAIL A	DIGIT TIME	WAIS-R BLOCK DESGN	WAIS BLOCK DESGN	TPT TIME	SPAT REL	WAIS-R VOCAB	WAIS VOCAB	APHAS SCRIN	BSTN NAME	BDAE COMP	PIAT RECOG	PIAT COMP	PIAT SPELL	
19	100		98		93		100		71								19
18	99	100	93	94			98		66								18
17	95	98	89	90	85		94		62	74				67	74		17
16	91	93	84	86	81	82	90		58	69		76		64	71	69	16
15	87	89	80	82	77	78	86		54	65				60	67		15
14	83	85	76	78	73	74	82		50	60		68		56	63	61	14
13	79	80	71	74	69	69	77		46	56	63	64		53	60	57	13
12	75	76	67	70	65	65	73		41	51			56	49	56	53	12
11	71	72	62	66	61	61	69	57	37	47	55	56		45	52	49	11
10	67	67	58	62	57	57	65		33	42	51	52		42	49	45	10
9	63	63	53	58	53	53	61	45	29	37	47	48	41	38	45	41	9
8	59	59	49	54	50	49	57		25	33	42	44		34	41	37	8
7	55	54	44	50	46	45	53	34	21	28	38	41	32	31	38	33	7
6	51	50	40	46	42	41	49		17	24	34	37		27	34	29	6
5	47	46	36	42	38	37	45	22	12	19	30	33	22	23	30	25	5
4	43	41	31	38	34	33	41		8	15	26	29		19	27	21	4
3	39	37	27		30	28	37	11	4	10	21	25	13	16	23		3
2	36	32	22		26	24	32	5	0	6	17	21	8	12			2
1	32	28	18		22	20	28	0	0	1	13	17	3				1
0		24				16	24	0	0	0	9				12	5	0

(continued)

## APPENDIX D (continued)

Sex: Male  
Education: 16-17 years  
Age: 75-79 years  
Race: Caucasian

Scaled score	Verbal episodic memory									Visual episodic memory						Scaled score
	STORY-T1	STORY LEARN	STORY RECALL	STORY LOSS	CVLT-1	CVLT-5	CVLT-TOT	CVLT-SDFR	CVLT-LDFR	TPT MEM	TPT LOC	FIGUR-T1	FIGUR LEARN	FIGUR RECALL	FIGUR LOSS	
19	91		86		98		95				93	93	93	85		19
18	87	92	82				91				89	89	89	81		18
17	83	87	78		89		87			85		85		77		17
16	79	83	74			80	83	79	85			81	81	74		16
15	74	78	70		80		79	75			77					15
14	70	74	65	67	75	72	74	72	76		74	72	73	66		14
13	66	69	61		70		70	68		69		68	69	63	60	13
12	61	65	57	60	66	64	66	64	67		66	64	64		56	12
11	57	60	53	56	61	60	62	60	62	62	62	59	60	55	53	11
10	53	55	49	53	57	56	58	56	58		58	55	56	51	49	10
9	49	51	45	49	52	53	54	53	53	54	54	51	52	48	46	9
8	44	46	41	46	48	49	50	49	49		50	47	48	44	42	8
7	40	42	37	42	43	45	45	45	44	46	46	42	44	40	39	7
6	36	37	33	39		41	41	41	40	42		38	40	36	35	6
5	32	33	29	35	34	37	37	38	35	38	39	34	36	33	32	5
4	27	28	25	32		33	33	34	31	34		30	32	29	28	4
3	23	24	21	28	25	29	29		26	30		25	28	25	24	3
2	19	19	17	25	20	25	25	26	22	26		21	24	21	21	2
1	14		13	21	15	21	21	22	17	22				18		1
0			18			17	17	19								0

Scaled score	Lateralized sensorimotor/Psychomotor comparisons															Scaled score
	TAP DH	TAP NDH	GRIP DH	GRIP NDH	PEG DH	PEG NDH	TPT DH	TPT NDH	TPT BH	SP R	SP L	SP TOT	TFR R	TFR L		
19	92	89	96	97	100	100	98	98	99				79	80	19	
18	88	85	91	92	100	97	94	94	95				76	77	18	
17	84	81	86	87	97	93	89	90	91				72	73	17	
16	80	77	81	82	93	89	85	85	86				69	70	16	
15	76	73	76	77	88	85	81	81	82			75	65	66	15	
14	72	69	70	72	84	81	77	77	77	70			62	63	14	
13	67	65	65	67	80	77	73	73	73		67	68	58	59	13	
12	63	61	60	62	76	73	69	69	69	62			55	56	12	
11	59	57	55	57	71	69	65	64	64		59	61	51	52	11	
10	55	53	50	52	67	65	61	60	60	55	55	58	48	49	10	
9	51	49	45	47	63	61	57	56	56	51	51	55	44	45	9	
8	46	44	40	42	59	57	52	52	51	47	47	51	41	42	8	
7	42	40	35	37	54	53	48	47	47	43	43	48	37	38	7	
6	38	36	30	32	50	49	44	43	42	39	39	45	34	34	6	
5	34	32	25	27	46	45	40	39	38	36	35	42	30	31	5	
4	30	28	19	22	41	41	36	35	34	32	31	38	27	27	4	
3	26	24	14	17	37	37	32	31	29	28	27	35	23	24	3	
2	21	20	9	12	33	33	28	26	25	24	23	32	20	20	2	
1	17	16	4	7	29	29	24	22	20	21	19	28	16	17	1	
0	13	12	0	2	24	25		18							0	

Note. See page 16 for a description of acronyms.

## APPENDIX D (continued)

Sex: Male  
Education: 16-17 years  
Age: 80-85 years  
Race: Caucasian

Summary scores				Executive functions					Attention/Working memory						Scaled score
Scaled score	WAIS-R FSIQ	WAIS FSIQ	AIR	CAT ERROR	TRAIL B	THUR FLU	FAS	ANIMALS	WAIS-R DIGIT SPAN	WAIS DIGIT SPAN	PASAT	DIGIT ERROR	SSHOR RHYM	SPCH PERC	
19	67		100	96	100	87	82	93	77						19
18	63	68	100	92	96	83	78	88	74	77				90	18
17	58	64	100	88	92	79	75	84			82				17
16	54	60	100	84	87	75	71	80	66		78				16
15	50	56	98	80	83	71	68	76	62	67	74	71	62	78	15
14	46	51	93	76	79	68	64	71	58	64	70		59		14
13	41	47	87	72	74	64	61	67	54	60	66	65		70	13
12	37	43	82	68	70	60	57	63	50		62	61	53	66	12
11	33	38	77	64	65	56	53	58	46	54	59	58		62	11
10	29	34	71	60	61	53	50	54	42	51	55	54	47	58	10
9	25	30	66	56	56	49	46	50		48	51	51	44	54	9
8	20	25	61	52	52	45	43	46	34	44	47	47	40	51	8
7	16	21	55	48	47	41	39	41	31		43	44	37	47	7
6	12	17	50	44	43	37	35	37	27	38	39	40	34	43	6
5	8	12	45	40	39	34	32	33	23	35	36	37	31	39	5
4	3	8	39	36	34	30	28	29	19		32	34	28	35	4
3	0	4	34	32	30	26	25	24	15	28	28	30	25	31	3
2	0	0	28	28	25	22	21	20	11		24	27	22	27	2
1	0	0	23	24	21	18	17	16		22	20	23	19	23	1
0		0	18	20				12		18	16	20	15		0

Scaled score	Speed of information processing				Spatial skills				Verbal/Academic skills								Scaled score
	WAIS-R DIGIT SYMB	WAIS DIGIT SYMB	TRAIL A	DIGIT TIME	WAIS-R BLOCK DESGN	WAIS BLOCK DESGN	TPT TIME	SPAT REL	WAIS-R VOCAB	WAIS VOCAB	APHAS SCR N	BSTN NAME	BDAE COMP	PIAT RECOG	PIAT COMP	PIAT SPELL	
19	100		100		93		100		71								19
18	99	100	95	98			100		66								18
17	95	100	91	94	85		99		62	74				66	75		17
16	91	96	86	90	81	83	95		58	69		79		62	71	69	16
15	87	92	82	86	77	79	91		54	65				59	67		15
14	83	87	77	82	73	75	87		50	60		71		55	64	61	14
13	79	83	73	78	69	71	83		46	56	64	67		51	60	57	13
12	75	78	68	74	65	67	79		41	51			56	48	56	53	12
11	71	74	64	70	61	63	75	57	37	47	55	59		44	53	49	11
10	67	70	60	66	57	58	71		33	42	51	55		40	49	45	10
9	63	65	55	62	53	54	67	46	29	37	47	51	41	37	45	41	9
8	59	61	51	58	50	50	62		25	33	43	47		33	42	37	8
7	55	57	46	53	46	46	58	34	21	28	38	43	32	29	38	33	7
6	51	52	42	49	42	42	54		17	24	34	39		26	34	29	6
5	47	48	37	45	38	38	50	23	12	19	30	35	22	22	31	25	5
4	43	44	33	41	34	34	46		8	15	26	31		18	27	21	4
3	39	39	29		30	30	42	11	4	10	22	28	13	15	23		3
2	36	35	24		26	26	38	5	0	6	17	24	8	11			2
1	32	31	20		22	22	34	0	0	1	13	20	3				1
0		26				17	30	0	0	0	9			12	5		0

(continued)

## APPENDIX D (continued)

Sex: Male  
Education: 16-17 years  
Age: 80-85 years  
Race: Caucasian

Scaled score	Verbal episodic memory									Visual episodic memory						Scaled score
	STORY-T1	STORY LEARN	STORY RECALL	STORY LOSS	CVLT-1	CVLT-5	CVLT-TOT	CVLT-SDFR	CVLT-LDFR	TPT MEM	TPT LOC	FIGUR-T1	FIGUR LEARN	FIGUR RECALL	FIGUR LOSS	
19	92		86		100		99				95	95	95	85		19
18	88	93	82				95				91	91	91	82		18
17	84	88	78		92		91			89		86		78		17
16	80	84	74			84	87	83	88			82	82	74		16
15	75	79	70		83		83	79			79					15
14	71	75	66	67	78	76	79	75	79		75	74	74	67		14
13	67	70	62		74		74	72		73		70	70	63	60	13
12	62	66	58	60	69	68	70	68	70		68	65	66		56	12
11	58	61	54	56	64	64	66	64	66	65	64	61	62	56	53	11
10	54	57	50	53	60	60	62	60	61		60	57	58	52	49	10
9	50	52	46	49	55	56	58	57	57	57	56	53	54	48	46	9
8	45	48	42	46	51	52	54	53	52		52	48	50	44	42	8
7	41	43	38	42	46	49	50	49	48	49	48	44	46	41	39	7
6	37	39	34	39		45	46	45	44	45		40	42	37	35	6
5	33	34	29	36	37	41	41	41	39	41	40	36	38	33	32	5
4	28	30	25	32		37	37	38	35	37		31	34	29	28	4
3	24	25	21	29	28	33	33		30	33		27	30	26	25	3
2	20	20	17	25	23	29	29	30	26	29		23	26	22	21	2
1	15		13	22	19	25	25	26	21	25				18		1
0				18		21	21	23								0

Scaled score	Lateralized sensorimotor/Psychomotor comparisons														Scaled score
	TAP DH	TAP NDH	GRIP DH	GRIP NDH	PEG DH	PEG NDH	TPT DH	TPT NDH	TPT BH	SP R	SP L	SP TOT	TFR R	TFR L	
19	95	90	99	99	100	100	100	100	100				79	80	19
18	91	86	94	94	100	100	98	97	99				76	77	18
17	87	82	88	89	100	97	94	93	94				72	73	17
16	83	78	83	84	97	93	89	89	90				69	70	16
15	78	74	78	80	92	89	85	84	85			77	65	66	15
14	74	70	73	75	88	85	81	80	81	72			62	63	14
13	70	66	68	70	84	81	77	76	77		68	71	58	59	13
12	66	62	63	65	80	77	73	72	72	65			55	56	12
11	62	58	58	60	75	73	69	68	68		60	64	51	52	11
10	57	54	53	55	71	69	65	63	63	57	56	61	48	49	10
9	53	50	48	50	67	65	61	59	59	53	52	58	44	45	9
8	49	46	43	45	62	61	56	55	55	50	48	54	41	42	8
7	45	42	37	40	58	57	52	51	50	46	44	51	37	38	7
6	41	37	32	35	54	53	48	46	46	42	40	48	34	35	6
5	37	33	27	30	50	49	44	42	42	38	36	45	30	31	5
4	32	29	22	25	45	45	40	38	37	34	32	41	27	28	4
3	28	25	17	20	41	41	36	34	33	31	28	38	23	24	3
2	24	21	12	15	37	37	32	30	28	27	24	35	20	20	2
1	20	17	7	10	33	33	28	25	24	23	20	31	16	17	1
0	16	13	2	5	28	29		21							0

Note. See page 16 for a description of acronyms.

## APPENDIX D (continued)

Sex: Male  
Education: 18-20 years  
Age: 20-34 years  
Race: Caucasian

Summary scores				Executive functions					Attention/Working memory						Scaled score
Scaled score	WAIS-R FSIQ	WAIS FSIQ	AIR	CAT ERROR	TRAIL B	THUR FLU	FAS	ANIMALS	WAIS-R DIGIT SPAN	WAIS DIGIT SPAN	PASAT	DIGIT ERROR	SSHOR RHYM	SPCH PERC	
19	77		82	73	76	74	73	75	75						19
18	72	74	77	69	72	70	69	71	71	69				71	18
17	68	70	71	65	67	67	66	66			69				17
16	64	66	66	61	63	63	62	62	63		65				16
15	60	62	61	57	59	59	59	58	59	59	61	63	57	59	15
14	55	57	55	53	54	55	55	53	55	56	57		54		14
13	51	53	50	49	50	51	51	49	51	53	54	56		51	13
12	47	49	45	45	45	48	48	45	47		50	52	47	47	12
11	43	44	39	41	41	44	44	41	43	46	46	49		43	11
10	39	40	34	37	36	40	41	36	39	43	42	45	41	39	10
9	34	36	29	33	32	36	37	32		40	38	42	38	35	9
8	30	31	23	29	27	32	33	28	32	36	34	39	35	31	8
7	26	27	18	25	23	29	30	24	28		31	35	32	27	7
6	22	23	13	21	18	25	26	19	24	30	27	32	29	23	6
5	17	18	7	17	14	21	23	15	20	27	23	28	26	20	5
4	13	14	2	13	10	17	19	11	16		19	25	22	16	4
3	9	10	0	9	5	14	16	6	12	20	15	21	19	12	3
2	5	5	0	5	1	10	12	2	8		11	18	16	8	2
1	0	1	0	1	0	6	8	0		14	7	14	13	4	1
0		0	0	0				0		11	4	11	10		0

Scaled score	Speed of information processing				Spatial skills				Verbal/Academic skills								Scaled score
	WAIS-R DIGIT SYMB	WAIS DIGIT SYMB	TRAIL A	DIGIT TIME	WAIS-R BLOCK DESGN	WAIS BLOCK DESGN	TPT TIME	SPAT REL	WAIS-R VOCAB	WAIS VOCAB	APHAS SCRIN	BSTN NAME	BDAE COMP	PIAT RECOG	PIAT COMP	PIAT SPELL	
19	80		79		79		78		78								19
18	76	72	75	79			74		74								18
17	72	68	70	75	71		70		70	68				67	67		17
16	68	63	66	71	67	63	66		66	63		64		63	63	64	16
15	64	59	61	66	63	59	62		62	59				60	59		15
14	60	55	57	62	59	55	58		58	54		56		56	56	56	14
13	56	50	52	58	55	51	54		54	50	60	52		52	52	52	13
12	52	46	48	54	51	47	49		49	45			52	49	49	48	12
11	49	42	43	50	47	43	45	53	45	41	52	44		45	45	44	11
10	45	37	39	46	43	39	41		41	36	48	40		41	41	40	10
9	41	33	35	42	39	34	37	41	37	31	43	36	38	38	38	36	9
8	37	29	30	38	35	30	33		33	27	39	33		34	34	32	8
7	33	24	26	34	31	26	29	30	29	22	35	29	28	30	30	28	7
6	29	20	21	30	27	22	25		24	18	31	25		27	27	24	6
5	25	15	17	26	23	18	21	18	20	13	27	21	19	23	23	20	5
4	21	11	12	22	19	14	17		16	9	22	17		19	19	16	4
3	17	7	8		15	10	13	7	12	4	18	13	9	16	16		3
2	13	2	3		11	6	9	1	8	0	14	9	4	12			2
1	9	0	0		7	2	5	0	4	0	10	5	0				1
0		0				0	0	0		0	6				5	1	0

(continued)

## APPENDIX D (continued)

Sex: Male  
Education: 18-20 years  
Age: 20-34 years  
Race: Caucasian

Scaled score	Verbal episodic memory									Visual episodic memory						Scaled score
	STORY-T1	STORY LEARN	STORY RECALL	STORY LOSS	CVLT-1	CVLT-5	CVLT-TOT	CVLT-SDFR	CVLT-LDFR	TPT MEM	TPT LOC	FIGUR-T1	FIGUR LEARN	FIGUR RECALL	FIGUR LOSS	
19	79		80		84		75				76	75	74	78		19
18	75	78	76				71				72	70	70	74		18
17	71	73	72		75		67			68		66		71		17
16	66	69	68			62	63	61	67			62	62	67		16
15	62	64	64		65		59	57			60					15
14	58	60	60	65	61	54	55	54	58		56	53	54	60		14
13	53	55	56		56		51	50		52		49	49	56	58	13
12	49	51	52	58	52	46	47	46	49		48	45	45		55	12
11	45	46	48	55	47	42	42	42	45	44	45	41	41	48	51	11
10	41	42	44	51	43	38	38	38	40		41	36	37	45	48	10
9	36	37	40	48	38	34	34	35	36	36	37	32	33	41	44	9
8	32	32	36	44	33	30	30	31	31		33	28	29	37	41	8
7	28	28	32	41	29	26	26	27	27	28	29	24	25	33	37	7
6	24	23	28	37		22	22	23	22	24		20	21	30	34	6
5	19	19	24	34	20	18	18	20	18	20	21	15	17	26	30	5
4	15	14	19	30		14	14	16	13	16		11	13	22	27	4
3	11	10	15	27	10	10	9		9	12		7	9	18	23	3
2	6	5	11	23	6	6	5	8	5	8		3	5	15	20	2
1	2		7	20	1	2	1	4	0	4				11		1
0				16		0	0	1								0

Scaled score	Lateralized sensorimotor/Psychomotor comparisons															Scaled score
	TAP DH	TAP NDH	GRIP DH	GRIP NDH	PEG DH	PEG NDH	TPT DH	TPT NDH	TPT BH	SP R	SP L	SP TOT	TFR R	TFR L		
19	81	78	82	82	80	78	80	77	77				77	77	19	
18	77	74	77	77	76	74	76	73	72				73	74	18	
17	72	70	72	72	72	70	72	69	68				70	70	17	
16	68	66	66	67	67	66	68	65	63				66	67	16	
15	64	62	61	62	63	62	64	60	59			61	63	63	15	
14	60	58	56	57	59	58	60	56	55	58			59	60	14	
13	56	54	51	52	55	54	55	52	50		56	55	56	56	13	
12	52	50	46	47	50	50	51	48	46	51			52	53	12	
11	47	45	41	42	46	46	47	44	42		48	48	49	49	11	
10	43	41	36	37	42	42	43	39	37	43	44	45	45	46	10	
9	39	37	31	32	38	38	39	35	33	39	41	42	42	42	9	
8	35	33	26	27	33	34	35	31	28	35	37	38	38	39	8	
7	31	29	21	22	29	30	31	27	24	32	33	35	35	35	7	
6	26	25	15	17	25	26	27	22	20	28	29	32	31	32	6	
5	22	21	10	12	21	22	22	18	15	24	25	28	28	28	5	
4	18	17	5	7	16	18	18	14	11	20	21	25	24	24	4	
3	14	13	0	2	12	14	14	10	6	16	17	22	21	21	3	
2	10	9	0	0	8	10	10	6	2	13	13	19	17	17	2	
1	6	5	0	0	4	6	6	1	0	9	9	15	14	14	1	
0	1	1	0	0	0	2		0							0	

Note. See page 16 for a description of acronyms.



## APPENDIX D (continued)

Sex: Male  
Education: 18-20 years  
Age: 35-39 years  
Race: Caucasian

Summary scores				Executive functions					Attention/Working memory						Scaled score
Scaled score	WAIS-R FSIQ	WAIS FSIQ	AIR	CAT ERROR	TRAIL B	THUR FLU	FAS	ANIMALS	WAIS-R DIGIT SPAN	WAIS DIGIT SPAN	PASAT	DIGIT ERROR	SSHOR RHYM	SPCH PERC	
19	75		86	77	79	76	74	78	75						19
18	71	72	80	73	74	72	71	73	71	70				72	18
17	67	68	75	69	70	68	67	69			71				17
16	62	64	70	65	65	65	63	65	63		67				16
15	58	59	64	61	61	61	60	61	59	60	63	64	58	60	15
14	54	55	59	57	56	57	56	56	55	57	59		55		14
13	50	51	54	53	52	53	53	52	51	54	55	57		52	13
12	45	46	48	49	47	49	49	48	47		51	54	49	48	12
11	41	42	43	45	43	46	46	43	43	47	48	50		44	11
10	37	38	38	41	39	42	42	39	39	44	44	47	42	40	10
9	33	33	32	37	34	38	38	35		41	40	43	39	36	9
8	28	29	27	33	30	34	35	31	32	37	36	40	36	32	8
7	24	25	21	29	25	30	31	26	28		32	37	33	28	7
6	20	20	16	24	21	27	28	22	24	31	28	33	30	24	6
5	16	16	11	20	16	23	24	18	20	28	25	30	27	21	5
4	12	12	5	16	12	19	20	14	16		21	26	24	17	4
3	7	7	0	12	7	15	17	9	12	21	17	23	21	13	3
2	3	3	0	8	3	11	13	5	8		13	19	17	9	2
1	0	0	0	4	0	8	10	1		15	9	16	14	5	1
0		0	0	0				0		12	5	12	11		0

Speed of information processing					Spatial skills				Verbal/Academic skills								Scaled score
Scaled score	WAIS-R DIGIT SYMB	WAIS DIGIT SYMB	TRAIL A	DIGIT TIME	WAIS-R BLOCK DESGN	WAIS BLOCK DESGN	TPT TIME	SPAT REL	WAIS-R VOCAB	WAIS VOCAB	APHAS SCRIN	BSTN NAME	BDAE COMP	PIAT RECOG	PIAT COMP	PIAT SPELL	
19	83		82		81		80		77								19
18	79	77	78	80			76		73								18
17	75	72	73	76	73		72		69	68				67	68		17
16	71	68	69	72	69	66	67		65	63		62		63	64	64	16
15	68	64	64	68	65	61	63		61	59				59	60		15
14	64	59	60	64	61	57	59		56	54		54		56	57	56	14
13	60	55	56	59	57	53	55		52	50	61	50		52	53	52	13
12	56	51	51	55	53	49	51		48	45			52	48	49	48	12
11	52	46	47	51	49	45	47	53	44	41	52	42		45	46	44	11
10	48	42	42	47	45	41	43		40	36	48	38		41	42	40	10
9	44	37	38	43	41	37	39	42	36	31	44	34	38	37	38	36	9
8	40	33	33	39	37	33	35		31	27	40	31		34	35	32	8
7	36	29	29	35	33	29	31	30	27	22	35	27	29	30	31	28	7
6	32	24	25	31	29	25	27		23	18	31	23		26	27	24	6
5	28	20	20	27	25	20	22	19	19	13	27	19	19	23	24	20	5
4	24	16	16	23	21	16	18		15	9	23	15		19	20	16	4
3	20	11	11		17	12	14	7	11	4	19	11	9	15	16		3
2	16	7	7		13	8	10	2	7	0	14	7	5	12			2
1	12	3	2		9	4	6	0	2	0	10	3	0				1
0		0				0	2	0		0	6				5	0	0

(continued)

## APPENDIX D (continued)

Sex: Male  
Education: 18-20 years  
Age: 35-39 years  
Race: Caucasian

Scaled score	Verbal episodic memory									Visual episodic memory						Scaled score
	STORY-T1	STORY LEARN	STORY RECALL	STORY LOSS	CVLT-1	CVLT-5	CVLT-TOT	CVLT-SDFR	CVLT-LDFR	TPT MEM	TPT LOC	FIGUR-T1	FIGUR LEARN	FIGUR RECALL	FIGUR LOSS	
19	81		81		85		77				79	78	77	79		19
18	77	80	77				73				75	73	73	75		18
17	72	75	73		76		68			69		69		72		17
16	68	71	69			63	64	62	68			65	65	68		16
15	64	66	65		66		60	58			63					15
14	60	62	61	65	62	55	56	55	59		59	57	57	60		14
13	55	57	57		57		52	51		53		52	53	57	59	13
12	51	53	53	58	53	47	48	47	50		52	48	49		55	12
11	47	48	49	55	48	43	44	43	46	45	48	44	45	49	51	11
10	43	44	44	51	43	39	40	40	41		44	40	41	46	48	10
9	38	39	40	48	39	35	35	36	37	37	40	35	37	42	44	9
8	34	35	36	44	34	31	31	32	33		36	31	32	38	41	8
7	30	30	32	41	30	27	27	28	28	29	32	27	28	34	37	7
6	25	26	28	38		23	23	24	24	25		23	24	31	34	6
5	21	21	24	34	21	19	19	21	19	21	24	18	20	27	30	5
4	17	17	20	31		15	15	17	15	17		14	16	23	27	4
3	13	12	16	27	11	11	11		10	13		10	12	19	23	3
2	8	7	12	24	7	7	7	9	6	9		6	8	16	20	2
1	4		8	20	2	3	2	6	1	5				12		1
0				17		0	0	2								0

Scaled score	Lateralized sensorimotor/Psychomotor comparisons														Scaled score
	TAP DH	TAP NDH	GRIP DH	GRIP NDH	PEG DH	PEG NDH	TPT DH	TPT NDH	TPT BH	SP R	SP L	SP TOT	TFR R	TFR L	
19	82	79	81	81	83	81	81	80	79				77	78	19
18	77	75	76	76	79	77	77	75	75				73	74	18
17	73	70	71	71	75	73	73	71	70				70	71	17
16	69	66	65	66	70	69	69	67	66				66	67	16
15	65	62	60	61	66	65	65	63	62			62	63	64	15
14	61	58	55	56	62	61	61	59	57	59			59	60	14
13	56	54	50	51	58	57	57	54	53		58	56	56	57	13
12	52	50	45	46	53	53	53	50	49	51			52	53	12
11	48	46	40	41	49	49	48	46	44		50	49	49	49	11
10	44	42	35	36	45	45	44	42	40	44	46	46	45	46	10
9	40	38	30	31	41	41	40	37	35	40	42	42	42	42	9
8	36	34	25	26	36	37	36	33	31	36	39	39	38	39	8
7	31	30	20	21	32	33	32	29	27	32	35	36	35	35	7
6	27	26	15	17	28	29	28	25	22	29	31	33	31	32	6
5	23	22	9	12	24	25	24	21	18	25	27	29	28	28	5
4	19	17	4	7	19	21	20	16	13	21	23	26	24	25	4
3	15	13	0	2	15	17	15	12	9	17	19	23	21	21	3
2	10	9	0	0	11	13	11	8	5	13	15	19	17	18	2
1	6	5	0	0	7	9	7	4	0	10	11	16	14	14	1
0	2	1	0	0	2	5		0							0

Note. See page 16 for a description of acronyms.

## APPENDIX D (continued)

Sex: Male  
Education: 18-20 years  
Age: 40-44 years  
Race: Caucasian

Summary scores				Executive functions					Attention/Working memory						Scaled score
Scaled score	WAIS-R FSIQ	WAIS FSIQ	AIR	CAT ERROR	TRAIL B	THUR FLU	FAS	ANIMALS	WAIS-R DIGIT SPAN	WAIS DIGIT SPAN	PASAT	DIGIT ERROR	SSHOR RHYM	SPCH PERC	
19	75		88	78	80	77	75	79	75						19
18	71	71	83	74	75	73	71	75	71	70				72	18
17	67	67	77	70	71	69	68	70			72				17
16	62	63	72	66	67	65	64	66	63		68				16
15	58	58	67	62	62	62	61	62	59	60	64	65	59	61	15
14	54	54	61	58	58	58	57	58	55	57	60		55		14
13	50	50	56	54	53	54	53	53	51	54	56	58		53	13
12	45	45	50	50	49	50	50	49	47		52	55	49	49	12
11	41	41	45	46	44	46	46	45	43	48	49	51		45	11
10	37	37	40	42	40	43	43	41	39	44	45	48	43	41	10
9	33	32	34	38	35	39	39	36		41	41	44	40	37	9
8	28	28	29	34	31	35	35	32	32	38	37	41	37	33	8
7	24	24	24	30	27	31	32	28	28		33	37	34	29	7
6	20	19	18	26	22	27	28	23	24	31	29	34	30	25	6
5	16	15	13	22	18	24	25	19	20	28	26	30	27	21	5
4	12	11	8	18	13	20	21	15	16		22	27	24	17	4
3	7	6	2	14	9	16	17	11	12	22	18	24	21	13	3
2	3	2	0	10	4	12	14	6	8		14	20	18	9	2
1	0	0	0	6	0	8	10	2		15	10	17	15	6	1
0		0	0	2				0		12	6	13	12		0

Scaled score	Speed of information processing				Spatial skills				Verbal/Academic skills								Scaled score
	WAIS-R DIGIT SYMB	WAIS DIGIT SYMB	TRAIL A	DIGIT TIME	WAIS-R BLOCK DESGN	WAIS BLOCK DESGN	TPT TIME	SPAT REL	WAIS-R VOCAB	WAIS VOCAB	APHAS SCRIN	BSTN NAME	BDAE COMP	PIAT RECOG	PIAT COMP	PIAT SPELL	
19	83		84		81		81		77								19
18	79	79	79	81			77		73								18
17	75	75	75	77	73		73		69	68				66	68		17
16	71	70	71	72	69	67	69		65	63		61		63	64	64	16
15	68	66	66	68	65	63	65		61	59				59	61		15
14	64	62	62	64	61	59	60		56	54		53		55	57	56	14
13	60	57	57	60	57	54	56		52	50	61	49		52	53	52	13
12	56	53	53	56	53	50	52		48	45			53	48	50	48	12
11	52	48	48	52	49	46	48	54	44	41	53	41		44	46	44	11
10	48	44	44	48	45	42	44		40	36	48	38		41	42	40	10
9	44	40	39	44	41	38	40	42	36	31	44	34	38	37	39	36	9
8	40	35	35	40	37	34	36		31	27	40	30		33	35	32	8
7	36	31	31	36	33	30	32	31	27	22	36	26	29	30	31	28	7
6	32	27	26	32	29	26	28		23	18	31	22		26	28	24	6
5	28	22	22	28	25	22	24	19	19	13	27	18	19	22	24	20	5
4	24	18	17	24	21	18	20		15	9	23	14		19	20	16	4
3	20	14	13		17	13	15	8	11	4	19	10	9	15	17		3
2	16	9	8		13	9	11	2	7	0	15	6	5	11			2
1	12	5	4		9	5	7	0	2	0	10	2	0				1
0		1				1	3	0		0	6				6	0	0

(continued)

## APPENDIX D (continued)

Sex: Male  
Education: 18-20 years  
Age: 40-44 years  
Race: Caucasian

Scaled score	Verbal episodic memory									Visual episodic memory						Scaled score
	STORY-T1	STORY LEARN	STORY RECALL	STORY LOSS	CVLT-1	CVLT-5	CVLT-TOT	CVLT-SDFR	CVLT-LDFR	TPT MEM	TPT LOC	FIGUR-T1	FIGUR LEARN	FIGUR RECALL	FIGUR LOSS	
19	82		81		85		78				79	79	79	80		19
18	78	81	77				74				76	75	75	76		18
17	73	76	73		76		69			70		71		72		17
16	69	72	69			64	65	63	69			67	66	68		16
15	65	67	65		67		61	59			64					15
14	61	63	61	65	62	56	57	56	60		60	58	58	61		14
13	56	58	57		58		53	52		54		54	54	57	59	13
12	52	54	53	59	53	48	49	48	51		52	50	50		55	12
11	48	49	49	55	49	44	45	44	47	46	48	45	46	50	52	11
10	43	45	45	52	44	40	40	40	42		44	41	42	46	48	10
9	39	40	41	48	40	36	36	37	38	38	41	37	38	42	45	9
8	35	36	37	45	35	32	32	33	33		37	33	34	39	41	8
7	31	31	33	41	30	28	28	29	29	30	33	28	30	35	37	7
6	26	27	29	38		24	24	25	24	26		24	26	31	34	6
5	22	22	25	34	21	20	20	22	20	22	25	20	22	27	30	5
4	18	18	21	31		16	16	18	15	18		16	18	24	27	4
3	14	13	17	27	12	12	12		11	14		11	14	20	23	3
2	9	9	13	24	7	8	7	10	6	10		7	10	16	20	2
1	5		8	20	3	4	3	6	2	6				12		1
0				17		0	0	3								0

Scaled score	Lateralized sensorimotor/Psychomotor comparisons															Scaled score
	TAP DH	TAP NDH	GRIP DH	GRIP NDH	PEG DH	PEG NDH	TPT DH	TPT NDH	TPT BH	SP R	SP L	SP TOT	TFR R	TFR L		
19	82	80	82	82	85	83	82	81	81				77	78	19	
18	78	76	77	77	81	79	78	77	76				73	74	18	
17	74	72	71	72	76	75	74	73	72				70	71	17	
16	70	68	66	67	72	71	70	68	68				66	67	16	
15	65	64	61	62	68	67	66	64	63			63	63	64	15	
14	61	59	56	57	64	63	62	60	59	59			59	60	14	
13	57	55	51	52	59	59	58	56	55		59	56	56	57	13	
12	53	51	46	47	55	55	53	52	50	52			52	53	12	
11	49	47	41	42	51	51	49	47	46		51	50	49	50	11	
10	45	43	36	37	47	47	45	43	41	44	47	46	45	46	10	
9	40	39	31	32	42	43	41	39	37	40	43	43	42	43	9	
8	36	35	26	27	38	39	37	35	33	37	39	40	38	39	8	
7	32	31	20	23	34	35	33	31	28	33	36	36	35	35	7	
6	28	27	15	18	30	31	29	26	24	29	32	33	31	32	6	
5	24	23	10	13	25	27	25	22	19	25	28	30	28	28	5	
4	19	19	5	8	21	23	20	18	15	22	24	27	24	25	4	
3	15	15	0	3	17	19	16	14	11	18	20	23	21	21	3	
2	11	11	0	0	13	15	12	9	6	14	16	20	17	18	2	
1	7	6	0	0	8	11	8	5	2	10	12	17	14	14	1	
0	3	2	0	0	4	7		1							0	

Note. See page 16 for a description of acronyms.

## APPENDIX D (continued)

Sex: Male  
Education: 18-20 years  
Age: 45-49 years  
Race: Caucasian

Summary scores				Executive functions					Attention/Working memory						Scaled score
Scaled score	WAIS-R FSIQ	WAIS FSIQ	AIR	CAT ERROR	TRAIL B	THUR FLU	FAS	ANIMALS	WAIS-R DIGIT SPAN	WAIS DIGIT SPAN	PASAT	DIGIT ERROR	SSHOR RHYM	SPCH PERC	
19	73		90	80	82	78	76	80	75						19
18	69	70	85	76	77	74	72	76	71	71				73	18
17	65	66	80	72	73	70	68	72			72				17
16	61	61	74	68	68	66	65	68	63		69				16
15	56	57	69	64	64	62	61	63	59	61	65	66	59	61	15
14	52	53	64	60	59	59	58	59	55	58	61		56		14
13	48	48	58	56	55	55	54	55	51	54	57	59		54	13
12	44	44	53	52	50	51	50	51	47		53	55	50	50	12
11	40	40	48	48	46	47	47	46	43	48	49	52		46	11
10	35	36	42	44	41	43	43	42	39	45	46	48	44	42	10
9	31	31	37	40	37	40	40	38		42	42	45	40	38	9
8	27	27	31	36	33	36	36	33	32	38	38	41	37	34	8
7	23	23	26	32	28	32	32	29	28		34	38	34	30	7
6	18	18	21	28	24	28	29	25	24	32	30	35	31	26	6
5	14	14	15	24	19	24	25	21	20	29	26	31	28	22	5
4	10	10	10	20	15	21	22	16	16		23	28	25	18	4
3	6	5	5	16	10	17	18	12	12	22	19	24	22	14	3
2	1	1	0	12	6	13	14	8	8		15	21	19	10	2
1	0	0	0	8	1	9	11	4		16	11	17	15	6	1
0		0	0	4				0		12	7	14	12		0

Speed of information processing					Spatial skills				Verbal/Academic skills								Scaled score
Scaled score	WAIS-R DIGIT SYMB	WAIS DIGIT SYMB	TRAIL A	DIGIT TIME	WAIS-R BLOCK DESGN	WAIS BLOCK DESGN	TPT TIME	SPAT REL	WAIS-R VOCAB	WAIS VOCAB	APHAS SCRIN	BSTN NAME	BDAE COMP	PIAT RECOG	PIAT COMP	PIAT SPELL	
19	87		86		83		82		76								19
18	83	81	81	82			78		72								18
17	79	77	77	78	75		74		68	68				66	68		17
16	75	72	72	73	71	68	70		63	63		62		62	65	64	16
15	71	68	68	69	67	64	66		59	59				59	61		15
14	67	64	63	65	63	60	62		55	54		54		55	57	56	14
13	63	59	59	61	59	56	58		51	50	61	50		51	54	52	13
12	59	55	54	57	55	52	54		47	45			53	48	50	48	12
11	55	51	50	53	51	47	50	54	43	41	53	42		44	46	44	11
10	51	46	46	49	47	43	46		38	36	49	38		40	43	40	10
9	47	42	41	45	43	39	42	43	34	31	44	34	38	37	39	36	9
8	43	38	37	41	39	35	37		30	27	40	30		33	35	32	8
7	39	33	32	37	35	31	33	31	26	22	36	26	29	29	32	28	7
6	35	29	28	33	31	27	29		22	18	32	23		26	28	24	6
5	31	25	23	29	27	23	25	20	18	13	27	19	19	22	24	20	5
4	27	20	19	25	23	19	21		13	9	23	15		18	21	16	4
3	23	16	14		19	15	17	8	9	4	19	11	9	15	17		3
2	19	12	10		15	11	13	2	5	0	15	7	5	11			2
1	15	7	6		11	6	9	0	1	0	11	3	0				1
0		3				2	5	0		0	6				6	0	0

(continued)

## APPENDIX D (continued)

Sex: Male  
Education: 18-20 years  
Age: 45-49 years  
Race: Caucasian

Scaled score	Verbal episodic memory									Visual episodic memory						Scaled score
	STORY-T1	STORY LEARN	STORY RECALL	STORY LOSS	CVLT-1	CVLT-5	CVLT-TOT	CVLT-SDFR	CVLT-LDFR	TPT MEM	TPT LOC	FIGUR-T1	FIGUR LEARN	FIGUR RECALL	FIGUR LOSS	
19	83		82		86		79				81	81	80	80		19
18	79	82	78				75				77	77	76	76		18
17	74	77	74		77		71			71		72		73		17
16	70	73	70			65	66	64	70			68	68	69		16
15	66	68	65		68		62	60			66					15
14	61	64	61	66	63	57	58	57	61		62	60	60	61		14
13	57	59	57		59		54	53		55		55	56	58	59	13
12	53	55	53	59	54	49	50	49	52		54	51	52		55	12
11	49	50	49	55	50	45	46	45	48	47	50	47	48	50	52	11
10	44	46	45	52	45	41	42	42	43		46	43	44	47	48	10
9	40	41	41	48	40	37	38	38	39	39	42	38	40	43	45	9
8	36	37	37	45	36	33	33	34	34		38	34	36	39	41	8
7	32	32	33	41	31	29	29	30	30	31	34	30	32	35	38	7
6	27	28	29	38		25	25	26	25	27		26	28	32	34	6
5	23	23	25	34	22	21	21	23	21	23	27	21	24	28	30	5
4	19	19	21	31		17	17	19	16	19		17	20	24	27	4
3	14	14	17	27	13	13	13		12	15		13	15	20	23	3
2	10	10	13	24	8	9	9	11	7	11		9	11	17	20	2
1	6		9	20	4	5	5	8	3	7				13		1
0				17		1	0	4								0

Scaled score	Lateralized sensorimotor/Psychomotor comparisons															Scaled score
	TAP DH	TAP NDH	GRIP DH	GRIP NDH	PEG DH	PEG NDH	TPT DH	TPT NDH	TPT BH	SP R	SP L	SP TOT	TFR R	TFR L		
19	83	81	83	84	87	85	83	83	83				77	78	19	
18	79	77	78	79	83	81	79	79	78				73	74	18	
17	75	73	73	74	78	77	75	74	74				70	71	17	
16	70	69	68	69	74	73	71	70	69				66	67	16	
15	66	65	63	64	70	69	67	66	65			64	63	64	15	
14	62	61	58	59	66	65	63	62	61	60			59	60	14	
13	58	57	52	54	61	61	59	57	56		60	57	56	57	13	
12	54	53	47	49	57	57	55	53	52	53			52	53	12	
11	49	49	42	44	53	53	50	49	48		52	50	49	50	11	
10	45	45	37	39	49	49	46	45	43	45	48	47	45	46	10	
9	41	40	32	34	44	45	42	41	39	41	44	44	42	43	9	
8	37	36	27	29	40	41	38	36	34	37	40	41	38	39	8	
7	33	32	22	24	36	37	34	32	30	34	37	37	35	36	7	
6	29	28	17	19	32	33	30	28	26	30	33	34	31	32	6	
5	24	24	12	14	27	29	26	24	21	26	29	31	28	29	5	
4	20	20	7	9	23	25	22	20	17	22	25	27	24	25	4	
3	16	16	1	4	19	21	18	15	12	19	21	24	21	21	3	
2	12	12	0	0	15	17	13	11	8	15	17	21	17	18	2	
1	8	8	0	0	10	13	9	7	4	11	13	18	14	14	1	
0	3	4	0	0	6	9		3							0	

Note. See page 16 for a description of acronyms.

## APPENDIX D (continued)

Sex: Male  
Education: 18-20 years  
Age: 50-54 years  
Race: Caucasian

Summary scores				Executive functions					Attention/Working memory						Scaled score
Scaled score	WAIS-R FSIQ	WAIS FSIQ	AIR	CAT ERROR	TRAIL B	THUR FLU	FAS	ANIMALS	WAIS-R DIGIT SPAN	WAIS DIGIT SPAN	PASAT	DIGIT ERROR	SSHOR RHYM	SPCH PERC	
19	73		93	82	83	78	76	82	75						19
18	69	69	88	78	79	75	73	78	71	71				74	18
17	65	65	82	74	74	71	69	73			73				17
16	61	60	77	70	70	67	65	69	63		69				16
15	56	56	72	66	65	63	62	65	59	61	66	66	60	63	15
14	52	52	66	62	61	59	58	60	55	58	62		57		14
13	48	47	61	58	57	56	55	56	51	55	58	59		55	13
12	44	43	56	54	52	52	51	52	47		54	56	50	51	12
11	40	39	50	50	48	48	47	48	43	49	50	53		47	11
10	35	34	45	46	43	44	44	43	39	45	46	49	44	43	10
9	31	30	40	42	39	40	40	39		42	43	46	41	39	9
8	27	26	34	38	34	37	37	35	32	39	39	42	38	35	8
7	23	21	29	34	30	33	33	31	28		35	39	35	31	7
6	18	17	24	30	25	29	29	26	24	32	31	35	32	27	6
5	14	13	18	26	21	25	26	22	20	29	27	32	29	23	5
4	10	9	13	22	16	21	22	18	16		23	28	25	19	4
3	6	4	7	18	12	18	19	13	12	23	20	25	22	15	3
2	1	0	2	14	8	14	15	9	8		16	22	19	12	2
1	0	0	0	10	3	10	12	5		16	12	18	16	8	1
0		0	0	6				1		13	8	15	13		0

Speed of information processing					Spatial skills				Verbal/Academic skills								Scaled score
Scaled score	WAIS-R DIGIT SYMB	WAIS DIGIT SYMB	TRAIL A	DIGIT TIME	WAIS-R BLOCK DESGN	WAIS BLOCK DESGN	TPT TIME	SPAT REL	WAIS-R VOCAB	WAIS VOCAB	APHAS SCRIN	BSTN NAME	BDAE COMP	PIAT RECOG	PIAT COMP	PIAT SPELL	
19	87		87		83		84		76								19
18	83	83	83	83			80		72								18
17	79	79	78	79	75		76		68	68				66	69		17
16	75	75	74	75	71	69	72		63	63		63		62	65	64	16
15	71	70	69	71	67	65	68		59	59				58	61		15
14	67	66	65	67	63	61	64		55	54		55		55	58	56	14
13	63	62	61	63	59	57	60		51	50	61	51		51	54	52	13
12	59	57	56	59	55	53	56		47	45			53	47	50	48	12
11	55	53	52	54	51	49	52	54	43	41	53	43		44	47	44	11
10	51	49	47	50	47	45	48		38	36	49	39		40	43	40	10
9	47	44	43	46	43	40	43	43	34	31	45	35	38	36	39	36	9
8	43	40	38	42	39	36	39		30	27	40	32		33	36	32	8
7	39	36	34	38	35	32	35	31	26	22	36	28	29	29	32	28	7
6	35	31	29	34	31	28	31		22	18	32	24		25	28	24	6
5	31	27	25	30	27	24	27	20	18	13	28	20	19	22	25	20	5
4	27	23	21	26	23	20	23		13	9	23	16		18	21	16	4
3	23	18	16		19	16	19	8	9	4	19	12	10	14	17		3
2	19	14	12		15	12	15	3	5	0	15	8	5	11			2
1	15	10	7		11	8	11	0	1	0	11	4	0				1
0		5				4	7	0		0	7				6	0	0

(continued)

## APPENDIX D (continued)

Sex: Male  
Education: 18-20 years  
Age: 50-54 years  
Race: Caucasian

Scaled score	Verbal episodic memory									Visual episodic memory						Scaled score
	STORY-T1	STORY LEARN	STORY RECALL	STORY LOSS	CVLT-1	CVLT-5	CVLT-TOT	CVLT-SDFR	CVLT-LDFR	TPT MEM	TPT LOC	FIGUR-T1	FIGUR LEARN	FIGUR RECALL	FIGUR LOSS	
19	84		82		87		80				83	82	82	81		19
18	80	83	78				76				79	78	78	77		18
17	75	79	74		78		72			72		74		73		17
16	71	74	70			66	68	66	72			70	70	69		16
15	67	69	66		69		64	62			67					15
14	62	65	62	66	64	58	60	58	63		63	61	62	62		14
13	58	60	58		60		56	54		56		57	58	58	59	13
12	54	56	54	59	55	50	51	50	54		55	53	54		55	12
11	50	51	50	55	51	46	47	47	49	48	52	48	49	51	52	11
10	45	47	46	52	46	42	43	43	45		48	44	45	47	48	10
9	41	42	42	48	42	38	39	39	40	40	44	40	41	43	45	9
8	37	38	38	45	37	34	35	35	36		40	36	37	40	41	8
7	33	33	34	41	32	30	31	32	31	32	36	32	33	36	38	7
6	28	29	29	38		26	27	28	27	28		27	29	32	34	6
5	24	24	25	35	23	22	23	24	22	24	28	23	25	28	31	5
4	20	20	21	31		19	18	20	18	20		19	21	25	27	4
3	15	15	17	28	14	15	14		13	16		15	17	21	24	3
2	11	11	13	24	9	11	10	13	9	12		10	13	17	20	2
1	7		9	21	5	7	6	9	4	8				13		1
0				17		3	2	5								0

Scaled score	Lateralized sensorimotor/Psychomotor comparisons															Scaled score
	TAP DH	TAP NDH	GRIP DH	GRIP NDH	PEG DH	PEG NDH	TPT DH	TPT NDH	TPT BH	SP R	SP L	SP TOT	TFR R	TFR L		
19	84	83	85	86	89	87	85	85	85				77	78	19	
18	80	79	80	81	85	83	81	80	80				74	75	18	
17	76	75	75	76	81	79	77	76	76				70	71	17	
16	71	70	69	71	76	75	73	72	71				66	67	16	
15	67	66	64	66	72	71	68	68	67			65	63	64	15	
14	63	62	59	61	68	67	64	64	63	61			59	60	14	
13	59	58	54	56	64	63	60	59	58		61	58	56	57	13	
12	55	54	49	51	59	59	56	55	54	53			52	53	12	
11	50	50	44	46	55	55	52	51	50		53	51	49	50	11	
10	46	46	39	41	51	51	48	47	45	46	49	48	45	46	10	
9	42	42	34	36	47	47	44	42	41	42	45	45	42	43	9	
8	38	38	29	31	42	43	40	38	36	38	41	42	38	39	8	
7	34	34	24	26	38	39	35	34	32	35	37	38	35	36	7	
6	30	30	19	21	34	35	31	30	28	31	34	35	31	32	6	
5	25	26	13	16	30	31	27	26	23	27	30	32	28	29	5	
4	21	22	8	11	25	27	23	21	19	23	26	28	24	25	4	
3	17	17	3	6	21	23	19	17	14	19	22	25	21	22	3	
2	13	13	0	1	17	19	15	13	10	16	18	22	17	18	2	
1	9	9	0	0	13	15	11	9	6	12	14	19	14	15	1	
0	4	5	0	0	8	11		4							0	

Note. See page 16 for a description of acronyms.



## APPENDIX D (continued)

Sex: Male  
Education: 18-20 years  
Age: 55-59 years  
Race: Caucasian

Summary scores				Executive functions					Attention/Working memory						Scaled score
Scaled score	WAIS-R FSIQ	WAIS FSIQ	AIR	CAT ERROR	TRAIL B	THUR FLU	FAS	ANIMALS	WAIS-R DIGIT SPAN	WAIS DIGIT SPAN	PASAT	DIGIT ERROR	SSHOR RHYM	SPCH PERC	
19	72		96	84	85	79	77	83	77						19
18	68	68	91	80	81	75	73	79	74	72				76	18
17	63	64	85	76	76	72	70	75			74				17
16	59	59	80	72	72	68	66	70	66		70				16
15	55	55	75	67	67	64	62	66	62	62	67	67	60	64	15
14	51	51	69	63	63	60	59	62	58	59	63		57		14
13	46	46	64	59	58	56	55	58	54	55	59	60		56	13
12	42	42	59	55	54	53	52	53	50		55	57	51	52	12
11	38	38	53	51	50	49	48	49	46	49	51	53		48	11
10	34	33	48	47	45	45	44	45	42	46	47	50	45	44	10
9	29	29	43	43	41	41	41	41		43	44	46	42	40	9
8	25	25	37	39	36	37	37	36	34	39	40	43	38	37	8
7	21	20	32	35	32	34	34	32	31		36	39	35	33	7
6	17	16	27	31	27	30	30	28	27	33	32	36	32	29	6
5	13	12	21	27	23	26	27	23	23	30	28	33	29	25	5
4	8	7	16	23	18	22	23	19	19		24	29	26	21	4
3	4	3	10	19	14	19	19	15	15	23	21	26	23	17	3
2	0	0	5	15	10	15	16	11	11		17	22	20	13	2
1	0	0	0	11	5	11	12	6		17	13	19	17	9	1
0		0	0	7				2		13	9	15	14		0

Scaled score	Speed of information processing				Spatial skills				Verbal/Academic skills								Scaled score
	WAIS-R DIGIT SYMB	WAIS DIGIT SYMB	TRAIL A	DIGIT TIME	WAIS-R BLOCK DESGN	WAIS BLOCK DESGN	TPT TIME	SPAT REL	WAIS-R VOCAB	WAIS VOCAB	APHAS SCRIN	BSTN NAME	BDAE COMP	PIAT RECOG	PIAT COMP	PIAT SPELL	
19	93		89		88		87		75								19
18	90	89	84	84			83		70								18
17	86	85	80	80	80		78		66	68				65	69		17
16	82	80	76	76	76	74	74		62	63		64		62	65	64	16
15	78	76	71	72	72	70	70		58	59				58	62		15
14	74	72	67	68	68	66	66		54	54		57		54	58	56	14
13	70	67	62	64	64	62	62		50	50	62	53		50	54	52	13
12	66	63	58	60	60	58	58		45	45			53	47	51	48	12
11	62	59	53	56	56	54	54	55	41	41	53	45		43	47	44	11
10	58	54	49	52	52	50	50		37	36	49	41		39	43	40	10
9	54	50	44	48	48	45	46	43	33	31	45	37	38	36	40	36	9
8	50	46	40	44	43	41	42		29	27	41	33		32	36	32	8
7	46	41	36	40	39	37	38	32	25	22	36	29	29	28	32	28	7
6	42	37	31	36	35	33	33		20	18	32	25		25	29	24	6
5	38	33	27	32	31	29	29	20	16	13	28	21	19	21	25	20	5
4	34	28	22	28	27	25	25		12	9	24	17		17	21	16	4
3	30	24	18		23	21	21	9	8	4	19	13	10	14	18		3
2	26	19	13		19	17	17	3	4	0	15	9	5	10			2
1	22	15	9		15	13	13	0	0	0	11	5	0				1
0		11				9	9	0	0	0	7				7	0	0

(continued)

## APPENDIX D (continued)

Sex: Male  
Education: 18-20 years  
Age: 55-59 years  
Race: Caucasian

Scaled score	Verbal episodic memory									Visual episodic memory						Scaled score
	STORY-T1	STORY LEARN	STORY RECALL	STORY LOSS	CVLT-1	CVLT-5	CVLT-TOT	CVLT-SDFR	CVLT-LDFR	TPT MEM	TPT LOC	FIGUR-T1	FIGUR LEARN	FIGUR RECALL	FIGUR LOSS	
19	85		82		89		82				84	84	83	81		19
18	80	84	78				78				80	80	79	77		18
17	76	80	74		80		74			74		75		74		17
16	72	75	70			68	70	67	73			71	71	70		16
15	68	71	66		70		66	63			69					15
14	63	66	62	66	66	60	61	60	64		65	63	63	62		14
13	59	61	58		61		57	56		58		58	59	59	59	13
12	55	57	54	59	57	52	53	52	55		57	54	55		55	12
11	51	52	50	56	52	48	49	48	51	50	53	50	51	51	52	11
10	46	48	46	52	47	44	45	45	46		49	46	47	48	48	10
9	42	43	42	49	43	40	41	41	42	42	45	42	43	44	45	9
8	38	39	38	45	38	36	37	37	37		42	37	39	40	41	8
7	33	34	34	42	34	32	33	33	33	34	38	33	35	36	38	7
6	29	30	30	38		28	28	29	28	30		29	31	33	34	6
5	25	25	26	35	25	24	24	26	24	26	30	25	27	29	31	5
4	21	21	22	31		20	20	22	19	22		20	23	25	27	4
3	16	16	18	28	15	16	16		15	18		16	19	21	24	3
2	12	12	14	24	11	12	12	14	10	14		12	15	18	20	2
1	8		10	21	6	8	8	11	6	10				14		1
0				17		4	4	7								0

Scaled score	Lateralized sensorimotor/Psychomotor comparisons															Scaled score
	TAP DH	TAP NDH	GRIP DH	GRIP NDH	PEG DH	PEG NDH	TPT DH	TPT NDH	TPT BH	SP R	SP L	SP TOT	TFR R	TFR L		
19	85	84	87	88	92	89	87	87	87				77	78	19	
18	81	80	82	83	87	85	82	82	82				74	75	18	
17	77	76	77	78	83	81	78	78	78				70	71	17	
16	72	72	71	73	79	77	74	74	74				67	68	16	
15	68	68	66	68	75	73	70	70	69			66	63	64	15	
14	64	64	61	63	70	69	66	66	65	62			60	61	14	
13	60	60	56	58	66	65	62	61	61		62	59	56	57	13	
12	56	56	51	53	62	61	58	57	56	55			53	53	12	
11	52	51	46	48	58	57	54	53	52		54	53	49	50	11	
10	47	47	41	43	53	53	50	49	47	47	50	49	45	46	10	
9	43	43	36	38	49	49	45	44	43	43	46	46	42	43	9	
8	39	39	31	33	45	45	41	40	39	39	42	43	38	39	8	
7	35	35	26	28	41	41	37	36	34	36	38	40	35	36	7	
6	31	31	21	23	36	37	33	32	30	32	34	36	31	32	6	
5	26	27	15	18	32	33	29	28	25	28	31	33	28	29	5	
4	22	23	10	13	28	29	25	23	21	24	27	30	24	25	4	
3	18	19	5	8	24	25	21	19	17	20	23	26	21	22	3	
2	14	15	0	3	19	21	17	15	12	17	19	23	17	18	2	
1	10	11	0	0	15	17	12	11	8	13	15	20	14	15	1	
0	6	7	0	0	11	13		6							0	

Note. See page 16 for a description of acronyms.

## APPENDIX D (continued)

Sex: Male  
Education: 18-20 years  
Age: 60-64 years  
Race: Caucasian

Summary scores				Executive functions					Attention/Working memory						Scaled score
Scaled score	WAIS-R FSIQ	WAIS FSIQ	AIR	CAT ERROR	TRAIL B	THUR FLU	FAS	ANIMALS	WAIS-R DIGIT SPAN	WAIS DIGIT SPAN	PASAT	DIGIT ERROR	SSHOR RHYM	SPCH PERC	
19	72		100	86	88	80	77	85	77						19
18	68	67	95	82	84	76	74	80	74	72				77	18
17	63	62	90	78	79	72	70	76			75				17
16	59	58	84	74	75	69	67	72	66		71				16
15	55	54	79	70	70	65	63	68	62	62	67	68	61	66	15
14	51	50	74	66	66	61	59	63	58	59	64		58		14
13	46	45	68	62	62	57	56	59	54	56	60	61		58	13
12	42	41	63	58	57	53	52	55	50		56	57	52	54	12
11	38	37	58	54	53	50	49	50	46	50	52	54		50	11
10	34	32	52	50	48	46	45	46	42	46	48	51	45	46	10
9	29	28	47	46	44	42	42	42		43	44	47	42	42	9
8	25	24	42	42	39	38	38	38	34	40	41	44	39	38	8
7	21	19	36	38	35	35	34	33	31		37	40	36	34	7
6	17	15	31	34	30	31	31	29	27	33	33	37	33	30	6
5	13	11	25	30	26	27	27	25	23	30	29	33	30	26	5
4	8	6	20	26	22	23	24	21	19		25	30	27	22	4
3	4	2	15	22	17	19	20	16	15	24	21	26	23	19	3
2	0	0	9	18	13	16	16	12	11		18	23	20	15	2
1	0	0	4	14	8	12	13	8		17	14	20	17	11	1
0		0	0	10				3		14	10	16	14		0

Scaled score	Speed of information processing				Spatial skills				Verbal/Academic skills								Scaled score
	WAIS-R DIGIT SYMB	WAIS DIGIT SYMB	TRAIL A	DIGIT TIME	WAIS-R BLOCK DESGN	WAIS BLOCK DESGN	TPT TIME	SPAT REL	WAIS-R VOCAB	WAIS VOCAB	APHAS SCRIN	BSTN NAME	BDAE COMP	PIAT RECOG	PIAT COMP	PIAT SPELL	
19	93		91		88		89		75								19
18	90	91	87	86			85		70								18
17	86	87	83	82	80		81		66	68				65	69		17
16	82	83	78	78	76	75	77		62	63		66		61	66	64	16
15	78	78	74	74	72	71	73		58	59				57	62		15
14	74	74	69	70	68	67	69		54	54		58		54	58	56	14
13	70	70	65	66	64	63	65		50	50	62	54		50	55	52	13
12	66	65	60	62	60	59	61		45	45			53	46	51	48	12
11	62	61	56	58	56	55	57	55	41	41	53	47		43	47	44	11
10	58	57	52	54	52	51	53		37	36	49	43		39	44	40	10
9	54	52	47	50	48	47	48	44	33	31	45	39	38	35	40	36	9
8	50	48	43	46	44	43	44		29	27	41	35		32	36	32	8
7	46	44	38	42	40	38	40	32	25	22	37	31	29	28	33	28	7
6	42	39	34	38	36	34	36		20	18	32	27		24	29	24	6
5	38	35	29	34	32	30	32	21	16	13	28	23	19	21	25	20	5
4	34	30	25	29	28	26	28		12	9	24	19		17	22	16	4
3	30	26	20		24	22	24	9	8	4	20	15	10	13	18		3
2	26	22	16		20	18	20	3	4	0	15	11	5	10			2
1	22	17	12		16	14	16	0	0	0	11	7	0				1
0		13				10	12	0	0	0	7				7	0	0

(continued)

## APPENDIX D (continued)

Sex: Male  
Education: 18-20 years  
Age: 60-64 years  
Race: Caucasian

Scaled score	Verbal episodic memory									Visual episodic memory						Scaled score
	STORY-T1	STORY LEARN	STORY RECALL	STORY LOSS	CVLT-1	CVLT-5	CVLT-TOT	CVLT-SDFR	CVLT-LDFR	TPT MEM	TPT LOC	FIGUR-T1	FIGUR LEARN	FIGUR RECALL	FIGUR LOSS	
19	86		83		90		84				87	85	85	82		19
18	81	85	79				80				83	81	81	78		18
17	77	81	75		81		76			76		77		74		17
16	73	76	71			70	72	69	75			73	73	70		16
15	69	72	67		72		68	65			71					15
14	64	67	63	66	67	62	64	62	66		67	64	65	63		14
13	60	63	59		63		59	58		60		60	61	59	59	13
12	56	58	54	59	58	54	55	54	57		60	56	57		56	12
11	52	53	50	56	54	50	51	50	53	52	56	52	53	52	52	11
10	47	49	46	52	49	46	47	46	48		52	47	49	48	48	10
9	43	44	42	49	44	42	43	43	44	44	48	43	45	44	45	9
8	39	40	38	45	40	38	39	39	39		44	39	41	41	41	8
7	34	35	34	42	35	34	35	35	35	36	40	35	37	37	38	7
6	30	31	30	38		30	31	31	30	32		30	32	33	34	6
5	26	26	26	35	26	26	26	28	26	28	33	26	28	29	31	5
4	22	22	22	31		22	22	24	21	24		22	24	26	27	4
3	17	17	18	28	17	18	18		17	20		18	20	22	24	3
2	13	13	14	24	12	14	14	16	12	16		13	16	18	20	2
1	9		10	21	8	10	10	12	8	12				14		1
0				17		6	6	9								0

Scaled score	Lateralized sensorimotor/Psychomotor comparisons															Scaled score
	TAP DH	TAP NDH	GRIP DH	GRIP NDH	PEG DH	PEG NDH	TPT DH	TPT NDH	TPT BH	SP R	SP L	SP TOT	TFR R	TFR L		
19	86	85	89	90	94	91	89	89	89				77	78	19	
18	82	81	84	85	90	87	85	85	85				74	75	18	
17	78	77	79	80	86	83	80	80	81				70	71	17	
16	74	73	74	75	82	79	76	76	76				67	68	16	
15	70	69	69	70	77	75	72	72	72			67	63	64	15	
14	65	65	63	65	73	71	68	68	67	63			60	61	14	
13	61	61	58	60	69	67	64	64	63		63	61	56	57	13	
12	57	57	53	55	65	63	60	59	59	56			53	54	12	
11	53	53	48	50	60	59	56	55	54		55	54	49	50	11	
10	49	49	43	45	56	55	52	51	50	48	51	51	46	47	10	
9	45	45	38	40	52	51	47	47	45	44	47	48	42	43	9	
8	40	41	33	35	48	47	43	42	41	41	43	44	39	39	8	
7	36	36	28	30	43	43	39	38	37	37	39	41	35	36	7	
6	32	32	23	25	39	39	35	34	32	33	35	38	32	32	6	
5	28	28	18	20	35	35	31	30	28	29	32	35	28	29	5	
4	24	24	12	15	31	31	27	26	24	26	28	31	25	25	4	
3	19	20	7	10	26	27	23	21	19	22	24	28	21	22	3	
2	15	16	2	5	22	23	19	17	15	18	20	25	17	18	2	
1	11	12	0	0	18	19	14	13	10	14	16	21	14	15	1	
0	7	8	0	0	14	15		9							0	

Note. See page 16 for a description of acronyms.

## APPENDIX D (continued)

Sex: Male  
Education: 18-20 years  
Age: 65-69 years  
Race: Caucasian

Summary scores				Executive functions					Attention/Working memory						Scaled score
Scaled score	WAIS-R FSIQ	WAIS FSIQ	AIR	CAT ERROR	TRAIL B	THUR FLU	FAS	ANIMALS	WAIS-R DIGIT SPAN	WAIS DIGIT SPAN	PASAT	DIGIT ERROR	SSHOR RHYM	SPCH PERC	
19	70		100	88	91	81	78	86	77						19
18	66	66	99	84	86	77	74	82	74	73				79	18
17	62	61	93	80	82	73	71	78			76				17
16	57	57	88	76	77	69	67	73	66		72				16
15	53	53	83	72	73	66	64	69	62	63	68	68	61	68	15
14	49	48	77	68	68	62	60	65	58	60	65		58		14
13	45	44	72	64	64	58	57	60	54	56	61	62		60	13
12	41	40	67	60	59	54	53	56	50		57	58	52	56	12
11	36	35	61	56	55	51	49	52	46	50	53	55		52	11
10	32	31	56	52	50	47	46	48	42	47	49	51	46	48	10
9	28	27	51	48	46	43	42	43		44	45	48	43	44	9
8	24	23	45	44	42	39	39	39	34	40	42	44	40	40	8
7	19	18	40	40	37	35	35	35	31		38	41	37	36	7
6	15	14	34	36	33	32	31	31	27	34	34	37	33	32	6
5	11	10	29	32	28	28	28	26	23	31	30	34	30	28	5
4	7	5	24	28	24	24	24	22	19		26	31	27	24	4
3	2	1	18	24	19	20	21	18	15	24	22	27	24	21	3
2	0	0	13	20	15	16	17	13	11		18	24	21	17	2
1	0	0	8	16	10	13	13	9		18	15	20	18	13	1
0		0	2	12				5		14	11	17	15		0

Scaled score	Speed of information processing				Spatial skills				Verbal/Academic skills								Scaled score
	WAIS-R DIGIT SYMB	WAIS DIGIT SYMB	TRAIL A	DIGIT TIME	WAIS-R BLOCK DESGN	WAIS BLOCK DESGN	TPT TIME	SPAT REL	WAIS-R VOCAB	WAIS VOCAB	APHAS SCRIN	BSTN NAME	BDAE COMP	PIAT RECOG	PIAT COMP	PIAT SPELL	
19	97		93		89		93		73								19
18	93	94	89	88			89		69								18
17	89	89	84	84	81		84		65	68				64	70		17
16	85	85	80	80	78	77	80		61	63		68		60	66	63	16
15	81	81	75	76	74	73	76		57	59				57	62		15
14	77	76	71	72	70	68	72		52	54		60		53	59	56	14
13	73	72	66	68	66	64	68		48	50	62	56		49	55	52	13
12	69	68	62	64	62	60	64		44	45			53	46	51	48	12
11	65	63	58	60	58	56	60	55	40	41	54	49		42	48	44	11
10	61	59	53	56	54	52	56		36	36	49	45		38	44	40	10
9	57	55	49	52	50	48	52	44	32	31	45	41	38	35	40	36	9
8	53	50	44	48	46	44	48		27	27	41	37		31	37	32	8
7	49	46	40	44	42	40	44	32	23	22	37	33	29	27	33	28	7
6	45	41	35	40	38	36	39		19	18	33	29		24	29	24	6
5	41	37	31	36	34	31	35	21	15	13	28	25	19	20	26	20	5
4	37	33	27	32	30	27	31		11	9	24	21		16	22	16	4
3	33	28	22		26	23	27	9	7	4	20	17	10	13	18		3
2	29	24	18		22	19	23	4	3	0	16	13	5	9			2
1	25	20	13		18	15	19	0	0	0	11	9	0				1
0		15				11	15	0	0	0	7				7	0	0

(continued)

## APPENDIX D (continued)

Sex: Male  
Education: 18-20 years  
Age: 65-69 years  
Race: Caucasian

Scaled score	Verbal episodic memory									Visual episodic memory						Scaled score
	STORY-T1	STORY LEARN	STORY RECALL	STORY LOSS	CVLT-1	CVLT-5	CVLT-TOT	CVLT-SDFR	CVLT-LDFR	TPT MEM	TPT LOC	FIGUR-T1	FIGUR LEARN	FIGUR RECALL	FIGUR LOSS	
19	87		83		92		87				88	87	87	82		19
18	82	86	79				83				85	83	83	78		18
17	78	82	75		83		78			78		79		75		17
16	74	77	71			72	74	71	77			74	75	71		16
15	70	73	67		74		70	68			73					15
14	65	68	63	66	69	64	66	64	68		69	66	66	63		14
13	61	64	59		65		62	60		62		62	62	60	59	13
12	57	59	55	59	60	56	58	56	59		61	57	58		56	12
11	52	55	51	56	55	52	54	53	55	54	57	53	54	52	52	11
10	48	50	47	52	51	48	50	49	50		54	49	50	49	49	10
9	44	46	43	49	46	44	45	45	46	46	50	45	46	45	45	9
8	40	41	39	45	42	40	41	41	41		46	40	42	41	41	8
7	35	36	35	42	37	36	37	37	37	38	42	36	38	37	38	7
6	31	32	31	38		32	33	34	32	34		32	34	34	34	6
5	27	27	27	35	28	28	29	30	28	30	34	28	30	30	31	5
4	23	23	23	32		24	25	26	23	26		23	26	26	27	4
3	18	18	18	28	19	21	21		19	22		19	22	22	24	3
2	14	14	14	25	14	17	17	19	14	18		15	18	19	20	2
1	10		10	21	10	13	12	15	10	14				15		1
0				18		9	8	11								0

Scaled score	Lateralized sensorimotor/Psychomotor comparisons															Scaled score
	TAP DH	TAP NDH	GRIP DH	GRIP NDH	PEG DH	PEG NDH	TPT DH	TPT NDH	TPT BH	SP R	SP L	SP TOT	TFR R	TFR L		
19	88	87	91	92	97	94	91	91	92				77	78	19	
18	84	83	86	87	93	90	87	87	88				74	75	18	
17	80	78	81	82	89	86	83	83	83				70	71	17	
16	75	74	76	77	85	82	79	79	79				67	68	16	
15	71	70	71	72	80	78	75	74	74			69	63	64	15	
14	67	66	66	67	76	74	70	70	70	65			60	61	14	
13	63	62	61	62	72	70	66	66	66		64	63	56	57	13	
12	59	58	56	57	67	66	62	62	61	57			53	54	12	
11	55	54	50	52	63	62	58	57	57		56	56	49	50	11	
10	50	50	45	47	59	58	54	53	52	50	52	53	46	47	10	
9	46	46	40	43	55	54	50	49	48	46	48	49	42	43	9	
8	42	42	35	38	50	50	46	45	44	42	44	46	39	40	8	
7	38	38	30	33	46	46	42	41	39	38	40	43	35	36	7	
6	34	34	25	28	42	42	38	36	35	35	36	40	32	33	6	
5	29	30	20	23	38	38	33	32	31	31	32	36	28	29	5	
4	25	25	15	18	33	34	29	28	26	27	29	33	25	25	4	
3	21	21	10	13	29	30	25	24	22	23	25	30	21	22	3	
2	17	17	5	8	25	26	21	20	17	19	21	26	18	18	2	
1	13	13	0	3	21	22	17	15	13	16	17	23	14	15	1	
0	9	9	0	0	16	18		11							0	

Note. See page 16 for a description of acronyms.

## APPENDIX D (continued)

Sex: Male  
Education: 18-20 years  
Age: 70-74 years  
Race: Caucasian

Summary scores				Executive functions					Attention/Working memory						Scaled score
Scaled score	WAIS-R FSIQ	WAIS FSIQ	AIR	CAT ERROR	TRAIL B	THUR FLU	FAS	ANIMALS	WAIS-R DIGIT SPAN	WAIS DIGIT SPAN	PASAT	DIGIT ERROR	SSHOR RHYM	SPCH PERC	
19	69		100	90	93	82	79	87	77						19
18	64	65	100	86	89	78	75	83	74	73				82	18
17	60	60	97	82	84	74	72	79			77				17
16	56	56	92	78	80	70	68	75	66		73				16
15	52	52	87	74	75	67	64	70	62	63	69	69	62	70	15
14	47	47	81	70	71	63	61	66	58	60	65		59		14
13	43	43	76	66	66	59	57	62	54	57	62	62		62	13
12	39	39	70	62	62	55	54	58	50		58	59	53	58	12
11	35	34	65	58	57	51	50	53	46	50	54	55		54	11
10	30	30	60	54	53	48	46	49	42	47	50	52	46	50	10
9	26	26	54	50	48	44	43	45		44	46	49	43	46	9
8	22	21	49	46	44	40	39	40	34	41	42	45	40	42	8
7	18	17	44	41	40	36	36	36	31		39	42	37	39	7
6	13	13	38	37	35	32	32	32	27	34	35	38	34	35	6
5	9	8	33	33	31	29	28	28	23	31	31	35	31	31	5
4	5	4	28	29	26	25	25	23	19		27	31	28	27	4
3	1	0	22	25	22	21	21	19	15	25	23	28	25	23	3
2	0	0	17	21	17	17	18	15	11		19	24	22	19	2
1	0	0	11	17	13	13	14	11		18	16	21	18	15	1
0		0	6	13				6		15	12	18	15		0

Scaled score	Speed of information processing				Spatial skills				Verbal/Academic skills								Scaled score
	WAIS-R DIGIT SYMB	WAIS DIGIT SYMB	TRAIL A	DIGIT TIME	WAIS-R BLOCK DESGN	WAIS BLOCK DESGN	TPT TIME	SPAT REL	WAIS-R VOCAB	WAIS VOCAB	APHAS SCRIN	BSTN NAME	BDAE COMP	PIAT RECOG	PIAT COMP	PIAT SPELL	
19	100		95		91		96		72								19
18	96	96	90	91			92		68								18
17	92	92	86	87	83		88		64	68				63	70		17
16	88	87	81	83	79	78	84		59	63		70		60	66	63	16
15	84	83	77	79	75	74	80		55	59				56	63		15
14	80	79	73	75	71	70	76		51	54		63		52	59	55	14
13	76	74	68	71	67	66	72		47	50	62	59		48	55	51	13
12	72	70	64	67	64	61	68		43	45			53	45	52	47	12
11	68	65	59	63	60	57	64	56	39	41	54	51		41	48	43	11
10	64	61	55	59	56	53	60		34	36	50	47		37	44	39	10
9	60	57	50	54	52	49	55	44	30	31	45	43	39	34	41	36	9
8	56	52	46	50	48	45	51		26	27	41	39		30	37	32	8
7	52	48	41	46	44	41	47	33	22	22	37	35	29	26	33	28	7
6	48	44	37	42	40	37	43		18	18	33	31		23	30	24	6
5	44	39	33	38	36	33	39	21	14	13	29	27	19	19	26	20	5
4	40	35	28	34	32	29	35		10	9	24	23		15	22	16	4
3	36	31	24		28	24	31	10	5	4	20	19	10	12	19		3
2	32	26	19		24	20	27	4	1	0	16	15	5	8			2
1	28	22	15		20	16	23	0	0	0	12	11	0				1
0		18				12	19	0	0	7					8	0	0

(continued)

## APPENDIX D (continued)

Sex: Male  
Education: 18-20 years  
Age: 70-74 years  
Race: Caucasian

Scaled score	Verbal episodic memory									Visual episodic memory						Scaled score
	STORY-T1	STORY LEARN	STORY RECALL	STORY LOSS	CVLT-1	CVLT-5	CVLT-TOT	CVLT-SDFR	CVLT-LDFR	TPT MEM	TPT LOC	FIGUR-T1	FIGUR LEARN	FIGUR RECALL	FIGUR LOSS	
19	88		84		94		90				90	89	88	83		19
18	83	87	79				86				86	84	84	79		18
17	79	83	75		85		81			80		80		75		17
16	75	78	71			75	77	74	80			76	76	71		16
15	70	74	67		76		73	70			75					15
14	66	69	63	66	71	67	69	66	71		71	67	68	64		14
13	62	65	59		67		65	63		64		63	64	60	59	13
12	58	60	55	59	62	59	61	59	62		63	59	60		56	12
11	53	56	51	56	58	55	57	55	57	56	59	55	56	53	52	11
10	49	51	47	53	53	51	52	51	53		55	50	52	49	49	10
9	45	47	43	49	48	47	48	48	48	48	51	46	48	45	45	9
8	41	42	39	46	44	43	44	44	44		47	42	44	42	42	8
7	36	38	35	42	39	39	40	40	39	41	44	38	40	38	38	7
6	32	33	31	39		35	36	36	35	37		33	36	34	35	6
5	28	28	27	35	30	31	32	33	30	33	36	29	32	30	31	5
4	23	24	23	32		27	28	29	26	29		25	28	27	27	4
3	19	19	19	28	21	23	24		21	25		21	24	23	24	3
2	15	15	15	25	16	19	19	21	17	21		17	20	19	20	2
1	11		11	21	12	15	15	17	12	17				15		1
0				18		11	11	14								0

Scaled score	Lateralized sensorimotor/Psychomotor comparisons															Scaled score
	TAP DH	TAP NDH	GRIP DH	GRIP NDH	PEG DH	PEG NDH	TPT DH	TPT NDH	TPT BH	SP R	SP L	SP TOT	TFR R	TFR L		
19	90	88	94	95	100	97	94	94	95				77	79	19	
18	86	84	88	90	96	93	90	90	90				74	75	18	
17	81	80	83	85	92	89	86	85	86				70	71	17	
16	77	76	78	80	88	85	82	81	82				67	68	16	
15	73	71	73	75	83	81	77	77	77			71	63	64	15	
14	69	67	68	70	79	77	73	73	73	67			60	61	14	
13	65	63	63	65	75	73	69	69	68		65	65	56	57	13	
12	61	59	58	60	71	69	65	64	64	59			53	54	12	
11	56	55	53	55	66	65	61	60	60		57	58	49	50	11	
10	52	51	48	50	62	61	57	56	55	52	53	55	46	47	10	
9	48	47	43	45	58	57	53	52	51	48	49	51	42	43	9	
8	44	43	37	40	54	53	49	47	46	44	45	48	39	40	8	
7	40	39	32	35	49	49	44	43	42	40	41	45	35	36	7	
6	35	35	27	30	45	45	40	39	38	36	37	42	32	33	6	
5	31	31	22	25	41	41	36	35	33	33	33	38	28	29	5	
4	27	27	17	20	37	37	32	31	29	29	29	35	25	26	4	
3	23	23	12	15	32	33	28	26	25	25	26	32	21	22	3	
2	19	18	7	10	28	29	24	22	20	21	22	28	18	19	2	
1	15	14	2	5	24	25	20	18	16	17	18	25	14	15	1	
0	10	10	0	0	20	21		14							0	

Note. See page 16 for a description of acronyms.



## APPENDIX D (continued)

Sex: Male  
Education: 18-20 years  
Age: 75-79 years  
Race: Caucasian

Summary scores				Executive functions					Attention/Working memory						Scaled score
Scaled score	WAIS-R FSIQ	WAIS FSIQ	AIR	CAT ERROR	TRAIL B	THUR FLU	FAS	ANIMALS	WAIS-R DIGIT SPAN	WAIS DIGIT SPAN	PASAT	DIGIT ERROR	SSHOR RHYM	SPCH PERC	
19	67		100	91	96	83	79	89	77						19
18	63	64	100	87	91	79	76	85	74	74				84	18
17	58	59	100	83	87	75	72	80			78				17
16	54	55	96	79	82	71	69	76	66		74				16
15	50	51	91	75	78	67	65	72	62	64	70	70	63	73	15
14	46	46	85	71	73	64	61	68	58	61	66		60		14
13	41	42	80	67	69	60	58	63	54	57	62	63		65	13
12	37	38	75	63	64	56	54	59	50		59	60	53	61	12
11	33	33	69	59	60	52	51	55	46	51	55	56		57	11
10	29	29	64	55	56	48	47	50	42	48	51	53	47	53	10
9	25	25	59	51	51	45	43	46		45	47	49	44	49	9
8	20	20	53	47	47	41	40	42	34	41	43	46	41	45	8
7	16	16	48	43	42	37	36	38	31		39	42	38	41	7
6	12	12	42	39	38	33	33	33	27	35	36	39	35	37	6
5	8	7	37	35	33	29	29	29	23	32	32	35	31	33	5
4	3	3	32	31	29	26	25	25	19		28	32	28	29	4
3	0	0	26	27	24	22	22	21	15	25	24	29	25	25	3
2	0	0	21	23	20	18	18	16	11		20	25	22	21	2
1	0	0	16	19	15	14	15	12		19	16	22	19	18	1
0		0	10	15				8		15	13	18	16		0

Speed of information processing					Spatial skills				Verbal/Academic skills								Scaled score
Scaled score	WAIS-R DIGIT SYMB	WAIS DIGIT SYMB	TRAIL A	DIGIT TIME	WAIS-R BLOCK DESGN	WAIS BLOCK DESGN	TPT TIME	SPAT REL	WAIS-R VOCAB	WAIS VOCAB	APHAS SCRIN	BSTN NAME	BDAE COMP	PIAT RECOG	PIAT COMP	PIAT SPELL	
19	100		96		93		100		71								19
18	99	98	92	94			97		66								18
17	95	94	88	90	85		92		62	68				62	70		17
16	91	90	83	86	81	79	88		58	63		73		59	67	63	16
15	87	85	79	82	77	75	84		54	59				55	63		15
14	83	81	74	78	73	71	80		50	54		65		51	59	55	14
13	79	76	70	74	69	67	76		46	50	62	61		48	56	51	13
12	75	72	65	70	65	63	72		41	45			53	44	52	47	12
11	71	68	61	66	61	59	68	56	37	41	54	53		40	48	43	11
10	67	63	56	61	57	54	64		33	36	50	49		37	45	39	10
9	63	59	52	57	53	50	60	45	29	31	46	45	39	33	41	35	9
8	59	55	48	53	50	46	56		25	27	41	41		29	37	31	8
7	55	50	43	49	46	42	52	33	21	22	37	37	29	26	34	27	7
6	51	46	39	45	42	38	47		17	18	33	33		22	30	23	6
5	47	42	34	41	38	34	43	22	12	13	29	30	19	18	26	20	5
4	43	37	30	37	34	30	39		8	9	25	26		15	23	16	4
3	39	33	25		30	26	35	10	4	4	20	22	10	11	19		3
2	36	29	21		26	22	31	4	0	0	16	18	5	7			2
1	32	24	16		22	17	27	0	0	0	12	14	0				1
0		20				13	23	0	0	0	8				8	0	0

(continued)

## APPENDIX D (continued)

Sex: Male  
Education: 18-20 years  
Age: 75-79 years  
Race: Caucasian

Scaled score	Verbal episodic memory									Visual episodic memory						Scaled score
	STORY-T1	STORY LEARN	STORY RECALL	STORY LOSS	CVLT-1	CVLT-5	CVLT-TOT	CVLT-SDFR	CVLT-LDFR	TPT MEM	TPT LOC	FIGUR-T1	FIGUR LEARN	FIGUR RECALL	FIGUR LOSS	
19	89		84		97		93				92	90	90	83		19
18	84	88	80				89				88	86	86	79		18
17	80	84	76		88		85			83		82		76		17
16	76	79	72			78	81	77	83			77	78	72		16
15	71	75	68		78		76	73			76					15
14	67	70	64	67	74	70	72	70	74		72	69	70	64		14
13	63	66	60		69		68	66		67		65	66	61	59	13
12	59	61	56	60	65	62	64	62	65		65	60	62		56	12
11	54	57	52	56	60	58	60	58	60	59	61	56	58	53	52	11
10	50	52	48	53	56	54	56	54	56		57	52	53	50	49	10
9	46	48	43	49	51	50	52	51	51	51	53	48	49	46	45	9
8	42	43	39	46	46	46	48	47	47		49	44	45	42	42	8
7	37	39	35	42	42	42	43	43	42	43	45	39	41	38	38	7
6	33	34	31	39		38	39	39	38	39		35	37	35	35	6
5	29	30	27	35	33	34	35	36	33	35	37	31	33	31	31	5
4	24	25	23	32		30	31	32	29	32		27	29	27	28	4
3	20	20	19	28	23	26	27		24	28		22	25	23	24	3
2	16	16	15	25	19	22	23	24	20	24		18	21	20	21	2
1	12		11	21	14	18	19	20	15	20				16		1
0				18		14	15	17								0

Scaled score	Lateralized sensorimotor/Psychomotor comparisons															Scaled score
	TAP DH	TAP NDH	GRIP DH	GRIP NDH	PEG DH	PEG NDH	TPT DH	TPT NDH	TPT BH	SP R	SP L	SP TOT	TFR R	TFR L		
19	92	89	96	97	100	100	97	97	98				77	79	19	
18	88	85	91	92	100	96	93	92	93				74	75	18	
17	84	81	86	87	95	92	89	88	89				70	72	17	
16	79	77	81	82	91	88	85	84	85				67	68	16	
15	75	73	76	77	87	84	81	80	80			73	63	65	15	
14	71	68	70	72	83	80	77	75	76	69			60	61	14	
13	67	64	65	67	78	76	72	71	71		66	67	56	57	13	
12	63	60	60	62	74	72	68	67	67	61			53	54	12	
11	58	56	55	57	70	68	64	63	63		58	60	49	50	11	
10	54	52	50	52	66	64	60	59	58	54	54	57	46	47	10	
9	50	48	45	47	61	60	56	54	54	50	50	54	42	43	9	
8	46	44	40	42	57	56	52	50	50	46	46	50	39	40	8	
7	42	40	35	37	53	52	48	46	45	42	42	47	35	36	7	
6	38	36	30	32	49	48	44	42	41	38	38	44	32	33	6	
5	33	32	25	28	44	44	39	38	36	35	34	41	28	29	5	
4	29	28	19	23	40	40	35	33	32	31	30	37	25	26	4	
3	25	24	14	18	36	36	31	29	28	27	27	34	21	22	3	
2	21	20	9	13	31	32	27	25	23	23	23	31	18	19	2	
1	17	15	4	8	27	28	23	21	19	19	19	27	14	15	1	
0	12	11	0	3	23	24		16							0	

Note. See page 16 for a description of acronyms.

## APPENDIX D (continued)

Sex: Male  
Education: 18-20 years  
Age: 80-85 years  
Race: Caucasian

Summary scores				Executive functions					Attention/Working memory						Scaled score
Scaled score	WAIS-R FSIQ	WAIS FSIQ	AIR	CAT ERROR	TRAIL B	THUR FLU	FAS	ANIMALS	WAIS-R DIGIT SPAN	WAIS DIGIT SPAN	PASAT	DIGIT ERROR	SSHOR RHYM	SPCH PERC	
19	67		100	93	99	83	80	90	77						19
18	63	62	100	89	94	80	76	86	74	74				88	18
17	58	58	100	85	90	76	73	82			79				17
16	54	54	100	81	85	72	69	78	66		75				16
15	50	49	96	77	81	68	66	73	62	64	71	71	63	76	15
14	46	45	90	73	76	64	62	69	58	61	67		60		14
13	41	41	85	69	72	61	58	65	54	58	63	64		68	13
12	37	36	79	65	68	57	55	61	50		60	60	54	64	12
11	33	32	74	61	63	53	51	56	46	52	56	57		60	11
10	29	28	69	57	59	49	48	52	42	48	52	53	48	56	10
9	25	23	63	53	54	46	44	48		45	48	50	45	52	9
8	20	19	58	49	50	42	40	43	34	42	44	47	41	48	8
7	16	15	53	45	45	38	37	39	31		40	43	38	44	7
6	12	10	47	41	41	34	33	35	27	35	37	40	35	40	6
5	8	6	42	37	36	30	30	31	23	32	33	36	32	37	5
4	3	2	37	33	32	27	26	26	19		29	33	29	33	4
3	0	0	31	29	27	23	23	22	15	26	25	29	26	29	3
2	0	0	26	25	23	19	19	18	11		21	26	23	25	2
1	0	0	21	21	19	15	15	14		19	17	22	20	21	1
0		0	15	17				9		16	14	19	17		0

Scaled score	Speed of information processing				Spatial skills				Verbal/Academic skills								Scaled score
	WAIS-R DIGIT SYMB	WAIS DIGIT SYMB	TRAIL A	DIGIT TIME	WAIS-R BLOCK DESGN	WAIS BLOCK DESGN	TPT TIME	SPAT REL	WAIS-R VOCAB	WAIS VOCAB	APHAS SCRIN	BSTN NAME	BDAE COMP	PIAT RECOG	PIAT COMP	PIAT SPELL	
19	100		98		93		100		71								19
18	99	100	94	98			100		66								18
17	95	96	89	94	85		98		62	68				61	71		17
16	91	92	85	89	81	80	94		58	63		76		58	67	63	16
15	87	88	80	85	77	76	90		54	59				54	63		15
14	83	83	76	81	73	72	86		50	54		68		50	60	55	14
13	79	79	72	77	69	68	82		46	50	63	64		46	56	51	13
12	75	75	67	73	65	64	77		41	45			53	43	52	47	12
11	71	70	63	69	61	60	73	57	37	41	54	56		39	49	43	11
10	67	66	58	65	57	56	69		33	36	50	52		35	45	39	10
9	63	62	54	61	53	52	65	45	29	31	46	48	39	32	41	35	9
8	59	57	49	57	50	48	61		25	27	42	44		28	38	31	8
7	55	53	45	53	46	43	57	34	21	22	37	40	29	24	34	27	7
6	51	49	41	49	42	39	53		17	18	33	36		21	30	23	6
5	47	44	36	45	38	35	49	22	12	13	29	32	20	17	27	19	5
4	43	40	32	41	34	31	45		8	9	25	28		13	23	15	4
3	39	36	27		30	27	41	11	4	4	21	24	10	10	19		3
2	36	31	23		26	23	37	5	0	0	16	21	5	6			2
1	32	27	18		22	19	32	0	0	0	12	17	0				1
0		23				15	28	0	0	0	8				8	0	0

(continued)

## APPENDIX D (continued)

Sex: Male  
Education: 18-20 years  
Age: 80-85 years  
Race: Caucasian

Scaled score	Verbal episodic memory									Visual episodic memory						Scaled score
	STORY-T1	STORY LEARN	STORY RECALL	STORY LOSS	CVLT-1	CVLT-5	CVLT-TOT	CVLT-SDFR	CVLT-LDFR	TPT MEM	TPT LOC	FIGUR-T1	FIGUR LEARN	FIGUR RECALL	FIGUR LOSS	
19	90		84		100		97				93	92	92	84		19
18	85	90	80				93				90	88	88	80		18
17	81	85	76		91		89			87		83		76		17
16	77	80	72			82	85	81	86			79	80	72		16
15	72	76	68		82		81	77			78					15
14	68	71	64	67	77	74	77	73	77		74	71	71	65		14
13	64	67	60		72		72	70		71		66	67	61	59	13
12	60	62	56	60	68	66	68	66	68		66	62	63		56	12
11	55	58	52	56	63	62	64	62	64	63	62	58	59	54	52	11
10	51	53	48	53	59	58	60	58	59		59	54	55	50	49	10
9	47	49	44	49	54	54	56	55	55	55	55	49	51	46	45	9
8	43	44	40	46	49	50	52	51	50		51	45	47	43	42	8
7	38	40	36	42	45	46	48	47	46	47	47	41	43	39	38	7
6	34	35	32	39		42	44	43	41	43		37	39	35	35	6
5	30	31	28	35	36	38	39	39	37	39	39	33	35	31	31	5
4	25	26	24	32		34	35	36	32	35		28	31	28	28	4
3	21	22	20	29	27	30	31		28	31		24	27	24	24	3
2	17	17	16	25	22	26	27	28	23	27		20	23	20	21	2
1	13		12	22	17	22	23	24	19	23				17		1
0			18			18	19	21								0

Scaled score	Lateralized sensorimotor/Psychomotor comparisons															Scaled score
	TAP DH	TAP NDH	GRIP DH	GRIP NDH	PEG DH	PEG NDH	TPT DH	TPT NDH	TPT BH	SP R	SP L	SP TOT	TFR R	TFR L		
19	95	90	99	100	100	100	100	100	100				77	79	19	
18	90	86	94	95	100	100	97	96	97				74	75	18	
17	86	82	88	90	99	96	93	91	93				70	72	17	
16	82	78	83	85	95	92	89	87	88				67	68	16	
15	78	74	78	80	91	88	85	83	84			76	63	65	15	
14	74	70	73	75	87	84	81	79	79	71			60	61	14	
13	70	65	68	70	82	80	76	75	75		67	70	56	58	13	
12	65	61	63	65	78	76	72	70	71	64			53	54	12	
11	61	57	58	60	74	72	68	66	66		59	63	49	51	11	
10	57	53	53	55	70	68	64	62	62	56	55	60	46	47	10	
9	53	49	48	50	65	64	60	58	57	52	51	57	42	44	9	
8	49	45	43	45	61	60	56	53	53	48	47	53	39	40	8	
7	44	41	37	40	57	56	52	49	49	45	43	50	35	36	7	
6	40	37	32	35	52	52	48	45	44	41	39	47	32	33	6	
5	36	33	27	30	48	48	43	41	40	37	35	44	28	29	5	
4	32	29	22	25	44	44	39	37	36	33	32	40	25	26	4	
3	28	25	17	20	40	40	35	32	31	30	28	37	21	22	3	
2	24	21	12	15	35	36	31	28	27	26	24	34	18	19	2	
1	19	17	7	10	31	32	27	24	22	22	20	30	14	15	1	
0	15	12	2	5	27	28		20							0	

Note. See page 16 for a description of acronyms.