

Supplementary Material

Table 1. Differences between the Mex-Cog and the Chile-Cog HCAP batteries

	Mex-Cog	Chile-Cog
MMSE	What time is it now?	It wasn't asked
	It wasn't asked	Season
	It wasn't asked	Street
	It wasn't asked	Floor
	It wasn't asked	Say "1-3-5-7-9" backwards
	What's this? Shoe	What's this? Watch
	Only close your eyes	Raise your hand and Close your eyes
	Copy figures: pentagons	Copy figure: circles and pentagons
HCAP	Backward count from 20	Backward count from 100
	Same long story, but adapted to local context (for example: Guadalajara vs. Santiago; \$520 vs. \$18.300)	
Mental health	CES-D scale	Geriatric Depressive Scale
	No loneliness	UCLA Loneliness Scale
Informant	No Pfeffer Test	Pfeffer Test
	Mex-Cog asked about the ability to handle money and household chores.	Chile-Cog asked this in the Pfeffer, so wording and categories are not exact

Table 2. Tasks of Cognitive Assessment, Scores, and Missing Values by Cognitive Domain: Respondent Questionnaire

Domain	Task	Number of total possible elements	Maximum score possible	Valid		Missing values					
						Total	Skip patterns	Unknown reason for missing	Hearing, visual or physical limitations, and cannot read/write	Refused/DK	
				N°	%						
Orientation	1. Day of the month*	1	1	2,005	98.6	28	1.4	0.2	0.1	0.0	1.0
	2. Month*	1	1	1,982	97.5	51	2.5	0.2	0.0	0.0	2.3
	3. Year*	1	1	1,997	98.2	36	1.8	0.2	0.1	0.0	1.4
	4. Day of the week*	1	1	1,975	97.1	58	2.9	0.2	0.0	0.0	2.6
	5. Season of the year*	1	1	1,883	92.6	150	7.4	0.2	0.0	0.0	7.1
	6. Place*	1	1	1,990	97.9	43	2.1	0.2	0.0	0.0	1.9
	7. Country*	1	1	1,987	97.7	46	2.3	0.2	0.0	0.0	2.0
	8. Region or community*	1	1	1,979	97.3	54	2.7	0.2	0.0	0.0	2.4
	9. Street*	1	1	1,971	97.0	62	3.0	0.2	0.0	0.0	2.8
	10. Floor*	1	1	1,968	96.8	65	3.2	0.2	0.0	0.0	3.0
	11. Street address*	1	1	1,976	97.2	57	2.8	0.0	0.0	0.0	2.8
Immediate memory	1. Immediate recall of 3 words*	3	3	1,997	98.2	36	1.8	0.2	0.0	0.0	1.5
	2. Immediate recall of 10 words (3 attempts)*	30	30	1,970	96.9	63	3.1	0.0	2.3	0.2	0.6
	3. Immediate recall of short story	6	12	1,918	94.3	115	5.7	2.7	2.5	0.0	0.5
	4. Immediate recall of long story	25	50	1,935	95.2	98	4.8	2.7	1.6	0.0	0.6
Delayed memory	1. Delayed memory of 3 words*	3	3	1,661	81.7	372	18.3	0.2	0.0	0.0	18.1
	2. Delayed memory of 10 words*	10	10	1,684	82.8	349	17.2	0.0	11.3	0.2	5.7
	3. Delayed memory of short story	6	12	1,853	91.1	180	8.9	2.7	5.3	0.0	0.9
	4. Delayed memory of long story	25	50	1,884	92.7	149	7.3	2.7	4.1	0.0	0.6
	5. Recall by recognition of 10 words	20	20	1,765	86.8	268	13.2	2.7	0.6	0.0	9.9
	6. Delayed memory of 4 figures	4	11	1,751	86.1	282	13.9	2.7	7.0	2.5	1.7
Attention	1. Visual scan*	1	60	1,760	86.6	273	13.4	0.0	0.5	12.7	0.1
	2. Backward count*	1	100	1,913	94.1	120	5.9	0.0	5.9	0.0	0.0
Language	1. Following instructions in 3 steps*	3	3	1,981	97.4	52	2.6	0.2	0.3	1.3	0.7
	2. Following instructions in 2 steps*	2	2	2,002	98.5	31	1.5	0.0	0.0	0.7	0.8

Domain	Task	Number of total possible elements	Maximum score possible	Valid		Missing values					
				N°	%	Total		Skip patterns	Unknown reason for missing	Hearing, visual or physical limitations, and cannot read/write	Refused/DK
						N°	%				
	3. Naming Watch*	1	1	1,781	87.6	252	12.4	0.2	0.0	11.7	0.4
	4. Naming Pencil*	1	1	1,779	87.5	254	12.5	0.2	0.0	11.7	0.5
	5. Naming Elbows*	1	1	1,780	87.6	253	12.4	0.0	0.0	11.7	0.7
	6. Defining Bridge*	1	1	1,979	97.3	54	2.7	0.0	0.0	0.0	2.7
	7. Hammer use*	1	1	2,006	98.7	27	1.3	0.0	0.0	0.0	1.3
	8. Scissors use*	1	1	1,998	98.3	35	1.7	0.0	0.0	0.0	1.7
	9. Repetition*	1	1	1,999	98.3	34	1.7	0.2	0.0	0.0	1.4
	10. Reading*	1	1	1,727	84.9	306	15.1	0.2	0.0	14.3	0.5
	11. Writing*	1	1	1,478	72.7	555	27.3	0.2	0.0	23.7	3.4
Constructional praxis	1. Copy of 2 figures*	1	1	1,677	82.5	356	17.5	0.2	0.0	16.4	0.9
	2. Copy of 4 figures	4	11	1,823	89.7	210	10.3	2.7	0.7	3.5	3.4
Executive function	1. Numeric ability*	5	5	1,788	87.9	245	12.1	0.2	0.0	0.0	11.8
	2. Verbal fluency*	1	4	1,997	98.2	36	1.8	0.0	0.8	0.1	0.8
	3. Symbols and digits	1	56	1,846	90.8	187	9.2	2.7	2.7	3.2	0.6
	4. Similarities	3	3	1,801	88.6	232	11.4	2.7	0.6	0.0	8.1
	5. Go no go	10	10	1,927	94.8	106	5.2	2.7	2.2	0.0	0.4

Notes:

- (1) The missing values include: doesn't know, refused and short questionnaire due to MMSE score, among other cases.
- (2) For each domain, a missing value was assigned if at least one of the tasks of the domain has a missing value. The same was done for the total instrument.
- (3) Categories for missing values may not sum to total due to rounding.
- (4) Items marked with ‘*’ are included in the shortened cognitive battery.

Table 3. Summary scores for the various domains from the respondent questionnaire

Variable	Obs.	Mean	Std. dev	Min	Max
Mini-Mental State Examination (MMSE)	2,028	25.2	5.0	0	30
Orientation	1,803	10.4	0.9	4	11
Immediate memory	1,889	42.0	13.3	9	91
Delayed memory	1,248	52.9	14.3	18	96
Attention	1,690	49.7	22.4	0	118
Language	1,465	13.4	1.0	5	14
Constructional Praxis	1,614	8.7	2.5	1	12
Executive function	1,560	56.4	18.9	3	110
Total cognitive score	892	255.1	51.9	112	391

Table 4. Tasks of Cognitive Assessment, Scores, and Missing Values by Cognitive Domain: Informant Questionnaire

Domain	Task	Number of total possible elements	Maximum score possible	Valid		Missing	
				Nº	%	Nº	%
Pfeffer Test*	1. Able to handle money	1	3	278	99.6	1	0.4
	2. Able to shop for groceries or clothes	1	3	279	100.0	0	0.0
	3. Able to heat water for coffee or tea	1	3	278	99.6	1	0.4
	4. Able to prepare food	1	3	278	99.6	1	0.4
	5. Able to keep up with events	1	3	279	100.0	0	0.0
	6. Able to pay attention and understand a radio, TV show or newspaper article	1	3	278	99.6	1	0.4
	7. Able to remember family events	1	3	278	99.6	1	0.4
	8. Able to handle medicine	1	3	278	99.6	1	0.4
	9. Able to walk around the neighborhood and find home	1	3	278	99.6	1	0.4
	10. Able to adequately greet people	1	3	279	100.0	0	0.0
	11. Able to stay home alone	1	3	279	100.0	0	0.0
Subtotal score		11	33	276	98.9	3	1.1
Cognitive decline	1. Change in daily activities	3	3	1,775	99.8	3	0.2
	2. Decline in mental ability	1	1	1,769	99.5	9	0.5
	3. Serious problems to remember	1	1	1,772	99.7	6	0.3
	4. Forgets where he/she puts things	2	2	1,776	99.9	2	0.1
	5. Forgets where things are kept	2	2	1,775	99.8	3	0.2
	6. Forgets friends' names	2	2	1,768	99.4	10	0.6
	7. Forgets family members' names	2	2	1,772	99.7	6	0.3
	8. Forgets what was about to say in a conversation	2	2	1,775	99.8	3	0.2
	9. Forgets words while speaking	2	2	1,773	99.7	5	0.3
	10. Uses wrong/incorrect words	2	2	1,774	99.8	4	0.2
	11. Talks about things that happened in the past	2	2	1,773	99.7	5	0.3
	12. Forgets when the last time was he/she saw you	2	2	1,771	99.6	7	0.4
	13. Forgets what he/she did the day before	2	2	1,762	99.1	16	0.9
	14. Forgets where he/she is	2	2	1,773	99.7	5	0.3
	15. Gets lost in the neighborhood	2	2	1,770	99.6	8	0.4
	16. Gets lost at home	2	2	1,774	99.8	4	0.2
	17. Difficulties adjusting to changes in daily routine	2	2	1,773	99.7	5	0.3
	18. Changes in the ability to think/reason	1	1	1,776	99.9	2	0.1
	19. Confuses friends or relatives with other people	1	1	1,772	99.7	6	0.3
	20. Difficulties making everyday decisions	1	1	1,771	99.6	7	0.4
	21. Confusing or illogical thinking	1	1	1,771	99.6	7	0.4
Subtotal score		37	37	1,703	95.8	75	4.2
Functional decline	1. Stopped doing usual activities or hobbies	1	1	1,772	99.7	6	0.3
	2. Ability to eat	2	2	1,778	100.0	0	0.0
	3. Ability to get dressed	2	2	1,778	100.0	0	0.0
	4. Difficulties controlling urine	2	2	1,723	96.9	55	3.1

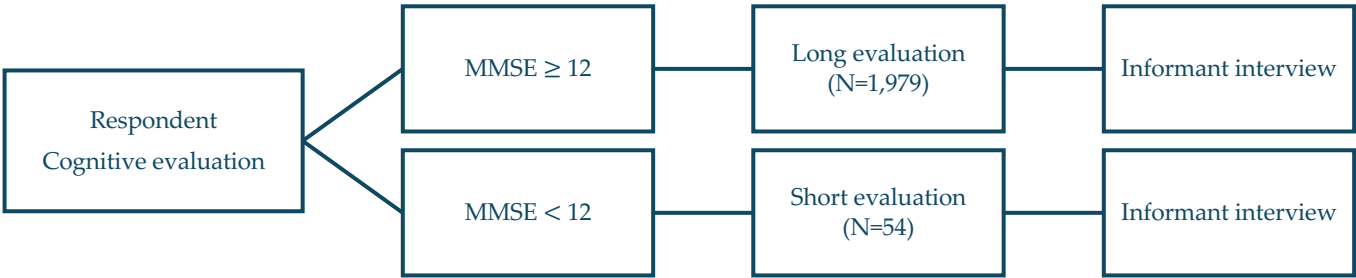
Domain	Task	Number of total possible elements	Maximum score possible	Valid		Missing	
				Nº	%	Nº	%
	5. Difficulties controlling bowel movement	2	2	1,728	97.2	50	2.8
	Subtotal score	11	11	1,712	96.3	66	3.7
Total score		48	48	1,643	92.4	135	7.6

Notes:

* The Pfeffer Test was only answered by informants interviewed in person.

Figure 1. Flowchart for respondent interview protocol

PANEL A



PANEL B

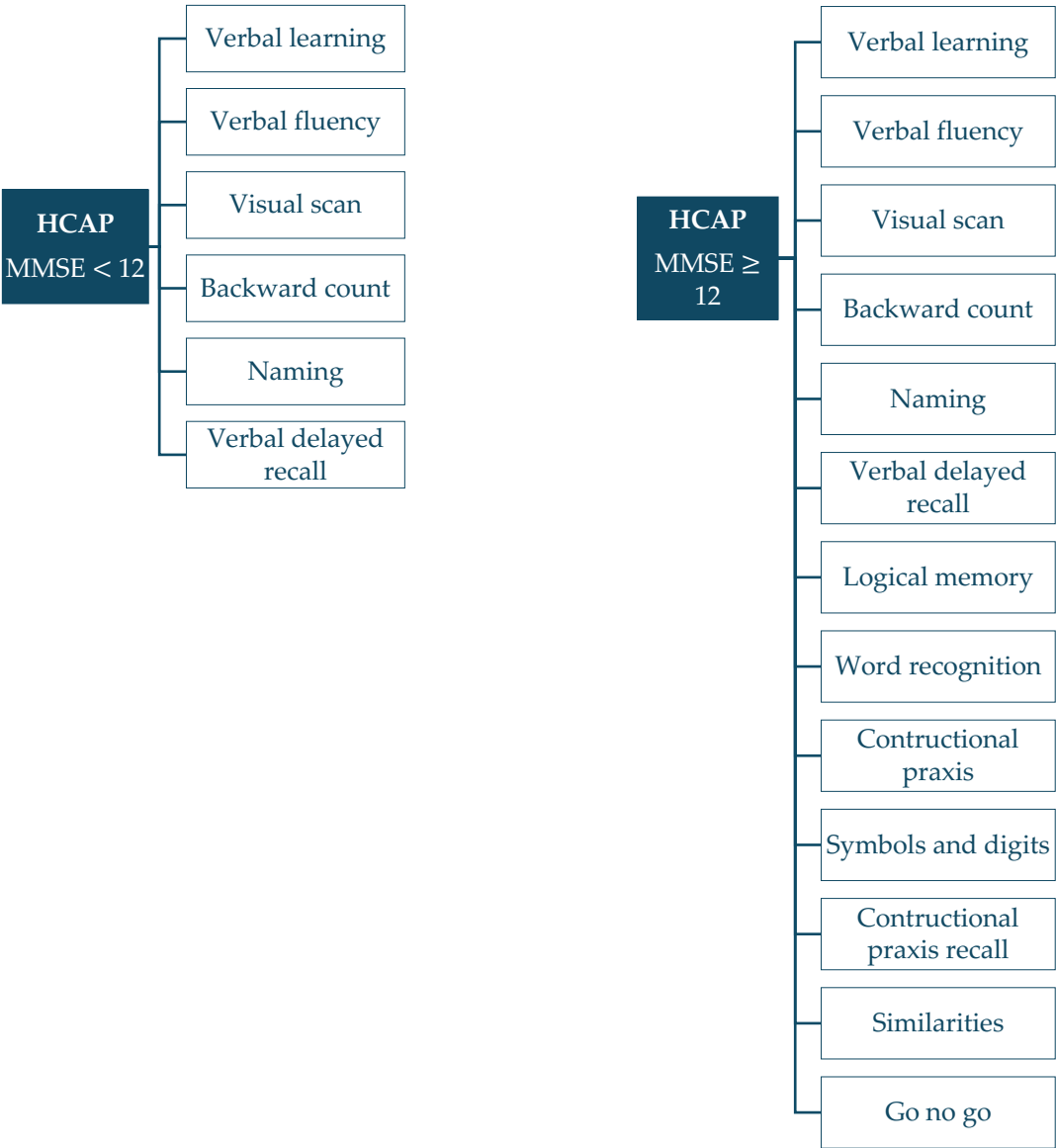


Figure 2. Flowchart with informant interview protocol

