



**Centro UC**  
Encuestas y Estudios  
Longitudinales



# HEALTH AND COGNITION AMONG OLDER ADULTS 2019: CHILE-COG

## Respondent's Questionnaire

### INTRODUCTORY SECTION: RESPONDENT AND HOUSEHOLD IDENTIFICATION

Please, can you tell me the name of the other people that live here with you?

**INTERVIEWER:** Ask for the first name, gender and age of each member of the household.

	Name	Sex	Age
1			
2			
3			
4			
5			
6			
7			
8			
9			
10			

### SECTION A: FILTER

D1. **INTERVIEWER:** Mark all severe impairments of the respondent.

- Hearing impairment
- Visual impairment
- Physical or motor impairment
- None

D2. **INTERVIEWER:** CARDS. Show CARD 1.

I would like you to tell me where do you see a five-point star. You can use your glasses if needed.

- Correct
- Incorrect
- Cannot hear, even speaking louder
- Refused

D3. **INTERVIEWER:** Have a PENCIL and give page 1 of the BOOKLET to the respondent.

I want you to write on this paper, the following sentence: "The man walks".

- Correct
- Incorrect
- Refused

**INTERVIEWER:** TAKE A PICTURE OF THE PAGE AND CONTINUE

## SECTION 1: MINI-MENTAL STATE EXAMINATION (MMSE)

**Q1.a. What is today's date? Please tell me the day, month and year.**

① **INTERVIEWER:** Do not allow the respondent to consult a calendar, cell phone or anything else. Register the spontaneous answer.

a. **Day:**

- Doesn't know  
 Refused

b. **Month:**

- January  
 February  
 March  
 April  
 May  
 June  
 July  
 August  
 September  
 October  
 November  
 December  
 Doesn't know  
 Refused

c. **Year:**

- Doesn't know  
 Refused

**Q1.b. What day of the week is it?**

① **INTERVIEWER:** Mark the day of the week said by the respondent.

- Monday  
 Tuesday  
 Wednesday  
 Thursday  
 Friday  
 Saturday  
 Sunday  
 Doesn't know  
 Refused

**Q2. What season of the year are we in?**

① **INTERVIEWER:** Mark the season said by the respondent.

- Winter  
 Spring  
 Summer  
 Fall  
 Doesn't know  
 Refused

**Q3. Where are we right now?**

① **INTERVIEWER:** The respondent should name the physical place where both of you are located, for example, the house, the bedroom, the garden, etc. It is marked as correct if the answer corresponds to reality. If the respondent says the address, the answer is marked as correct. If the respondent names the neighborhood, ask the question again.

- Correct  
 Incorrect  
 Doesn't know  
 Refused

**Q4. What country are we in?**

- Correct  
 Incorrect  
 Doesn't know  
 Refused

**Q5.a. What region are we in?**

- Correct  
 Incorrect  
 Doesn't know  
 Refused

**Q5.b. What commune are we in?**

- Correct  
 Incorrect  
 Doesn't know  
 Refused

**Q6. What street are we on?**

- Correct
- Incorrect
- Doesn't know
- Refused

**Q7. What floor are we on?**

1 **INTERVIEWER:** *The respondent may be confused by the question if you are in a one-floor house. If this is the case, ask: "So, if this house has one floor, what floor are we on?"*

- Correct
- Incorrect
- Doesn't know
- Refused

**Q8. I am going to mention three objects, when I finish I want you to please repeat them. The order in which you repeat them does not matter:**

1 **INTERVIEWER:** *Read the objects slowly: one word each second. If the respondent makes a mistake, repeat the object again up to 5 times. Mark the correct objects in each repetition.*

1 **Attempt 1: The objects are: TREE - TABLE - AIRPLANE**  
 1 **Mark the objects mentioned by the respondent.**

- Tree
- Table
- Airplane
- Doesn't know
- Refused

1 **Attempt 2: The objects are: TREE - TABLE - AIRPLANE**  
 1 **Mark the objects mentioned by the respondent.**

- Tree
- Table
- Airplane
- Doesn't know
- Refused

1 **Attempt 3: The objects are: TREE - TABLE - AIRPLANE**  
 1 **Mark the objects mentioned by the respondent.**

- Tree
- Table
- Airplane
- Doesn't know
- Refused

1 **Attempt 4: The objects are: TREE - TABLE - AIRPLANE**  
 1 **Mark the objects mentioned by the respondent.**

- Tree
- Table
- Airplane
- Doesn't know
- Refused

1 **Attempt 5: The objects are: TREE - TABLE - AIRPLANE**  
 1 **Mark the objects mentioned by the respondent.**

- Tree
- Table
- Airplane
- Doesn't know
- Refused

1 **INTERVIEWER:** *Once the respondent repeats the three words correctly, the interviewer can continue with the questionnaire.*

Q9. 1 **INTERVIEWER:** *GIVE THE EXAMPLE TO THE RESPONDENT.*

**We will do an exercise: please, say backwards the following numbers: 2,3,4,5,6,7,8**

1 *Take a one-second pause between both numbers.*  
 1 **INTERVIEWER:** *The example is repeated up to three times for the respondent to understand the exercise (until the respondent says: 8,7,6,5,4,3,2).*

- Correct
- Incorrect ➔ **Skip to question 9b**

**OBSERVATIONS**

Q9.A. 1 Use page 1 of the booklet to write down the respondent's answers.

1 INTERVIEWER: Read slowly the instruction once, with a one-second pause between each number. Don't say words like "and", "the", etc. Stop the respondent once (he/she) says the fifth number. If the respondent says a sixth number before stopping, write it down.

I will tell you some numbers, and I want you to repeat them backwards:

1 - 3 - 5 - 7 - 9

1 Use page 1 of the booklet to write down the respondent's answers. Afterwards, copy the answers to the cellphone.

- First number
- Second number
- Third number
- Fourth number
- Fifth number
- Sixth number

1 If the respondent does not answer, leave the question blank and continue to the next screen.

1 Why didn't the respondent answer the previous question?

- Could not do it
- Refused

Q9.B. 1 Use the **TIMER** and page 1 of the booklet to write down the respondent's answers.

Please subtract 7 from 100. You will do this exercise 5 times... 100 minus 7, minus 7; like this 5 times.

1 INTERVIEWER: Start the **TIMER** when the respondent begins the exercise. Write down each number said by the respondent in page 1 of the booklet. Stop the respondent once the time is up and type the answers to the cellphone.

- First number
- Second number
- Third number
- Fourth number
- Fifth number

1 If the respondent does not answer, leave the question blank and continue to the next screen.

1 Why didn't the respondent answer the previous question?

- Could not do it
- Refused

Q10. 1 Use the **TIMER** and a pencil, and detach page 2 of the booklet.

I will now give you a set of instructions. Please follow them in the order in which they are given. I will only give the instructions once.

Take this paper with your right hand, fold it in half and place the folded piece of paper on your legs.

1 INTERVIEWER: Give page 2 of the booklet and mark each action performed correctly. Give the paper without intending to be received by the right hand. If the respondent is standing, change the instruction from "place the folded piece of paper on your legs" to "on the floor". Start the **TIMER** when the respondent begins the exercise and stop (him/her) once the time is up.

1 Time limit: 30 seconds.

- Take this paper with your right hand
- Fold it in half
- Place it on your legs/on the floor
- Does not perform the three actions correctly
- Physical impairment
- Doesn't know
- Refused

Q11. Do you remember the name of the objects I mentioned a few minutes ago and asked you to repeat? Tell me which they were.

1 INTERVIEWER: Mark the correct answers; even though, the respondent may say them in the incorrect order.

- Tree
- Table
- Airplane
- Doesn't know
- Refused

Q12. 1 CARDS. Show CARD 2 (watch) and ask:

What is this?

1 INTERVIEWER: Mark if the answer given by the respondent is correct or incorrect.

- Correct
- Incorrect
- Visual impairment
- Doesn't know
- Refused

Q13. **1** CARDS. Show CARD 3 (pencil) and ask:

**What is this?**

**1** INTERVIEWER: Mark if the answer given by the respondent is correct or incorrect.

- Correct
- Incorrect
- Visual impairment
- Doesn't know
- Refused

Q14. **1** INTERVIEWER: Read slowly and allow one attempt.

**Now, I will say a phrase that you will have to repeat after me. I can only say it once, so play close attention: "Three dogs in a wheat field".**

- Correct
- Incorrect
- Doesn't know
- Refused

Q15.A. **1** CARDS. Show CARD 4.

**Please, read what it is written on this paper and do what it says. You can wear your glasses if needed.**

**1** INTERVIEWER: Show the respondent Card 4 that reads "CLOSE YOUR EYES".

- Correct
- Incorrect
- Visual impairment
- Doesn't know how to read
- Doesn't know
- Refused

Q15.B. **1** CARDS. Show CARD 5.

**Please, look at this image and do what the person is doing. You can wear your glasses if needed.**

**1** INTERVIEWER: Show the respondent Card 5 with the image of a person "RAISING THE HANDS".

- Correct
- Incorrect
- Visual impairment
- Doesn't know
- Refused

Q16. **1** BOOKLET page 3, PENCIL and the TIMER.

**Please, write a complete sentence in this paper.**

**1** INTERVIEWER: Hand page 3 of the BOOKLET. The answer is correct if the sentence has a verb and it makes sense. Don't consider the spelling and verbal conjugation. Stop the respondent when the time is up.

**1** Time limit: 30 seconds.

- Correct
- Incorrect
- Doesn't know how to write
- Physical impairment
- Doesn't know
- Refused

**1** TAKE A PICTURE OF PAGE 3 AND CONTINUE.

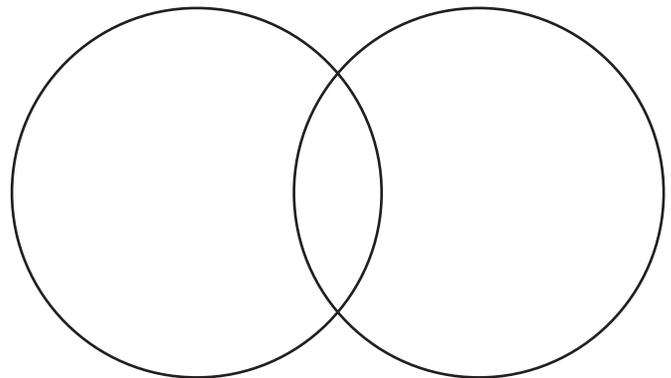
Q17.A. **1** BOOKLET page 4, PENCIL and use the TIMER.

**1** INTERVIEWER: Show the respondent the picture of the circles (BOOKLET page 4). The action is correct if the circles don't cross more than half. Stop the respondent when the TIMER time is up.

**Please, copy the next image in this paper.**

**1** Time limit: 60 seconds.

17A. CIRCLES (Page 4 BOOKLET)



- Correct
- Incorrect
- Visual impairment
- Physical impairment
- Doesn't know
- Refused

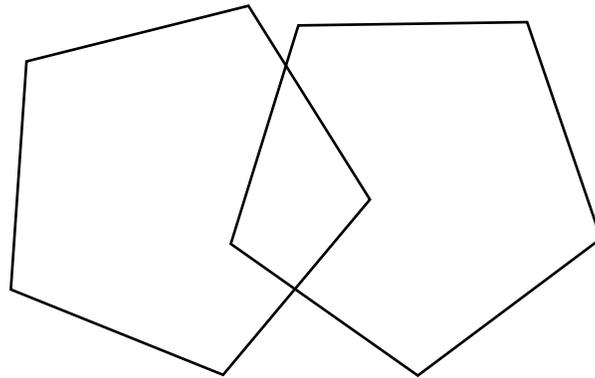
**1** TAKE A PICTURE OF PAGE 4 AND CONTINUE.

17.B. **BOOKLET page 5, PENCIL and the TIMER.**

**INTERVIEWER:** Show the respondent the picture of the pentagons (**BOOKLET page 4**). The action is correct if the pentagons' intersection to form a four-sided figure. Stop the respondent when the **TIMER** time is up.

**Please, copy the next image in this paper.**

Q17B. **PENTAGONS (Page 5 BOOKLET)**



- Correct
- Incorrect
- Visual impairment
- Physical impairment
- Doesn't know
- Refused

**TAKE A PICTURE OF PAGE 5 AND CONTINUE.**

## SECTION 2: WORD RECALL

Q18. **First attempt**

**Now I am going to read aloud a list of words. Please listen carefully since I am going to ask you to repeat them once I have finished.**

**INTERVIEWER:** Read the ten words aloud, **pausing one (1) second after each word**. Mark the words that are repeated correctly.

**Butter - Arm - Letter - Queen - Ticket - Grass - Corner - Stone - Book - Cane**

**If the respondent doesn't start spontaneously, say:**

**Now, please, tell me all the words you can remember. It doesn't matter the order in which you say them.**

**INTERVIEWER:** Mark the words that are repeated correctly.

- |                                 |                                  |
|---------------------------------|----------------------------------|
| <input type="checkbox"/> Butter | <input type="checkbox"/> Corner  |
| <input type="checkbox"/> Arm    | <input type="checkbox"/> Stone   |
| <input type="checkbox"/> Letter | <input type="checkbox"/> Book    |
| <input type="checkbox"/> Queen  | <input type="checkbox"/> Cane    |
| <input type="checkbox"/> Ticket | <input type="checkbox"/> Refused |
| <input type="checkbox"/> Grass  |                                  |

Q19. **Second attempt**

**Thank you. Now I will repeat the words once more. Again, please listen carefully, since I am going to ask you to repeat them once I have finished.**

**INTERVIEWER:** Read the ten words aloud, **pausing one (1) second after each word**. Mark the words that are repeated correctly.

**Butter - Arm - Letter - Queen - Ticket - Grass - Corner - Stone - Book - Cane**

**If the respondent doesn't start spontaneously, say:**

**Now, please, tell me all the words you can remember. It doesn't matter the order in which you say them.**

**INTERVIEWER:** Mark the words that are repeated correctly

- |                                 |                                  |
|---------------------------------|----------------------------------|
| <input type="checkbox"/> Butter | <input type="checkbox"/> Corner  |
| <input type="checkbox"/> Arm    | <input type="checkbox"/> Stone   |
| <input type="checkbox"/> Letter | <input type="checkbox"/> Book    |
| <input type="checkbox"/> Queen  | <input type="checkbox"/> Cane    |
| <input type="checkbox"/> Ticket | <input type="checkbox"/> Refused |
| <input type="checkbox"/> Grass  |                                  |

Q20. **🕒** *Third attempt*

**Thank you. Now I will repeat the words once more. Again, please listen carefully, since I am going to ask you to repeat them once I have finished.**

**🕒 INTERVIEWER:** *Read the ten words aloud, **pausing one (1) second after each word**. Mark the words that are repeated correctly.*

**Butter – Arm – Letter – Queen – Ticket – Grass – Corner – Stone – Book – Cane**

**🕒** *If the respondent doesn't start spontaneously, say:*

**Now, please, tell me all the words you can remember. It doesn't matter the order in which you say them.**

**🕒 INTERVIEWER:** *Mark the words that are repeated correctly.*

<input type="checkbox"/> Butter	<input type="checkbox"/> Corner
<input type="checkbox"/> Arm	<input type="checkbox"/> Stone
<input type="checkbox"/> Letter	<input type="checkbox"/> Book
<input type="checkbox"/> Queen	<input type="checkbox"/> Cane
<input type="checkbox"/> Ticket	<input type="checkbox"/> Refused
<input type="checkbox"/> Grass	

## SECTION 3: SEMANTIC VERBAL FLUENCY

Q21. **🕒** *Use **page 6** of the **BOOKLET** and **PENCIL**, and the **TIMER**.*

**Think of all the animals that you know; animals that live on land, water, in trees, the rainforest, all animals. I want you to name as many animals as you can. You will have one minute.**

**🕒 INTERVIEWER:** *Write down the names of all animals mentioned, even if they are repeated. Give one minute. If the respondent stops, **ask them to continue**. If the respondent pauses longer than 15 seconds repeat the instructions (**please name all the animals that come to mind**). Do not give more than one minute even if the instructions are repeated.*

**🕒 NOTE:** *When the interview finishes, you will have time to check your calligraphy and re-write the answers. Do not stop to improve your calligraphy while the respondent is answering the exercise.*

**Are you ready? Let's begin**

**🕒** *Begin the **TIMER** when the respondent names the first animal. Time limit: 60 seconds.*

1	<input type="text"/>	13	<input type="text"/>	25	<input type="text"/>
2	<input type="text"/>	14	<input type="text"/>	26	<input type="text"/>
3	<input type="text"/>	15	<input type="text"/>	27	<input type="text"/>
4	<input type="text"/>	16	<input type="text"/>	28	<input type="text"/>
5	<input type="text"/>	17	<input type="text"/>	29	<input type="text"/>
6	<input type="text"/>	18	<input type="text"/>	30	<input type="text"/>
7	<input type="text"/>	19	<input type="text"/>	31	<input type="text"/>
8	<input type="text"/>	20	<input type="text"/>	32	<input type="text"/>
9	<input type="text"/>	21	<input type="text"/>	33	<input type="text"/>
10	<input type="text"/>	22	<input type="text"/>	34	<input type="text"/>
11	<input type="text"/>	23	<input type="text"/>	35	<input type="text"/>
12	<input type="text"/>	24	<input type="text"/>	36	<input type="text"/>

**Number of animals named:**

**🕒** *TAKE A PICTURE OF PAGE 6 AND CONTINUE.*

# SECTION 4: VISUAL ROUTE

🕒 **CARDS**, show **CARD 6**; **BOOKLET**, use **page 7**; use a **PENCIL and RED PEN** and use the **TIMER**.

Q22. Please, find all the figures that look exactly as the image on the next page (Blue: Card 6). Find as many as you can and draw a circle around all the figures that look like this and do as I am doing now.

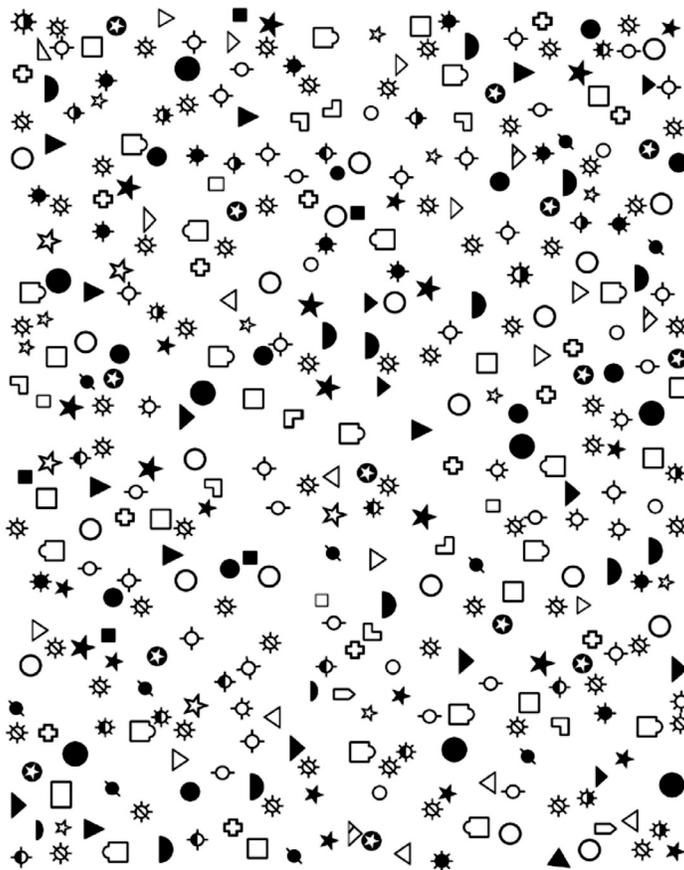
🗣️ **INTERVIEWER**: with a **red pen** circle a figure in the center of the page as an example.

Only circle the figures that look exactly like this one. Work as fast as you can until I tell you to stop.

🕒 **INTERVIEWER**: Start the **TIMER** when the respondent circles the first figure and stop it when the time is up.

🕒 **Time limit**: 60 seconds.

CARD 6



- Respondent does it
- Visual impairment
- Doesn't know
- Refused

📷 **TAKE A PICTURE OF PAGE 7 AND CONTINUE**

## SECTION 5: NUMERACY

Q23.1. ① *FIRST ATTEMPT*

① **BOOKLET, page 8** and use the **TIMER**.

For the following exercise, I will ask you to count backwards from 100 to 0. Do it as fast as possible. If you stop or start again, we will stop the **TIMER** and begin a new attempt. Remember, you have to count backwards from 100 to 0.

I will keep track of the time and will tell you when to stop.

① **INTERVIEWER:** Mark on **page 8 del BOOKLET** the numbers said by the respondent.

① Start the **TIMER** when the respondent says the first number and stop them when the time is up.

① Write the last number the respondent says when the **TIMER** stops.

① Time limit: 30 seconds.

Last number:

① **TAKE A PICTURE TO PAGE 8 AND CONTINUE**

**Do you want to start over?**

① Allow the subject to start again only once if she/he stops or makes a mistake and wants to begin again. Inform (him/her) that (he/she) has a second opportunity if (he/she) wishes. Select "Respondent wants to start again" if the subject asked to start over.

- Respondent wants to start again
- Respondent doesn't want to start again • **CONTINUE TO QUESTION 24**
- Refused • **CONTINUE TO QUESTION 24**

Q23.2. ① *Second attempt*

① **BOOKLET, page 9** and use the **TIMER**.

Let's try one more time. Follow the same instructions as the first trial: count backwards from 100 to 0 as fast as you can.

① **INTERVIEWER:** Mark on page 9 of the **BOOKLET** the numbers said by the respondent.

① Start the **TIMER** when the respondent says the first number and stop them when the time is up.

① Write the last number the respondent says when the **TIMER** stops.

① Time limit: 30 seconds.

Last number:

① **TAKE A PICTURE OF PAGE 9 AND CONTINUE**

## SECTION 6: BRIEF CSI-D

Now I will ask you some simple questions.

Q24. ① **INTERVIEWER:** SHOW YOUR ELBOWS

**What are these called?**

- Said elbow or elbows
- Said something else
- Visual impairment
- Doesn't know
- Refused

Q25. **What is a bridge?**

① **INTERVIEWER:** Possible answer: "Something that connects two points or places".

- Construction to get from one side to another over a river, street or open space
- Said something different
- Doesn't know
- Refused

Q26. **What can you do with a hammer?**

① **INTERVIEWER:** Possible answer: "Build furniture"

- Nail, pull nails, hit something
- Said something different
- Doesn't know
- Refused

**Q27. What do you use to cut paper?**

- Scissors, knife, paper cutter
- Said something different
- Doesn't know
- Refused

**Q28. Can you tell me where I can buy a can of soda or soft drink nearby?**

- Gave instructions or directions to some place
- Did not give instruction or directions
- Doesn't know
- Refused

**Q29. Please, signal with a finger, first to the sky and then the floor.**

**1. Pointed to the sky:**

- Yes
- No
- Physical impairment
- Doesn't know
- Refused

**2. Then to the floor:**

- Yes
- No
- Physical impairment
- Doesn't know
- Refused

## SECTION 7: LIST OF WORDS

**Q30. Do you remember the list of 10 words I read earlier on three occasions? How many of those words can you remember?**

**Can you please tell me all the words that you remember? The order does not matter.**

**i** *INTERVIEWER: Register only the words repeated correctly.*

- Butter
- Arm
- Letter
- Queen
- Ticket
- Grass
- Corner
- Stone
- Book
- Cane
- Refused

**OBSERVATIONS**

**If MMSE < 12, close the interview. Otherwise → continue to question 31.**

## SECTION 8: IMMEDIATE LOGICAL MEMORY

We will continue with new exercises. If you need to go to the bathroom or take some medicine, I suggest you do it now.

Q31. 🕒 Use the **TIMER**

Now I will read to you a short story. After I finish, I will ask you to repeat everything you remember. I want you to listen very carefully because I want you to repeat the whole story with all the details you can remember.

**First story:**

*Three children were alone in their house and the house caught on fire. A brave man managed to climb through the back window, pulled the children out and took them to a safe place. Apart from some minor injuries and some bruises, everybody is fine.*

Now, I want you to tell me what happened in the story with as many details as possible.

🗣️ **INTERVIEWER:** Register all the segments of the story. Start the **TIMER** when the respondent begins the exercise.

🕒 **Time limit:** 60 seconds.

	Yes, exactly	Yes, approximately	No
1. Three children...	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
2. House caught on fire...	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
3. Brave man climbed...	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
4. Children rescued...	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
5. Minor injuries...	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
6. Everybody is fine...	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Q32. 🗣️ **INTERVIEWER:** Take page 10 of the **BOOKLET**. Use the **TIMER**.

I will read you another short story. When I am finished, I am going to ask you to repeat everything you remember. Please listen very carefully because I need you to repeat the story as complete as possible, with all the details you can remember.

**Second story:**

*Maria Moreno who lives in the Center of Santiago and works as a cook in the corner cafeteria, reported to the Police station that she has been attacked on San Pablo street the previous night and was robbed \$18.300 pesos. She has 4 small children, the rent is overdue, and they have not eaten in two days. The police, touched by the woman's story, organized a money collection for her.*

Now, I want you to tell me what happened in the story with as many details as possible.

🗣️ **INTERVIEWER:** Register all the segments of the story on page 10 of the **BOOKLET**. Start the **TIMER** when the respondent begins the exercise.

🕒 **Time limit:** 60 seconds.

	Yes, exactly	Yes, approximately	No
1. Maria...	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
2. Moreno...	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
3. Center...	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
4. Santiago...	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
5. Works...	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
6. Cook...	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
7. Cafeteria...	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
8. Corner...	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
9. Reported...	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
10. Station...	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
11. Police...	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
12. Had been tttacked...	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
13. On San Pablo street...	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
14. The previous night...	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
15. Was robbed...	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
16. 18.300 pesos...	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
17. Has 4...	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
18. Small children...	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
19. The rent was overdue...	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
20. Have not eaten...	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
21. In 2 days...	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
22. Police...	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
23. Touched by the woman's story...	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
24. Organized a money collection...	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
25. For her	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

🗣️ **TAKE A PICTURE OF PAGE 10 AND CONTINUE.**

## SECTION 9: WORD RECOGNITION

**Q33. I am going to read a list of words, some were in the list I read to you a few minutes ago and some are words I have never read before. Say "Yes" or "No" whether I've mentioned the words before or not.**

**Do you have any questions? Are you ready?**

**🗣 INTERVIEWER:** Read each word and ask the respondent if the word was on the list read earlier. Mark the response accordingly.

	Yes	No	Doesn't know	Refused
1. Church	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
2. Coffee	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
3. Butter	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
4. Weight	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
5. Arm	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
6. Book	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
7. Five	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
8. Letter	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
9. Hotel	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
10. Mountain	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
11. Queen	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
12. Corner	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
13. Shoe	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
14. Cane	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
15. Town	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
16. Rope	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
17. Ticket	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
18. Troops	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
19. Grass	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
20. Stone	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

### OBSERVATIONS

## SECTION 10: CONSTRUCTIONAL PRAXIS

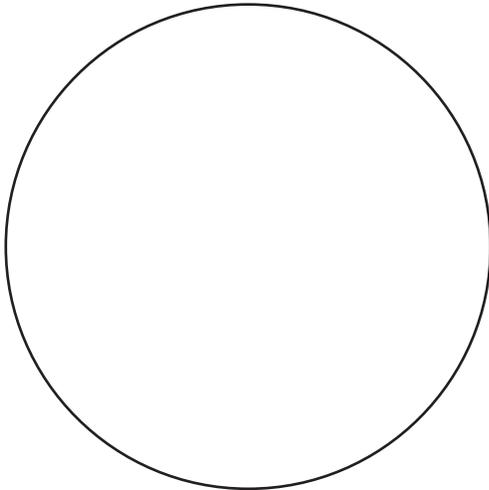
Q34.1. 🕒 Page 11 of the BOOKLET, PENCIL and the TIMER.

**Now, take the pencil and copy the figures in the space below.**

🕒 **INTERVIEWER:** Prepare the sheets with the figures to evaluate constructional praxis for the respondent to see and copy. Place **BOOKLET page 11** in front of the subject horizontally. Start the **TIMER** when the respondent begins the exercise.

🕒 **Time limit:** 60 seconds.

**Fig.1 - Circle**



- Correct
- Incorrect
- Visual impairment
- Physical impairment
- Doesn't know
- Refused

🕒 **TAKE A PICTURE OF PAGE 11 AND CONTINUE**

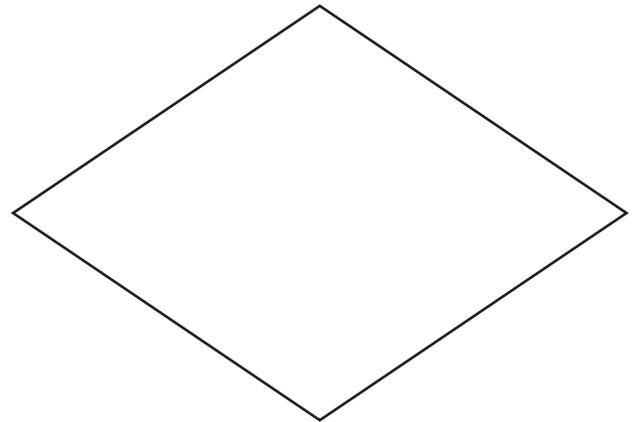
Q34.2. 🕒 Page 12 of the BOOKLET, PENCIL and use the TIMER.

**Now, take the pencil and copy the figures in the space below.**

🕒 **INTERVIEWER:** Prepare the sheets with the figures to evaluate constructional praxis for the respondent to see and copy. Place **BOOKLET page 12** in front of the subject horizontally. Start the **TIMER** when the respondent begins the exercise.

🕒 **Time limit:** 60 seconds.

**Fig.2 - Rhombus**



- Correct
- Incorrect
- Visual impairment
- Physical impairment
- Doesn't know
- Refused

🕒 **TAKE A PICTURE OF PAGE 12 AND CONTINUE**

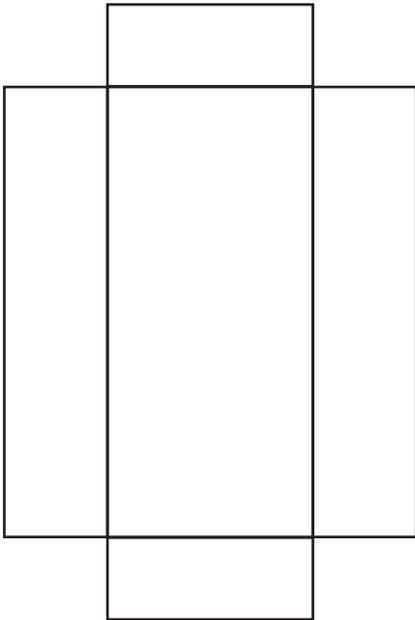
Q34.3. 🕒 Page 13 of the BOOKLET, PENCIL and use the TIMER.

**Now, take the pencil and copy the figures in the space below.**

🗣️ INTERVIEWER: Prepare the sheets with the figures to evaluate constructional praxis for the respondent to see and copy. Place **BOOKLET page 13** in front of the subject horizontally. Start the **TIMER** when the respondent begins the exercise.

🕒 Time limit: 60 seconds.

**Fig.3 - Rectangles**



- Correct
- Incorrect
- Visual impairment
- Physical impairment
- Doesn't know
- Refused

📷 TAKE A PICTURE OF PAGE 13 AND CONTINUE

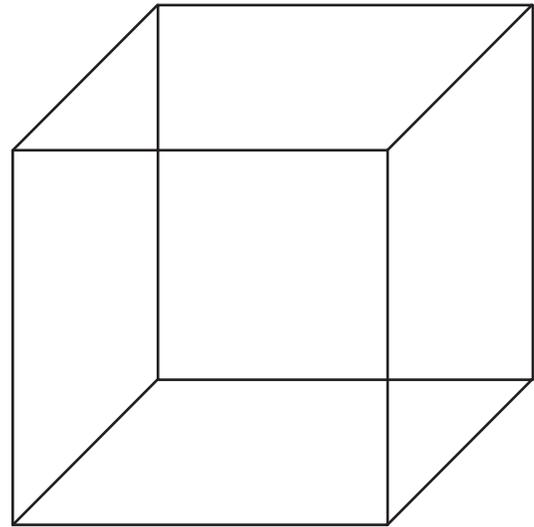
Q34.4. 🕒 Page 14 of the BOOKLET, PENCIL and use the TIMER.

**Now, take the pencil and copy the figures in the space below.**

🗣️ INTERVIEWER: Prepare the sheets with the figures to evaluate constructional praxis for the respondent to see and copy. Place **BOOKLET page 14** in front of the subject horizontally. Start the **TIMER** when the respondent begins the exercise.

🕒 Time limit: 60 seconds.

**Fig.4 - Cube**



- Correct
- Incorrect
- Visual impairment
- Physical impairment
- Doesn't know
- Refused

📷 TAKE A PICTURE OF PAGE 14 AND CONTINUE

# SECTION 11: SYMBOLS AND DIGITS

Q35. **INTERVIEWER: Use of the TIMER, PENCIL, RED PEN and prepare page 15 of the BOOKLET. If the respondent does not know how to count or does not recognize numbers, replace the word "number" with "figure".**

**Now I will ask you to look at the following numbers. Notice that every number has a different symbol underneath it.**

**BOOKLET page 15**

**Signaling to the top of the page where the row of digits are shown with symbols below, say:**

**Here is a row of numbers that go from 1 to 9 with each number having a corresponding symbol underneath.**

**Then, point at the group of rows underneath and say:**

**In these rows you can see the numbers but not the symbols. I would like you to draw the corresponding symbol to each number as they appear along the row.**

**We are going to do some examples just to make sure the instructions are clear. Begin with this number. Point to the number 2 and say: Here (Point to the blank square underneath the 2) you must copy this symbol (Point "⊥"), complete the symbol. After the subject copies the symbol, point to 1 and say: draw the symbol that corresponds to this number. If the respondent draws "-", say: Very well, you may continue with the rest of the first 12 examples the same way you did the last one.**

**INTERVIEWER: Verify that the subject completes the spaces correctly, correct if necessary, and repeat the instructions if the subject does not understand or makes mistakes. Do not allow the subject to complete the symbols out of the order in which they appear.**

**Once the respondent completes the examples, say:**

**Stop. Beginning with the following square (Point to the number 4 after the shaded area), you must complete the empty squares with the corresponding symbols as fast as you can. When you finish the first row, continue with the second row as fast as possible, and continue with the rows below. If you make a mistake, do not erase, simply draw the correct symbol on top of the mistake. Remember, erasing can waste time. You can simply write the correct answer above. Do not skip any squares and work as fast as you can. Are you ready?**

**Begin!**

**Time limit: 90 seconds.**

**INTERVIEWER: Make sure the respondent is ready. Start the TIMER as soon as you say "begin". When the time is up, say: Stop!**

1	2	3	4	5	6	7	8	9
-	⊥	⊐	□	U	O	∧	X	=

**Ejemplos/Ensayos:**

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

**TAKE A PICTURE OF PAGE 15 AND CONTINUE**

## SECTION 12: CONSTRUCTIONAL PRAXIS

Q36. 🕒 **BOOKLET, page 16, PENCIL** and use the **TIMER**

**Do you remember the four figures that I showed you earlier and you copied? I want you to try to draw those figures from memory on this sheet of paper.**

🕒 Give the respondent the **BOOKLET, page 16.**

🕒 **INTERVIEWER:** Start the **TIMER** when the respondent begins the exercise and stop (him/her) when the time stops.

🕒 **Time limit:** 240 seconds.

🕒 **TAKE A PICTURE OF PAGE 16 AND CONTINUE**

## SECTION 13: LOGICAL MEMORY RECALL

Q37. 🕒 Use the **TIMER**.

**Do you remember the first story I read to you a few minutes ago and you repeated after me, the story about the fire? Now, I would like for you to tell me the story again in as many details as possible.**

🕒 **INTERVIEWER:** Register all the segments of the story. Start the **TIMER** when the respondent begins the exercise.

🕒 **Time limit:** 60 seconds.

	Yes, exactly	Yes, approximately	No
1. Three children...	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
2. House caught on fire...	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
3. Brave man climbed...	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
4. Children rescued...	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
5. Minor injuries...	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
6. Everybody is fine...	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Q38. 🕒 **Page 17 del BOOKLET** and use the **TIMER**.

**Do you remember the second story I read to you a few minutes ago and you repeated after me, the one about the robbery? Now, I would like for you to tell me the story again in as much detail as possible.**

🕒 **INTERVIEWER:** Register all the segments of the story in page 17 of the **BOOKLET**. Start the **TIMER** when the respondent begins the exercise.

🕒 **Time limit:** 60 seconds.

	Yes, exactly	Yes, approximately	No
1. Maria...	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
2. Moreno...	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
3. Center...	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
4. Santiago...	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
5. Works...	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
6. Cook...	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
7. Cafeteria...	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
8. Corner...	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
9. Reported...	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
10. Station...	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
11. Police...	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
12. Had been attacked...	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
13. On San Pablo street...	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
14. The previous night...	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
15. Was robbed...	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
16. 18.300 pesos...	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
17. Has 4...	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
18. Small children...	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
19. The rent was overdue...	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
20. Have not eaten...	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
21. In 2 days...	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
22. Police...	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
23. Touched by the woman's story...	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
24. Organized a money collection...	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
25. For her	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

🕒 **TAKE A PICTURE OF PAGE 17 AND CONTINUE**

## SECTION 14: SIMILARITIES

In the following exercise, I will ask you what way certain things are alike.

Q39.1. In what way are an orange and a banana alike?

- They are fruits • *continue to question 40*
- Other answer
- Doesn't know
- Refused

Q39.2. **INTERVIEWER: Say:**

**The expected answer was that both, an orange and a banana, are fruits.**

**INTERVIEWER:** Do not help the subject with the following two questions.

Q40. In what way are a table and a chair alike?

- They are furniture
- Other answer
- Doesn't know
- Refused

Q41. In what way are a rose and a daisy alike?

- They are flowers
- Other answer
- Doesn't know
- Refused

## SECTION 15: GO OR NO-GO

Q42. **INTERVIEWER:** Have 2 PENCILS on hand.

**I will give you some instructions you must follow.**

**INTERVIEWER:** Take a pencil with your left hand (or right hand if you are left-handed) and tap the table when the instruction states so.

**You will have to do what I tell you, so please, take the pencil.**  
**"Tap once when I tap once".**

**INTERVIEWER:** To confirm that the respondent understood the instructions, do a series of trials: 1 - 1 - 1

**"Do not tap when I tap twice".**

**INTERVIEWER:** To confirm that the respondent understood the instructions, do a series of trials: 2 - 2 - 2

**INTERVIEWER:** Complete the following series of taps and record what the respondent does in each case.

**Now, we will begin the exercise.**

	Does not tap	Taps once	Taps twice	Refused
1 tap	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
1 tap	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
2 taps	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
1 tap	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
2 taps	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
2 taps	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
2 taps	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
1 tap	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
1 tap	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
2 taps	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

## SECTION 16: SELF-REPORTED MEMORY

**Q43. Currently, how would you evaluate your memory or ability to remember? Would you say it is...?**

- Excellent
- Very good
- Good
- Fair
- Poor
- Doesn't know
- Refused

**Q44. Compared to the last two years, would you say your memory today is...?**

- Better
- More or less the same
- Worse
- Doesn't know
- Refused

## SECTION 17: DEPRESSIVE SYMPTOMS

**The following questions refer to how you felt last week. Tell me if the things I will mention happened to you most of the time during last week.**

**Q45.1. In the last week, did you feel satisfied with your life?**

- Yes
- No
- Doesn't know
- Refused

**Q45.2. In the last week, did you decrease or abandon your hobbies or activities?**

- Yes
- No
- Doesn't know
- Refused

**Q45.3. In the last week, did you feel that your life was empty?**

- Yes
- No
- Doesn't know
- Refused

**Q45.4. In the last week, did you often feel bored?**

- Yes
- No
- Doesn't know
- Refused

**Q45.5. In the last week, were you in a good mood most of the time?**

- Yes
- No
- Doesn't know
- Refused

**Q45.6. In the last week, did you fear that something bad could happen?**

- Yes
- No
- Doesn't know
- Refused

**Q45.7. In the last week, did you feel happy most of the time?**

- Yes  
 No  
 Doesn't know  
 Refused

**Q45.13. In the last week, did you feel full of energy?**

- Yes  
 No  
 Doesn't know  
 Refused

**Q45.8. In the last week, did you often feel helpless?**

- Yes  
 No  
 Doesn't know  
 Refused

**Q45.14. In the last week, did you feel hopeless?**

- Yes  
 No  
 Doesn't know  
 Refused

**Q45.9. In the last week, did you prefer to stay home rather than go out?**

- Yes  
 No  
 Doesn't know  
 Refused

**Q45.15. In the last week, did you think that most people were in a better situation than you?**

- Yes  
 No  
 Doesn't know  
 Refused

**Q45.10. In the last week, did you feel that you had more memory problems than other people your age?**

- Yes  
 No  
 Doesn't know  
 Refused

**Q45.11. In the last week, did you feel that it was wonderful to be alive?**

- Yes  
 No  
 Doesn't know  
 Refused

**Q45.12. In the last week, did you feel useless or not worthy?**

- Yes  
 No  
 Doesn't know  
 Refused

## OBSERVATIONS

## SECTION 18: INJURIES

Now, I'm going to ask you about injuries you may have suffered in your lifetime. Include childhood injuries that you remember or that you've been told you suffered.

Q46. In your lifetime, have you ever injured your head or neck in a car, motorcycle, or bicycle accident, from a fall from a horse, in a fight or doing sports?

- Yes
- No • Skip to question 48
- Doesn't know • Skip to question 48
- Refused • Skip to question 48

Q47. Regarding this (these) injury(ies) you mentioned, did you lose consciousness as a result of this (any of these) injury (injuries)?

- Yes
- No
- Doesn't know
- Refused

## SECTION 19: LONELINESS

🗣️ INTERVIEWER: Show CARD N°7.

The following questions are about your feelings regarding different aspects of your life.

Q48. How often do you feel that you lack company

🗣️ Show CARD N°7.

- Never
- Rarely
- Sometimes
- Always

Q49. How often do you feel ignored by others?

🗣️ Show CARD N°7.

- Never
- Rarely
- Sometimes
- Always

Q50. How often do you feel isolated or apart from others?

🗣️ Show CARD N°7.

- Never
- Rarely
- Sometimes
- Always

Q51. How often do you feel connected with the people around you?

🗣️ Show CARD N°7.

- Never
- Rarely
- Sometimes
- Always

Q52. How often do you feel alone?

🗣️ Show CARD N°7.

- Never
- Rarely
- Sometimes
- Always

Q53. How often do you feel that you have someone to talk with?

🗣️ Show CARD N°7.

- Never
- Rarely
- Sometimes
- Always

**Q54. How often do you feel that you have someone to count on?**

Show CARD N°7.

- Never
- Rarely
- Sometimes
- Always

**Q57. How often do you feel that you are part of a group of friends?**

Show CARD N°7.

- Never
- Rarely
- Sometimes
- Always

**Q55. How often do you feel that you have people that understand you?**

Show CARD N°7.

- Never
- Rarely
- Sometimes
- Always

**Q58. How often do you feel that you have a lot in common with people around you?**

Show CARD N°7.

- Never
- Rarely
- Sometimes
- Always

**Q56. How often do you feel there are people you feel close to?**

Show CARD N°7.

- Never
- Rarely
- Sometimes
- Always

## SECTION 20: CLOSURE

» FOR INTERVIEWEES WITH MMSE ≥ 22

I would like to know if there is another person residing in this house or know him well to give us his contact in case we need to ask some questions.

Is there anyone who could help us?

- Yes
- No • Pass a gift card

**Relationship or kinship with you**

- Spouse/Child
- Son-in-law
- Grandchild
- Another relative
- Other, specify

Please tell me the details of this person : Name and Surname

Telephone

**Sex**

- Male
- Female

» FOR INTERVIEWEES WITH MMSE < 22 AND THAT IN P1 OF THE INFORMATION MANTE THEY SAID THAT THERE WAS AN INFORMANT BUT HE WAS NOT IN THE HOME

I asked him earlier if there was another person residing in this house and he knew him well but he pointed out that he was not there. Will he have arrived to ask him a few questions?

- Yes
- No • Pass a gift card

**Could you call him to answer some questions?**

- Yes **• Move to interview with the right informant**
- No

**Please indicate the details of this person**

**Name Contact**

**Telephone**

**Sex**

- Male
- Female

**Relationship or kinship with you**

- Spouse/Child
- Son-in-law
- Grandchild
- Another relative
- Other, specify

**» FOR INTERVIEWEES WITH MMSE < 22 AND THAT IN P1 OF THE INFORMATION MANTE THEY SAID THAT THERE WAS NO INFORMANT**

**I asked him earlier if there was another person residing in this house and he knew him well but he pointed out that he was not there. Will he have arrived to ask him a few questions?**

- Yes
- No **• Move to observations with gift card**

**Please tell me the details of this person**

**Name Contact**

**Telephone**

**Sex**

- Male
- Female

**Relationship or kinship with you**

- Spouse/Child
- Son-in-law
- Grandchild
- Another relative
- Other, specify

**OBSERVATIONS**

📌 INTERVIEWER: WRITE DOWN ANY OBSERVATIONS; PLEASE INCLUDE THE NUMBER OF THE QUESTION TO WHICH THE OBSERVATION REFERS.

📌 INTERVIEWER: IMPROVE CALLIGRAPHY ON PAGE 6 OF THE BOOKLET, IN ORDER TO BE GRADED BY AN EXTERNAL PERSON. TAKE A PICTURE AFTERWARDS.



**Centro UC**  
Encuestas y Estudios  
Longitudinales



# HEALTH AND COGNITION AMONG OLDER ADULTS 2019: CHILE-COG