

Name _____

Community _____

PID _____

Examiner's Name _____

Date _____

Start time _____

Duration of interview _____

DIAGNOSTIC INTERVIEW

I'm going to ask you some questions about how you've been doing. Some of these can be easy and some can be difficult. Do the best you can. I'm not trying to deceive you.

Number of years that attended school _____

Can you read and write?	Yes	No	Never learned
Still working on the farm?	Yes	No	Never worked on farm
Still fishing?	Yes	No	Never fished
Still going hunting?	Yes	No	Never hunted
Still weave?	Yes	No	Never wove
Still care for children	Yes	No	Never cared for children
Still cook?	Yes	No	Never cooked

Do you have problems hearing?

A) without problems, b) mild problems, c) severe problems, d) deafness

If problems, describe when began and when became severe.

Do you have problems seeing?

A) without problems, b) mild problems, c) severe problems, d) blindness

If problems, describe when began and when became severe.

Current diagnoses of importance:

- 1) _____
- 2) _____
- 3) _____
- 4) _____

<p><i>Do you feel that your memory is becoming worse?</i></p> <p>If answers "YES", <i>do you forget things sometimes... or all the time?</i></p> <p>If answers "YES", ask, <i>does this worry you?</i></p>	<p>NO</p> <p>Sometimes</p> <p>All the time</p> <p>Yes</p> <p>No</p>
<p><i>Have you noticed changes when you try to make plans or solve problems?</i></p> <p>If answers "YES", ask, <i>do you have trouble sometimes..... or all the time?</i></p>	<p>NO</p> <p>Sometimes</p> <p>All the time</p> <p>(specify what the difficulty is</p> <p>_____)</p>

The Modified Mini-Mental State (3MS) Test

Please circle

Question	Verbatim response or instruction	correct	incorrect	3MS	MMSE
1	Place and date of birth			/5	
	<i>When were you born?</i>				
	Year	(1)	(0)		
	Month	(1)	(0)		
	Day	(1)	(0)		
	<i>Where were you born?</i>				
	Town/Community	(2)	(0)		
2	Registration			/3	/3
	<i>I am going to say three words. Repeat them after I have said all three. I'll ask you to remember them later.</i>	Number of tries: _____			
	(1) SHOES	(1)	(0)		(1)
	(2) WHITE	(1)	(0)		(1)
	(3) LAZINESS	(1)	(0)		(1)
3	Mental Reversal			/7	/5
a	Count from 1 to 5. (if cannot, say "say 1, 2, 3, 4, 5")	First try: _____	Can	Cannot	
		Second try:	Can	Cannot	
b	Now do it the other way around, from 5 to 1.	Accurate	(2)		
		1 or 2 errors	(1)		
		More than 2 errors		(0)	
c	Spell the word "WORLD" ("MUNDO")	First try:	Can	Cannot	
		Second try:	Can	Cannot	
d	Now do it the other way around				
		Correct response: DLROW	(5)	(0)	(5)
		4 letters that are in the correct relative order	(4)	(0)	(4)
		3 letters that are in the correct relative order	(3)	(0)	(3)
		2 letters that are in the correct relative order	(2)	(0)	(2)
		1 letter	(1)	(0)	(1)
	<i>If cannot spell, use this story:</i>				
	"Describe the path to reach [a known place such as a school or church or house of an acquaintance]. What do you pass by on the way? Now describe the path walking back from [the known place]. What do you pass on the way?"	Able to name points that were passed After prompting Unable Able to name points passed in reverse Unable			

After testing, transfer all circled numbers in the grey boxes

Question		correct	incorrect	3MS	MMSE
4	First Recall			/9	/3
	<i>What three words did I ask you to remember earlier?</i>				
	SHOES	Spontaneously correct	(3)	(0)	(1)
		After cue "something to wear"	(2)	(0)	
		After cue "Shoes, shirt, or pants"	(1)	(0)	
		Still incorrect		(0)	
	WHITE	Spontaneously correct	(3)	(0)	(1)
		After cue "A color"	(2)	(0)	
		After cue "yellow, green, or white"	(1)	(0)	
		Still incorrect		(0)	
	LAZINESS	Spontaneously correct	(3)	(0)	(1)
		After cue "a bad personal quality"	(2)	(0)	
		After cue "lying, laziness, or anger"	(1)	(0)	
		Still incorrect		(0)	
	If unsuccessful, administer Hidden Objects later in interview				
5	Temporal Orientation			/15	/5
	<i>If the individual has never known dates, skip to "what is the day of the week"</i>				
	<i>What is today's date?</i>				
	Year	Accurate	(8)		(1)
		Missed by 1 year	(4)		
		Missed by 2-5 years	(2)		
		Missed by >5 years		(0)	
	Month	Accurate or within 5 days	(2)		(1)
		Missed by 6 days to 1 month	(1)		
		Missed by > 1 month		(0)	
	Date (of the month)	Accurate	(3)		(1)
		Missed 1-2 days	(2)		
		Missed 3-5 days	(1)		
		Missed > 5 days		(0)	
	START HERE IF THE PERSON HAS NEVER KNOWN DATES: <i>Say the days of the week</i>	First try: Second try:	Can	Cannot	
	What is the day of the week today?	Exact day (of the week)	(1)	(0)	(1)
	What is the phase of the moon now? [individual should answer "full" or "half" or "no moon". If unable, ask "Can you point to where the moon will be tomorrow?" If unable, ask "Is the moon now full or is the moon now half, or is there now no moon?"]	Answers correctly Points correctly Correct when given three options Unable	(1)	(0)	(1)

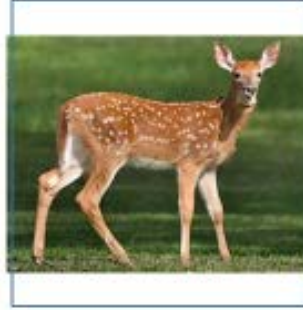
	<i>If the individual knows dates, stop here and go to spatial orientation.</i>					
	Currently, what wild fruits can be harvested (Tsimane) / what fruits are available for sale in the seasonal market (Moseten)?	Oriented Yes Oriented No NOTES:				
	At what time of day are we (morning, afternoon, night)?	Oriented Yes Oriented No NOTES:				
	When will it be the day to go to church to sing? [if there is no church, "When will be the next day of football?"	Oriented Yes Oriented No NOTES:				
6	Spatial Orientation				/5	/5
	<i>What city/community are we in?</i>		(2)	(0)		(2)
	<i>What is the closest community?</i>		(1)	(0)		(1)
	<i>What is the closest town?</i>		(1)	(0)		(1)
	<i>Are we in a hospital (/medical clinic), a restaurant, or a home?</i>		(1)	(0)		(1)
7	Naming				/5	/2
	<i>Could you tell me what this is?</i>					
	Pencil					(1)
	Watch					(1)
	<i>If person is blind, ask person to touch object and name it. OR, say "What is the name of the thing that you use to write?" and "What is the name of the thing that you use to know the time?"</i>					
	<i>What do you call this part of the body?</i>	<i>If person is blind, ask permission to touch, then touch each body part, asking "What is the name of the part of your body that I am touching?"</i>				
	Forehead		(1)	(0)		
	Chin		(1)	(0)		
	Shoulder		(1)	(0)		
	Elbow		(1)	(0)		
	Thumb		(1)	(0)		
8	Four-legged animals				/10	
	<i>What animals have four legs? Tell me as many as you can.</i>					
	1		(1)	(0)		
	2		(1)	(0)		
	3		(1)	(0)		
	4		(1)	(0)		
	5		(1)	(0)		
	6		(1)	(0)		
	7		(1)	(0)		
	8		(1)	(0)		
	9		(1)	(0)		
	10		(1)	(0)		

	Question	Verbatim response or instruction	correct	incorrect	3MS	MMSE
9	Similarities				/6	
	Please look at these pictures and tell me what each picture shows (show pictures one at a time. Mark each that is correct)	Piranha/Fish, Canoe, Peccary, Papaya, Antelope, Watermelon, Flounder/Fish, Bicycle	TOTAL Correct ____/8			
	After example of canoe and bicycle					
	Papaya and watermelon Catidyes= fruits that must be cultivated	Finds correct pair	(2)			
		Gives explanation of similarity	(1)			
		Gives difference		(0)		
		Cannot		(0)		
	Peccary and antelope Jebacdyes= animals to eat	Finds correct pair	(2)			
		Gives explanation of similarity	(1)			
		Gives difference		(0)		
		Cannot		(0)		
	Piranha and flounder	Finds correct pair	(2)			
		Gives explanation of similarity	(1)			
		Gives difference		(0)		
		Cannot		(0)		
10	Repetition				/5	/1
	Repeat what I say: "He would like to go home" Tsimane: "That dog wants to go home"	Correct (includes dog, wants, home)	(2)			
		One or 2 missed or wrong words	(1)			
		> 2 missed or wrong words		(0)		
	Spanish: "If you laugh, you lose." Tsimane: "birds lay eggs"					
	If / birds		(1)	(0)		(1)
	you laugh / lay		(1)	(0)		
	you lose / eggs		(1)	(0)		
11	Read and Obey		Correct	Incorrect	/3	/1
	"CLOSE YOUR EYES"					(1)
		without prompting	(3)			
		after prompting	(2)			
		reads; does not close eyes	(1)			
		neither reads nor closes eyes		(0)		
	If the person cannot read, administer the following:					
	The examiner says "'Look at me and do exactly what I do' and then the examiner closes his own eyes for 3 seconds. If necessary repeat, 'Now you do exactly what I did.'"	Able without prompting After prompting (or if need to repeat the instruction) Unable				

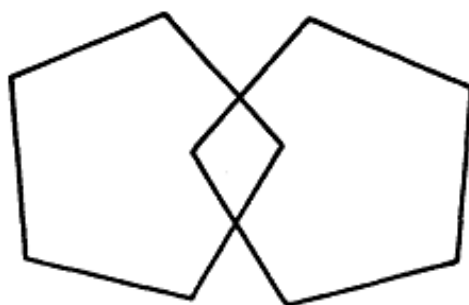
	Question	Verbatim response or instruction	Correct	Incorrect	3MS	MMSE
12	Writing				/5	/1
	<i>I would like to have a sample of your handwriting. Write "He would like to go home"</i>					
	One point for each word		(1)	(0)		(1)
			(1)	(0)		
			(1)	(0)		
			(1)	(0)		
			(1)	(0)		
	If unable to write,					
	"tell me something about your house" or, "tell me something that can be done with a machete"	Able to put together a sentence Unable				
13	Copying 2 pentagons				/10	/1
	<i>Copy this drawing.</i>					
	Pentagon 1	5 approx equal sides	(4)			(1)
		5 but un-equal (>2:1) sides	(3)			
		Other enclosed figure	(2)			
		2 or more lines	(1)			
		Less than 2 lines		(0)		
	Pentagon 2	5 approx equal sides	(4)			
		5 but un-equal (>2:1) sides	(3)			
		Other enclosed figure	(2)			
		2 or more lines	(1)			
		Less than 2 lines		(0)		
	Intersection	Inner figure has 4 sides	(2)			
		Inner figure does not have 4 sides	(1)			
		No inner figure		(0)		
	<i>If the individual cannot draw, administer the following:</i>					
	Show picture of two squares. Say "arrange these two frames to look like the picture". If unable, demonstrate. Then say, "now you do it."	Could do it Could do it after being given demonstration Could not do it Draw here the design made by the person				
	Then show next picture. Say "now arrange these two frames to look like this picture." Do not help the person To score as correct, must see diamond where the two	Could do it (there is diamond) Squares overlap but no diamond Couldn't do it Draw here the design made by the person				
14	Three-stage command				/3	/3
	Take this paper with your [non dominant] L/R hand,		(1)	(0)		(1)
	Fold it in half, and		(1)	(0)		(1)
	Give it back to me		(1)	(0)		(1)

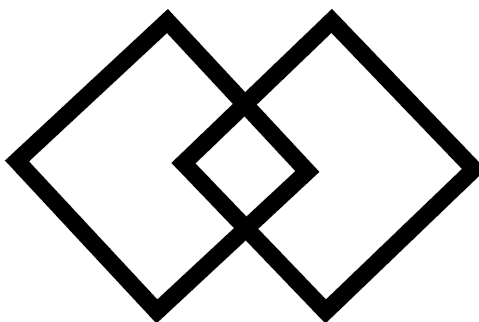
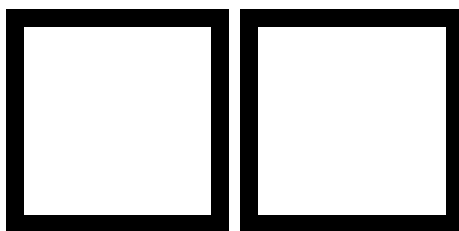
15	Second Recall					/9	
	<i>What were the three words that I asked you to remember?</i>						
	SHOES	Spontaneously correct	(3)	(0)			
		After cue "something to wear"	(2)	(0)			
		After cue "Shoes, shirt, or pants"	(1)	(0)			
		Still incorrect		(0)			
	WHITE	Spontaneously correct	(3)	(0)			
		After cue "A color"	(2)	(0)			
		After cue "yellow, green, or white"	(1)	(0)			
		Still incorrect		(0)			
	LAZINESS	Spontaneously correct	(3)	(0)			
		After cue "a bad personal quality"	(2)	(0)			
		After cue "lying, laziness, or anger"	(1)	(0)			
		Still incorrect		(0)			

After testing, transfer all circled numbers in the grey boxes



CLOSE YOUR EYES





HIDDEN OBJECTS: Only administer hidden objects if the participant cannot correctly perform the first recall of the three words	
What do you call this? (Show a Comb, a Flashlight, a Spoon)	COMB Correct(1) Incorrect(0) FLASHLIGHT Correct(1) Incorrect(0) SPOON Correct(1) Incorrect(0)
Now I am going to ask you to hide these three things. [Tell person where to hide objects]. Remember where you put them. [if person cannot move, hide objects and say "Watch me."]	
Pronator drift Please close your eyes and hold your hands out in front of you with the palms up. (Wait 5 seconds). You can open your eyes and drop your hands.	Indicate if observe: Right arm drifts downward Yes No Left arm drifts downward Yes No Right arm rotates Yes No Left arm rotates Yes No Asymmetrical response Yes No
(Assure a delay of at least 30 seconds but not more than 1 minute and 30 seconds, between hiding objects and finding them. To fill the time, use these questions)	
Are you eating well?	Yes Sometimes All the time
Do you fall sometimes?	No Yes No answer (why no answer?)
If "YES", ask: Were you hurt?	No Yes
What were those three objects that we hid?	Comb Flashlight Spoon
Can you find those three things that we hid?	Indicate number of items found spontaneously _____ Had to provide hints: Yes No

(interviewer indicate if hearing problems interfered with testing)

(interviewer indicate if vision problems interfered with testing)

References

3MS

Teng EL, Chui HC. The Modified Mini-Mental State (3MS) examination. *J Clin Psychiatry*. 1987;**48**:314-318.

MMSE

Folstein MF, Folstein SE, McHugh PR. "Mini-mental state". A practical method for grading the cognitive state of patients for the clinician. *J Psychiatr Res*. 1975;**12**:189-198.