Supplemental methods: The following script was used by staff members to facilitate selection of test language: "We're going to ask some questions looking at your memory and thinking. We can ask you the questions in English or in Spanish. Which language would be best for you? You can always answer in either language." After implementation of the procedure for offering test language recommendations when obvious language dominance was observed in the bilingualism questionnaire, the following script was used: "Based on the way you answered the language questions that I asked you earlier, my recommendation would be that you do the MoCA screening in _____(English/Spanish). Which language would be best for you? You can always answer in either language."

Approximately half-way through the data collection period, interviewers began reviewing the self-rated bilingualism scale and made recommendations regarding test language when obvious language dominance was observed. This adjustment was made in an effort to facilitate optimal selection of MoCA assessment language. There were no differences in patterns of selection of test language for bilinguals before and after this procedural change (Supplemental Table S1), so these groups were collapsed for all analyses. Supplemental Table S1. Test language selection for bilinguals before and after procedure change.

	English MoCA	Spanish MoCA	Bilingual MoCA			
Prior to procedure	N = 190	N = 23	N = 14			
change (n = 227)	(83.7%)	(10.1%)	(6.2%)			
Following procedure	N = 182	N = 26	N = 4			
change (n = 212)	(85.9%)	(12.3%)	(1.9%)			

Note: χ^2 (2) = 5.4, p =0.07. Analysis completed with all participants classified as bilingual (i.e.,

English-dominant bilingual, Spanish-dominant bilingual, balanced bilingual; N = 439).

Monolingual participants were not included in this analysis due to no variance in test language

selection in these groups.

Supplemental Table S2. Bilingualism questionnaire. Mean rating score and standard deviation by language proficiency item

	Full biling	ual sample	Balanced bilinguals		
	(n =	439)	(n = 316)		
	English	Spanish	English	Spanish	
	language	language	language	language	
	Mean (SD)	Mean (SD)	Mean (SD)	Mean (SD)	
Speaking	5.4 (1.5)	5.4 (1.4)	5.5 (1.4)	5.6 (1.1)	
Understanding	5.5 (1.4)	5.5 (1.2)	5.6 (1.2)	5.7 (1.1)	
Reading	5.2 (1.7)	4.1 (2.0)	5.3 (1.5)	4.4 (1.9)	
Writing	4.9 (1.8)	3.6 (2.1)	5.0 (1.7)	4.0 (2.0)	
Mean overall rating	5.2 (1.5)	4.7 (1.4)	5.3 (1.3)	4.9 (1.2)	

Note: n = 439 for Speaking and Understanding; n = 438 for Reading and Writing. The questionnaire was not completed by n = 108, who reported that they did not speak another language and thus did not complete the bilingualism questionnaire items. SD = standard deviation. Range for each item was 1 ("almost none") to 7 ("like native speaker").

Supplemental Table S3. Test language choice by bilingualism classification

	MoCA Test Language					
Bilingualism						
Classification	n	Frequency (Row Percent)				
		English	English Spanish			
		MoCA	MoCA	MoCA		
Total sample	547	412 (75.3%)	117 (21.4%)	18 (3.3%)		
Monolingual English	40	40 (100%)	0 (0.0%)	0 (0.0%)		
Bilingual-English dominant	88	86 (97.7%)	1 (1.1%)	1 (1.1%)		
Bilingual- Balanced	316	280 (88.6%)	19 (6.0%)	17 (5.4%)		
Bilingual-Spanish dominant	35	6 (17.1%)	29 (82.9%)	0 (0%)		
Monolingual Spanish	68	0 (0.0%)	68 (100%)	0 (0%)		

Note. χ^2 (full sample)= 412.2, *p* < .0001; χ^2 (excluding monolingual) 202.4, *p* < .0001

Supplemental Table S4: Regression coefficients for MoCA sub-scores on test language and demographics in balanced bilinguals

(n=316)

	Linear regression models*				Ordinal regression models		
Variable	Visuospatial/Executive	Attention	Delayed Recall	Orientation	Naming	Language	Abstraction
Intercept	1.9***	2.4***	1.7***	5.1***	-	-	-
Test language (Both)ª	-0.4	-1.1**	-0.7	-0.3	-0.2	-1.4**	0.2
Test language (Spanish)ª	-0.4	-1.1*	-0.3	.09	-0.1	0.8*	0.3
Education, years	0.1***	0.2***	0.1**	0.04**	0.1***	0.2***	0.2***
Country of education (outside of US) ^b	0.2	0.5	0.1	0.3	0.6	0.2	0.4
Age, years (centered)	-0.04***	-0.03*	- 0.09***	-0.02^	-0.08**	0.06**	-0.03

Age, years	-0.001	-0.002	-0.001	-0.002	0.001	0.003	-0.002
(centered,							
squared)							
Sex (male) ^c	-0.1	0.05	-0.5	-0.15	0.2^	-0.1	-0.1
R ²	.21***	.29***	.20***	.08**	-	-	-

***p < .001; **p < .01; *p < .05; h < .10 a Reference category: English. b Reference category: Education in USA. c Reference

category: Female.