

Supplemental Material

Supplemental Table 1: Comparison of participants who did or did not return for visit 2

Variable	Returned for Visit 2						p-value <sup>§</sup>	p-value <sup>¥</sup>
	Yes (n=989)	No (n=301)						
		Total	Hispanic (n=175)	Black (n=61)	White (n=57)			
Global cognitive domain Z-score at visit 1 (SD)	0.1 (0.7)	-0.3 (0.8)	-0.39(0.72)	-0.35(0.87)	0.07(0.67)	<.0001	<.0001	
Age, visit 1	69 (9)	75 (9)	73 (9)	76 (10)	78 (9)	0.0003	<.0001	
Education, years	10 (5)	10 (5)	8 (5)	12 (4)	13 (4)	<.0001	0.905	
Race/ethnicity*						N/A		
White	134 (14)	57 (19)	N/A	N/A	N/A		0.007	
Black	162 (16)	61 (20)	N/A	N/A	N/A			
Hispanic	672 (68)	175 (58)	N/A	N/A	N/A			
Women	610 (62)	170 (57)	102 (58)	32 (53)	31(54)	0.53	0.106	
Medical insurance status								
Medicare or private insurance	505 (51)	172 (57)	66 (38)	46 (75)	54 (95)	<.0001	0.064	
Medicaid or no insurance	484 (49)	129 (43)	109 (62)	15 (25)	3 (5)			

Literacy Z-scores							
WRAT/WAT	0.01 (0.9)	-0.05 (1.04)	-0.003(0.952)	-0.358(1.202)	0.268(0.830)	0.003	0.387
Peabody	0.05 (1.0)	-0.16 (1.0)	-0.116(1.002)	-0.579 (1.150)	0.179(0.723)	0.0002	0.003
Current smoker	155 (16)	48 (16)	25 (14)	16 (26)	6 (11)	0.034	0.909
Moderate or Heavy Physical Activity	97 (10)	34 (11)	17 (9)	8 (13)	7 (12)	0.417	0.464
Diabetes mellitus							
Diabetes mellitus	267 (27)	86 (29)	63 (36)	12 (20)	7 (12)	0.0008	0.592
Anti-hypertensive use							
Anti-hypertensive use	590 (60)	193 (64)	114 (65)	38 (62)	36 (63)	0.667	0.165
Systolic BP, mm Hg							
Systolic BP, mm Hg	136 (17)	139 (18)	139 (18)	141 (15)	134 (15)	0.057	0.004
Diastolic BP, mm Hg							
Diastolic BP, mm Hg	79 (9)	76 (10)	77 (11)	78 (10)	72 (10)	0.015	0.0005
HDL, mg/dL							
HDL, mg/dL	53 (17)	54.9 (17)	50 (14)	65 (21)	58 (17)	<.0001	0.079
LDL, mg/dL							
LDL, mg/dL	116 (36)	114.2 (34)	117 (34)	109 (33)	111 (34)	0.371	0.442
Waist Hip Ratio							
Waist Hip Ratio	0.915 (0.084)	0.924 (0.080)	0.928(0.075)	0.921(0.073)	0.918(0.105)	0.808	0.117
Percent WMHV**							
Percent WMHV**	0.594 (0.737)	0.955 (1.066)	0.923(1.008)	1.320(1.373)	0.662(0.716)	0.002	<.0001
Brain parenchymal fraction***							
Brain parenchymal fraction***	0.730 (0.040)	0.706 (0.046)	0.713(0.039)	0.702(0.056)	0.689(0.047)	0.196	<.0001

<sup>§</sup> p-value for age adjusted global comparison among three race/ethnic groups (2 degrees of freedom)

‡ p-value for comparison between those who returned for visit2 and those who did not

\* Column percentages sum to 98 because data for Other races are not included.

WAT = Word Accentuation Test; Peabody = Peabody Picture Vocabulary Test; BP = blood pressure; HDL = high density lipoprotein; LDL = low density lipoprotein; WRAT = Wide Range Achievement Test.

\*\* Percent Total Cranial Volume adjusted WMHV

\*\*\* Total Cranial Volume adjusted (proportion)

**Supplemental Table 2: Multivariable model of race/ethnicity and ordinal outcome of MCI/dementia among participants that were cognitively healthy at visit 1**

Parameter	OR	95% CI of OR	p-value*	p-value**
<b>Model 1</b>				
Black vs. White	1.8	0.8 4	0.175	<.0001
Hispanic vs. White	6	2.7 13.6	<.0001	
Hispanic vs. Black	3.4	1.7 7.1	0.0008	
<b>Model 2</b>				
Black vs. White	1.8	0.7 4.1	0.364	<.0001
Hispanic vs. White	6.9	2.9 16.8	0.0001	
Hispanic vs. Black	3.9	1.7 9.0	0.0011	
<b>Model 3</b>				
Black vs. White	1.7	0.7 3.8	0.215	<.0001
Hispanic vs. White	5.9	2.6 13.4	<.0001	
Hispanic vs. Black	3.5	1.7 7.2	0.0009	

Cognitively healthy defined as MMSE score of 27 or greater.

\* p-value for testing pairwise comparison based on ordinal regression

\*\* p-value for Likelihood Ratio Test with 2 degrees of freedom

Model 1 adjusted for age, education, medical insurance status, literacy.

Model 2 adjusted for variables in model 1 and smoking, leisure time physical activity, diabetes mellitus, systolic and diastolic blood pressure, antihypertensive use, low and high density lipoprotein levels, waist hip ratio, and reported ethanol use.

Model 3 adjusted for variables in model 1 and brain parenchymal fraction, subclinical infarct status, and log white matter hyperintensity volume.

**Supplemental Table 3: Sensitivity analysis examining race/ethnic associations with outcomes of MCI/dementia versus cognitively healthy, and dementia versus MCI/cognitively healthy**

	MCI/Dementia combined vs. Healthy				Dementia vs. MCI/Healthy combined			
	OR	95% CI of OR	p-value*	p-value**	OR	95% CI of OR	p-value*	p-value**
Model 1				<.0001				0.0208
Black vs. White	2.0	1.0 3.8	0.043		1.7	0.3 9.4	0.516	
Hispanic vs. white	4.4	2.2 8.8	<.0001		7.3	1.3 40.7	0.022	
Hispanic vs. Black	2.2	1.3 3.9	0.004		4.2	1.2 15.1	0.028	
Model 2				<.0001				0.0624
Black vs. White	1.8	0.9 3.7	0.087		2.0	0.3 11.3	0.456	
Hispanic vs. white	4.5	2.1 9.3	<.0001		6.6	1.1 39.8	0.039	
Hispanic vs. Black	2.4	1.3 4.4	0.003		3.4	0.8 13.8	0.089	
Model 3				<.0001				0.0304
Black vs. White	1.8	0.9 3.5	0.084		1.4	0.2 7.7	0.718	
Hispanic vs. white	4.3	2.1 8.7	<.0001		5.9	1.1 32.8	0.041	
Hispanic vs. Black	2.4	1.4 4.2	0.003		4.3	1.2 15.8	0.027	

\* p-value for testing pairwise comparison based on logistic regression

\*\* p-value for Likelihood Ratio Test with 2 degrees of freedom

Model 1 adjusted for age, education, medical insurance status, literacy.

Model 2 adjusted for variables in model 1 and smoking, leisure time physical

activity, diabetes mellitus, systolic and diastolic blood pressure, antihypertensive

use, low and high density lipoprotein levels, waist hip ratio, and reported ethanol use.

Model 3 adjusted for variables in model 1 and brain parenchymal fraction, subclinical infarct status, and log white matter hyperintensity volume.