SUPPLEMENTARY DATA

Supplementary Table 1. Slopes of neurocognitive function by age splines and metabolic syndrome status.

	Slope	SE	P-value
SEVLT-Sum			
Age <65			
No MetS	-0.0122	0.0031	0.000
MetS	-0.0244	0.0028	0.000
Age 65+			
No MetS	-0.0670	0.0156	0.000
MetS	-0.0292	0.0123	0.018
SEVLT-Recall			
Age <65			
No MetS	-0.0126	0.0030	0.000
MetS	-0.0258	0.0030	0.000
Age 65+			
No MetS	-0.0432	0.0152	0.005
MetS	-0.0189	0.0133	0.156
WF			
Age <65			
No MetS	-0.0018	0.0033	0.572
MetS	-0.0033	0.0033	0.306
Age 65+			
No MetS	-0.0026	0.0207	0.898
MetS	-0.0196	0.0151	0.197
DSS			
Age <65			
No MetS	-0.0295	0.0029	0.000
MetS	-0.0340	0.0026	0.000
Age 65+			
No MetS	-0.0301	0.0133	0.024
MetS	-0.0159	0.0094	0.090
Global Cognition			
Age <65			
No MetS	-0.0150	0.0030	0.000
MetS	-0.0278	0.0028	0.000
Age 65+			
No MetS	-0.0620	0.0152	0.000
MetS	-0.0266	0.0128	0.039
Low Mental Status (SIS<=4)			
Age <65			
No MetS	0.0044	0.0015	0.003

	MetS	0.0044	0.0015	0.003
Age 65+				
	No MetS	0.0223	0.0079	0.005
	MetS	0.0035	0.0047	0.463

Estimates based on survey generalized linear regression models assuming a Gaussian distribution for continuous outcomes (z-scores) and logistic distribution for low mental status.
MetS: Metabolic Syndrome defined using the International Diabetes Federation specifications.
SEVLT= Spanish English Verbal Learning Test; WF=Word Fluency; DSS=Digit Symbol Substitution; SIS=Six Item Screener
Models include sex, age splines (at age 65)*MetS interaction, education, Hispanic/Latino background, and Center for Epidemiologic Studies Depression-10 scale.

SUPPLEMENTARY DATA

Supplementary Table 2. Association of metabolic syndrome with neurocognitive function among Hispanic/Latinos of diverse backgrounds by inflammation (High-sensitivity C-Reactive Protein) groups.

		CRP<3↟	CRP 3+↟
		b/se	b/se
SEVLT Sum			
	MetS	0.65** [0.22]	0.44[0.24]
	Age	-0.02***[0.00]	-0.02***[0.00]
	MetS*Age	-0.01** [0.00]	-0.01* [0.00]
SEVLT Recall			
	MetS	0.67***[0.19]	0.55* [0.25]
	Age	-0.02***[0.00]	-0.02***[0.00]
	MetS*Age	-0.01***[0.00]	-0.01* [0.00]
Word Fluency			
	MetS	-0.11** [0.04]	-0.03[0.04]
	Age	0[0.00]	0[0.00]
	MetS*Age	n/a	n/a
Digit Symbol Test			
	MetS	-0.09***[0.03]	-0.09** [0.03]
	Age	-0.03***[0.00]	-0.03***[0.00]
	MetS*Age	n/a	n/a
Global Cognition			
	MetS	0.62** [0.20]	0.42[0.23]
	Age	-0.02***[0.00]	-0.02***[0.00]
	MetS*Age	-0.01** [0.00]	-0.01[0.00]
		OR[95%CI]	**OR[95%CI]**
SIS<=4			
	MetS	0.97[0.78;1.22]	1.23[0.93;1.63]
	Age	1.05***[1.03;1.07]	1.05***[1.03;1.07]
	MetS*Age	n/a	n/a

	Interaction Effect⇑	**F-Test**	**P-Value**
Global Cognition	CRP*MetS*Age	F(1, 644) = 0.23	Prob > F = 0.6302
SEVLT Sum	CRP*MetS*Age	F(1, 644) = 0.15	Prob > F = 0.6958
SEVLT Recall	CRP*MetS*Age	F(1, 644) = 0.09	Prob > F = 0.7707
Word Fluency	CRP*MetS*Age	F(1, 644) = 3.09	Prob > F = 0.0791
Digit Symbol Test	CRP*MetS*Age	F(1, 644) = 0.12	Prob > F = 0.7319
SIS<=4	CRP*MetS*Age	F(1, 644) = 0.18	Prob > F = 0.6677

Estimates based on survey generalized linear regression models assuming a Gaussian distribution for continuous outcomes and logistic distribution for SIS.

MetS: Metabolic Syndrome defined using the International Diabetes Federation specifications.

CRP: High-sensitivity C-Reactive Protein.

SIS: Six Item Screener

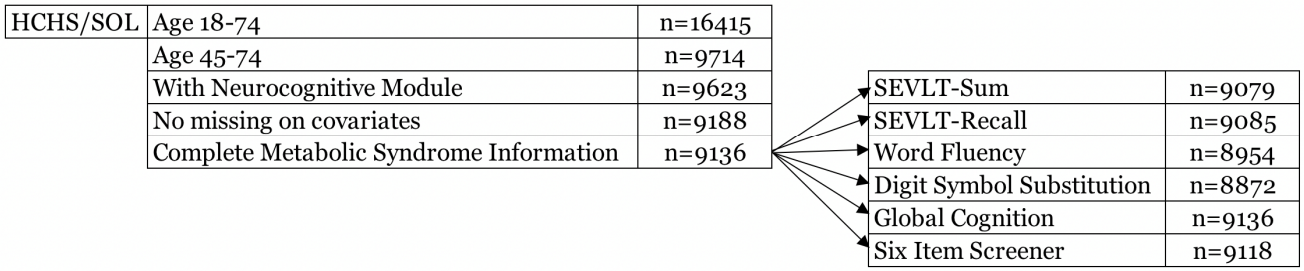
↟Adjusted for sex, age*MetS interaction, education, Hispanic/Latino background, and Center for Epidemiologic Studies Depression-10 scale.

⇑ Tests for differential association of metabolic syndrome with neurocognitive function among Hispanic/Latinos of diverse backgrounds by inflammation (high-sensitivity C-reactive protein) groups. Based on models estimated with full interactions between CRP groups and sex, age*MetS interaction, education, Hispanic/Latino background, and Center for Epidemiologic Studies Depression-10 scale.

SUPPLEMENTARY DATA

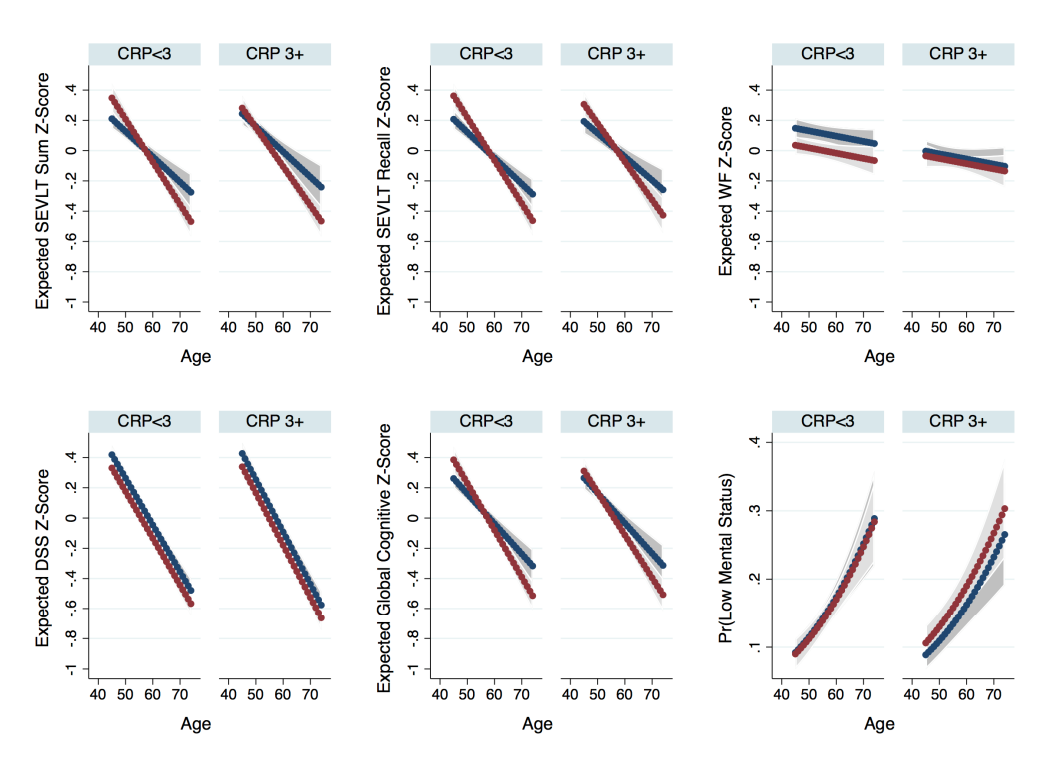
***p<0.001; **p<0.01; *p<0.05

Supplementary Figure 1. Inclusion criteria and analytic sample size.



SUPPLEMENTARY DATA

Supplementary Figure 2. Estimated marginal means (probabilities) of neurocognitive function over age by metabolic syndrome status stratified by inflammation (high sensitivity C-reactive protein). Estimates are based on survey generalized linear regression models assuming a Gaussian distribution for continuous outcomes (z-scores) and logistic distribution for low mental status.



SEVLT= Spanish English Verbal Learning Test; WF=Word Fluency; DSS=Digit Symbol Substitution; SIS=Six Item Screener

MetS: Metabolic Syndrome defined using the International Diabetes Federation (IDF) specifications.

CRP: High-sensitivity C-Reactive Protein.

Model includes sex, age*MetS interaction, education, Hispanic/Latino background, and Center for Epidemiologic Studies Depression-10 scale.