

Supplemental Material S7. Multivariable-adjusted associations of global and domain-specific cognitive performance with speech-in-noise performance considering cohort, ACHIEVE baseline (2018–20) and ARIC-NCS Visit 6/7 (2016–17/2018–19).

Worse Cognitive Performance, per SD ^a	Covariates + Cohort (N=600) ^b	
	Estimate (95% CI)	P-value
Global	-1.12 (-1.57, -0.67)	<0.001
Language	-1.04 (-1.49, -0.59)	<0.001
Executive function	-0.84 (-1.30, -0.39)	<0.001
Memory	-0.54 (-0.94, -0.14)	0.01

Abbreviations: ACHIEVE: Aging and Cognitive Health Evaluation in Elders; ARIC-NCS: Atherosclerosis Risk in Communities Neurocognitive Study; CI: confidence interval; SD: standard deviation.

^a Multivariable-adjusted linear regression to estimate change in the quick speech-in-noise score associated with every SD worse in cognitive performance.

^b Models adjusted for age, sex, race, field center, education, body mass index, smoking, hypertension, diabetes, stroke, and cohort (ACHIEVE/ARIC-NCS).