

**Supplemental Material S1.** Characteristics of participants by cohort (Audiometric Hearing Loss) at ACHIEVE baseline (2018–20) and ARIC-NCS Visit 6/7 (2016–17/2018–19).

	Total N=602	Cohort		P-value <sup>a</sup>
		ACHIEVE (hearing loss) N=427	ARIC-NCS (normal hearing) N=175	
<b>Age (years), Mean (SD)</b>	76.8 (3.9)	75.9 (4.0)	79.0 (2.8)	<0.001
<b>Female, N (%)</b>	338 (56.1)	218 (51.1)	120 (68.6)	<0.001
<b>Black, N (%)</b>	104 (17.3)	47 (11.0)	57 (32.6)	<0.001
<b>Education, N (%)</b>				0.95
Below High School	23 (3.8)	16 (3.7)	7 (4.0)	
High School or Equivalent	260 (43.2)	183 (42.9)	77 (44.0)	
Above High School	319 (53.0)	228 (53.4)	91 (52.0)	
<b>Cigarette Smoking, N (%)</b>				0.07
Never	289 (48.0)	211 (49.4)	78 (44.6)	
Former	291 (48.3)	205 (48.0)	86 (49.1)	
Current	22 (3.7)	11 (2.6)	11 (6.3)	
<b>Body Mass Index (kg/m<sup>2</sup>), Mean (SD)</b>	28.9 (5.4)	28.8 (5.4)	29.0 (5.4)	0.70
<b>Hypertension, N (%)</b>	422 (70.1)	280 (65.6)	142 (81.1)	<0.001
<b>Diabetes, N (%)</b>	132 (21.9)	76 (17.8)	56 (32.0)	<0.001
<b>Stroke, N (%)</b>	34 (5.6)	27 (6.3)	7 (4.0)	0.26
<b>Pure-tone Average (dB HL), Mean (SD)</b>	33.1 (11.4)	39.2 (7.0)	18.5 (4.8)	<0.001
<b>QuickSIN score, Mean (SD)</b>	19.3 (4.9)	18.6 (5.4)	21.1 (3.0)	<0.001

**Abbreviations:** ACHIEVE: Aging and Cognitive Health Evaluation in Elders; ARIC-NCS: Atherosclerosis Risk in Communities Neurocognitive Study; SD: standard deviation; dB HL: decibels hearing level; QuickSIN: Quick Speech-in-Noise.

<sup>a</sup> P-values were calculated by t-test for continuous variables and Pearson chi-squared test for categorical variables.