

Supplemental Table 1. Comparison of participant characteristics in the analytic sample to the ARIC Sleep Heart Health Study (SHHS) Cohort

	Analytic Sample (N=1,525)	ARIC SHHS (N=1,920)
Demographics		
Baseline age, mean years \pm SD	62.5 \pm 5.4	62.5 \pm 5.6
Female, n (%)	799 (52.4)	988 (51.4)
Education Level, n (%)		
< high school	159 (10.4)	211 (11.0)
high school graduate	712 (46.7)	675 (35.2)
> high school graduate	654 (42.9)	1031 (53.7)
Lifestyle Behavioral Characteristics		
Smoking, n (%)		
Current	163 (10.7)	199 (10.4)
Former	739 (48.5)	871 (45.4)
Never	623 (40.8)	846 (44.0)
Current Alcohol consumption, n (%)		
Current	1042 (68.3)	866 (45.1)
Health Status Characteristics		
BMI, kg/m ² , mean \pm SD	28.6 \pm 5.1	28.8 \pm 5.1
Systolic BP, mmHg, mean \pm SD	125.4 \pm 17.7	121.6 \pm 17.2
Diastolic BP, mmHg, mean \pm SD	70.7 \pm 9.4	71.2 \pm 9.5
Anti-hypertensive medication use, n (%)	423 (27.7)	669 (34.8)
Sleep Characteristics		
Arousal index, avg # per night, mean \pm SD	19.1 \pm 9.9	19.26 \pm 10.3
Sleep efficiency, mean \pm SD	84.0 \pm 9.1	83.8 \pm 9.4
Self-reported poor sleep quality, n (%)	645 (42.3)	822 (42.8)
Habitual sleep duration, avg hrs/night, mean \pm SD	7.3 \pm 1.1	7.3 \pm 1.1

Presented as mean \pm SD unless otherwise noted

Supplemental Table 2: Associations of obstructive sleep apnea (OSA) severity and risk of incident Chronic Kidney Disease (CKD, Stage 3) stratified by age: the Atherosclerosis Risk in Communities (ARIC) Study (N=1525)

Participants < 62 years (n=713)					
AHI category	< 5	5 - 14.9	15 - 29	≥ 30	p-trend
Model 1	1 (reference)	1.07 (0.74, 1.55)	1.04 (0.62, 1.75)	2.34 (1.34, 4.08)	<0.001
Model 2	1 (reference)	1.05 (0.72, 1.53)	0.94 (0.55, 1.59)	2.25 (1.28, 3.95)	<0.01
Model 3	1 (reference)	0.83 (0.56, 1.22)	0.67 (0.39, 1.17)	1.32 (0.71, 2.45)	0.38
Model 4	1 (reference)	0.82 (0.55, 1.22)	0.63 (0.36, 1.11)	1.11 (0.60, 2.06)	0.55
Participants ≥ 62 years (n=812)					
AHI category	< 5	5 - 14.9	15 - 29	≥ 30	p-trend
Model 1	1 (reference)	0.89 (0.68, 1.16)	0.87 (0.61, 1.24)	1.25 (0.83, 1.89)	0.39
Model 2	1 (reference)	0.96 (0.73, 1.27)	0.88 (0.62, 1.26)	1.32 (0.87, 1.99)	0.34
Model 3	1 (reference)	0.93 (0.71, 1.23)	0.78 (0.55, 1.13)	1.02 (0.66, 1.59)	0.70
Model 4	1 (reference)	0.87 (0.65, 1.15)	0.82 (0.57, 1.18)	1.05 (0.68, 1.62)	0.99

Model 1: Adjusted for age, sex, center, education

Model 2: Adjusted for Model 1 + smoking, alcohol consumption, physical activity

Model 3: Adjusted for Model 2 + BMI

Model 4: Adjusted for Model 3 + hsCRP, prevalent diabetes, systolic blood pressure, diastolic blood pressure, anti-hypertensive medications, and prevalent CHD