

Characteristic	OR	95% CI	p-value
Gender			
Male	—	—	
Female	0.63	0.50, 0.78	<0.001
Race			
White	—	—	
Black	1.17	0.93, 1.47	0.191
Age at Year 3 Clinic Visit			
70-74	—	—	
75-79	1.26	1.00, 1.61	0.055
80-84	1.63	1.12, 2.33	0.009
Education			
Less than High School	—	—	
High School Graduate	0.59	0.44, 0.80	<0.001
Post-secondary Schooling	0.55	0.41, 0.72	<0.001
Alcohol Consumption			
Never	—	—	
Current	0.92	0.71, 1.20	0.557
Former	1.29	0.94, 1.77	0.111
Smoking Status			
Never	—	—	
Former	0.97	0.77, 1.22	0.774
Current	1.73	1.14, 2.58	0.009
Family Income			
less than \$10,000	—	—	
\$10,000 to \$25,000	0.95	0.66, 1.39	0.797
> \$25,000 up to \$50,000	0.88	0.61, 1.29	0.513
≥ \$50,000	0.62	0.40, 0.96	0.031
Spirituality/Religion			
Not Important	—	—	
Important	0.61	0.37, 1.02	0.049
Site			

Memphis	—	—	
Pittsburgh	0.78	0.63, 0.98	0.03
Daytime Sleepiness	1.08	0.78, 1.48	0.64
Depressive Symptoms	1.2	0.85, 1.68	0.285
Anxiety Symptoms	0.79	0.62, 1.00	0.057
Hit Head Hard Enough to Faint	1.28	0.89, 1.82	0.175
Parkinsons Disease	3.95	0.93, 16.8	0.053
BMI			
<25	—	—	
25-29.9	0.78	0.60, 1.00	0.05
>30	0.72	0.53, 0.97	0.031
Avg sitting systolic BP, z score	1.01	0.90, 1.12	0.926
Avg sitting diastolic BP, z score	0.95	0.85, 1.07	0.399
Self-reported Health			
Excellent/Very Good	—	—	
Good	1.27	0.99, 1.63	0.062
Fair/Poor	1.81	1.33, 2.45	<0.001
Cognitive Impairment	3.11	2.21, 4.35	<0.001
Pneumonia, preceding 6 months	1.57	0.43, 4.73	0.445
MI/Heart Disease	1.33	1.02, 1.71	0.03
Cerebrovascular Disease	1.23	0.83, 1.77	0.289
Hypertension	1.05	0.84, 1.32	0.643
Diabetes Mellitus	1.1	0.82, 1.47	0.521

SUPPLEMENTARY TABLE 1: Univariable logistic regression analysis of variables associated with hyposmia (CC-SIT SCORE = 7 or 8) compared to good olfaction (CC-SIT SCORE \geq 9). OR = Odds Ratio, CI = Confidence Interval

Hyposmia - Odds Ratio (95% Confidence Interval), *p* value

Characteristic	Model 1	Model 2	Model 3	Model 4	Model 5
Gender					
Male	—	—	—	—	—
Female	0.61 (0.49, 0.77), $\mathbf{0.001}$	0.62 (0.49, 0.78), $\mathbf{0.001}$	0.59 (0.46, 0.74), $\mathbf{0.001}$	0.56 (0.44, 0.72), $\mathbf{0.001}$	0.51 (0.41, 0.63), $\mathbf{0.001}$
Race					
White	—	—	—	—	—
Black	1.27 (1.01, 1.61), $\mathbf{0.044}$	1.08 (0.84, 1.38), 0.564	1.02 (0.78, 1.32), 0.907	0.96 (0.73, 1.25), 0.765	1.04 (0.82, 1.32), 0.753
Age					
70-74	—	—	—	—	—
75-79	1.26 (0.99, 1.60), 0.063	1.27 (1.00, 1.62), $\mathbf{0.050}$	1.27 (1.00, 1.62), 0.053	1.28 (1.00, 1.63), $\mathbf{0.047}$	1.35 (1.10, 1.66), $\mathbf{0.005}$
80-84	1.65 (1.13, 2.37), $\mathbf{0.008}$	1.68 (1.15, 2.42), $\mathbf{0.006}$	1.68 (1.15, 2.43), $\mathbf{0.006}$	1.70 (1.16, 2.45), $\mathbf{0.006}$	1.99 (1.45, 2.72), $\mathbf{0.001}$
Education					
Less than High School	—	—	—	—	—
High School Graduate	—	0.62 (0.46, 0.84), 0.002	0.63 (0.46, 0.86), 0.003	0.62 (0.45, 0.85), 0.003	0.83 (0.62, 1.10), 0.186
Some college	—	0.54 (0.40, 0.73), $\mathbf{0.001}$	0.60 (0.43, 0.83), $\mathbf{0.002}$	0.61 (0.44, 0.84), $\mathbf{0.003}$	0.84 (0.62, 1.13), 0.240
Family Income					
less than \$10,000	—	—	—	—	—
\$10,000 to \$25,000	—	—	0.96 (0.65, 1.43), 0.821	0.97 (0.66, 1.45), 0.886	0.86 (0.63, 1.20), 0.382
\$25,000 to \$50,000	—	—	0.94 (0.61, 1.45), 0.767	0.96 (0.63, 1.49), 0.853	0.86 (0.60, 1.23), 0.396
≥ \$50,000	—	—	0.63 (0.38, 1.05), 0.073	0.66 (0.40, 1.12), 0.121	0.64 (0.42, 0.97), $\mathbf{0.037}$
Alcohol Consumption					
Never	—	—	—	—	—
Current	—	—	—	0.94 (0.71, 1.26), 0.684	1.03 (0.80, 1.32), 0.827
Former	—	—	—	1.17 (0.83, 1.64), 0.362	1.25 (0.93, 1.67), 0.140
Smoking Status					
Never	—	—	—	—	—
Former	—	—	—	0.80 (0.62, 1.04), 0.096	0.90 (0.73, 1.12), 0.363
Current	—	—	—	1.55 (1.00, 2.37), $\mathbf{0.046}$	1.32 (0.90, 1.93), 0.156
Site					
Memphis	—	—	—	—	—
Pittsburgh	—	—	—	—	0.96 (0.78, 1.17), 0.655
BMI					
<25	—	—	—	—	—
25-29.9	—	—	—	—	0.82 (0.66, 1.03), 0.085
>30	—	—	—	—	0.74 (0.56, 0.96), $\mathbf{0.025}$
Systolic BP					
0.96 (0.86, 1.08), 0.522					
Diastolic BP					
1.04 (0.93, 1.16), 0.473					
Self-reported Health					

Excellent/Very Good	
Good	1.20 (0.97, 1.49), 0.100
Fair/Poor	1.58 (1.18, 2.11), 0.002
Depressive Symptoms	0.98 (0.70, 1.35), 0.890
Anxiety Symptoms	0.79 (0.63, 0.99), 0.041
Hit Head Hard	1.18 (0.85, 1.62), 0.312
Parkinson's Disease	4.33 (1.30, 16.8), 0.021
Cognitive Impairment	2.96 (2.14, 4.11), <.001
Hypertension	0.95 (0.77, 1.17), 0.620
Cerebrovascular Disease	0.99 (0.70, 1.39), 0.950

Supplementary Table 2: Multivariable logistic regression models of variables associated with hyposmia (CC-SIT Score 7 or 8) compared to good olfaction (CC-SIT score ≥ 9). Model 1: Gender + race + age; Model 2: Model 1 + education; Model 3: Model 2 + socioeconomic status; Model 4: Model 3 + lifestyle/behavioral factors; Model 5: Model 4 + comorbidities. OR = Odds Ratio, CI = Confidence Interval

