

## **SUPPLEMENTAL MATERIAL**

### **Traffic-Related Air Pollution and Cognitive Function in a Cohort of Older Men**

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**Supplemental Material, Table 1.** Multivariate-adjusted linear mixed model of global cognitive function

Covariate	Beta	95% CI
Intercept	1.884	1.424, 2.344
Ln(BC)	-0.078	-0.148, -0.008
Age	-0.028	-0.033, -0.024
Education		
16+ years	0.227	0.104, 0.350
12-16 years	0.157	0.061, 0.252
First language		
Not English	-0.021	-0.134, 0.092
Computer experience		
No computer experience	-0.242	-0.330, -0.155
Physical activity		
12-30 MET-hrs per week	0.160	0.068, 0.253
30+ MET-hrs per week	0.062	-0.046, 0.169
Alcohol		
2+ drinks per day	0.075	-0.014, 0.166
Diabetes	0.033	-0.076, 0.143
Dark Fish Consumption		
Once a week or more	-0.032	-0.144, 0.081
Percent of census tract		
Non-white	-0.000	-0.004, 0.004
Ages 25+ with at least a college degree	0.002	-0.001, 0.004
First cognitive test	-0.091	-0.154, -0.029
Part time resident	-0.069	-0.208, 0.071

Abbreviations: Metabolic Equivalent Hours, MET-hrs; Black carbon, BC; Confidence interval, CI

**Supplemental Material, Table 2.** Multivariate-adjusted logistic model using generalized estimating equations and empirical variance estimates for low MMSE scores

Covariate	Beta	95%CI
Intercept	-7.383	-9.199, -5.566
Ln(BC)	0.397	0.095, 0.698
Age	0.087	0.064, 0.111
Education		
16+ years	-0.830	-1.363, -0.296
12-16 years	-0.646	-1.028, -0.264
First language		
Not English	0.354	-0.090, 0.797
Computer experience		
No computer experience	0.319	-0.080, 0.717
Physical activity		
12-30 MET-hrs per week	-0.826	-1.236, -0.417
30+ MET-hrs per week	-0.521	-1.035, -0.007
Alcohol		
2+ drinks per day	-0.470	-0.841, -0.099
Diabetes	0.289	-0.159, 0.737
Dark Fish Consumption		
Once a week or more	-0.135	-0.607, 0.338
Percent of census tract		
Non-white	0.003	-0.012, 0.017
Ages 25+ with at least a college degree	0.005	-0.006, 0.016
First cognitive test	0.271	-0.134, 0.676
Part time resident	0.382	-0.297, 1.061

Abbreviations: Metabolic Equivalent Hours, MET-hrs; Black carbon, BC; Confidence interval, CI