Supplemental Table 1

*Type III Tests of Fixed Effects for the Main Effect of Alcohol Consumption on Cognition at Age 56 (Simple Models)*

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| Cognitive Domain*Estimate* (*SE*) | N | Never(n=118) | Former(n=324) | Light(n=531) | Moderate (n=130) | Heavy(n=188) | *F-test* | Eta2 |
| Age 56 GCA | 1263 | 0.45 (0.06) | 0.38 (0.04) | 0.50 (0.03) | 0.42 (0.05) | 0.33 (0.05) | *F*(4, 613) = 3.58, ***p* = 0.007** | 0.015 |
| Processing Speed | 1259 | -0.06 (0.07) | -0.14 (0.05) | 0.10 (0.04) | 0.00 (0.07) | -0.07 (0.06) | *F*(4, 611) = 5.39, ***p* < 0.001** | 0.027 |
| Executive Function | 1265 | 0.03 (0.03) | -0.00 (0.02) | 0.03 (0.01) | 0.04 (0.02) | -0.03 (0.02) | *F*(4, 615) = 2.27, *p* = 0.061 | 0.010 |
| Episodic Memory | 1265 | 0.06 (0.07) | -0.04 (0.05) | 0.03 (0.07) | 0.06 (0.06) | -0.07 (0.06) | *F*(4, 615) = 1.31, *p* = 0.263 | 0.008 |
| Abstract Reasoning | 1259 | -0.02 (0.10) | -0.11 (0.06) | 0.15 (0.05) | 0.02 (0.09) | -0.17 (0.08) | *F*(4, 610) = 4.85, ***p* < 0.001** | 0.017 |
| Verbal Fluency | 1258 | -0.06 (0.08) | -0.15 (0.06) | 0.05 (0.04) | 0.14 (0.08) | -0.01 (0.07) | *F*(4, 610) = 3.24, ***p* = 0.012** | 0.018 |
| Visuospatial Ability | 1264 | 0.02 (0.08) | -0.05 (0.05) | 0.09 (0.04) | -0.06 (0.07) | -0.13 (0.06) | *F*(4, 614) = 3.20, ***p* = 0.013** | 0.010 |

*Note*: All estimates and standard errors presented are from analyses with alcohol consumption group, ApoE genotype and their interaction in the simple model adjusting for family. Cognitive domain scores were z-score composites except for general cognitive ability (GCA), which was standardized based on military norms. Eta2 indicates the effect size. Significant *p* values are highlighted in bold (*p* < .05).