**Supplementary Table 3- Multivariable linear regressions for the association between uric acid quartiles and episodic memory test and reaction time test**

|  |  |  |  |
| --- | --- | --- | --- |
| 95% Confidence Interval | P-value | Coefficient |  |
| Memory test performance | | | |
| Uric acid categories | | | |
| -1.84 to 3.20 | 0.474 | -6.89 | Group 2,  n= 226 |
| 0.96 to 6.37 | 0.729 | -4.46 | Group 3,  n= 233 |
| -4.16 to 1.75 | 0.168 | -10.07 | Group 4,  n= 232 |
| 41.09 to 54.45 | 0.000 | 27.73 | Constant |
| Reaction Test Score | | | |
|  |  |  | Uric acid categories |
| - -124.25 to 156.41 | 0.822 | 16.08 | Group 2,  n= 226 |
| -198.45 to 102.62 | 0.532 | -47.91 | Group 3,  n= 233 |
| -208.09 to 120.81 | 0.603 | -43.64 | Group 4,  n= 232 |
| 330.19 to 1072.94 | <0.001 | 701.57 | Constant |

**Supplementary Table 3:** showing results of two multivariable linear regression models between sUA quartiles and cognitive function adjusted for age, gender, BMI, education, diabetes and hypertension.

Participants were divided among quartiles based on their sUA level, group 1 included participants with sUA < 243 µmol/L, group 2 included participants with sUA < 294 µmol/L, group 3 included participants with sUA < 344 µmol/L, and group 4 included participants with sUA ≥ 344 µmol/L.