**Supplementary Table 2.** Correlational matrix for variables used in multinomial logistic regression models

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  |  | Word recall | General knowledge | Category fluency | Pattern comparison | Trail making B | *APOE* | Hippocampal volume | White matter hyper-intensity volume |
| Word recall | Pearson Correlation  Sig. (2-tailed)  N | - | 0.09  0.072  414 | 0.37\*\*  <0.000  415 | 0.36\*\*  <0.000  413 | 0.15\*\*  0.003  412 | -0.01  0.806  407 | 0.29\*\*  <0.000  405 | -0.17\*\*  0.001  405 |
| General knowledge | Pearson Correlation  Sig. (2-tailed)  N |  | - | 0.16\*\*  0.001  413 | 0.13\*\*  0.008  410 | 0.13\*\*  0.009  409 | -0.03  0.621  405 | 0.05  0.344  404 | -0.11\*  0.022  403 |
| Category fluency | Pearson Correlation  Sig. (2-tailed)  N |  |  | - | 0.53\*\*  <0.000  412 | 0.20\*\*  <0.000  411 | -0.01  0.815  406 | 0.24\*\*  <0.000  404 | -0.21\*\*  <0.000  404 |
| Pattern comparison | Pearson Correlation  Sig. (2-tailed)  N |  |  |  | - | 0.20\*\*  <0.000  412 | -0.11\*  0.025  403 | 0.39\*\*  <0.000  401 | -0.28\*\*  <0.000  401 |
| Trail making B | Pearson Correlation  Sig. (2-tailed)  N |  |  |  |  | - | -0.03  .0493  402 | 0.18\*\*  <0.000  400 | -0.16\*\*  0.002  400 |
| *APOE* | Pearson Correlation  Sig. (2-tailed)  N |  |  |  |  |  | - | -0.06  0.203  396 | -0.01  0.902  396 |
| Hippocampal volume | Pearson Correlation  Sig. (2-tailed)  N |  |  |  |  |  |  | - | -0.37\*\*  <0.000  394 |
| White matter hyper-intensity volume | Pearson Correlation  Sig. (2-tailed)  N |  |  |  |  |  |  |  | - |

\* p<0.05; \*\* p<0.01