Table e-2: Mixed linear regression of activity impact on cognition with covariates, without education.

|  |  |  |
| --- | --- | --- |
|  | ***Women***  | ***Men*** |
|  | ***Dementia-free*** | ***Dementia cases*** | ***Dementia-free*** | ***Dementia cases*** |
| ***z-values of***  | ***β*** | ***CI 95%*** | ***β*** | ***CI 95%*** | ***β*** | ***CI 95%*** | ***β*** | ***CI 95%*** |
| ***WT1*** |  |  |  |  |  |  |  |  |
| Inactive | Ref | (-) | Ref | (-) | Ref | (-) | Ref | (-) |
| Active | 0.08\*\* | (0.03- 0.13) | 0.12 | (-0.02- 0.26) | 0.10\*\*\* | (0.05- 0.16) | 0.02 | (-0.15- 0.19) |
|  Very active | 0.12\*\*\* | (0.05- 0.19) | 0.26\* | (0.01- 0.52) | 0.16\*\*\* | (0.09- 0.22) | -0.06 | (-0.29- 0.17) |
| ***WT2*** |  |  |  |  |  |  |  |  |
| Inactive | Ref | (-) | Ref | (-) | Ref | (-) | Ref | (-) |
| Active | 0.14\*\*\* | (0.09- 0.19) | 0.09 | (-0.11- 0.30) | 0.13\*\*\* | (0.07- 0.19) | 0.15 | (-0.07- 0.38) |
| Very active | 0.14\*\*\* | (0.06- 0.21) | 0.23 | (-0.15- 0.61) | 0.15\*\*\* | (0.09- 0.22) | 0.26 | (-0.05- 0.57) |
| ***DSCT*** |  |  |  |  |  |  |  |  |
| Inactive | Ref | (-) | Ref | (-) | Ref | (-) | Ref | (-) |
| Active | 0.20\*\*\* | (0.16- 0.25) | 0.19\*\* | (0.07- 0.32) | 0.15\*\*\* | (0.11- 0.20) | 0.03 | (-0.11- 0.18) |
| Very active | 0.22\*\*\* | (0.16- 0.28) | 0.46\*\*\* | (0.23- 0.69) | 0.18\*\*\* | (0.13- 0.23) | 0.30\*\* | (0.11- 0.49) |
| ***MMSE*** |  |  |  |  |  |  |  |  |
| Inactive | Ref | (-) | Ref | (-) | Ref | (-) | Ref | (-) |
| Active | 0.05 | (-0.03- 0.12) | 0.18 | (-0.40- 0.75) | 0.12\*\* | (0.05- 0.19) | 0.41 | (-0.46- 1.28) |
| Very active | 0.05 | (-0.05- 0.14) | 0.36 | (-0.48- 1.21) | 0.13\*\* | (0.05- 0.21) | 0.68 | (-0.29- 1.66) |
| ***FTT*** |  |  |  |  |  |  |  |  |
| Inactive | Ref | (-) | Ref | (-) | Ref | (-) | Ref | (-) |
| Active | 0.14\*\*\* | (0.10- 0.19) | -0.08 | (-0.23- 0.08) | 0.09\*\*\* | (0.05- 0.14) | -0.03 | (-0.20- 0.14) |
| Very active | 0.25\*\*\* | (0.19- 0.31) | 0.10 | (-0.19- 0.38) | 0.13\*\*\* | (0.08- 0.19) | -0.02 | (-0.25- 0.22) |
| ***Global CF*** |  |  |  |  |  |  |  |  |
| Inactive | Ref | (-) | Ref | (-) | Ref | (-) | Ref | (-) |
| Active | 0.15\*\*\* | (0.12- 0.18) | 0.04 | (-0.07- 0.15) | 0.12\*\*\* | (0.09- 0.16) | 0.03 | (-0.09- 0.14) |
| Very active | 0.18\*\*\* | (0.13- 0.22) | 0.26\* | (0.06- 0.46) | 0.15\*\*\* | (0.11- 0.20) | 0.09 | (-0.07- 0.25) |

*Table e-2: Multiple mixed linear regression with nested id and z-values of the five cognitive tests and global cognitive test score as outcome. All models are adjusted for age and time. β is the β-coefficient for active and very active, with inactive as reference. ICC, intraclass correlation. \*p < 0.05, \*\*p < 0.01, \*\*\*p < 0.001.*