**Supporting information – Table 1**: Cerebrospinal fluid concentrations of selenium species (ng/mL) and their association with hippocampal volumes (cm3) among 33 patients with Mild Cognitive Impairment considering sex, age, education, intracranial volume, income and time from CSF sampling.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | | **β** | | **(95%CI)** |
| *Left Hippocampus* |  | |
| Total Se | | -0.14 | | (-0.38-0.10) |
| Inorganic Se | | -0.27 | | (-1.10-0.57) |
| Se(IV) | | 0.12 | | (-1.02-1.25) |
| Se(VI) | | -1.71 | | (-3.48-0.07) |
| Organic Se | | -0.13 | | (-0.40-0.15) |
| Se-SELENOP | | -0.14 | | (-0.44-0.15) |
| Se-Met | | -1.07 | | (-3.93-1.79) |
| Se-Cys | | 3.12 | | (-0.92-7.16) |
| Se-GPX | | -1.64 | | (-5.05-1.77) |
| Se-HSA | | 0.02 | | (-0.39-0.43) |
| Unknown Se species | | -0.33 | | (-1.72-1.05) |
| *Right Hippocampus* |  | |
| Total Se | | -0.1 | | (-0.33-0.12) |
| Inorganic Se | | -0.23 | | (-1.00-0.55) |
| Se(IV) | | -0.01 | | (-1.07-1.04) |
| Se(VI) | | -1.11 | | (-2.83-0.60) |
| Organic Se | | -0.13 | | (-0.38-0.12) |
| Se-SELENOP | | -0.14 | | (-0.41-0.14) |
| Se-Met | | -1.24 | | (-3.88-1.40) |
| Se-Cys | | 2.3 | | (-1.53-6.12) |
| Se-GPX | | -1.81 | | (-4.95-1.33) |
| Se-HSA | | 0.05 | | (-0.33-0.44) |
| Unknown Se species | | 0.04 | | (-1.26-1.33) |