**Supplementary Material**

Supplementary Table 1. *Comparison between the analyzed and the non-analyzed sample.*

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
|            | Patients included in the analyses1 (*n*=156)   | Patients not included in the analyses2 (*n*=559)   | t/χ2   | *df*   | *p*   | *d/*φc   | Data avai-lable  |
| Age in years, M (SD)3  | 73.00 (10.78)  | 74.34 (14.41)  | 1.27  | 325.61  | .21  | .10  | 715  |
| Sex, n female (%)   | 41.00  | 46.30  | 1.39  | 1.00  | .24  | .04  | 715  |
| NIHSS score within 24 hours after admission, M (SD)3  | 3.59 (4.27)  | 6.97 (7.29)  | 6.78  | 402.89  | < .001\*  | .51  | 590  |
| MMSE during hospital stay (range 0-30), M (SD)3  | 25.34 (4.83)  | 23.19 (5.77)  | -3.31  | 195.75  | .001\*  | .39  | 301  |
| CDT during hospital stay (range 0-5), M (SD)   | 3.71 (1.39)  | 3.50 (1.51)  | -1.10  | 291  | .28  | .14  | 293  |
| mRS day 7 (range 0-5), M (SD)   | .99 (.09)  | .99 (.09)  | -.002  | 481  | > .99  | .00  | 483  |

*Note.* 1Patients who answered both the three- and 12-month questionnaire and met the inclusion criteria.2Patients where data at three- and/or 12-months was unavailable. 3Welch’s independent samples t-test was used due to unequal variances. \*Significant group difference, p ≤ .05. MMSE=Mini-Mental State Examination, measuring general cognitive function. CDT=The Clock Drawing Test, assessing visuospatial and executive function. mRS= modified Rankin Scale, assessing dependence in activities of daily living and disability post-stroke. A mRS-score of six denotes death. mRS was assessed at the SU seven days after admission (or at discharge if sooner).

Supplementary Table 2. *Full regression model with HADS-A predicting fatigue.*

|  |  |  |
| --- | --- | --- |
|  | **Increased fatigue (12 months)** |  |
|  |  | 95% CI |  |  |
| **Predictors** | OR | Lower | Upper | p  | R2 |
|  | Age | .94 | .89 | .98 | .006\* | .43 |
|   | Sex (female) | 2.14 | .82 | 5.64 | .12 |  |
|   | NIHSS | .96 | .85 | 1.07 | .45 |  |
|   | Difficulties sleeping at night (12 months) | 9.21 | 2.24 | 37.96 | .002\* |  |
|   | HADS-A (3 months) | 1.28 | 1.12 | 1.47 | < .001\*  |  |

*Note:* \* = Significant result at p ≤ .0125. R2=Nagelkerke R2

Supplementary Table 3. *Full regression model with HADS-D predicting fatigue.*

|  |  |  |
| --- | --- | --- |
|  | **Increased fatigue (12 months)** |  |
|  |  | 95% CI |  |  |
| **Predictors** | OR | Lower | Upper | p  | R2 |
|  | Age | .93 | .89 | .98 | .003\* | .39 |
|   | Sex (female) | 2.41 | .92 | 6.31 | .07 |  |
|   | NIHSS | .95 | .84 | 1.07 | .37 |  |
|   | Difficulties sleeping at night (12 months) | 8.81 | 2.22 | 34.96 | .002\* |  |
|   | HADS-D (3 months) | 1.22 | 1.08 | 1.37 | .001\* |  |

*Note:* \* = Significant result at p ≤ .0125. R2=Nagelkerke R2

Supplementary Table 4. *Full regression model with concentration predicting fatigue.*

|  |  |  |
| --- | --- | --- |
|  | **Increased fatigue (12 months)** |  |
|  |  | 95% CI |  |  |
| **Predictors** | OR | Lower | Upper | p  | R2 |
|  | Age | .93 | .89 | .98 | .007\* | .42 |
|   | Sex (female) | 2.68 | .96 | 7.45 | .06 |  |
|   | NIHSS | .96 | .84 | 1.08 | .50 |  |
|   | Difficulties sleeping at night (12 months) | 15.01 | 3.37 | 66.79 | < .001\* |  |
|   | Worse concentration (3 months) | 7.68 | 2.35 | 25.04 | < .001\* | . |

*Note:* \* = Significant result at p ≤ .0125. R2=Nagelkerke R2

Supplementary Table 5. *Full regression model with memory predicting fatigue.*

|  |  |  |
| --- | --- | --- |
|  | **Increased fatigue (12 months)** |  |
|  |  | 95% CI |  |  |
| **Predictors** | OR | Lower | Upper | p  | R2 |
|  | Age | .93 | .89 | .98 | .004\* | .40 |
|   | Sex | 3.19 | 1.14 | 8.89 | .03 |  |
|   | NIHSS | .97 | .86 | 1.09 | .58 |  |
|   | Difficulties sleeping at night (12 months) | 10.97 | 2.68 | 44.91 | < .001\* |  |
|   | Worse memory (3 months) | 4.05 | 1.48 | 11.10 | .007\* |  |

*Note:* \* = Significant result at p ≤ .0125; R2=Nagelkerke R2

Supplementary Table 6. *Full regression model with HADS-A predicting daytime sleep.*

|  |  |  |
| --- | --- | --- |
|  | **Increased daytime sleep (12 months)** |  |
|  |  | 95% CI |  |  |
| **Predictors** | OR | Lower | Upper | R2 |
|  | Age | 1.02 | .98 | 1.05 | .13 |
|   | Sex (female) | .59 | .27 | 1.29 |  |  |
|   | NIHSS | 1.01 | .93 | 1.10 |  |  |
|   | Difficulties sleeping at night (12 months) | 2.89 | 1.10 | 7.60 |  |  |
|   | HADS-A (3 months) | 1.11 | 1.01 | 1.24 |  |  |

*Note:* R2=Nagelkerke R2

Supplementary Table 7. *Full regression model with HADS-D predicting daytime sleep.*

|  |  |  |
| --- | --- | --- |
|  | **Increased daytime sleep (12 months)** |  |
|  |  | 95% CI |  |  |
| **Predictors** | OR | Lower | Upper | R2 |
|  | Age | 1.01 | .97 | 1.05 | .13 |
|   | Sex (female) | .66 | .30 | 1.43 |  |  |
|   | NIHSS | 1.00 | .92 | 1.09 |  |  |
|   | Difficulties sleeping at night (12 months) | 2.96 | 1.13 | 7.73 |  |  |
|   | HADS-D (3 months) | 1.11 | 1.01 | 1.22 |  |  |

*Note:* R2=Nagelkerke R2

Supplementary Table 8. *Full regression model with concentration predicting daytime sleep.*

|  |  |  |
| --- | --- | --- |
|  | **Increased daytime sleep (12 months)** |  |
|  |  | 95% CI |  |  |
| **Predictors** | OR | Lower | Upper | R2 |
|  | Age | 1.03 | .99 | 1.08 | .22 |
|   | Sex (female) | .42 | .17 | 1.03 |  |  |
|   | NIHSS | 1.03 | .92 | 1.15 |  |  |
|   | Difficulties sleeping at night (12 months) | 3.43 | 1.24 | 9.47 |  |  |
|   | Worse concentration (3 months)  | 4.89 | 1.85 | 12.93 |  |  |

*Note:* R2=Nagelkerke R2

Supplementary Table 9. *Full regression model with memory predicting daytime sleep.*

|  |  |  |
| --- | --- | --- |
|  | **Increased daytime sleep (12 months)** |  |
|  |  | 95% CI |  |  |
| **Predictors** | OR | Lower | Upper | R2 |
|  | Age | 1.02 | .98 | 1.06 | .19 |
|   | Sex (female) | .60 | .26 | 1.38 |  |  |
|   | NIHSS | 1.00 | .91 | 1.09 |  |  |
|   | Difficulties sleeping at night (12 months) | 3.31 | 1.20 | 9.12 |  |  |
|   | Worse memory (3 months) | 3.39 | 1.45 | 7.94 |  |  |

*Note:* R2=Nagelkerke R2