**S11 Table. Factor loadings for BPSDs in patients with Frontotemporal lobar degeneration**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| 　 | Factor 1 | Factor 2 | Factor 3 | Factor 4 | Factor 5 |
| Eigenvalues | 3.98 | 1.65 | 1.35 | 1.15 | 1.04 |
| % of variance explained | 33.2 | 13.7 | 11.3 | 9.6 | 8.7 |
| Delusions | **0.366**  | -0.039  | **0.619**  | -0.236  | **0.371**  |
| Hallucinations | -0.018  | **0.868**  | 0.207  | 0.038  | -0.113  |
| Agitation | **0.757**  | 0.292  | 0.297  | 0.120  | 0.135  |
| Depression | 0.018  | -0.001  | 0.028  | 0.116  | **0.937**  |
| Anxiety | 0.050  | **0.699**  | 0.210  | -0.093  | **0.414**  |
| Euphoria | **0.463**  | **0.599**  | -0.124  | 0.253  | -0.117  |
| Apathy | 0.021  | -0.014  | 0.180  | **0.875**  | 0.027  |
| Disinhibition | **0.864**  | 0.121  | 0.074  | 0.217  | -0.063  |
| Irritability | **0.812**  | -0.215  | 0.200  | -0.181  | 0.039  |
| AMB | 0.299  | 0.069  | **0.725**  | **0.348**  | 0.089  |
| Sleep disturbances | 0.019  | **0.339**  | **0.815**  | 0.164  | -0.110  |
| Eating abnormalities | **0.514**  | 0.205  | 0.053  | **0.539**  | 0.188  |

AMB: Aberrant motor behavior

Significant loadings (≥ 0.30) were entered into the factor and are displayed in boldface.

The value of KMO was 0.694, and the Barlett’s sphericity test reached statistical significance (χ²=262.5, df=66, p<0.001). The PCA found five components with eigenvalues exceeding 1, explaining 33.2, 13.7, 11.3, 9.6, and 8.7 percent of the variance respectively. Moreover, a plain break after the fifth component was seen by visual inspection of the scree plot. The Varimax rotation classified the 12 BPSDs into five factor.