**Supplementary Table 1:** Predictive individual, clinical, treatment- and comorbidities-associated factors for the psychological traits of the NEO-FFI inventory

|  |  |
| --- | --- |
|  | **Multivariate analysis** |
| ***Neuroticism*** | **B** | **(95% CI)** | **p** |
| Age (years)  | -0.02  | (-0.12 - 0.09)  | 0.739  |
| Sex | -1.07  | (-3.66 - 1.52)  | 0.413  |
| Disease activity  | 1.6  | (-1.38 - 4.58)  | 0.29  |
| Surgery  | 0.46  | (-3.3 - 4.22)  | 0.808  |
| Medication  | 1.28  | (-1.36 - 3.92)  | 0.34  |
| Radiation  | 2.16  | (-1.95 - 6.28)  | 0.3  |
| Pituitary insufficiency | 2.52  | (-0.26 - 5.3)  | 0.075  |
| Coronary heart disease  | 1.81  | (-2.25 - 5.86)  | 0.379  |
| Arterial hypertension  | 0.79  | (-2.12 - 3.69)  | 0.593  |
| Diabetes  | 0.32  | (-3.4 - 4.04)  | 0.864  |
| History of malignancy  | -2.3  | (-6.92 - 2.31)  | 0.324  |
| Arthrosis  | 1.13  | (-1.41 - 3.68)  | 0.379  |
| ***Extraversion*** | **B** | **(95% CI)** | **p** |
| Age (years)  | -0.04  | (-0.12 - 0.04)  | 0.338  |
| Sex | -2.61  | (-4.63 - -0.6)  | 0.112  |
| Disease activity  | -2.09  | (-4.7 - 0.52)  | 0.119  |
| Surgery  | -1.5  | (-4.6 - 1.59)  | 0.343  |
| Medication  | 0.26  | (-1.91 - 2.42)  | 0.817  |
| Radiation  | -2.38  | (-6.17 - 1.42)  | 0.222  |
| Pituitary insufficiency  | -0.39  | (-2.23 - 1.46)  | 0.683  |
| Coronary heart disease  | -1.63  | (-4.7 - 1.44)  | 0.301  |
| Arterial hypertension  | 0.58  | (-1.88 - 3.05)  | 0.645  |
| Diabetes  | -0.76  | (-4.03 - 2.51)  | 0.65  |
| History of malignancy  | 2.24  | (-0.33 - 4.82)  | 0.09  |
| Arthrosis  | -0.56  | (-2.67 - 1.56)  | 0.607  |
|  |  |  |  |
| ***Openness to experience*** | **B** | **(95% CI)** | **p** |
| Age (years)  | 0.05  | (-0.05 - 0.14)  | 0.336  |
| Sex | 0.14  | (-1.97 - 2.25)  | 0.898  |
| Disease activity  | -0.7  | (-3.39 - 1.99)  | 0.612  |
| Surgery  | -0.25  | (-3.23 - 2.73)  | 0.87  |
| Medication  | 0.44  | (-1.68 - 2.57)  | 0.685  |
| Radiation  | -1.24  | (-4.44 - 1.97)  | 0.451  |
| Pituitary insufficiency  | 0.29  | (-1.69 - 2.27)  | 0.777  |
| Coronary heart disease  | -2.47  | (-5.29 - 0.35)  | 0.089  |
| Arterial hypertension  | 0.24  | (-2.38 - 2.86)  | 0.858  |
| Diabetes  | 1.49  | (-1.52 - 4.51)  | 0.333  |
| History of malignancy  | -2.75  | (-5.44 - -0.06)  | ***0.047***  |
| Arthrosis  | -1.4  | (-3.38 - 0.58)  | 0.169  |
| ***Agreeableness*** | **B** | **(95% CI)** | **p** |
| Age (years)  | 0  | (-0.08 - 0.07)  | 0.91  |
| Sex | -1.21  | (-2.97 - 0.54)  | 0.178  |
| Disease activity  | -0.29  | (-2.43 - 1.85)  | 0.79  |
| Surgery  | -0.09  | (-2.58 - 2.41)  | 0.946  |
| Medication  | 1.4  | (-0.34 - 3.13)  | 0.117  |
| Radiation  | -2.64  | (-5.66 - 0.38)  | 0.089  |
| Pituitary insufficiency  | -0.9  | (-2.71 - 0.91)  | 0.332  |
| Coronary heart disease  | -1.98  | (-4.64 - -0.32)  | 0.13  |
| Arterial hypertension  | -0.33  | (-2.33 - 1.66)  | 0.742  |
| Diabetes  | 1.09  | (-1.07 - 3.25)  | 0.323  |
| History of malignancy  | 3.21  | (0 - 6.42)  | 0.053  |
| Arthrosis  | -0.03  | (-1.78 - 1.73)  | 0.977  |
| ***Conscientiousness*** | **B** | **(95% CI)** | **p** |
| Age (years)  | 0.01  | (-0.08 - 0.09)  | 0.878  |
| Sex | -1.68  | (-3.88 - 0.51)  | 0.135  |
| Disease activity  | -1.3  | (-3.76 - 1.16)  | 0.303  |
| Surgery  | -1.88  | (-4.97 - 1.21)  | 0.235  |
| Medication  | 0.87  | (-1.26 - 3)  | 0.426  |
| Radiation  | -2.5  | (-6.31 - 1.31)  | 0.201  |
| Pituitary insufficiency | -1.92  | (-4.05 - 0.21)  | 0.079  |
| Coronary heart disease  | -1.32  | (-3.55 - 0.92)  | 0.25  |
| Arterial hypertension  | -0.98  | (-3.31 - 1.35)  | 0.413  |
| Diabetes  | -0.59  | (-3.1 - 1.91)  | 0.643  |
| History of malignancy  | 2.76  | (-0.04 - 5.55)  | 0.056  |
| Arthrosis  | -2.09  | (-3.23 - -0.16)  | 0.067 |

B – increase or decrease of the dependent variable mean; 95% CI- 95% confidence interval