**Supplementary Table 2:** Predictive individual, clinical, treatment- and comorbidities-associated factors for the psychological traits of the IIP-D inventory

|  |  |
| --- | --- |
|  | **Multivariate analysis** |
| ***Domineering*** | B | (95% CI) | p |
| Age (years)  | 0  | (-0.01 - 0.01)  | 0.726  |
| Sex | 0.06  | (-0.17 - 0.29)  | 0.618  |
| Disease activity  | 0.1  | (-0.17 - 0.37)  | 0.472  |
| Surgery  | 0.09  | (-0.25 - 0.43)  | 0.609  |
| Medication  | -0.08  | (-0.31 - 0.16)  | 0.529  |
| Radiation  | 0.3  | (-0.08 - 0.67)  | 0.118  |
| Pituitary insufficiency  | 0.1  | (-0.15 - 0.35)  | 0.427  |
| Coronary heart disease  | 0.24  | (-0.13 - 0.6)  | 0.2  |
| Arterial hypertension  | -0.09  | (-0.36 - 0.17)  | 0.48  |
| Diabetes  | -0.24  | (-0.58 - 0.09)  | 0.152  |
| History of malignancy  | -0.24  | (-0.65 - 0.18)  | 0.265  |
| Arthrosis  | 0  | (-0.23 - 0.23)  | 0.994  |
| ***Vindictive/competing*** | B | (95% CI) | p |
| Age (years)  | 0  | (-0.01 - 0.01)  | 0.835  |
| Sex | 0.16  | (-0.03 - 0.36)  | 0.103  |
| Disease activity  | 0  | (-0.22 - 0.23)  | 0.972  |
| Surgery  | 0.06  | (-0.23 - 0.35)  | 0.676  |
| Medication  | 0.1  | (-0.1 - 0.3)  | 0.313  |
| Radiation  | 0.22  | (-0.09 - 0.53)  | 0.167  |
| Pituitary insufficiency  | 0.05  | (-0.16 - 0.26)  | 0.643  |
| Coronary heart disease  | 0.15  | (-0.16 - 0.46)  | 0.351  |
| Arterial hypertension  | -0.09  | (-0.31 - 0.13)  | 0.413  |
| Diabetes  | 0.12  | (-0.17 - 0.4)  | 0.412  |
| History of malignancy  | -0.21  | (-0.57 - 0.14)  | 0.231  |
| Arthrosis  | 0.2  | (0 - 0.39)  | 0.078 |
| ***Cold/denying*** | B | (95% CI) | p |
| Age (years)  | 0.01  | (0 - 0.02)  | 0.202  |
| Sex | 0.21  | (-0.04 - 0.47)  | 0.099  |
| Disease activity  | 0.17  | (-0.12 - 0.46)  | 0.257  |
| Surgery  | 0.23  | (-0.14 - 0.6)  | 0.225  |
| Medication  | 0.17  | (-0.09 - 0.43)  | 0.203  |
| Radiation  | 0.1  | (-0.31 - 0.5)  | 0.635  |
| Pituitary insufficiency  | -0.15  | (-0.42 - 0.13)  | 0.289  |
| Coronary heart disease  | 0.09  | (-0.31 - 0.48)  | 0.665  |
| Arterial hypertension  | -0.1  | (-0.38 - 0.19)  | 0.498  |
| Diabetes  | -0.05  | (-0.42 - 0.31)  | 0.771  |
| History of malignancy  | -0.33  | (-0.78 - 0.13)  | 0.156  |
| Arthrosis  | 0.29  | (0.04 - 0.54)  | 0.073 |
| ***Introverted/socially avoidant*** | B | (95% CI) | p |
| Age (years)  | 0  | (-0.01 - 0.01)  | 0.757  |
| Sex | 0.16  | (-0.1 - 0.42)  | 0.228  |
| Disease activity  | 0.22  | (-0.08 - 0.53)  | 0.147  |
| Surgery  | 0.16  | (-0.22 - 0.54)  | 0.407  |
| Medication  | 0.1  | (-0.17 - 0.36)  | 0.48  |
| Radiation  | 0.09  | (-0.33 - 0.5)  | 0.688  |
| Pituitary insufficiency  | -0.11  | (-0.39 - 0.17)  | 0.436  |
| Coronary heart disease  | 0.02  | (-0.4 - 0.43)  | 0.936  |
| Arterial hypertension  | -0.05  | (-0.35 - 0.24)  | 0.718  |
| Diabetes  | 0.03  | (-0.35 - 0.4)  | 0.893  |
| History of malignancy  | -0.28  | (-0.74 - 0.19)  | 0.246  |
| Arthrosis  | 0.3  | (0.04 - 0.56)  | ***0.022*** |
| ***Non-assertive / insecure*** | B | (95% CI) | p |
| Age (years)  | 0  | (-0.01 - 0.02)  | 0.459  |
| Sex | -0.03  | (-0.3 - 0.23)  | 0.797  |
| Disease activity  | 0.23  | (-0.07 - 0.54)  | 0.134  |
| Surgery  | 0.15  | (-0.23 - 0.54)  | 0.439  |
| Medication  | 0.19  | (-0.08 - 0.47)  | 0.161  |
| Radiation  | 0.01  | (-0.42 - 0.43)  | 0.975  |
| Pituitary insufficiency  | 0.03  | (-0.25 - 0.32)  | 0.824  |
| Coronary heart disease  | -0.26  | (-0.68 - 0.15)  | 0.212  |
| Arterial hypertension  | -0.01  | (-0.31 - 0.29)  | 0.934  |
| Diabetes  | -0.07  | (-0.45 - 0.32)  | 0.73  |
| History of malignancy  | -0.09  | (-0.57 - 0.38)  | 0.694  |
| Arthrosis  | 0.19  | (-0.08 - 0.45)  | 0.163  |
| ***Exploitable/permissive*** | B | (95% CI) | p |
| Age (years)  | 0  | (-0.01 - 0.01)  | 0.564  |
| Sex | -0.1  | (-0.33 - 0.13)  | 0.38  |
| Disease activity  | 0.14  | (-0.12 - 0.4)  | 0.279  |
| Surgery  | 0.11  | (-0.22 - 0.43)  | 0.526  |
| Medication  | 0.17  | (-0.06 - 0.4)  | 0.14  |
| Radiation  | -0.13  | (-0.49 - 0.23)  | 0.467  |
| Pituitary insufficiency  | 0.06  | (-0.19 - 0.3)  | 0.652  |
| Coronary heart disease  | -0.11  | (-0.46 - 0.24)  | 0.543  |
| Arterial hypertension  | 0.05  | (-0.2 - 0.3)  | 0.702  |
| Diabetes  | 0.04  | (-0.29 - 0.36)  | 0.816  |
| History of malignancy  | -0.04  | (-0.44 - 0.37)  | 0.854  |
| Arthrosis  | 0.02  | (-0.2 - 0.24)  | 0.847  |
| ***Nurturant*** | B | (95% CI) | p |
| Age (years)  | 0.01  | (0 - 0.01)  | 0.191  |
| Sex | -0.1  | (-0.31 - 0.11)  | 0.343  |
| Disease activity  | 0.1  | (-0.14 - 0.34)  | 0.415  |
| Surgery  | 0.09  | (-0.21 - 0.39)  | 0.564  |
| Medication  | 0.17  | (-0.04 - 0.38)  | 0.112  |
| Radiation  | -0.33  | (-0.66 - 0)  | 0.062  |
| Pituitary insufficiency  | -0.16  | (-0.39 - 0.06)  | 0.145  |
| Coronary heart disease  | -0.09  | (-0.42 - 0.23)  | 0.577  |
| Arterial hypertension  | -0.01  | (-0.24 - 0.22)  | 0.927  |
| Diabetes  | -0.1  | (-0.4 - 0.19)  | 0.486  |
| History of malignancy  | 0.09  | (-0.28 - 0.46)  | 0.623  |
| Arthrosis  | 0.04  | (-0.17 - 0.24)  | 0.716  |
| ***Intrusive*** | B | (95% CI) | p |
| Age (years)  | 0  | (-0.01 - 0.01)  | 0.855  |
| Sex | -0.04  | (-0.28 - 0.2)  | 0.754  |
| Disease activity  | 0.07  | (-0.2 - 0.35)  | 0.609  |
| Surgery  | 0.07  | (-0.28 - 0.42)  | 0.698  |
| Medication  | 0.04  | (-0.21 - 0.28)  | 0.774  |
| Radiation  | 0.03  | (-0.36 - 0.41)  | 0.896  |
| Pituitary insufficiency  | 0.05  | (-0.2 - 0.31)  | 0.677  |
| Coronary heart disease  | 0.04  | (-0.34 - 0.41)  | 0.851  |
| Arterial hypertension  | 0.06  | (-0.21 - 0.33)  | 0.659  |
| Diabetes  | -0.13  | (-0.48 - 0.21)  | 0.443  |
| History of malignancy  | -0.05  | (-0.48 - 0.37)  | 0.803  |
| Arthrosis  | 0.02  | (-0.21 - 0.26)  | 0.838  |
| ***IIP D total*** | B | (95% CI) | p |
| Age (years)  | 0  | (0 - 0.01)  | 0.382  |
| Sex | 0.04  | (-0.12 - 0.2)  | 0.639  |
| Disease activity  | 0.13  | (-0.06 - 0.32)  | 0.172  |
| Surgery  | 0.1  | (-0.13 - 0.34)  | 0.385  |
| Medication  | 0.11  | (-0.05 - 0.28)  | 0.172  |
| Radiation  | 0.05  | (-0.21 - 0.3)  | 0.715  |
| Pituitary insufficiency  | -0.01  | (-0.18 - 0.17)  | 0.929  |
| Coronary heart disease  | -0.01  | (-0.26 - 0.25)  | 0.962  |
| Arterial hypertension  | -0.03  | (-0.21 - 0.16)  | 0.779  |
| Diabetes  | -0.06  | (-0.29 - 0.17)  | 0.626  |
| History of malignancy  | -0.12  | (-0.41 - 0.17)  | 0.411  |
| Arthrosis  | 0.12  | (-0.03 - 0.28)  | 0.123  |

###

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