###### **Supplementary Table 1.** Sex specific Analyses of outcome variables at pretest.

|  |  |  |  |
| --- | --- | --- | --- |
| **Variable** | **female participants (n=22)** | **male participants (n=12)** | **sex differences** |
| *M (SD)* | *M (SD)* | *t* | *p* | *d* |
| **Facial expression** |  |  |  |  |  |
| ***Overall***  | 53.1 (9.3) | 48.3 (5.6) | 1.87 | .071 | 0.67 |
| *Happiness* | 52.9 (10.6) | 48.4 (9.5) | 1.28 | .211 | 0.46 |
| *Anger* | 54.8 (15.0) | 47.4 (4.3) | 1.67 | .121 | 0.78 |
| *Disgust* | 54.8 (11.1) | 47.4 (5.5) | 2.15 | **.025** | 0.93 |
| *Fear* | 49.7 (8.2) | 50.2 (11.0) | -0.14 | .886 | -0.05 |
| *Surprise* | 52.8 (13.1) | 48.5 (7.7) | 1.23 | .228 | 0.44 |
| *Sadness* | 53.5 (15.3) | 48.1 (9.5) | 1.20 | .401 | 0.56 |
| **Emotion recognition** |  |  |  |  |  |
| ***Overall***  | 71.0 (13.4) | 59.6 (12.3) | 2.51 | **.009** | 0.90 |
| *Happiness* | 97.9 (4.9) | 93.2 (14.3) | 1.11 | .277 | 0.40 |
| *Anger* | 66.7 (14.6) | 52.8 (23.2) | 1.63 | .113 | 0.59 |
| *Disgust* | 72.9 (21.9) | 52.3 (25.8) | 2.35 | **.025** | 0.84 |
| *Fear* | 49.0 (26.4) | 40.9 (20.1) | 1.00 | .325 | 0.36 |
| *Sadness* | 61.5 (25.8) | 45.5 (28.8) | 1.61 | .118 | 0.58 |
| *Surprise* | 78.1 (17.0) | 72.7 (16.7) | 0.90 | .376 | 0.32 |
| **Affect** |  |  |  |  |  |
| ***Positive***  | 30.3 (6.7) | 30.8 (6.5) | -0.24 | .811 | -0.09 |
| *Negative*  | 13.4 (3.5) | 14.2 (4.4) | -0.55 | .584 | -0.20 |

*Note. N* = 34 PD patients. Mean and standard deviations of primary and secondary outcome variables as a function of sex; *t,* *p*, and effect-size cohen’s d of t-tests for independent groups are reported (according to equality or unequality of variances).

aFacial expression: mean facial electromyographic (EMG) activity during the facial expression task [transformed to T-values]. bEmotion recognition: percentage of correct answers over all six emotions [Range 0-100]. \*\* *p* ≤ .010. \* *p* ≤ .050.

cPositive affect: mean score in the positive affect scale of the Positive and Negative Affect Schedule (PANAS) [Range 10–50]; Negative affect: mean score in the negative affect scale of the PANAS [Range 10–50].

dValues in bold indicate significant group differences ( p < .05).