|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
|  | Mean + SD | Controls(N=20) | PD group 1(N=23) | PD group 2(N=22) | PD group 3(N=25) | ANCOVA |
| **Putamena** | Controls | 0.130 ± 0.052 |  |  |  |  | F=6.346(3,82)p=0.001 |
| PD group 1 | 0.183 ± 0.035 |  |  |  |  |
| PD group 2 | 0.195 ± 0.036 |  |  |  |  |
| PD group 3 | 0.172 ± 0.054 |  |  |  |  |
| **Globus****Pallidusb** | Controls | -1.621 ± 0.176 |  |  |  |  | F=7.998(3,82)p<0.001 |
| PD group 1 | -1.488 ± 0.153 |  |  |   |  |
| PD group 2 | -1.413 ± 0.123 |  |  |  |  |
| PD group 3 | -1.441 ± 0.143 |  |  |  |  |
| **Substantia Nigra** | Controls | 0.037 ± 0.021 |  |  |  |  | F=65.008(3,82)p<0.001 |
| PD group 1 | 0.094 ± 0.017 |  |  |  |  |
| PD group 2 | 0.111 ± 0.021 |  |  |  |  |
| PD group 3 | 0.117 ± 0.023 |  |  |  |  |

**Table 2:** Analysis of covariance matrices adjusting for age and regional area. Coloured boxes indicate the significance level of post-hoc Bonferroni-corrected pairwise comparisons: p>0.05 (blue), p<0.05 (yellow), p<0.01 (orange), p<0.001 (red).

**a**Square-root transformation

**b**Logarithmic transformation