**Table 1:** ANCOVA on subcortical volumes with groups as between factor (HC (healthy controls), RPD-LH (PD with prevalent left hemisphere nigrostriatal hypofunctionality), LPD-RH (with prevalent right hemisphere nigrostriatal hypofunctionality), Total Intracranial Volume (TIV), age and sex as covariates. Statistical significance was set at p<0.05. Abbreviations: L=left hemisphere, R= right hemisphere, df=degrees of freedom.

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Subcortical volumes**  | **Side** | **Statistical test (F)** | **df** | **Group comparison [P value]** | **HC** | **PD [N=20]** |
| **LPD-RH** | **RPD-LH** |
|
| **Mean** | **SD** | **Mean** | **SD** | **Mean** | **SD** |
| **[N=19]** | **[N=9]** | **[N=11]** |
| Caudate [mm3] | L | 0.08 | 2,33 | 0.921 | 3220.35 | 470.64 | 3258.36 | 540.90 | 3227.81 | 422.86 |
| R | 0.14 | 2,33 | 0.866 | 3244.87 | 471.36 | 3301.27 | 562.92 | 3245.90 | 451.22 |
| Putamen [mm3] | L | 3.01 | 2,33 | 0.063 | 4664.36 | 570.89 | 4157.88 | 1000.21 | 4249.51 | 579.92 |
| R | 1.63 | 2,33 | 0.211 | 4295.74 | 528.65 | 3936.56 | 845.65 | 4132.47 | 626.56 |
| Pallidum [mm3] | L | 0.01 | 2,33 | 0.985 | 1283.35 | 179.38 | 1328.42 | 331.21 | 1336.15 | 303.71 |
| R | 0.19 | 2,33 | 0.829 | 1304.36 | 164.32 | 1303.21 | 219.24 | 1361.75 | 218.12 |