**Supplementary Table 1.** Dopamine imaging data of patients with Parkinson’s disease and patients with essential tremor with rest tremor.

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| **Data** | **Tremor dominant PD**  **(N=40)** | **ET with rest tremor**  **(N=32)** | **p value** |
| *Dopamine imaging data (DaTscan)* |  |  |  |
| Caudate uptake contralateral to the MASa | 1.44 ± 0.57 | 2.52 ± 0.50 | < 0.001b |
| Caudate uptake ipsilateral to the MASa | 1.65 ± 0.50 | 2.59 ± 0.52 | < 0.001b |
| Putamen uptake contralateral to the MASa | 0.70 ± 0.24 | 2.18 ± 0.33 | < 0.001b |
| Putamen uptake ipsilateral to the MASa | 0.99 ± 0.34 | 2.19 ± 0.30 | < 0.001b |
| Pattern of DaTSCAN abnormality (UP/UCP/BP/BCP) | 8/1/18/13 | 0/0/0/0 | **/** |

Abbreviations: PD = Parkinson’s disease; ET = essential tremor; MAS = clinically most affected side; the MAS was the clinical side with rest tremor (if unilateral) or with the most severe rest tremor (if present bilaterally); UP = unilateral involvement of the putamen (always contralateral to the clinically most affected side); UCP = unilateral involvement of the caudate and putamen; BP = bilateral involvement of the putamina; BCP = bilateral involvement of the putamina and either unilateral or bilateral involvement of the caudate nuclei. The mean z-scores from controls (according to the DATQUANT normative values) were: -3.26 for putamen contralateral to the MAS, -2.48 for putamen ipsilateral to the MAS, -1.66 for caudate contralateral to the MAS, -1.08 for caudate ipsilateral to the MAS.

Significant p values are in bold.

aData are expressed as mean ± standard deviation.

bANCOVA among groups with age as covariate.