

| Reason for exclusion | HC (n=55) | PD-medicated (n=49) | PD-unmedicated (n=46) |
|---|-----------|---------------------|-----------------------|
| Poor quality data | 1 | 3 | 1 |
| Non-physiological output | 3 | 5 | 7 |
| No repeated data after initial exclusions | - | 7 | 4 |
| Total exclusions | 4 | 15 | 12 |
| Final inclusion | 51 | 34 | 34 |

Suppl. Table S.1 – Reasons for exclusion following visual inspection of data and assessment of model outputs. HC: healthy controls; PD-medicated: Parkinson’s disease patients with medication ON; PD-unmedicated: Parkinson’s patients with medication OFF.