| 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.