

Supplementary Information for:

Dopamine Facilitates the Translation of Physical Exertion into Assessments of Effort

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Abbreviated Title: Dopamine Influences Assessments of Effort

	PD-OFF	PD-ON	Control
Age	66.94(1.7)	-	64.94(1.83)
Sex	10M/9F	-	9M/8F
Handedness	18R/1L	-	13R/4L
UPDRS (Section-III)	34.94(2.82)	30(2.47)*	N/A
Hoehn & Yahr	2.11(0.07)	2.06(0.04)	N/A
Hamilton Depression Rating	8.94(1.05)	7.94(1.23) [#]	3.93(0.88)
Mini Mental State Exam	28.17(0.45)	28.28(0.35) [#]	29.44(0.16)

Supplementary Table 1: Participant Demographics. Numbers in parentheses are standard deviations.

*p<0.05 between PD-ON and PD-OFF. [#]p<0.05 (corrected for multiple comparisons) between healthy controls and PD.

Parameter Predicting Exertion Variability	Estimate	Significance
Mean Exertion	1.24 ± 0.07	0.04
Dopamine Availability (ON/OFF)	0.06 ± 0.03	1.91 E-63
Mean Exertion $\times$ Dopamine Availability	-0.23 ± 0.08	0.005

Supplementary Table 2: Parameter estimates and significance for the model illustrated in Figure 2C.

Parameter Predicting Effort Assessment	Estimate	Significance
Mean Exertion	0.18 ± 0.02	0.08
Dopamine Availability (ON/OFF)	0.01 ± 0.008	1.81 E-20
Mean Exertion $\times$ Dopamine Availability	-0.04 ± 0.02	0.02

Supplementary Table 3: Parameter estimates and significance for the model illustrated in Figure 2D.

Parameter Predicting [Assessment Error]	Estimate	Significance
Normalized Exertion Variability	0.24 ± 0.03	3.90E-14
Dopamine Availability (ON/OFF)	0.04 ± 0.01	0.001
Exertion Variability $\times$ Dopamine Availability	-0.15 ± 0.04	0.0001

Supplementary Table 4: Parameter estimates and significance for the model illustrated in Figure 2E.