

## SUPPLEMENTARY MATERIALS

**Table S1.** Spearman correlations of Motor ADL, Motor function and Exercise tolerance with all other variables

	Motor ADL (UPDRS II)		Motor function (UPDRS III)		Exercise (6MWT_meters %prd)	
	Spearman r	P (two-tailed)	Spearman r	P (two-tailed)	Spearman r	P (two-tailed)
<b>BMI (kg/m<sup>2</sup>)</b>	0.1597	0.2441	0.1189	0.3873	-----	-----
<b>Age, years</b>	0.1998	0.1435	0.1597	0.2441	-----	-----
<b>CIRS1, score</b>	<b>0.6255</b>	<b>&lt;0.0001</b>	<b>0.5511</b>	<b>&lt;0.0001</b>	<b>-0.5740</b>	<b>&lt;0.0001</b>
<b>CIRS2, score</b>	<b>0.5124</b>	<b>&lt;0.0001</b>	<b>0.4828</b>	<b>0.0002</b>	<b>-0.5947</b>	<b>&lt;0.0001</b>
<b>UPDRS II, score</b>	-----	-----	-----	-----	<b>-0.5336</b>	<b>&lt;0.0001</b>
<b>UPDRS III, score</b>	-----	-----	-----	-----	<b>-0.4734</b>	<b>0.0003</b>
<b>Barthel Index, score</b>	<b>-0.7088</b>	<b>&lt;0.0001</b>	<b>-0.6018</b>	<b>&lt;0.0001</b>	<b>0.6574</b>	<b>&lt;0.0001</b>
<b>FIM, score</b>	<b>-0.7067</b>	<b>&lt;0.0001</b>	<b>-0.6426</b>	<b>&lt;0.0001</b>	<b>0.5250</b>	<b>&lt;0.0001</b>
<b>Berg balance, score</b>	<b>-0.3959</b>	<b>0.0028</b>	<b>-0.3359</b>	<b>0.0122</b>	<b>0.4203</b>	<b>0.0017</b>

<b>FEV1 % pred.</b>	-0.1520	0.2679	-0.1969	0.1495	<b>0.3778</b>	<b>0.0053</b>
<b>FVC % pred.</b>	-0.1040	0.4497	-0.1302	0.3433	<b>0.4449</b>	<b>0.0008</b>
<b>FEV1/FVC</b>	-0.1382	0.3144	-0.2502	0.0654	-0.0716	0.6101
<b>PEF % pred.</b>	<b>-0.4613</b>	<b>0.0004</b>	<b>-0.4090</b>	<b>0.0019</b>	<b>0.4266</b>	<b>0.0014</b>
<b>MIP, % pred.</b>	<b>-0.5834</b>	<b>&lt;0.0001</b>	<b>-0.4290</b>	<b>0.0012</b>	<b>0.2860</b>	<b>0.0398</b>
<b>MEP, % pred.</b>	-0.2211	0.1048	-0.1935	0.1569	<b>0.2756</b>	<b>0.0458</b>
<b>PCEF (L/min)</b>	<b>-0.4870</b>	<b>0.0002</b>	<b>-0.3638</b>	<b>0.0063</b>	<b>0.4818</b>	<b>0.0002</b>
<b>ODI, n</b>	<b>0.3056</b>	<b>0.0246</b>	<b>0.3322</b>	<b>0.0141</b>	<b>-0.3176</b>	<b>0.0217</b>
<b>Nocturnal SatO<sub>2</sub> T90, %</b>	<b>0.4133</b>	<b>0.0017</b>	<b>0.4443</b>	<b>0.0007</b>	<b>-0.4441</b>	<b>0.0009</b>
<b>Nocturnal SatO<sub>2</sub> mean, %</b>	<b>-0.4770</b>	<b>0.0002</b>	<b>-0.4185</b>	<b>0.0015</b>	<b>0.4236</b>	<b>0.0016</b>
<b>Nocturnal SatO<sub>2</sub> nadir, %</b>	-0.2567	0.0662	<b>-0.3530</b>	<b>0.0102</b>	0.2534	0.0758
<b>6MWD SatO<sub>2</sub> bas, %</b>	<b>-0.3881</b>	<b>0.0037</b>	<b>-0.2988</b>	<b>0.0282</b>	0.2544	0.0660
<b>6MWD SatO<sub>2</sub> mean, %</b>	<b>-0.2976</b>	<b>0.0305</b>	<b>-0.3403</b>	<b>0.0127</b>	0.2166	0.1193
<b>6MWD SatO<sub>2</sub> nadir, %</b>	-0.2335	0.0924	<b>-0.3216</b>	<b>0.0189</b>	0.2117	0.1280
<b>PDSS</b>	-0.1661	0.2441	-0.1364	0.3400	<b>0.3170</b>	<b>0.0265</b>
<b>Epworth</b>	<b>0.3485</b>	<b>0.0105</b>	<b>0.3037</b>	<b>0.0270</b>	-0.0567	0.6926

**Legend:** BMI=Body mass index; CIRS=Cumulative Illness Rating Scale severity; UPDRS= Unified Parkinson's Disease Rating Scale; FIM= Functional Independence Measure; FEV1=Forced expiratory volume at 1 second ; % prd=% of predicted value; FVC= Forced vital capacity; PEF=peak expiratory flow; MIP=maximal inspiratory pressure; MEP=maximal expiratory pressure; PCEF=peak cough expiratory flow; ODI=apnea-hypopnea index; 6MWD=6-min walking distance; PDSS=Parkinson's Disease Sleep Scale 2.