

Supplementary Table 2. Model performance training for Parkinson’s disease classification in males

Model in males		LR		NB		RF	
		AUC	ACC	AUC	ACC	AUC	ACC
Finger tapping							
Single hand (unilateral)	Amplitude_mean	0.508	0.692	0.570	0.662	0.551	0.682
	Amplitude_std	0.681	0.688	0.562	0.734	0.433	0.536
	Speed	0.663	0.652	0.732	0.736	0.723	0.724
	Fatigue	0.482	0.690	0.514	0.552	0.485	0.580
Two-hands (bilateral)	Amplitude_mean	0.492	0.682	0.532	0.718	0.362	0.574
	Amplitude_std	0.808	0.686	0.831	0.884	0.768	0.802
	Speed	0.468	0.700	0.597	0.560	0.464	0.650
	Fatigue	0.714	0.726	0.870	0.848	0.672	0.710
Hand movements							
Single hand (unilateral)	Amplitude_mean	0.523	0.700	0.267	0.580	0.421	0.564
	Amplitude_std	0.268	0.698	0.277	0.608	0.422	0.536
	Speed	0.754	0.674	0.473	0.726	0.283	0.556
	Fatigue	0.185	0.718	0.248	0.544	0.404	0.594
Two-hands (bilateral)	Amplitude_mean	0.448	0.696	0.630	0.568	0.553	0.584
	Amplitude_std	0.457	0.696	0.382	0.590	0.212	0.580
	Speed	0.406	0.706	0.543	0.576	0.641	0.708
	Fatigue	0.779	0.706	0.623	0.640	0.580	0.676
Pronation-supination movement of the hand							
Single hand (unilateral)	Amplitude_mean	0.888	0.800	0.905	0.726	0.709	0.752
	Amplitude_std	0.788	0.696	0.917	0.786	0.816	0.848
	Speed	0.363	0.694	0.464	0.548	0.506	0.584
	Fatigue	0.348	0.584	0.726	0.674	0.440	0.590
Two-hands (bilateral)	Amplitude_mean	0.711	0.676	0.798	0.670	0.626	0.596
	Amplitude_std	0.552	0.632	0.810	0.682	0.583	0.620
	Speed	0.405	0.690	0.726	0.596	0.481	0.614
	Fatigue	0.412	0.614	0.631	0.694	0.726	0.698

Classification results of the combined right and left motor features for Parkinson’s disease classification prediction. The training was made using three classifiers: Logistic regression (LR), Gaussian Naïve-Bayes (NB) and Random Forest (RF). Features with cross-validation AUC > 0.6 are highlighted in bold. Units: Normalized amplitude[0-1] for finger tapping and hand movements; Amplitude (degrees) for pronation supination for amplitude features. Time (frames), for speed in all tasks. AUC, cross-validation area under curve; ACC; accuracy