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

| Model in males | LR (AUC) | LR (ACC) | NB (AUC) | NB (ACC) | RF (AUC) | RF (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.