



Figure 5. Normalized importance rank of accelerometer features across model combinations --- Midpoint of relative importance 0.066±0.023 DEMO+ACC -SCORE+ACC - - 0.028±0.019 PCE+ACC - 0.016 LE8+ACC - 0.021±0.014 SDOH+ACC - 0.007±0.005 0.0 0.8 Relative Rank of Accelerometry Feature (lower = more important)

Model Performance Metrics (Average across Splits A and C)

Model	ROC AUC	F1 Score	Sensitivity	Specificity	Balanced Accuracy
PCE	0.69	0.61	0.60	0.67	0.63
PCE + Accel	0.69	0.60	0.59	0.67	0.63
SCORE	0.65	0.59	0.58	0.64	0.61
SCORE + Accel	0.66	0.58	0.57	0.64	0.61
LE8	0.65	0.58	0.56	0.66	0.61
LE8 + Accel	0.65	0.59	0.57	0.67	0.62