Supplementary Tables

Neural Network Architecture

	Optimized Hyperparameters
Neural Network Architecture (PyTorch Lightning)	 Feature Extractor: ViT (patch_size = 4, dim = 128, depth = 3, heads = 8, mlp_dim = 128) Output Size = 64 Linear Classifier: Linear(98, 64) → ReLU → BatchNorm1d → Dropout Linear(64, 32) → ReLU → BatchNorm1d → Dropout Linear(32, 1) → Sigmoid
Model Compilation	 Optimizer: Adam LR = 3e-4 weight_decay = 1e-5 Loss: Binary Cross Entropy
Model Fitting	 Train / Val / Test (%): 80 / 10 / 10 Batch Size = 16 Class Weights: 16.13 for Rapid, 1 for Non-Rapid

Table 4. Additional in-depth description of the model architecture.