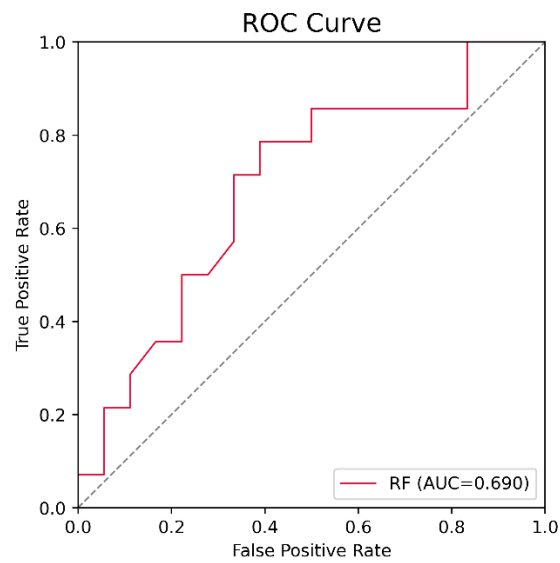


# supplementary materials



**Figure S1.** Receiver operating characteristic (ROC) curve of the random forest (RF) classifier used to distinguish patients with HZ and PHN.

**Table S1.** Functional connectivity feature importance in the random forest (RF) algorithm used to distinguish HZ and PHN patients

Brain region	Feature importance
M1.L - IFG.R	0.156598
THA.L - STG.L	0.128122
ACC.L - DCG.L	0.081678
INS.L - CPL	0.079729
M1.R - INS.L	0.073820
THA.L - PUT.R	0.056698
ACC.R - PUT.R	0.050660
M1.L - INS.L	0.048118
INS.R - PCUN.L	0.043700
M1.R - S1.L	0.042467
M1.R - S1.R	0.039940
IPL.L - ITG.R	0.036231
THA.R - ACC.R	0.030006
INS.L - DCG	0.021296
INS.L - MFG.L	0.021235
THA.R - PUT.L	0.020425
ACC.L - PUT.R	0.018853
M1.R - PUT.R	0.014586
THA.L - ACC.L	0.013286
INS.R - MFG.L	0.009370
INS.R - INS.L	0.006131
M1.R - ITG.L	0.005354
INS.R - SMA	0.001697

Abbreviations: R, right hemisphere; L, left hemisphere; M1, primary motor cortex; IFG, inferior frontal gyrus; THA, thalamus; STG, superior temporal gyrus; ACC, anterior cingulate gyrus; DCG, middle cingulate gyrus; INS, insula; CPL, posterior cerebellum lobe; PUT, putamen; PCUN, precuneus; S1, primary sensory cortex; IPL, inferior parietal lobule; ITG, inferior temporal gyrus; MFG, middle frontal gyrus; SMA, supplementary motor area.