

Figure S1 Correlation heatmap of radiomic and deep network features derived from CT and PET imaging. CT, computed tomography; PET, positron emission tomography.

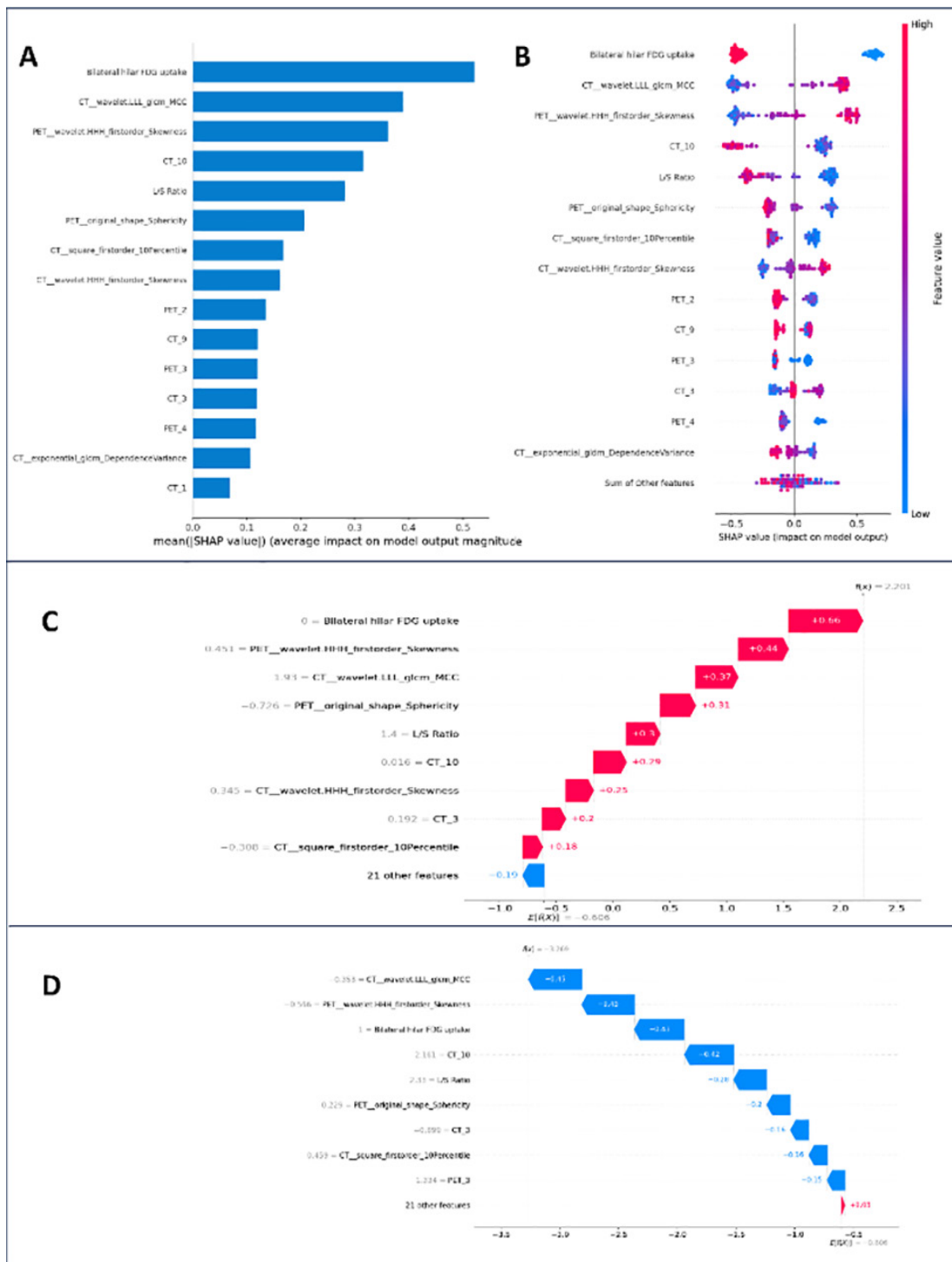


Figure S2 SHAP analysis of model. (A) Global feature importance: bar plot of mean (|SHAP value|) showing which features have the largest average impact on the model's output. (B) SHAP summary plot: each dot represents one patient's SHAP value for a given feature, colored from blue (low feature value) to red (high feature value), indicating how feature values drive predictions up or down. (C) Individual sample explanation (high-risk case): waterfall plot showing how the top features push the model output from the expected value $E[f(x)]$ toward the final high-risk score. (D) Individual sample explanation (low-risk case): waterfall plot showing how the top features push the model output from the expected value $E[f(x)]$ toward the final low-risk score. SHAP, SHapley Additive exPlanations.