Figure S1 The process of feature selection by LASSO. (A) The lambda corresponding to the maximum AUC was selected. (B) Coefficients of features corresponding to different lambda. AUC, area under the receiver operating characteristic curve; LASSO, least absolute shrinkage and selection operator.
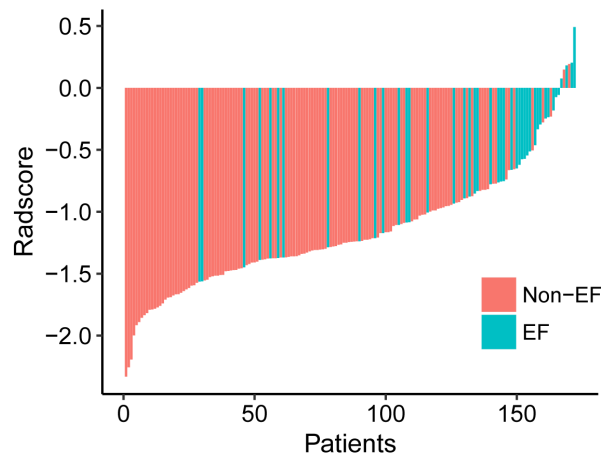

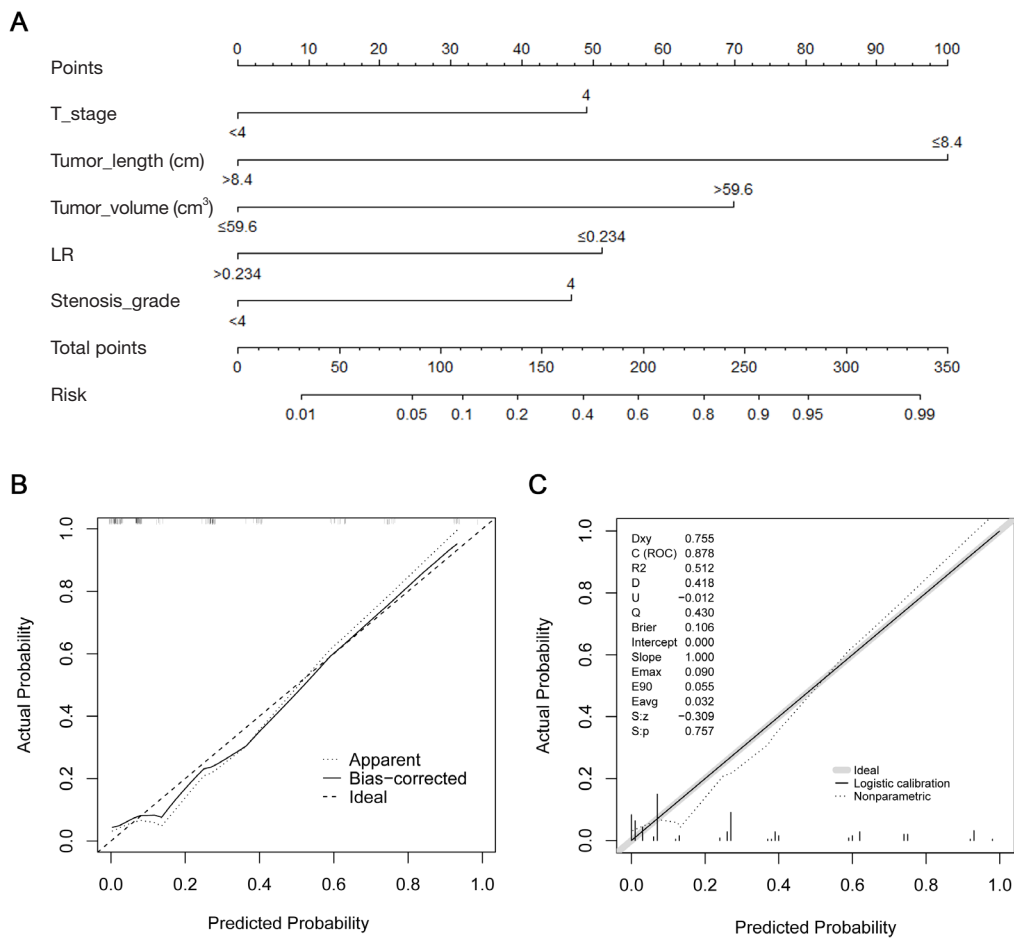**Figure S2** The distribution of radiomic signature. EF, esophageal fistula.

Figure S3 The prognostic performance of clinical nomogram. (A) The clinical nomogram for predicting EF. (B) Calibration curve for clinical nomogram. (C) The Brier score for clinical nomogram. LR, lymphocyte rate; ROC, receiver operating characteristic; EF, esophageal fistula.

Table S1 The parameter settings of radiomic feature extraction in Pyradiomics

Setting item	Value
Normalize	True
Normalize scale	100
Resampled pixel spacing	(1, 1, 1)
Other parameters	Default

Table S2 Radiomic features selected by LASSO (b0=−1.1536)

Radiomic features	Coefficient
Original_firstorder_10Percentile	0.0191
Original_glrlm_graylevelnonuniformitynormalized	0.1098
Log-sigma-2-0-mm-3D_glcm_Imc2	−0.3779
Log-sigma-3-0-mm-3D_firstorder_Kurtosis	0.0114
Log-sigma-4-0-mm-3D_glcm_Idn	0.0703
Log-sigma-5-0-mm-3D_glcm_MCC	0.1273
Wavelet-LLH_gldm_dependencevariance	−0.0672
Wavelet-LLL_firstorder_10Percentile	0.0007