

Supplementary Table 1 Final selected hyperparameters

Model	Hyperparameter	Selected value
Random survival forest	Ntrees	500
	Mtry	2
	Nsplit	10
	Nodesize	15
XGBoost	Nrounds	200
	Max_depth	3
	Eta	0.05
Gradient boosting machine	Ntrees	500
	Interaction depth	3
	Shrinkage	0.01
CoxBoost	Stepno	100
	Penalty	200
	Standardize	True