

Supplementary table 1. Analysis of survival differences of patients receiving different adjuvant therapies in high-risk groups of two cohorts

Group	Adjuvant treatment	Number of recurrences	3-year RFS rate (95%CI)	5-year RFS rate (95% CI)	P-value ^a	Number of deaths	3-year OS rate (95%CI)	5-year OS rate (95%CI)	P-value ^b
High-risk group in training cohort (N=269)	Follow-up	15 (18.1%)	53.4% (36.2%-70 .6%)	53.4% (36.2%-70 .6%)	0.020	12 (22.6%)	69.7% (54.0%-85.4%)	62.5% (45.4%-79.6%)	0.018
	Only radiotherapy	30 (36.1%)	70.2% (60.4%-80 %)	62.0% (50.8%-73 .2%)		19 (35.8%)	82.1% (73.9%-90.3%)	76.8% (67.2%-86.4%)	
	Only chemotherapy	10 (12.0%)	60% (40.8%-79 .2%)	60.0% (40.8%-79 .2%)		5 (9.4%)	80.0% (64.3%-95.7%)	80.0% (64.3%-95.7%)	
	Chemoradiotherapy	28 (33.7%)	79.5% (72.4%-86 .6%)	77.7% (70.4%-85 .0%)		17 (32.1%)	88.1% (82.4%-93.8%)	86.1% (80.0%-92.2%)	
High-risk group in validation cohort (N=133)	Follow-up	10 (27.0%)	52.4% (31%-73.8 %)	52.4% (31.0%-73 .8%)	0.023	7 (30.4%)	66.7% (46.5%-86.9%)	66.7% (46.5%-86.9%)	0.107
	Only radiotherapy	13 (35.1%)	65.8% (50.7%-80 .9%)	65.8% (50.7%-80 .9%)		7 (30.4%)	81.6% (69.3%-93.9%)	81.6% (69.3%-93.9%)	
	Only chemotherapy	3 (8.1%)	66.7% (35.9%-97 .5%)	66.7% (35.9%-97 .5%)		2 (8.7%)	77.8% (50.6%-100%)	77.8% (50.6%-100%)	
	Chemoradiotherapy	11 (29.7%)	86.2% (77.8%-94 .6%)	82.8% (73.6%-92 .0%)		7 (30.4%)	93.8% (87.9%-99.7%)	87.3% (78.3%-96.3%)	

Abbreviations: CI, confidence interval; RFS, recurrence-free survival; OS, overall survival; a, log-rank test of RFS; b, log-rank test of OS.

Supplementary materials R

Description: Related Computerized Programs for Nomogram With R

APPENDIX

Related Computerized Programs for Nomogram With R

For dividing data sets into training cohort and validation cohort

```
library(caret)  
library(rms)  
alldata_credit <- read.csv("f:\\alldata_credit.csv")  
train <- createDataPartition(y=alldata_credit$Figo,p=0.70,list=FALSE)  
YCtraindata0526 <- alldata_credit[train, ]  
YCtestdata0526 <- alldata_credit[-train, ]
```

For Nomogram

```
library(survival)  
library(rms)  
data(package="survival")  
dd<-datadist(YCtraindata0526)  
options(datadist="dd")  
f<-cph(Surv(YCtraindata0526$RFS01,YCtraindata0526$recurrence)~TD+PT01+Gra  
de02+PI+Myo+LVSI+VI+LM+AT+HALP01group,data=YCtraindata0526,x=TRUE,y  
=TRUE,surv=TRUE)  
survival<-Survival(f)  
survival1<-function(x)survival(12,x)  
survival2<-function(x)survival(36,x)  
survival3<-function(x)survival(60,x)  
nom<-nomogram(f,fun=list(survival1,survival2,survival3),fun.at  
=c(0.05,seq(0.1,0.9,by=0.1),0.95),funlabel = c('1 year RFS','3 year RFS','5 year RFS'))  
plot(nom)
```

For Computing the C-Index and 95% CI in Training cohort and Validation

cohort

```
library(survival)
library(rms)
fit<-coxph(Surv(RFS01,recurrence)~TD+PT01+Grade02+PI+Myo+LVSI+VI+LM+A
T+HALP01group,data = YCtraindata0526)
survConcordance(Surv(YCtraindata0526$RFS01,YCtraindata0526$recurrence)~predi
ct(fit,YCtraindata0526))
survConcordance(Surv(YCtestdata0526$RFS01,YCtestdata0526$recurrence)~predict
(fit,YCtestdata0526))
```

For Calibration Curve for Training Cohort

```
library(survival)
library(rms)
f1<-cph(Surv(YCtraindata0526$RFS01,YCtraindata0526$recurrence,type      =
"right")~TD+PT01+Grade02+PI+Myo+LVSI+VI+LM+AT+HALP01group,data      =
YCtraindata0526,x=TRUE,y=TRUE,surv=TRUE,time.inc = 5*12)
cal=calibrate(f1,cmethod = 'KM',method = "boot",u=5*12,m=200,B=1000)
plot(cal,lwd=1,lty=1,errbar.col=c(rgb(0,0,0,maxColorValue      =      255)),xlim      =
c(0.6,1),ylim      =      c(0.6,1),xlab      ="Nomogram      Predicted      Survival",ylab="Actual
Survival",col=c(rgb(255,0,0,maxColorValue =255)))
abline(0,1,lty = 3,lwd = 2,col = c(rgb(0,118,192,maxColorValue=255)))
lines(cal[,c('mean.predicted','KM')],      type      =      'b',lwd      =      2,      col      =
c(rgb(192,98,83,maxColorValue = 255)),pch = 16)
```

For predictions of the validation cohort

```
library(survival)
library(rms)
f<-cph(Surv(RFS01,recurrence)~TD+PT01+Grade02+PI+Myo+LVSI+VI+LM+AT+
HALP01group,data = YCtraindata0526)
fp<-predict(f,newdata = YCtestdata0526)
```

```

predictions<-predict(f,newdata = YCtestdata0526)
predictions

```

For Calibration Curve for Validation Cohort

```

f2<-cph(Surv(YCtestdata0526$RFS01,YCtestdata0526$recurrence,type
="right")~predictions,x=T,y=T,surv=T, time.inc =5*12)
validate(f2,method = "boot",B=1000,dxy=T,u=5*12)
cal<-calibrate(f2,cmethod = 'KM',method = "boot",u=5*12,m=150,B=1000)
plot(cal,lwd=1,lty=1,errbar.col=c(rgb(0,0,0,maxColorValue      =      255)),xlim      =
c(0.6,1),ylim      =  c(0.6,1),xlab      ="Nomogram   Predicted   Survival",ylab="Actual
Survival",col=c(rgb(255,0,0,maxColorValue =255)))
abline(0,1,lty = 3,lwd = 2,col = c(rgb(0,118,192,maxColorValue=255)))
lines(cal[,c('mean.predicted','KM')],    type      =      'b',lwd      =      2,    col      =
c(rgb(192,98,83,maxColorValue = 255)),pch = 16)

```

For Computing the C-Index and 95% CI For Different Models

Model A

```

library(survival)
library(rms)
fit1<-coxph(Surv(RFS01,recurrence)~PLR+ALB, data = YCtraindata0526)
survConcordance(Surv(YCtraindata0526$RFS01,YCtraindata0526$recurrence)~predi
ct(fit1,YCtraindata0526))

survConcordance(Surv(YCtestdata0526$RFS01,YCtestdata0526$recurrence)~predict
(fit1,YCtestdata0526))

```

Model B

```

library(survival)
library(rms)
fit2<-coxph(Surv(RFS01,recurrence)~ PT01+PI +FIGO, data = YCtraindata0526)

```

```
survConcordance(Surv(YCtraindata0526$RFS01,YCtraindata0526$recurrence)~predict(fit2,YCtraindata0526))
```

```
survConcordance(Surv(YCtestdata0526$RFS01,YCtestdata0526$recurrence)~predict(fit2,YCtestdata0526))
```

Model C

```
library(survival)  
library(rms)  
fit3<-coxph(Surv(RFS01,recurrence)~SIRI+FIGO+LVSI, data = YCtraindata0526)  
survConcordance(Surv(YCtraindata0526$RFS01,YCtraindata0526$recurrence)~predict(fit3,YCtraindata0526))
```

```
survConcordance(Surv(YCtestdata0526$RFS01,YCtestdata0526$recurrence)~predict(fit3,YCtestdata0526))
```