

Supplementary

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setwd("C:/Users/wjc24/Desktop/aa ")
# Loading the Installation Package
library(rms)
library(foreign)
library(survival)

# reading data
tcga<-read.table("clinical.txt",header=T,sep="\t")

# Convert data to factor format
tcga$ Grade<-factor(tcga$ Grade,labels=c("G3", " G1+G2"))
tcga$ PDW_PLT <-factor(tcga$ PDW_PLT,labels=c(">0.0845", "≤0.0845"))
tcga$ ARHGAP9<-factor(tcga$ ARHGAP9,labels=c("low ", " high "))

# Pack your data
ddist <- datadist(tcga)
options(datadist='ddist')

# Construct the multivariate Cox regression model
cox <- cph(Surv(survival_time,status) ~ Grade + PDW_PLT + ARHGAP9,surv=T,x=T, y=T,data=tcga)
surv <- Survival(cox)

surv <- Survival(cox)
sur_3_year<-function(x)surv(1*12*3,lp=x)#3年生存
sur_5_year<-function(x)surv(1*12*5,lp=x)#5年生存
nom_sur <- nomogram(cox,fun=list(sur_3_year,sur_5_year),lp= F,funlabel=c('3-Year Survival', '5-Year survival'),maxscale=100,fun.at=
  c('0.9','0.8','0.7','0.6','0.5','0.4','0.3','0.2','0.1'))

# Painting nomogram
pdf("nom.pdf",15,10)
plot(nom_sur,xfrac=0.25)
dev.off()

f1 <- coxph(formula = Surv(survival_time ,status) ~ Grade + PDW_PLT + ARHGAP9,
  data=tcga)
sum.surv<- summary(f1)
sum.surv
sum.surv$concordance
C_index <- sum.surv$concordance['C']
C_index
se <- sum.surv$concordance['se(C)']
se
Upper95 <- (C_index + 1.96*se      )
Low95 <- (C_index - 1.96*se      )
##95% CI C-index
cbind( C_index,  Low95, Upper95)
#####
```