PROPORTIONAL HAZARDS REGRESSION MODEL

RESULTS

```
resul0<-coxph(Surv(time,status)~x1+x2+x3+x4,datatm)

summary(resul0)

Call:
coxph(formula = Surv(time, status) ~ x1 + x2 + x3 + x4,
data = datatm)

  n= 400, number of events= 298

        coef exp(coef) se(coef)       z Pr(>|z|)
x1  0.08659   1.09045  0.12773  0.678  0.49782
x2  0.29946   1.34913  0.12048  2.486  0.01294 *
x3  1.63301   5.11924  0.12866 12.692  < 2e-16 ***
x4 -0.37200   0.68936  0.11728 -3.172  0.00151 **
---
Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 '
' 1

   exp(coef) exp(-coef) lower .95 upper .95
x1    1.0904     0.9171    0.8490    1.4006
x2    1.3491     0.7412    1.0654    1.7085
x3    5.1192     0.1953    3.9782    6.5875
x4    0.6894     1.4506    0.5478    0.8675


Concordance= 0.728  (se = 0.018 )
Rsquare= 0.385   (max possible= 1 )
Likelihood ratio test= 194.6  on 4 df,   p=0
Wald test            = 181.9  on 4 df,   p=0
Score (logrank) test = 213.9  on 4 df,   p=0


# here we test the proportional hazards assumption for a
Cox regression model

time.test<- cox.zph(resul0)

print(time.test)
          rho chisq       p
x1     0.0369 0.400 0.5272
x2    -0.0559 0.898 0.3432
x3    -0.1026 2.953 0.0857
x4     0.0723 1.565 0.2109
GLOBAL     NA 5.955 0.2025
```