Package 'nomogramEx'

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Type Package
Title Extract Equations from a Nomogram
Version 3.0
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because it is difficult to calculate the points or even the survival probability. The package, including a function of nomogramEx(), is to extract the polynomial equations to calculate the points of each variable, and the survival probability corresponding to the total points.
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muca
nomogramEx Extract Equations from a Nomogram

Description

A nomogram can not be easily applied, because it is difficult to calculate the points or even the survival probability. The package, including a function of nomogramEx(), is to extract the polynomial equations to calculate the points of each variable, and the survival probability corresponding to the total points.

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Usage

```
nomogramEx(nomo,np,digit)
```

Arguments

nomo a object of nomogram()

np the number of predicitons in your nomogram, for example: if you predicted 3-

and 6- month, np=2, default is 2

digit the number of decimal digits, default is 9

Value

list the result is a list including polynomial equations to calculate the points of each

variable, and the polynomial equations to calculate the probability of points

Note

The polynomial equations extracted by this package are equal and less than cubic function.

Update:

Version 1.0: 1.the order of variables in the polynomial equations is opposite. 2.the number of the demical digits can not be controlled.

Version 2.0: 1.the argument 'lp' from the 'nomogram' function can not be recognized.

Author(s)

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See Also

nothing

Examples

```
if(require("rms")){
n <-1000
age <- rnorm(n, 50, 10)
sex <- factor(sample(c('female', 'male'), n, TRUE))</pre>
sex <- as.numeric(sex)</pre>
ddist <- datadist(age,sex)</pre>
options(datadist='ddist')
cens <- 15*runif(n)</pre>
time <- -\log(\text{runif}(n))/0.02*\exp(.04*(\text{age}-50)+.8*(\text{sex}=='Female'))
death <- ifelse(time <= cens,1,0)</pre>
time <- pmin(time,cens)</pre>
units(time)="month"
f <- cph(formula(Surv(time,death)~sex+age),x=TRUE,y=TRUE,surv=TRUE,time.inc=3)</pre>
surv <- Survival(f)</pre>
nomo <- nomogram(f, fun=list(function(x) surv(3,x),function(x) surv(6,x)),</pre>
  lp=TRUE,funlabel=c("3-Month Survival Prob","6-Month Survival Prob"))
```

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```
nomogramEx(nomo=nomo,np=2,digit=9)
}
```

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