Competing Risk Analysis: 2016-2017

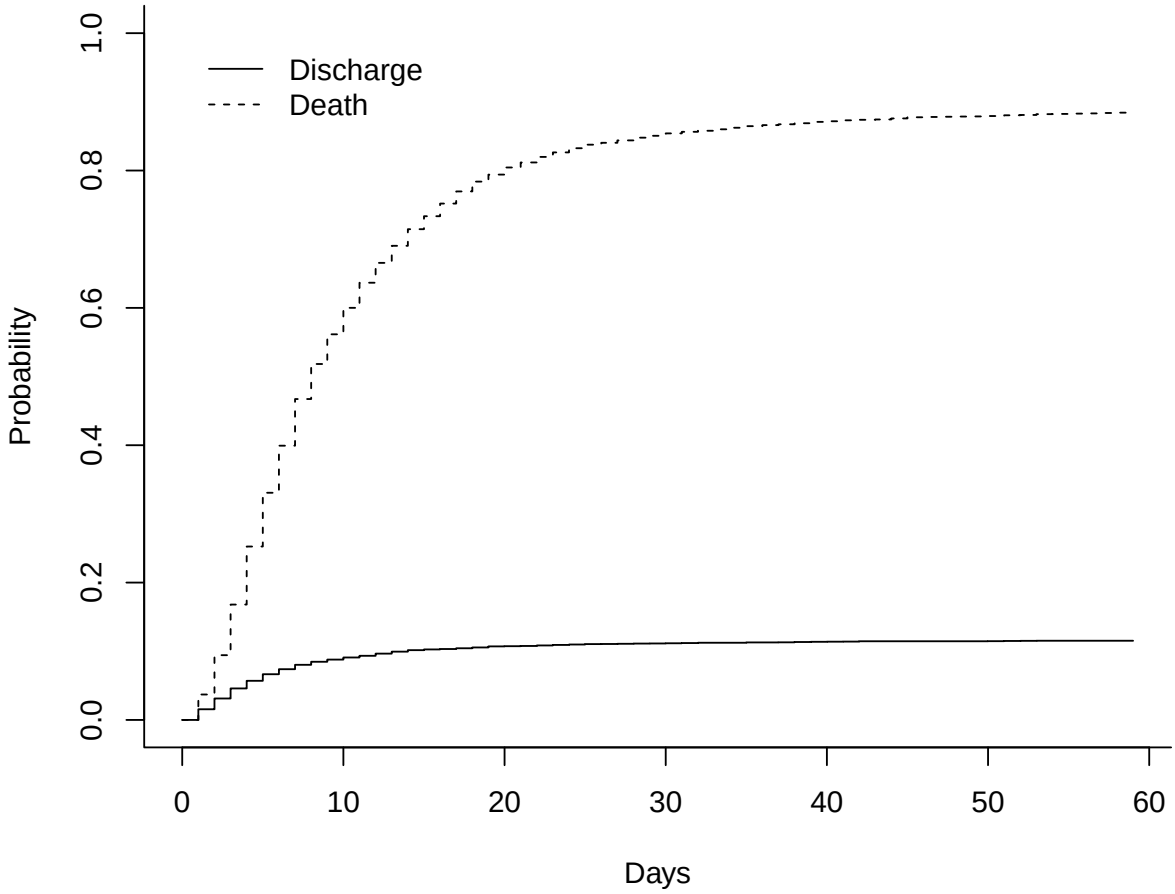
CI overall

```
setwd("~/Documentos/R/Stroke/death/")
y2016deaths <- y2016deaths <- read.csv("yearsdeaths.cvs")
library(survival)
library(cmprsk)

CI.overall <- cuminc(ftime=y2016deaths$los, fstatus=y2016deaths$condicion)
CI.overall
```

```
## Estimates and Variances:
## $est
##                      10        20        30        40        50
## 1 Death      0.09092294 0.1073713 0.1116357 0.1139202 0.1146817
## 1 Discharged 0.60006092 0.8044472 0.8540969 0.8717636 0.8793786
##
## $var
##                         10           20           30           40           50
## 1 Death      1.249284e-05 1.442453e-05 1.490245e-05 1.515360e-05 1.523636e-05
## 1 Discharged 3.603488e-05 2.344142e-05 1.858354e-05 1.670773e-05 1.588148e-05
```

Including Plots of CI.overall



Estimating CI of specific-cause

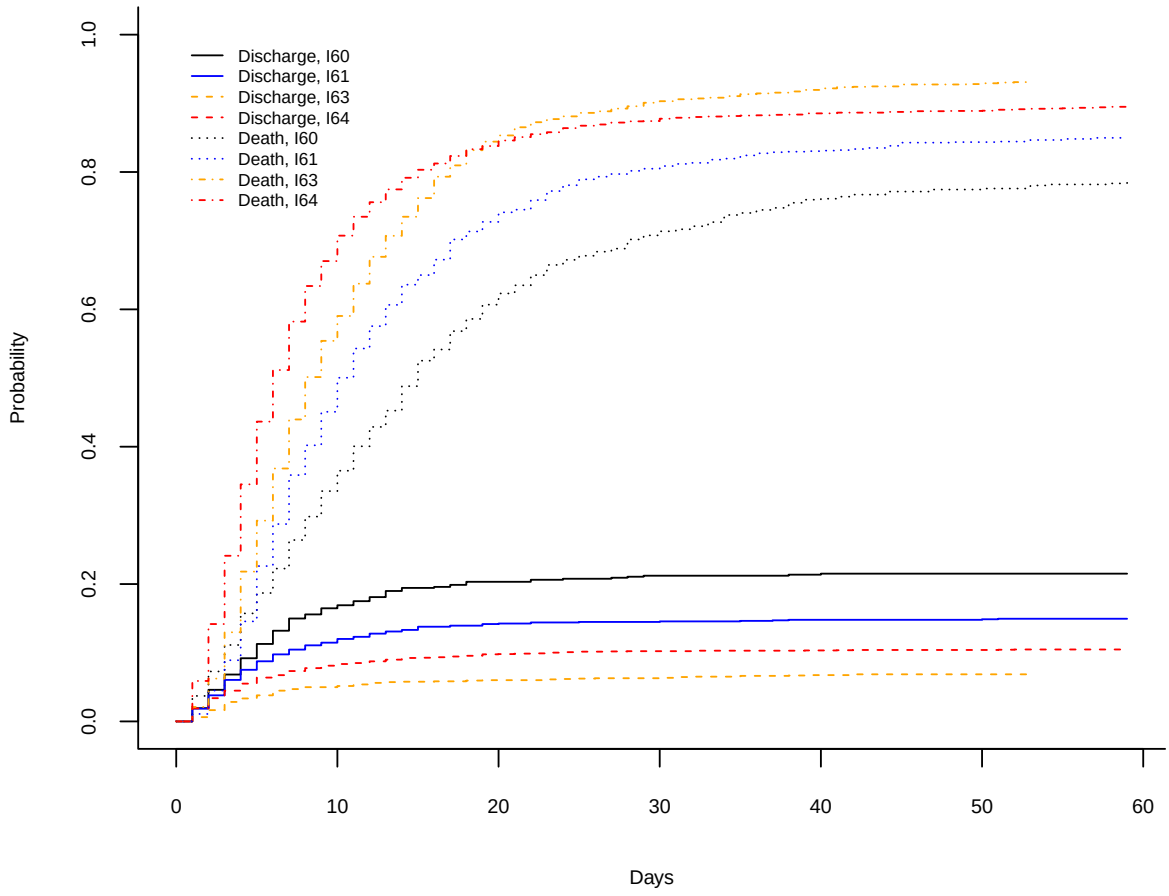
```
CI.4vs5 <- cuminc(ftime=y2016deaths$los, fstatus=y2016deaths$condicion, group=y2016deaths$cid10)
CI.4vs5
```

```
## Tests:
##                 stat pv df
## Death      121.1578  0  3
## Discharged 229.7790  0  3
## Estimates and Variances:
## $est
##                         10         20         30        40         50
## I60 Death      0.16913947 0.20326409 0.21216617 0.2151335 0.21513353
## I61 Death      0.12006197 0.14252517 0.14562355 0.1479473 0.14872192
## I63 Death      0.05155807 0.06005666 0.06345609 0.0674221 0.06855524
```

```
## I64 Death      0.08356841 0.09802539 0.10225670 0.1033145 0.10401975
## I60 Discharged 0.36498516 0.62314540 0.71364985 0.7611276 0.77596439
## I61 Discharged 0.50038730 0.74128582 0.80867545 0.8311387 0.84353215
## I63 Discharged 0.59036827 0.85325779 0.90311615 0.9218130 0.92917847
## I64 Discharged 0.70733427 0.84590973 0.87764457 0.8854020 0.88928068
##
## $var
##                          10           20           30           40           50
## I60 Death      2.071046e-04 2.378177e-04 2.451983e-04 2.476831e-04 2.476831e-04
## I61 Death      8.141357e-05 9.381012e-05 9.544134e-05 9.666612e-05 9.710799e-05
## I63 Death      2.763560e-05 3.185265e-05 3.351034e-05 3.542348e-05 3.597362e-05
## I64 Death      2.673731e-05 3.068950e-05 3.179516e-05 3.206953e-05 3.225164e-05
## I60 Discharged 3.404120e-04 3.422243e-04 2.981384e-04 2.662844e-04 2.553352e-04
## I61 Discharged 1.915380e-04 1.459258e-04 1.179461e-04 1.072878e-04 1.011684e-04
## I63 Discharged 1.361412e-04 7.022607e-05 4.914019e-05 4.052034e-05 3.712235e-05
## I64 Discharged 7.160836e-05 4.477203e-05 3.693652e-05 3.496938e-05 3.398063e-05
```

Including Plots

```
plot(CI.4vs5, lty=c(1,1,2,2,3,3,4,4),
     col=c("black", "blue", "orange", "red", "black", "blue", "orange", "red"),
     curvlab=c("Discharge, I60", "Discharge, I61", "Discharge, I63", "Discharge, I64",
       "Death, I60", "Death, I61", "Death, I63", "Death, I64"), xlab="Days",  cex=0.58, cex.axis=0.7, c
```



Test statistic for RC IV vs V

```
CI.4vs5$Tests
```

```
##                stat pv df
## Death      121.1578  0  3
## Discharged 229.7790  0  3
```