

## 0.1 AML Data Set

Acute Myelogenous Leukemia survival data

### **Survival in patients with Acute Myelogenous Leukemia.**

The question at the time was whether the standard course of chemotherapy should be extended ('maintenance') for additional cycles.

**time:** survival or censoring time

**status:** censoring status

**x:** maintenance chemotherapy given? (factor)

```
>
> head(aml)
time status      x
1     9      1 Maintained
2    13      1 Maintained
3    13      0 Maintained
4    18      1 Maintained
5    23      1 Maintained
6    28      0 Maintained
>
```

```
library(survival)
leukemia.surv <- survfit(Surv(time, status) ~ x,
  data = aml)

plot(leukemia.surv, lty = 2:3)
legend(100, .9,
  c("Maintenance", "No Maintenance"),
  lty = 2:3)

title("Kaplan-Meier Curves\nfor AML Maintenance Study")
```

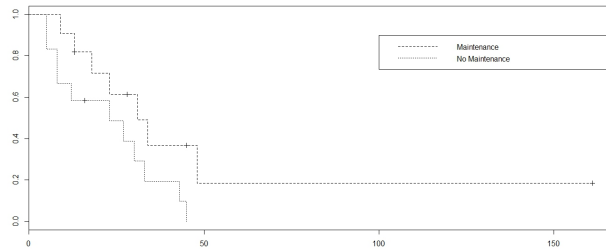


Figure 1:

```
lsurv2 <- survfit(Surv(time, status) ~ x, aml, type='fleming')
plot(lsurv2, lty=2:3, fun="cumhaz",
     xlab="Months", ylab="Cumulative Hazard")
```

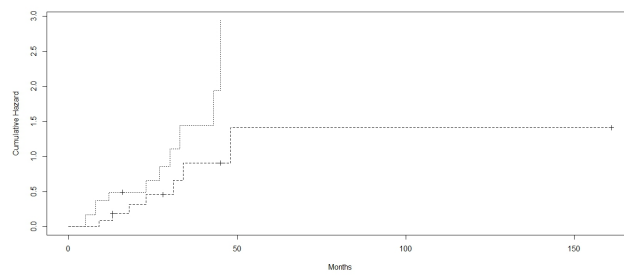


Figure 2: