

Επισκόπηση

```
>Surv(lymphoma.df$time,lymphoma.df$status)
```

```
[1] 1 2 2 2+ 3 5 6 7+ 8 16+ 17 34+
```

```
>lymphoma.surv_survfit(Surv(time,status), data=lymphoma.df)
```

```
>summary(lymphoma.surv)
```

```
Call: survfit(formula = Surv(time, status), data = lymphoma.df)
```

time	n.risk	n.event	survival	std.err	lower 95% CI	upper 95% CI
------	--------	---------	----------	---------	--------------	--------------

1	12	1	0.917	0.0798	0.7729	1.000
---	----	---	-------	--------	--------	-------

2	11	2	0.750	0.1250	0.5410	1.000
---	----	---	-------	--------	--------	-------

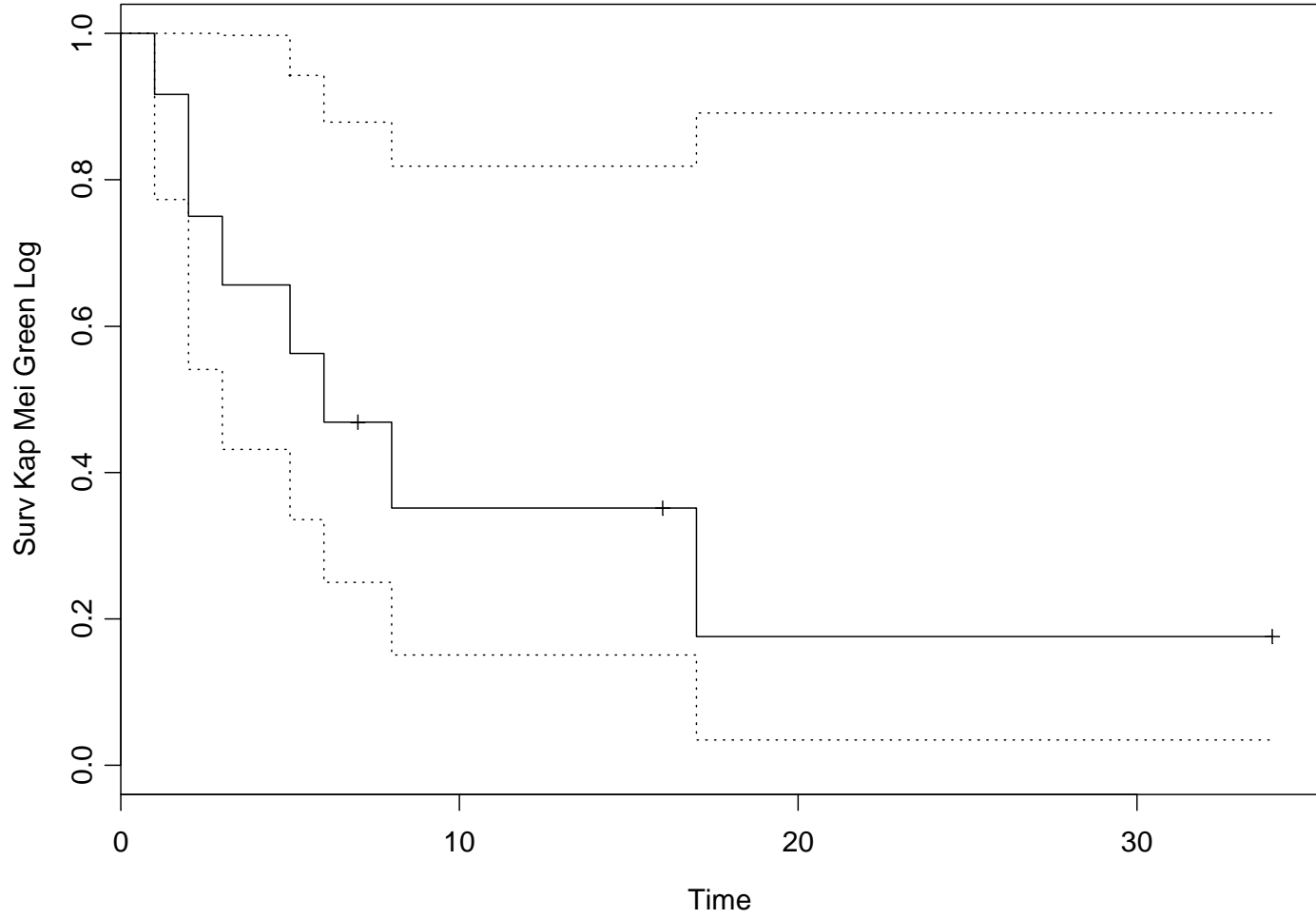
3	8	1	0.656	0.1402	0.4318	0.997
---	---	---	-------	--------	--------	-------

5	7	1	0.562	0.1482	0.3356	0.943
---	---	---	-------	--------	--------	-------

6	6	1	0.469	0.1503	0.2501	0.879
---	---	---	-------	--------	--------	-------

8	4	1	0.352	0.1517	0.1509	0.819
---	---	---	-------	--------	--------	-------

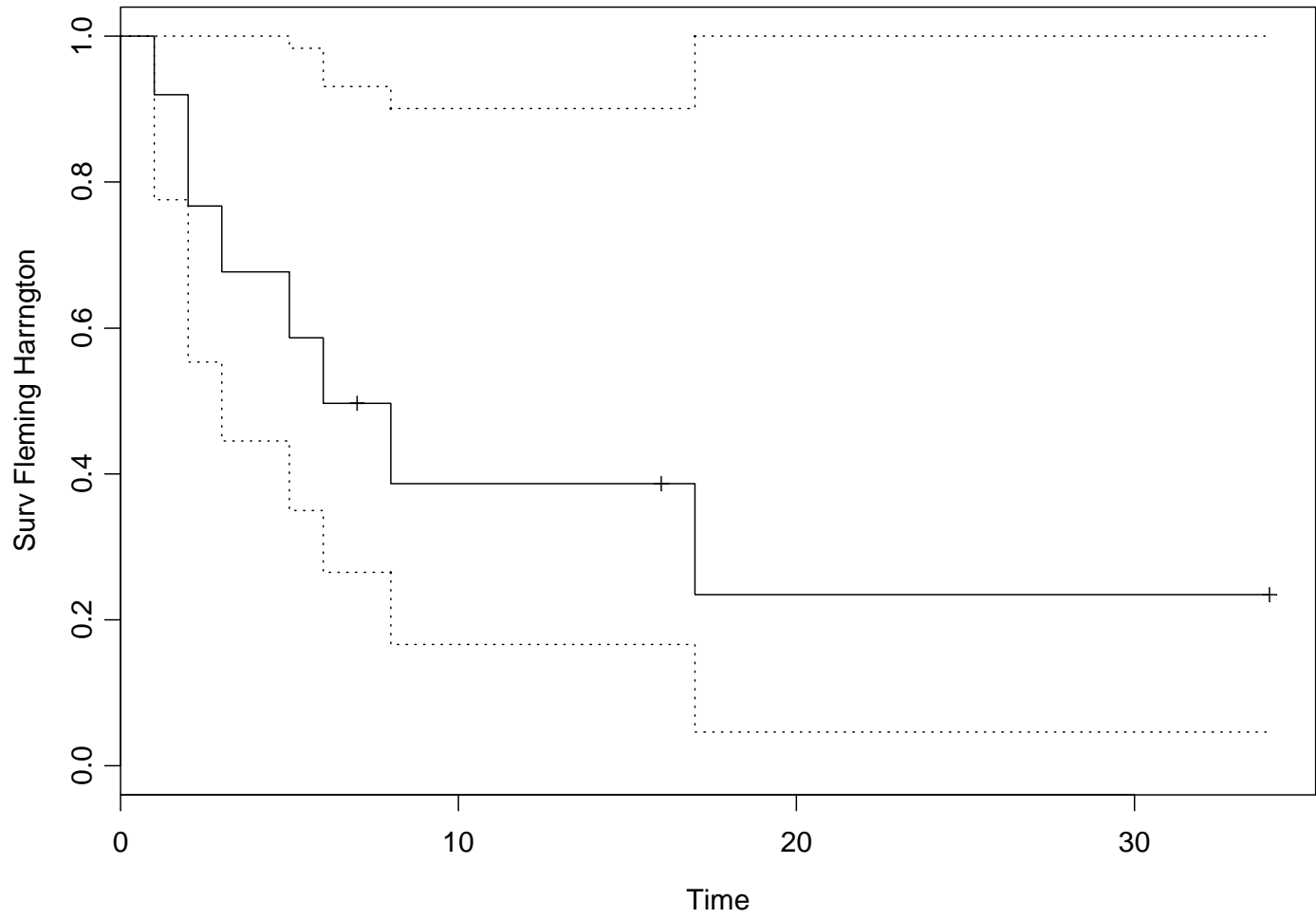
17	2	1	0.17	0.1456	0.0347	0.891
----	---	---	------	--------	--------	-------



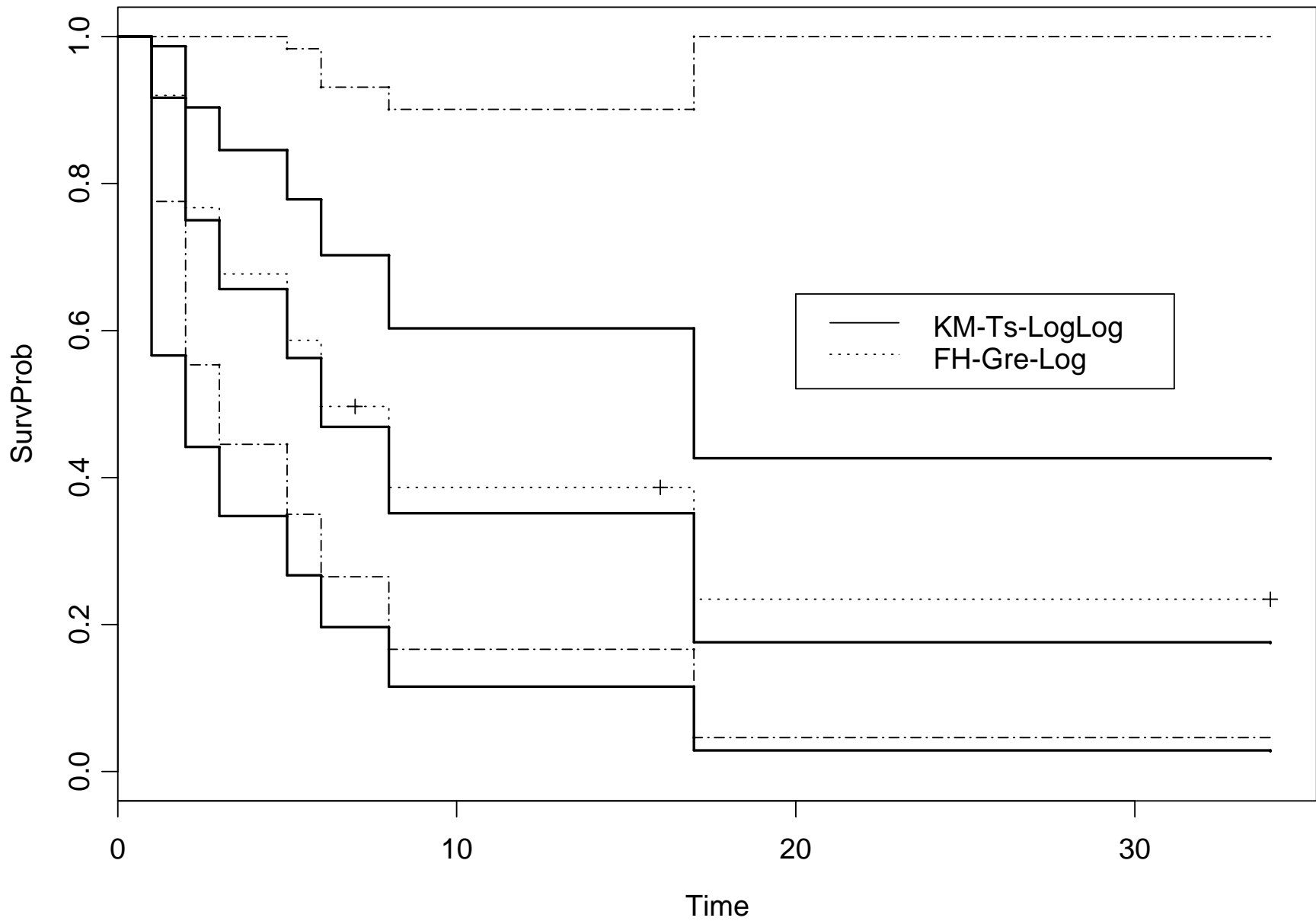
*** Nonparametric Survival ***

```
Call: survfit(formula = Surv(time, status, type = "right") ~ 1,
  data = lymphoma.df, na.action = na.exclude,
  conf.int = 0.95, se.fit = T, type = "fleming-harrington", error
= "greenwood", conf.type = "log",
  conf.lower = "usual")
```

time	n.risk	n.event	survival	std.err	lower	95% CI	upper	95% CI
1	12	1	0.920	0.0801	0.7757		1.000	
2	11	2	0.767	0.1278	0.5533		1.000	
3	8	1	0.677	0.1446	0.4454		1.000	
5	7	1	0.587	0.1546	0.3501		0.984	
6	6	1	0.497	0.1593	0.2650		0.931	
7	5	0	0.497	0.1593	0.2650		0.931	
8	4	1	0.387	0.1669	0.1661		0.901	
16	3	0	0.387	0.1669	0.1661		0.901	
17	2	1	0.235	0.1944	0.0463		1.000	
34	1	0	0.235	0.1944	0.0463		1.000	



```
>lymphoma.surv1_survfit(Surv(time,status),type='fleming-  
ng-  
harrington',error='greenwood',data=lymphoma.df)  
>lymphoma.surv2_survfit(Surv(time,status),type='kaplan-  
meier',error='tsiatis',conf.type='log-  
log',data=lymphoma.df)  
>plot(lymphoma.surv1,lty=2,xlab='Time',ylab='SurvProb')  
> lines(lymphoma.surv2,conf.int=T,lty=1,lwd=2)  
> legend(20,0.65,c('KM-Ts-LogLog','FH-Gre-  
Log'),lty=1:2)
```



```
>survdif(Surv(time,status)~group,data=leukemia.df,rho=0)
```

	N	Observed	Expected	(O-E)^2/E	(O-E)^2/V
--	----------	-----------------	-----------------	------------------	------------------

group=Maintained	11	7	10.69	1.27	3.4
-------------------------	-----------	----------	--------------	-------------	------------

group=Nonmaintained	12	11	7.31	1.86	3.4
----------------------------	-----------	-----------	-------------	-------------	------------

Chisq= 3.4 on 1 degrees of freedom, p= 0.0653

```
> survdif(Surv(time,status)~group,data=leukemia.df,rho=1)
```

Chisq= 2.8 on 1 degrees of freedom, p= 0.0955

```
> survdif(Surv(time,status)~group,data=leukemia.df,rho=0.5)
```

Chisq= 3 on 1 degrees of freedom, p= 0.0823