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LAMPIRAN

Lampiran 1 Uji Proportional Hazard

Input

```
> cox<-coxph(Surv(waktu,status)~umur+jeniskelamin+komorbid,data
= PLOT_baru_1)
> summary(cox)
```

Output

```
Call:
coxph(formula = Surv(waktu, status) ~ umur + jeniskelamin + komorbid,
      data = PLOT_baru_1)
```

```
n= 54347, number of events= 1095
(2 observations deleted due to missingness)
```

	coef	exp(coef)	se(coef)	z	Pr(> z)	
umur	0.063199	1.065239	0.001693	37.321	< 2e-16	***
jeniskelamin	0.253889	1.289028	0.060787	4.177	2.96e-05	***
komorbid	2.313355	10.108277	0.199514	11.595	< 2e-16	***

```
---
Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
```

	exp(coef)	exp(-coef)	lower .95	upper .95
umur	1.065	0.93876	1.062	1.069
jeniskelamin	1.289	0.77578	1.144	1.452
komorbid	10.108	0.09893	6.837	14.945

```
Concordance= 0.834 (se = 0.007 )
Likelihood ratio test= 1588 on 3 df, p=<2e-16
Wald test = 1631 on 3 df, p=<2e-16
Score (logrank) test = 1944 on 3 df, p=<2e-16
```

Input

```
> ph<-cox.zph(cox)
> ph
```

Output

	chisq	df	p
umur	19.73	1	8.9e-06
jeniskelamin	2.33	1	0.127
komorbid	3.51	1	0.061
GLOBAL	23.60	3	3.0e-05

Lampiran 2 Regresi Cox Stratified Tanpa Interaksi

Input

```
> res.strata.umur<-coxph(formula = Surv0bj~jeniskelamin+komorbid+
strata(strataumur), data = PLOT_baruties = c("efron","breslow","e
xact"))[1])
> res.strata.umur
```

Output

```
Call:
coxph(formula = Surv0bj ~ jeniskelamin + komorbid + strata(strata
umur),
      data = PLOT_baru_1, ties = c("efron", "breslow", "exact"))[1])
```

	coef	exp(coef)	se(coef)	z	p
jeniskelamin	0.26356	1.30155	0.06081	4.334	1.46e-05
komorbid	2.67214	14.47089	0.19891	13.434	< 2e-16

```
Likelihood ratio test=109 on 2 df, p=< 2.2e-16
n= 54347, number of events= 1095
(2 observations deleted due to missingness)
```

Input

```
> summary(res.strata.umur)
```

Output

```
Call:
coxph(formula = Surv0bj ~ jeniskelamin + komorbid + strata(strata
umur),
      data = PLOT_baru_1, ties = c("efron", "breslow", "exact"))[1])
```

```
n= 54347, number of events= 1095
(2 observations deleted due to missingness)
```

	coef	exp(coef)	se(coef)	z	Pr(> z)
jeniskelamin	0.26356	1.30155	0.06081	4.334	1.46e-05 ***
komorbid	2.67214	4.47089	0.19891	13.434	< 2e-16 ***

```
---
Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
```

	exp(coef)	exp(-coef)	lower .95	upper .95
jeniskelamin	1.302	0.7683	1.155	1.466
komorbid	4.471	0.0691	9.799	21.370

```
Concordance= 0.542 (se = 0.009 )
Likelihood ratio test= 109 on 2 df, p=<2e-16
Wald test = 199.9 on 2 df, p=<2e-16
Score (logrank) test = 337.7 on 2 df, p=<2e-16
```

Lampiran 3 Regresi Cox Stratified dengan Interaksi

Input

```
> res.interaction.umur<-coxph(formula = Surv0bj~(jeniskelamin+kom
orbid)*kategori-kategori+strata(kategori),
+                               data = PLOT_baru_1,
+                               ties =
+                               c("efron","breslow","exact")[1])
> res.interaction.umur
```

Output

```
Call:
coxph(formula = Surv0bj ~ (jeniskelamin + komorbid) * strataumur
-
      strataumur + strata(strataumur), data = PLOT_baru_1, ties = c
("efron",
 "breslow", "exact")[1])
```

	coef	exp(coef)	se(coef)	z
jeniskelamin	0.32418	1.38289	0.13640	2.377
komorbid	2.58935	13.32113	0.50664	5.111
jeniskelamin:strataumur2	-0.07605	0.92677	0.15238	-0.499
komorbid:strataumur2	0.10142	1.10674	0.55090	0.184
	p			
jeniskelamin	0.0175			
komorbid	3.21e-07			
jeniskelamin:strataumur2	0.6177			
komorbid:strataumur2	0.8539			

```
Likelihood ratio test=109.3 on 4 df, p=< 2.2e-16
n= 54347, number of events= 1095
```

Input

```
> summary(res.interaction.umur)
```

Output

```
Call:
coxph(formula = Surv0bj ~ (jeniskelamin + komorbid) * strataumur
-
      strataumur + strata(strataumur), data = PLOT_baru_1, ties = c
("efron",
 "breslow", "exact")[1])
```

```
n= 54347, number of events= 1095
(2 observations deleted due to missingness)
```

	coef	exp(coef)	se(coef)	z
jeniskelamin	0.32418	1.38289	0.13640	2.377
komorbid	2.58935	13.32113	0.50664	5.111
jeniskelamin:strataumur2	-0.07605	0.92677	0.15238	-0.499
komorbid:strataumur2	0.10142	1.10674	0.55090	0.184
	Pr(> z)			
jeniskelamin	0.0175	*		
komorbid	3.21e-07	***		
jeniskelamin:strataumur2	0.6177			
komorbid:strataumur2	0.8539			

```
---
Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
```

```
Concordance= 0.542 (se = 0.009 )
Likelihood ratio test= 109.3 on 4 df, p=<2e-16
Wald test = 200.4 on 4 df, p=<2e-16
Score (logrank) test = 339.2 on 4 df, p=<2e-16
```

Lampiran 4 Pengujian Interaksi

Input

```
> anova(res.strata.umur, res.interaction.umur)
```

Output

```
Analysis of Deviance Table
Cox model: response is SurvObj
Model 1: ~ jeniskelamin + komorbid + strata(strataumur)
Model 2: ~ (jeniskelamin + komorbid) * strataumur - strataumur +
strata(strataumur)
  loglik  chisq Df Pr(>|Chi|)
1 -10167
2 -10167 0.2903 2      0.8649
```