```
options ls=78 ps=60;

Data myel;
    infile "chap4_myel.txt" firstobs=2;
    input dur status trt renal;
        trt1=trt-1;

run;

proc phreg data=myel;
model dur*status(0)=trt1;
run;

proc lifetest data=myel;
time dur*status(0);
test trt1;
run;
```

The PHREG Procedure

Model Information				
Data Set	WORK.MYEL			
Dependent Variable	dur			
Censoring Variable	status			
Censoring Value(s)	0			
Ties Handling	BRESLOW			

Number of Observations Read | 25 Number of Observations Used 25

Summary of the Number of Event and Censored								
	Values							
	Percent							
Total	Total Event Censored Censored							
25	17	8	32.00					

Convergence Status
Convergence criterion (GCONV=1E-8) satisfied.

Model Fit Statistics						
Without Wit						
Criterion	Covariates	Covariates				
-2 LOG L	94.084	92.765				
AIC	94.084	94.765				
SBC	94.084	95.598				

Testing Global Null Hypothesis: BETA=0							
Test Chi-Square DF Pr > ChiSq							
Likelihood Ratio	1.3191	1	0.2508				
Score	1.2975	1	0.2547				
Wald	1.2633	1	0.2610				

	Analysis of Maximum Likelihood Estimates						
	Parameter Standard Hazard						
Parameter	DF	Estimate	Error	Chi-Square	Pr > ChiSq	Ratio	
trt1	1	0.57276	0.50960	1.2633	0.2610	1.773	

The LIFETEST Procedure

	Product-Limit Survival Estimates					
					Number	Number
dur	Ш	Survival	Failure	Survival Standard Error	Failed	Left
0.00	Ш	1.0000	0	0	0	25
8.00	Ш				1	24
8.00	Ш	0.9200	0.0800	0.0543	2	23
13.00	Ш		0.1200	0.0650	3	22
18.00		0.8400	0.1600	0.0733	4	21
23.00	Ш	0.8000	0.2000	0.0800	5	20
52.00	Ш	0.7600	0.2400	0.0854	6	19
63.00					7	18
63.00		0.6800	0.3200	0.0933	8	17
70.00		0.6400	0.3600	0.0960	9	16
76.00		0.6000	0.4000	0.0980	10	15
180.00		0.5600	0.4400	0.0993	11	14
195.00		0.5200	0.4800	0.0999	12	13
210.00		0.4800	0.5200	0.0999	13	12
220.00		0.4400	0.5600	0.0993	14	11
365.00	*				14	10
632.00		0.3960	0.6040	0.0986	15	9
700.00		0.3520	0.6480	0.0970	16	8
852.00	*				16	7
1296.00		0.3017	0.6983	0.0953	17	6
1296.00	*				17	5
1328.00	*				17	4
1460.00	*				17	3
1976.00	*				17	2
1990.00	*				17	1
2240.00	*				17	0

Note: The marked survival times are censored observations.

Summary Statistics for Time Variable dur

Quartile Estimates						
Point 95% Confidence Interva				nterval		
Percent	Estimate	Transform [Lower Upper]				
75		LOGLOG	220.00			
50	210.00	LOGLOG	63.00	1296.00		
25	63.00	LOGLOG	8.00	180.00		

Mean Standard Error 562.76 117.32

The LIFETEST Procedure

Note: The mean survival time and its standard error were underestimated because the largest observation was censored and the estimation was restricted to the largest event time.

Summary of the Number of Censored and Uncensored Values							
	Percer						
Total	Total Failed Censored Censore						
25	17	8	32.00				

Rank Tests for the Association of dur with Covariates

Univariate Chi-Squares for the Wilcoxon							
	Test						
	Test Standard Pr						
Variable	Variable Statistic Error Chi-Square Chi-Square						
trt1	-0.7622	1.3691	0.3100	0.5777			

Covariance Matrix for the Wilcoxon Statistics				
Variable trt1				
trt1		1.87445		

	Forward Stepwise Sequence of Chi-Squares for the Wilcoxon Test						
Pr > Chi-Square Pr							
Variable	Variable DF Chi-Square Chi-Square Increment Increment						
trt1	1	0.3100	0.5777	0.3100	0.5777		

Univariate Chi-Squares for the Log-Rank							
Test							
	Test	Standard		Pr >			
Variable	Statistic	Error	Chi-Square	Chi-Square			
trt1	-2.3376	2.0522	1.2975	0.2547			

Covariance Matrix for the Log-Rank Statistics					
Variable	trt1				
trt1	4.21151				

Forward Stepwise Sequence of Chi-Squares								
for the Log-Rank Test								
			Pr >	Chi-Square	Pr>			
Variable	DF	Chi-Square	Chi-Square	Increment	Increment			
trt1	1	1.2975	0.2547	1.2975	0.2547			