The survival data

February 3, 2011

```
The data:
1 1 0 16
2 1 0 24
2 1 0 18
3 0 0 27
4 1 0 25
5 1 0 21
11 1 0 55
7 1 1 26
8 1 1 36
10 1 1 38
10 0 1 45
12 1 1 47
3 . 0 25
6 . 0 25
9 . 0 25
12 . 0 25
3 . 1 25
6 . 1 25
9 . 1 25
12 . 1 25
3 . 0 45
6 . 0 45
9 . 0 45
12 . 0 45
3 . 1 45
6 . 1 45
9 . 1 45
12 . 1 45
The SAS code and output:
data dancers;
  infile "survival1.dat";
  input months dancing treatment age;
```

proc phreg;

model months*dancing(0) = age treatment;
output out=fred survival=s;

proc print data=fred;

run;

The PHREG Procedure

Model Information

Data Set WORK.DANCERS
Dependent Variable months

Censoring Variable dancing

Censoring Value(s) 0

Ties Handling BRESLOW

Number of Observations Read 12 Number of Observations Used 12

Summary of the Number of Event and Censored Values

Percent

Total Event Censored Censored 12 10 2 16.67

Convergence Status

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

Model Fit Statistics

	Without	With
Criterion	Covariates	Covariates
-2 LOG L	33.573	12.572
AIC	33.573	16.572
SBC	33.573	17.177

Testing Global Null Hypothesis: BETA=0

Test	Chi-Square	DF	Pr > ChiSq
Likelihood Ratio	21.0016	2	<.0001
Score	14.2093	2	0.0008
Wald	5.5556	2	0.0622

Analysis of Maximum Likelihood Estimates

		Parameter	Standard			Hazard
Parameter	DF	Estimate	Error	Chi-Square	Pr > ChiSq	Ratio
age	1	-0.35284	0.14973	5.5532	0.0184	0.703
treatment	1	-4.28283	2.54084	2.8412	0.0919	0.014

Obs	months	dancing	treatment	age	s
1	1	1	0	16	0.57151
2	2	1	0	24	0.83172
3	2	1	0	18	0.21643
4	3	0	0	27	0.93807
5	4	1	0	25	0.72245
6	5	1	0	21	0.09720
7	11	1	0	55	0.36576
8	7	1	1	26	0.38310
9	8	1	1	36	0.52937
10	10	1	1	38	0.33973
11	10	0	1	45	0.91271
12	12	1	1	47	0.29126