

BS852 Mini Project: The association of grip strength with mortality

Overview: This 8-year follow-up study mainly aims to examine the association of weak grip strength with mortality in a sample of elders (>69 years). The dataset has 2038 subjects in total.

Methods: Descriptive statistics were computed using the proc means and proc freq to summarize subjects' baseline characteristics. The hazard ratios and 95% CI for the association between weak grip strength and mortality using both the unadjusted and adjusted cox proportional hazards model. For unadjusted analysis, obtain the Kaplan-Meier curves and log-rank test for time to mortality, for those with and those without weak grip strength. The association between weak grip strength and other covariates were assessed using several simple logistic regression models. We also assessed the association of weak grip strength with mortality between gender groups by adding an interaction item 'weak_grip*sex'. The confounding factors were examined using several cox proportional hazards models and 10% rules.

Data Overview: We first recode the 'sex' variable let 1=Male and 0=Female, define 'Mortality' (based on 'Alive') coded by 1=not-alive and 0=alive at the end of the study, and create 'weak_grip' coded 1=weak grip strength and 0=not weak grip, where weak grip strength is defined by one standard deviation below its gender-specific mean grip strength. Considering data is time-to-event, we also create a 'time' variable refers to the follow-up time in years using two age-related variables. The number of missing values is shown:

	Mortality	weak grip	smoke	ed	BMI	gait speed	fev1	DSST	sex	time	Age_la	Age_en
N miss	5	69	10	6	119	144	409	236	0	0	0	0

The summary of patients' characteristics are as follows. A total of 2038 elders were followed for 8 years. 267 (13.6%) have weak grip strength. (1) Compared with elders without weak grip, elders with weak grip were more likely to die (61.28% vs 30.74%), higher age (93.20 vs 85.30), lower walk speed (0.57 vs 0.80), lower lung function (1.44 vs 1.89) and lower level of cognition (23.33 vs 32.79). Differences between the 2 groups in terms of smoke, education, and BMI were modest in comparison.

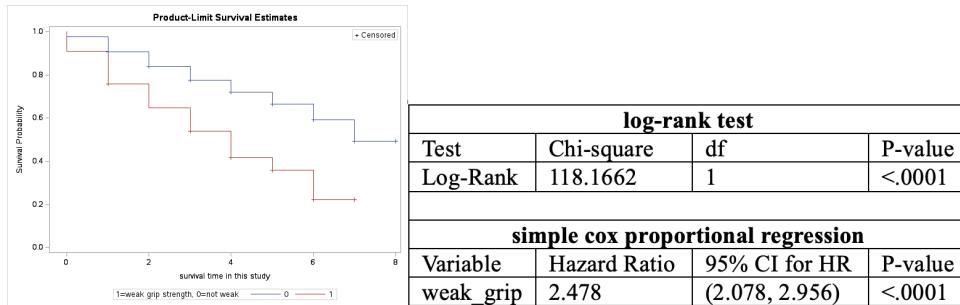
(2) Compared with different sex groups, females were more likely to smoke (69.69% vs 38.90%) and lower lung function (1.52 vs 2.18). Differences between the gender groups in terms of mortality, weak grip strength, education, age, BMI, walk speed, and level of cognition were modest in comparison.

Characteristic	No weak grip strength (n = 1702)	weak grip strength (n = 267)	Male (n = 948)	Female (n = 1090)
Mortality (Not alive)	522 (30.74)	163 (61.28)	365 (38.58)	357 (32.84)
weak grip strength	-	-	129 (14.01)	138 (13.17)
Sex (Male)	792 (46.53)	129 (48.31)	-	-
Smoke (smoker)	927 (54.75)	153 (57.52)	368 (38.90)	754 (69.69)
high ed (> 12 yrs)	984 (57.92)	138 (52.08)	614 (65.11)	547 (50.23)
Age enrollment	85.30 ± 8.99	93.20 ± 6.34	85.90 ± 8.88	86.89 ± 9.32
BMI	17.51 ± 2.91	16.76 ± 3.15	17.62 ± 2.54	17.23 ± 3.26
gait speed	0.80 ± 0.27	0.57 ± 0.23	0.80 ± 0.26	0.74 ± 0.28
fev1	1.89 ± 0.67	1.44 ± 0.57	2.18 ± 0.67	1.52 ± 0.50
DSST	32.79 ± 13.62	23.33 ± 12.65	30.88 ± 13.09	32.12 ± 14.66

Analysis:

(1) Unadjusted analysis using Kaplan-Meier curves, log-rank test, and crude cox proportional regression.

According to the survival curve, those with weak grip strength have significantly higher risk of mortality with those without weak grip strength. The Log-rank test chi-sq (1) = 118.1662 with p<0.0001, so we have enough evidence to reject H₀ and conclude that those two groups are statistically significantly different. Those with weak grip strength have 2.478 times the hazard of mortality as those without weak grip strength (95% CI 2.078, 2.956). This means those who with weak grip strength have significantly higher risk of mortality compared to those without weak grip strength. The 95% CI didn't overlap null value and P-value smaller than 0.05 both indicates the results are statistically significant.



(2) Adjusted multiple cox proportional hazards model.

Variable	crude HR	Adjust HR	95% CI for adjust HR	P-value
weak_grip	2.478 (2.078, 2.956)	0.81	(0.621, 1.055)	0.1184 >0.05
sex	-	2.231	(1.724, 2.887)	<.0001
smoke	-	0.873	(0.707, 1.078)	0.2075 >0.05
high_ed	-	1.067	(0.874, 1.301)	0.5251 >0.05
Age_enrollment	-	1.061	(1.042, 1.08)	<.0001
BMI	-	0.924	(0.888, 0.961)	<.0001
gait_speed	-	0.219	(0.133, 0.363)	<.0001
fev1	-	0.675	(0.547, 0.833)	0.0002
DSST	-	0.977	(0.968, 0.986)	<.0001

According to the results of multiple cox proportional hazards model which include all possible covariates, those with weak grip strength have 0.81 times the hazard of mortality as those without weak grip strength after adjusting for other covariates. The results are not significant as the 95% CI overlap 1.0 and P > 0.05. Also, the ‘smoke’ and ‘high_ed’ are all have no associations with the hazard of mortality after adjusting for other variables. Since weak grip strength loses its significant association with mortality (adj-HR of 0.81 < crude HR of 2.478) when accounting for other 8 covariates, the potential confounding effect exists.

(3) Assess association between weak grip strength and other covariates.

We perform eight simple logistic regression model first, and then perform three chi-square tests to double check the associations for the three categorical variables ‘sex’, ‘smoke’, and ‘high_ed’.

covariate	Logistic Model	OR	95% CI of OR	P-value
sex	weak_grip = sex	1.074	(0.830, 1.391)	0.5877 >0.05
smoke	weak_grip = smoke	1.119	(0.862, 1.453)	0.3996 >0.05
high_ed	weak_grip = high_ed	0.790	(0.609, 1.024)	0.0744 >0.05
Age_enrollment	weak_grip = Age_enrollment	1.142	(1.118, 1.168)	<.0001
BMI	weak_grip = BMI	0.909	(0.864, 0.956)	0.0002
gait_speed	weak_grip = gait_speed	0.035	(0.019, 0.062)	<.0001
fev1	weak_grip = fev1	0.306	(0.233, 0.403)	<.0001
DSST	weak_grip = DSST	0.950	(0.939, 0.961)	<.0001

From the logistic regression result, we could notice that only for three categorical variables ‘sex’, ‘smoke’, and ‘high_ed’, the p-values are all larger than 0.05 and 95% CI of OR overlap the null value. Therefore, we could conclude that there is no significant association between ‘sex’, ‘smoke’, ‘high_ed’ and whether subjects with weak grip strength or not, whereas there is significant association between ‘Age_enrollment’, ‘BMI’, ‘gait_speed’, ‘fev1’, ‘DSST’ and whether subjects with weak grip strength or not. The results of chi-square tests (shown in Appendix) match the results of logistic regressions. Therefore, five continuous variables (age, BMI, gait_speed, fev1, and DSST) have statistically significant associations with weak grip strength, which might be the potential confounders for our study. And three categorical variables ‘sex’, ‘smoke’, and ‘high_ed’ are not associated with weak grip strength.

(4) Assess association of weak grip strength with mortality between gender groups.

To assess the association between weak grip strength and mortality between males and females, we perform two cox proportional hazards model: a) cox regression only include weak_grip, sex, and the interaction item if weak_grip and sex 'weak_grip*sex'; b) multiple cox regression include all possible covariates and the interaction item 'weak_grip*sex'. Based on the results of two models, the interaction between weak grip strength and sex is not significant (with $p > 0.05$) in both models. This indicates that the association between weak grip strength and mortality does not differ significantly between males and females, regardless of whether controlling for other 7 covariates.

Model	Variable	Chi-Square	Pr > ChiSq
time*Mortality(0) = weak_grip sex weak_grip*sex	weak_grip*sex	3.2722	0.0705 >0.05
time*Mortality(0) = weak_grip sex weak_grip*sex smoke high_ed Age enrollment BMI gait_speed fev1 DSST	weak_grip*sex	0.1765	0.6744 >0.05

(5) Assess potential confounders.

To assess potential confounders which would confounding the association between weak grip strength and mortality, we use the crude cox regression model in (1) as baseline (crude HR = 2.478 with 95% CI = 2.078, 2.956), then perform several cox regression models by adding 8 potential covariates respectively to compare if they have significant impact on the hazard ratio for weak grip strength.

Model	aHR for weak grip	95% CI	P	aHR - HR /HR
outcome = weak_grip + sex	2.462	(2.064, 2.937)	<.0001	0.65%
outcome = weak_grip + smoke	2.464	(2.065, 2.940)	<.0001	0.56%
outcome = weak_grip + high_ed	2.450	(2.052, 2.924)	<.0001	1.13%
outcome = weak_grip + Age_enrollment	1.315	(1.094, 1.580)	0.0035	46.93% > 10%
outcome = weak_grip + BMI	2.247	(1.861, 2.713)	<.0001	9.32%
outcome = weak_grip + gait_speed	1.399	(1.146, 1.707)	0.0010	43.54% > 10%
outcome = weak_grip + fev1	1.788	(1.437, 2.224)	<.0001	27.85% > 10%
outcome = weak_grip + DSST	1.512	(1.225, 1.867)	0.0001	38.98% > 10%

Based on the results and the 10% rule, after adding 'Age_enrollment', 'gait_speed', 'fev1', and 'DSST' as potential confounders in separate models, there will be more than a 10% difference in the unadjusted and adjusted HR for weak grip strength. So, 'Age_enrollment', 'gait_speed', 'fev1', and 'DSST' does confound the association between weak grip strength and mortality. And other variables may not be confounders.

Discussion and conclusion: The results from the unadjusted analysis showed that those with weak grip strength have a significantly higher risk of mortality compared to those without. However, after adjusting for potential confounders, weak grip strength will have no significant association with mortality. The weak grip strength is not significantly associated with the three categorical variables - sex, smoke, and high_ed, while there is a significant association between weak grip strength and five continuous variables - age, BMI, gait_speed, fev1, and DSST. The interaction between weak grip strength and sex is not significant, indicating that the association between weak grip strength and mortality does not differ significantly between gender groups. In terms of potential confounders, age at enrollment, gait speed, fev1, and DSST were found that does confound the association between weak grip strength and mortality. To sum up, in this study, weak grip strength is significantly associated with increased mortality risk in elders in the crude regression, but this association will not exist (non-significant) after adjusting for other covariates.

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1 options ls=70 ps=55 nofmterr;
2 libname prj '/home/u62266791/BS852/Project';
3 FILENAME lng '/home/u62266791/BS852/Project/data.longevity.csv';
4
5 /*pre: data process*/
6 PROC IMPORT DATAFILE=lng DBMS=csv OUT=prj.lng; RUN;
7
8 data data1;
9   set prj.lng;
10  if Alive='Yes' then Mortality=0; else if Alive='No' then Mortality=1;
11  if sex=1 then sex=1; else if sex=2 then sex=0;
12  label sex='1=Male, 0=Female';
13  label Mortality='1=not-alive, 0=alive';
14 run;
15
16 proc means data=data1 missing;
17   class sex;
18   var grip_strength;
19   output out=sex_grips mean=mean_grip std=sd_grip;
20 run;
21
22 proc sort data=data1; by sex; run;
23 data data2;
24   merge data1 sex_grips;
25   by sex;
26   where sex in (1, 0);
27   drop _TYPE_ _FREQ_;
28 run;
29
30 data prj.cleaned;
31   set data2;
32   time = Age_last_contact - Age_enrollment;
33   if grip_strength=. then weak_grip=.;
34   else if grip_strength < (mean_grip - sd_grip) then weak_grip=1;
35   else weak_grip=0;
36   label time = 'survival time in this study';
37   label weak_grip = '1=weak grip strength, 0=not weak';
38   drop mean_grip sd_grip;
39 run;
40
41 /*Data preview*/
42 proc means data=prj.cleaned n nmiss mean std min max;
43   var Age_enrollment BMI gait_speed fevl DSST;
44   class weak_grip;
45 run;
46 proc sort data=prj.cleaned; by descending weak_grip descending Mortality; run;
47 proc freq data=prj.cleaned order=data;
48   tables mortality*weak_grip sex*weak_grip smoke*weak_grip high_ed*weak_grip / chisq;
49 run;
50
51 proc means data=prj.cleaned n nmiss mean std min max;
52   var Age_enrollment BMI gait_speed fevl DSST;
53   class sex;
54 run;
55 proc sort data=prj.cleaned; by descending weak_grip descending Mortality; run;
56 proc freq data=prj.cleaned order=data;
57   tables mortality*sex weak_grip*sex smoke*sex high_ed*sex / chisq;
58 run;
59
60 /*Q1*/
61 proc lifetest data=prj.cleaned plots=(s);
62   time time*Mortality(0);
63   strata weak_grip;
64 run;
65
66 proc phreg data=prj.cleaned; model time*Mortality(0) = weak_grip / rl; run;
67
68 proc phreg data=prj.cleaned;
69   model time*Mortality(0) = weak_grip sex smoke high_ed Age_enrollment BMI gait_speed fevl DSST/ rl;
70 run;
71
72 /*Q2*/
73 proc logistic data=prj.cleaned descending; model weak_grip = sex; run;
74 proc logistic data=prj.cleaned descending; model weak_grip = smoke; run;
75 proc logistic data=prj.cleaned descending; model weak_grip = high_ed; run;
76 proc logistic data=prj.cleaned descending; model weak_grip = Age_enrollment; run;
77 proc logistic data=prj.cleaned descending; model weak_grip = BMI; run;
78 proc logistic data=prj.cleaned descending; model weak_grip = gait_speed; run;
79 proc logistic data=prj.cleaned descending; model weak_grip = fevl; run;
80 proc logistic data=prj.cleaned descending; model weak_grip = DSST; run;
81
82 proc freq data = prj.cleaned; tables weak_grip*sex / chisq; run;
83 proc freq data = prj.cleaned; tables weak_grip*smoke / chisq; run;
84 proc freq data = prj.cleaned; tables weak_grip*high_ed / chisq; run;

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83 /*Q3*/
84 proc phreg data=prj.cleaned;
85   model time*Mortality(0) = weak_grip sex/ rl;
86 run;
87 proc phreg data=prj.cleaned;
88   model time*Mortality(0) = weak_grip sex weak_grip*sex / rl;
89 run;
90 proc phreg data=prj.cleaned;
91   model time*Mortality(0) = weak_grip sex weak_grip*sex smoke high_ed Age_enrollment BMI gait_speed fevl DSST/ rl;
92 run;
93
94 /*Q4*/
95 proc phreg zph data=prj.cleaned;
96   model time*Mortality(0) = weak_grip sex smoke high_ed Age_enrollment BMI gait_speed fevl DSST/ rl;
97 run;
98
99 proc phreg data=prj.cleaned; model time*Mortality(0) = weak_grip sex/ rl; run;
100 proc phreg data=prj.cleaned; model time*Mortality(0) = weak_grip smoke/ rl; run;
101 proc phreg data=prj.cleaned; model time*Mortality(0) = weak_grip high_ed/ rl; run;
102 proc phreg data=prj.cleaned; model time*Mortality(0) = weak_grip Age_enrollment / rl; run;
103 proc phreg data=prj.cleaned; model time*Mortality(0) = weak_grip BMI / rl; run;
104 proc phreg data=prj.cleaned; model time*Mortality(0) = weak_grip gait_speed / rl; run;
105 proc phreg data=prj.cleaned; model time*Mortality(0) = weak_grip fevl / rl; run;
106
107
108
109
110
```

The MEANS Procedure

Analysis Variable : grip_strength						
1=Male, 0=Female	N Obs	N	Mean	Std Dev	Minimum	Maximum
0	1090	1048	16.6531489	6.1733297	0	70.0000000
1	948	921	27.5314875	9.2329506	0.5000000	85.0000000

The MEANS Procedure

1=weak grip strength, 0=not weak	N Obs	Variable	N	N Miss	Mean	Std Dev	Minimum	Maximum
0	1702	Age_enrollment BMI gait_speed fev1 DSST	1702 1662 1653 1418 1573	0 40 49 284 129	85.3025852 17.5105607 0.8002873 1.8851117 32.7889383	8.9875859 2.9138350 0.2685881 0.6688370 13.6246934	70.0000000 9.9960479 0.0773495 0.3100000 0	107.0000000 31.6529786 1.6701461 4.4800000 77.0000000
1	267	Age_enrollment BMI gait_speed fev1 DSST	267 239 230 200 208	0 28 37 67 59	93.2022472 16.7564862 0.5746042 1.4440200 23.3269231	6.3391250 3.1523241 0.2260958 0.5738298 12.6536488	72.0000000 8.6579747 0.0414723 0.4099731 0	110.0000000 37.8685121 1.2558870 3.1900000 53.0000000

The FREQ Procedure

Frequency Percent Row Pct Col Pct	Table of Mortality by weak_grip			
	weak_grip(1=weak grip strength, 0=not weak)			Total
	Mortality(1=not-alive, 0=alive)		1	
	1	163 8.30 23.80 61.28	522 26.58 76.20 30.74	685 34.88
		0	103 5.24 8.05 38.72	1176 59.88 91.95 69.26
Total			266 13.54	1698 86.46
Frequency Missing = 74				

Statistics for Table of Mortality by weak_grip

Statistic	DF	Value	Prob
Chi-Square	1	94.4122	<.0001
Likelihood Ratio Chi-Square	1	89.6789	<.0001
Continuity Adj. Chi-Square	1	93.0726	<.0001
Mantel-Haenszel Chi-Square	1	94.3641	<.0001
Phi Coefficient		0.2193	
Contingency Coefficient		0.2142	
Cramer's V		0.2193	

Fisher's Exact Test	
Cell (1,1) Frequency (F)	163
Left-sided Pr <= F	1.0000
Right-sided Pr >= F	<.0001
Table Probability (P)	<.0001
Two-sided Pr <= P	<.0001

Sample Size = 1964
Frequency Missing = 74

Frequency Percent Row Pct Col Pct	Table of sex by weak_grip			
	sex(1=Male, 0=Female)	weak_grip(1=weak grip strength, 0=not weak)		
		1	0	Total
0	138 7.01 13.17 51.69	910 46.22 86.83 53.47		1048 53.22
1	129 6.55 14.01 48.31	792 40.22 85.99 46.53		921 46.78
Total	267 13.56	1702 86.44		1969 100.00
Frequency Missing = 69				

Statistics for Table of sex by weak_grip

Statistic	DF	Value	Prob
Chi-Square	1	0.2941	0.5876
Likelihood Ratio Chi-Square	1	0.2938	0.5878
Continuity Adj. Chi-Square	1	0.2269	0.6338
Mantel-Haenszel Chi-Square	1	0.2939	0.5877
Phi Coefficient		-0.0122	
Contingency Coefficient		0.0122	
Cramer's V		-0.0122	

Fisher's Exact Test	
Cell (1,1) Frequency (F)	138
Left-sided Pr <= F	0.3167
Right-sided Pr >= F	0.7287
Table Probability (P)	0.0453
Two-sided Pr <= P	0.5982

Sample Size = 1969
Frequency Missing = 69

Frequency Percent Row Pct Col Pct	Table of smoke by weak_grip			
	smoke	weak_grip(1=weak grip strength, 0=not weak)		
		1	0	Total
0	113 5.77 12.86 42.48	766 39.10 87.14 45.25		879 44.87
1	153 7.81 14.17 57.52	927 47.32 85.83 54.75		1080 55.13
Total	266 13.58	1693 86.42		1959 100.00
Frequency Missing = 79				

Statistics for Table of smoke by weak_grip

Statistic	DF	Value	Prob
Chi-Square	1	0.7099	0.3995
Likelihood Ratio Chi-Square	1	0.7122	0.3987
Continuity Adj. Chi-Square	1	0.6026	0.4376

Statistic	DF	Value	Prob
Mantel-Haenszel Chi-Square	1	0.7096	0.3996
Phi Coefficient		-0.0190	
Contingency Coefficient		0.0190	
Cramer's V		-0.0190	

Fisher's Exact Test	
Cell (1,1) Frequency (F)	113
Left-sided Pr <= F	0.2190
Right-sided Pr >= F	0.8182
Table Probability (P)	0.0372
Two-sided Pr <= P	0.4264

Sample Size = 1959
Frequency Missing = 79

Frequency Percent Row Pct Col Pct	Table of high_ed by weak_grip		
	weak_grip(1=weak grip strength, 0=not weak)		
high_ed	1	0	Total
0	127 6.47 15.08 47.92	715 36.41 84.92 42.08	842 42.87
1	138 7.03 12.30 52.08	984 50.10 87.70 57.92	1122 57.13
Total	265 13.49	1699 86.51	1964 100.00
Frequency Missing = 74			

Statistics for Table of high_ed by weak_grip

Statistic	DF	Value	Prob
Chi-Square	1	3.1933	0.0739
Likelihood Ratio Chi-Square	1	3.1720	0.0749
Continuity Adj. Chi-Square	1	2.9593	0.0854
Mantel-Haenszel Chi-Square	1	3.1917	0.0740
Phi Coefficient		0.0403	
Contingency Coefficient		0.0403	
Cramer's V		0.0403	

Fisher's Exact Test	
Cell (1,1) Frequency (F)	127
Left-sided Pr <= F	0.9678
Right-sided Pr >= F	0.0430
Table Probability (P)	0.0108
Two-sided Pr <= P	0.0826

Sample Size = 1964
Frequency Missing = 74

The MEANS Procedure

1=Male, 0=Female	N Obs	Variable	N	N Miss	Mean	Std Dev	Minimum	Maximum
0	1090	Age_enrollment	1090	0	86.8871560	9.3222642	70.0000000	109.0000000

1=Male, 0=Female	N Obs	Variable	N	N Miss	Mean	Std Dev	Minimum	Maximum
		BMI	1019	71	17.2289300	3.2604927	8.6579747	37.8685121
		gait_speed	1003	87	0.7447054	0.2837583	0.0414723	1.6096579
		fev1	864	226	1.5165416	0.5021975	0.3100000	4.4800000
		DSST	944	146	32.1175847	14.6621893	0	77.0000000
1	948	Age_enrollment	948	0	85.8966245	8.8751679	70.0000000	110.0000000
		BMI	900	48	17.6176732	2.5355659	11.2640000	27.6295217
		gait_speed	891	57	0.8042615	0.2583828	0.0842371	1.6701461
		fev1	765	183	2.1823790	0.6710463	0.3600000	4.2597656
		DSST	858	90	30.8764569	13.0941704	0	70.0000000

The FREQ Procedure

Frequency Percent Row Pct Col Pct	Table of Mortality by sex				
			sex(1=Male, 0=Female)		
	Mortality(1=not-alive, 0=alive)		0	1	
	1	357 17.56 49.45 32.84	365 17.95 50.55 38.58	722 35.51	
		0	730 35.91 55.68 67.16	581 28.58 44.32 61.42	1311 64.49
Total			1087 53.47	946 46.53	2033 100.00
Frequency Missing = 5					

Statistics for Table of Mortality by sex

Statistic	DF	Value	Prob
Chi-Square	1	7.2789	0.0070
Likelihood Ratio Chi-Square	1	7.2727	0.0070
Continuity Adj. Chi-Square	1	7.0304	0.0080
Mantel-Haenszel Chi-Square	1	7.2753	0.0070
Phi Coefficient		-0.0598	
Contingency Coefficient		0.0597	
Cramer's V		-0.0598	

Fisher's Exact Test	
Cell (1,1) Frequency (F)	357
Left-sided Pr <= F	0.0040
Right-sided Pr >= F	0.9970
Table Probability (P)	0.0010
Two-sided Pr <= P	0.0071

Sample Size = 2033
Frequency Missing = 5

Frequency Percent Row Pct Col Pct	Table of weak_grip by sex				
			sex(1=Male, 0=Female)		
	weak_grip(1=weak grip strength, 0=not weak)		0	1	
	1	138 7.01 51.69 13.17	129 6.55 48.31 14.01	267 13.56	
		0	910 46.22 53.47 86.83	792 40.22 46.53 85.99	1702 86.44
Total			1048	921	1969

Table of weak_grip by sex			
		sex(1=Male, 0=Female)	
weak_grip(1=weak grip strength, 0=not weak)		0	1
		53.22	46.78
Frequency Missing = 69			

Statistics for Table of weak_grip by sex

Statistic	DF	Value	Prob
Chi-Square	1	0.2941	0.5876
Likelihood Ratio Chi-Square	1	0.2938	0.5878
Continuity Adj. Chi-Square	1	0.2269	0.6338
Mantel-Haenszel Chi-Square	1	0.2939	0.5877
Phi Coefficient		-0.0122	
Contingency Coefficient		0.0122	
Cramer's V		-0.0122	

Fisher's Exact Test	
Cell (1,1) Frequency (F)	138
Left-sided Pr <= F	0.3167
Right-sided Pr >= F	0.7287
Table Probability (P)	0.0453
Two-sided Pr <= P	0.5982

Sample Size = 1969
Frequency Missing = 69

Frequency Percent Row Pct Col Pct	Table of smoke by sex			
	smoke	sex(1=Male, 0=Female)		
		0	1	Total
		0	1	Total
	0	328 16.17 36.20 30.31	578 28.50 63.80 61.10	906 44.67
	1	754 37.18 67.20 69.69	368 18.15 32.80 38.90	1122 55.33
	Total	1082 53.35	946 46.65	2028 100.00
Frequency Missing = 10				

Statistics for Table of smoke by sex

Statistic	DF	Value	Prob
Chi-Square	1	193.5296	<.0001
Likelihood Ratio Chi-Square	1	196.3076	<.0001
Continuity Adj. Chi-Square	1	192.2861	<.0001
Mantel-Haenszel Chi-Square	1	193.4342	<.0001
Phi Coefficient		-0.3089	
Contingency Coefficient		0.2952	
Cramer's V		-0.3089	

Fisher's Exact Test	
Cell (1,1) Frequency (F)	328
Left-sided Pr <= F	<.0001
Right-sided Pr >= F	1.0000

Fisher's Exact Test	
Table Probability (P)	<.0001
Two-sided Pr <= P	<.0001

Sample Size = 2028
Frequency Missing = 10

Frequency Percent Row Pct Col Pct	Table of high_ed by sex			
	sex(1=Male, 0=Female)			Total
	high_ed	0	1	
	0	542 26.67 62.23 49.77	329 16.19 37.77 34.89	871 42.86
1	547 26.92 47.11 50.23	614 30.22 52.89 65.11		1161 57.14
Total	1089 53.59	943 46.41	2032	100.00
Frequency Missing = 6				

Statistics for Table of high_ed by sex

Statistic	DF	Value	Prob
Chi-Square	1	45.7007	<.0001
Likelihood Ratio Chi-Square	1	45.9899	<.0001
Continuity Adj. Chi-Square	1	45.0950	<.0001
Mantel-Haenszel Chi-Square	1	45.6782	<.0001
Phi Coefficient		0.1500	
Contingency Coefficient		0.1483	
Cramer's V		0.1500	

Fisher's Exact Test	
Cell (1,1) Frequency (F)	542
Left-sided Pr <= F	1.0000
Right-sided Pr >= F	<.0001
Table Probability (P)	<.0001
Two-sided Pr <= P	<.0001

Sample Size = 2032
Frequency Missing = 6

The LIFETEST Procedure

Stratum 1: 1=weak grip strength, 0=not weak = 0

Product-Limit Survival Estimates						
time	Survival	Failure	Survival Standard Error		Number Failed	Number Left
0.00000	1.0000	0	0		0	1698
0.00000	.	.	.		1	1697
0.00000	.	.	.		2	1696
0.00000	.	.	.		3	1695
0.00000	.	.	.		4	1694
0.00000	.	.	.		5	1693
0.00000	.	.	.		6	1692

Product-Limit Survival Estimates						
time	Survival	Failure	Survival Standard Error	Number Failed	Number Left	
0.00000	.	.	.	7	1691	
0.00000	.	.	.	8	1690	
0.00000	.	.	.	9	1689	
0.00000	.	.	.	10	1688	
0.00000	.	.	.	11	1687	
0.00000	.	.	.	12	1686	
0.00000	.	.	.	13	1685	
0.00000	.	.	.	14	1684	
0.00000	.	.	.	15	1683	
0.00000	.	.	.	16	1682	
0.00000	.	.	.	17	1681	
0.00000	.	.	.	18	1680	
0.00000	.	.	.	19	1679	
0.00000	.	.	.	20	1678	
0.00000	.	.	.	21	1677	
0.00000	.	.	.	22	1676	
0.00000	.	.	.	23	1675	
0.00000	.	.	.	24	1674	
0.00000	.	.	.	25	1673	
0.00000	.	.	.	26	1672	
0.00000	.	.	.	27	1671	
0.00000	.	.	.	28	1670	
0.00000	.	.	.	29	1669	
0.00000	.	.	.	30	1668	
0.00000	.	.	.	31	1667	
0.00000	.	.	.	32	1666	
0.00000	.	.	.	33	1665	
0.00000	.	.	.	34	1664	
0.00000	.	.	.	35	1663	
0.00000	.	.	.	36	1662	
0.00000	.	.	.	37	1661	
0.00000	.	.	.	38	1660	
0.00000	.	.	.	39	1659	
0.00000	.	.	.	40	1658	
0.00000	.	.	.	41	1657	
0.00000	0.9753	0.0247	0.00377	42	1656	
1.00000	.	.	.	43	1655	
1.00000	.	.	.	44	1654	
1.00000	.	.	.	45	1653	
1.00000	.	.	.	46	1652	
1.00000	.	.	.	47	1651	
1.00000	.	.	.	48	1650	
1.00000	.	.	.	49	1649	
1.00000	.	.	.	50	1648	
1.00000	.	.	.	51	1647	
1.00000	.	.	.	52	1646	
1.00000	.	.	.	53	1645	
1.00000	.	.	.	54	1644	
1.00000	.	.	.	55	1643	
1.00000	.	.	.	56	1642	
1.00000	.	.	.	57	1641	
1.00000	.	.	.	58	1640	

Product-Limit Survival Estimates						
time		Survival	Failure	Survival Standard Error	Number Failed	Number Left
1.00000		.	.	.	59	1639
1.00000		.	.	.	60	1638
1.00000		.	.	.	61	1637
1.00000		.	.	.	62	1636
1.00000		.	.	.	63	1635
1.00000		.	.	.	64	1634
1.00000		.	.	.	65	1633
1.00000		.	.	.	66	1632
1.00000		.	.	.	67	1631
1.00000		.	.	.	68	1630
1.00000		.	.	.	69	1629
1.00000		.	.	.	70	1628
1.00000		.	.	.	71	1627
1.00000		.	.	.	72	1626
1.00000		.	.	.	73	1625
1.00000		.	.	.	74	1624
1.00000		.	.	.	75	1623
1.00000		.	.	.	76	1622
1.00000		.	.	.	77	1621
1.00000		.	.	.	78	1620
1.00000		.	.	.	79	1619
1.00000		.	.	.	80	1618
1.00000		.	.	.	81	1617
1.00000		.	.	.	82	1616
1.00000		.	.	.	83	1615
1.00000		.	.	.	84	1614
1.00000		.	.	.	85	1613
1.00000		.	.	.	86	1612
1.00000		.	.	.	87	1611
1.00000		.	.	.	88	1610
1.00000		.	.	.	89	1609
1.00000		.	.	.	90	1608
1.00000		.	.	.	91	1607
1.00000		.	.	.	92	1606
1.00000		.	.	.	93	1605
1.00000		.	.	.	94	1604
1.00000		.	.	.	95	1603
1.00000		.	.	.	96	1602
1.00000		.	.	.	97	1601
1.00000		.	.	.	98	1600
1.00000		.	.	.	99	1599
1.00000		.	.	.	100	1598
1.00000		.	.	.	101	1597
1.00000		.	.	.	102	1596
1.00000		.	.	.	103	1595
1.00000		.	.	.	104	1594
1.00000		.	.	.	105	1593
1.00000		.	.	.	106	1592
1.00000		.	.	.	107	1591
1.00000		.	.	.	108	1590
1.00000		.	.	.	109	1589
1.00000		.	.	.	110	1588

Product-Limit Survival Estimates						
time		Survival	Failure	Survival Standard Error	Number Failed	Number Left
1.00000		.	.	.	111	1587
1.00000		.	.	.	112	1586
1.00000		.	.	.	113	1585
1.00000		.	.	.	114	1584
1.00000		.	.	.	115	1583
1.00000		.	.	.	116	1582
1.00000		.	.	.	117	1581
1.00000		.	.	.	118	1580
1.00000		.	.	.	119	1579
1.00000		.	.	.	120	1578
1.00000		.	.	.	121	1577
1.00000		.	.	.	122	1576
1.00000		.	.	.	123	1575
1.00000		.	.	.	124	1574
1.00000		.	.	.	125	1573
1.00000		.	.	.	126	1572
1.00000		.	.	.	127	1571
1.00000		.	.	.	128	1570
1.00000		.	.	.	129	1569
1.00000		.	.	.	130	1568
1.00000		.	.	.	131	1567
1.00000		.	.	.	132	1566
1.00000		.	.	.	133	1565
1.00000		.	.	.	134	1564
1.00000		.	.	.	135	1563
1.00000		.	.	.	136	1562
1.00000		.	.	.	137	1561
1.00000		.	.	.	138	1560
1.00000		.	.	.	139	1559
1.00000		.	.	.	140	1558
1.00000		.	.	.	141	1557
1.00000		.	.	.	142	1556
1.00000		.	.	.	143	1555
1.00000		.	.	.	144	1554
1.00000		.	.	.	145	1553
1.00000		.	.	.	146	1552
1.00000		.	.	.	147	1551
1.00000		.	.	.	148	1550
1.00000		.	.	.	149	1549
1.00000		.	.	.	150	1548
1.00000		.	.	.	151	1547
1.00000		.	.	.	152	1546
1.00000		.	.	.	153	1545
1.00000		.	.	.	154	1544
1.00000		.	.	.	155	1543
1.00000		.	.	.	156	1542
1.00000		.	.	.	157	1541
1.00000	0.9069	0.0931		0.00705	158	1540
1.00000	*	.	.	.	158	1539
1.00000	*	.	.	.	158	1538
1.00000	*	.	.	.	158	1537
2.00000		.	.	.	159	1536

Product-Limit Survival Estimates						
time		Survival	Failure	Survival Standard Error	Number Failed	Number Left
2.00000		.	.	.	160	1535
2.00000		.	.	.	161	1534
2.00000		.	.	.	162	1533
2.00000		.	.	.	163	1532
2.00000		.	.	.	164	1531
2.00000		.	.	.	165	1530
2.00000		.	.	.	166	1529
2.00000		.	.	.	167	1528
2.00000		.	.	.	168	1527
2.00000		.	.	.	169	1526
2.00000		.	.	.	170	1525
2.00000		.	.	.	171	1524
2.00000		.	.	.	172	1523
2.00000		.	.	.	173	1522
2.00000		.	.	.	174	1521
2.00000		.	.	.	175	1520
2.00000		.	.	.	176	1519
2.00000		.	.	.	177	1518
2.00000		.	.	.	178	1517
2.00000		.	.	.	179	1516
2.00000		.	.	.	180	1515
2.00000		.	.	.	181	1514
2.00000		.	.	.	182	1513
2.00000		.	.	.	183	1512
2.00000		.	.	.	184	1511
2.00000		.	.	.	185	1510
2.00000		.	.	.	186	1509
2.00000		.	.	.	187	1508
2.00000		.	.	.	188	1507
2.00000		.	.	.	189	1506
2.00000		.	.	.	190	1505
2.00000		.	.	.	191	1504
2.00000		.	.	.	192	1503
2.00000		.	.	.	193	1502
2.00000		.	.	.	194	1501
2.00000		.	.	.	195	1500
2.00000		.	.	.	196	1499
2.00000		.	.	.	197	1498
2.00000		.	.	.	198	1497
2.00000		.	.	.	199	1496
2.00000		.	.	.	200	1495
2.00000		.	.	.	201	1494
2.00000		.	.	.	202	1493
2.00000		.	.	.	203	1492
2.00000		.	.	.	204	1491
2.00000		.	.	.	205	1490
2.00000		.	.	.	206	1489
2.00000		.	.	.	207	1488
2.00000		.	.	.	208	1487
2.00000		.	.	.	209	1486
2.00000		.	.	.	210	1485
2.00000		.	.	.	211	1484

Product-Limit Survival Estimates						
time		Survival	Failure	Survival Standard Error	Number Failed	Number Left
2.00000		.	.	.	212	1483
2.00000		.	.	.	213	1482
2.00000		.	.	.	214	1481
2.00000		.	.	.	215	1480
2.00000		.	.	.	216	1479
2.00000		.	.	.	217	1478
2.00000		.	.	.	218	1477
2.00000		.	.	.	219	1476
2.00000		.	.	.	220	1475
2.00000		.	.	.	221	1474
2.00000		.	.	.	222	1473
2.00000		.	.	.	223	1472
2.00000		.	.	.	224	1471
2.00000		.	.	.	225	1470
2.00000		.	.	.	226	1469
2.00000		.	.	.	227	1468
2.00000		.	.	.	228	1467
2.00000		.	.	.	229	1466
2.00000		.	.	.	230	1465
2.00000		.	.	.	231	1464
2.00000		.	.	.	232	1463
2.00000		.	.	.	233	1462
2.00000		.	.	.	234	1461
2.00000		.	.	.	235	1460
2.00000		.	.	.	236	1459
2.00000		.	.	.	237	1458
2.00000		.	.	.	238	1457
2.00000		.	.	.	239	1456
2.00000		.	.	.	240	1455
2.00000		.	.	.	241	1454
2.00000		.	.	.	242	1453
2.00000		.	.	.	243	1452
2.00000		.	.	.	244	1451
2.00000		.	.	.	245	1450
2.00000		.	.	.	246	1449
2.00000		.	.	.	247	1448
2.00000		.	.	.	248	1447
2.00000		.	.	.	249	1446
2.00000		.	.	.	250	1445
2.00000		.	.	.	251	1444
2.00000		.	.	.	252	1443
2.00000		.	.	.	253	1442
2.00000		.	.	.	254	1441
2.00000		.	.	.	255	1440
2.00000		.	.	.	256	1439
2.00000		.	.	.	257	1438
2.00000		.	.	.	258	1437
2.00000		.	.	.	259	1436
2.00000		.	.	.	260	1435
2.00000		.	.	.	261	1434
2.00000		.	.	.	262	1433
2.00000		.	.	.	263	1432

Product-Limit Survival Estimates						
time		Survival	Failure	Survival Standard Error	Number Failed	Number Left
2.00000		.	.	.	264	1431
2.00000		.	.	.	265	1430
2.00000		.	.	.	266	1429
2.00000		.	.	.	267	1428
2.00000		.	.	.	268	1427
2.00000		.	.	.	269	1426
2.00000	0.8409	0.1591		0.00888	270	1425
2.00000	*	.	.	.	270	1424
2.00000	*	.	.	.	270	1423
2.00000	*	.	.	.	270	1422
2.00000	*	.	.	.	270	1421
2.00000	*	.	.	.	270	1420
2.00000	*	.	.	.	270	1419
2.00000	*	.	.	.	270	1418
2.00000	*	.	.	.	270	1417
3.00000		.	.	.	271	1416
3.00000		.	.	.	272	1415
3.00000		.	.	.	273	1414
3.00000		.	.	.	274	1413
3.00000		.	.	.	275	1412
3.00000		.	.	.	276	1411
3.00000		.	.	.	277	1410
3.00000		.	.	.	278	1409
3.00000		.	.	.	279	1408
3.00000		.	.	.	280	1407
3.00000		.	.	.	281	1406
3.00000		.	.	.	282	1405
3.00000		.	.	.	283	1404
3.00000		.	.	.	284	1403
3.00000		.	.	.	285	1402
3.00000		.	.	.	286	1401
3.00000		.	.	.	287	1400
3.00000		.	.	.	288	1399
3.00000		.	.	.	289	1398
3.00000		.	.	.	290	1397
3.00000		.	.	.	291	1396
3.00000		.	.	.	292	1395
3.00000		.	.	.	293	1394
3.00000		.	.	.	294	1393
3.00000		.	.	.	295	1392
3.00000		.	.	.	296	1391
3.00000		.	.	.	297	1390
3.00000		.	.	.	298	1389
3.00000		.	.	.	299	1388
3.00000		.	.	.	300	1387
3.00000		.	.	.	301	1386
3.00000		.	.	.	302	1385
3.00000		.	.	.	303	1384
3.00000		.	.	.	304	1383
3.00000		.	.	.	305	1382
3.00000		.	.	.	306	1381
3.00000		.	.	.	307	1380

Product-Limit Survival Estimates						
time		Survival	Failure	Survival Standard Error	Number Failed	Number Left
3.00000		.	.	.	308	1379
3.00000		.	.	.	309	1378
3.00000		.	.	.	310	1377
3.00000		.	.	.	311	1376
3.00000		.	.	.	312	1375
3.00000		.	.	.	313	1374
3.00000		.	.	.	314	1373
3.00000		.	.	.	315	1372
3.00000		.	.	.	316	1371
3.00000		.	.	.	317	1370
3.00000		.	.	.	318	1369
3.00000		.	.	.	319	1368
3.00000		.	.	.	320	1367
3.00000		.	.	.	321	1366
3.00000		.	.	.	322	1365
3.00000		.	.	.	323	1364
3.00000		.	.	.	324	1363
3.00000		.	.	.	325	1362
3.00000		.	.	.	326	1361
3.00000		.	.	.	327	1360
3.00000		.	.	.	328	1359
3.00000		.	.	.	329	1358
3.00000		.	.	.	330	1357
3.00000		.	.	.	331	1356
3.00000		.	.	.	332	1355
3.00000		.	.	.	333	1354
3.00000		.	.	.	334	1353
3.00000		.	.	.	335	1352
3.00000		.	.	.	336	1351
3.00000		.	.	.	337	1350
3.00000		.	.	.	338	1349
3.00000		.	.	.	339	1348
3.00000		.	.	.	340	1347
3.00000		.	.	.	341	1346
3.00000		.	.	.	342	1345
3.00000		.	.	.	343	1344
3.00000		.	.	.	344	1343
3.00000		.	.	.	345	1342
3.00000		.	.	.	346	1341
3.00000		.	.	.	347	1340
3.00000		.	.	.	348	1339
3.00000		.	.	.	349	1338
3.00000		.	.	.	350	1337
3.00000		.	.	.	351	1336
3.00000		.	.	.	352	1335
3.00000		.	.	.	353	1334
3.00000		.	.	.	354	1333
3.00000		.	.	.	355	1332
3.00000		.	.	.	356	1331
3.00000		.	.	.	357	1330
3.00000		.	.	.	358	1329
3.00000		.	.	.	359	1328

Product-Limit Survival Estimates						
time		Survival	Failure	Survival Standard Error	Number Failed	Number Left
3.00000		.	.	.	360	1327
3.00000		.	.	.	361	1326
3.00000		.	.	.	362	1325
3.00000		.	.	.	363	1324
3.00000		.	.	.	364	1323
3.00000		.	.	.	365	1322
3.00000		.	.	.	366	1321
3.00000		.	.	.	367	1320
3.00000		.	.	.	368	1319
3.00000		.	.	.	369	1318
3.00000		.	.	.	370	1317
3.00000		.	.	.	371	1316
3.00000		.	.	.	372	1315
3.00000		.	.	.	373	1314
3.00000		.	.	.	374	1313
3.00000		.	.	.	375	1312
3.00000		.	.	.	376	1311
3.00000		.	.	.	377	1310
3.00000		0.7768	0.2232	0.0101	378	1309
3.00000	*	.	.	.	378	1308
3.00000	*	.	.	.	378	1307
3.00000	*	.	.	.	378	1306
3.00000	*	.	.	.	378	1305
3.00000	*	.	.	.	378	1304
3.00000	*	.	.	.	378	1303
3.00000	*	.	.	.	378	1302
3.00000	*	.	.	.	378	1301
3.00000	*	.	.	.	378	1300
3.00000	*	.	.	.	378	1299
3.00000	*	.	.	.	378	1298
3.00000	*	.	.	.	378	1297
3.00000	*	.	.	.	378	1296
3.00000	*	.	.	.	378	1295
3.00000	*	.	.	.	378	1294
3.00000	*	.	.	.	378	1293
3.00000	*	.	.	.	378	1292
3.00000	*	.	.	.	378	1291
3.00000	*	.	.	.	378	1290
3.00000	*	.	.	.	378	1289
3.00000	*	.	.	.	378	1288
3.00000	*	.	.	.	378	1287
3.00000	*	.	.	.	378	1286
3.00000	*	.	.	.	378	1285
3.00000	*	.	.	.	378	1284
3.00000	*	.	.	.	378	1283
3.00000	*	.	.	.	378	1282
3.00000	*	.	.	.	378	1281
3.00000	*	.	.	.	378	1280
3.00000	*	.	.	.	378	1279
3.00000	*	.	.	.	378	1278
3.00000	*	.	.	.	378	1277
3.00000	*	.	.	.	378	1276

Product-Limit Survival Estimates						
time		Survival	Failure	Survival Standard Error	Number Failed	Number Left
3.00000	*	.	.	.	378	1275
3.00000	*	.	.	.	378	1274
3.00000	*	.	.	.	378	1273
3.00000	*	.	.	.	378	1272
3.00000	*	.	.	.	378	1271
3.00000	*	.	.	.	378	1270
3.00000	*	.	.	.	378	1269
3.00000	*	.	.	.	378	1268
3.00000	*	.	.	.	378	1267
3.00000	*	.	.	.	378	1266
3.00000	*	.	.	.	378	1265
3.00000	*	.	.	.	378	1264
3.00000	*	.	.	.	378	1263
3.00000	*	.	.	.	378	1262
3.00000	*	.	.	.	378	1261
3.00000	*	.	.	.	378	1260
3.00000	*	.	.	.	378	1259
3.00000	*	.	.	.	378	1258
3.00000	*	.	.	.	378	1257
3.00000	*	.	.	.	378	1256
3.00000	*	.	.	.	378	1255
3.00000	*	.	.	.	378	1254
3.00000	*	.	.	.	378	1253
3.00000	*	.	.	.	378	1252
3.00000	*	.	.	.	378	1251
3.00000	*	.	.	.	378	1250
3.00000	*	.	.	.	378	1249
3.00000	*	.	.	.	378	1248
3.00000	*	.	.	.	378	1247
3.00000	*	.	.	.	378	1246
3.00000	*	.	.	.	378	1245
3.00000	*	.	.	.	378	1244
3.00000	*	.	.	.	378	1243
3.00000	*	.	.	.	378	1242
3.00000	*	.	.	.	378	1241
3.00000	*	.	.	.	378	1240
3.00000	*	.	.	.	378	1239
3.00000	*	.	.	.	378	1238
3.00000	*	.	.	.	378	1237
3.00000	*	.	.	.	378	1236
3.00000	*	.	.	.	378	1235
3.00000	*	.	.	.	378	1234
3.00000	*	.	.	.	378	1233
3.00000	*	.	.	.	378	1232
3.00000	*	.	.	.	378	1231
3.00000	*	.	.	.	378	1230
3.00000	*	.	.	.	378	1229
3.00000	*	.	.	.	378	1228
3.00000	*	.	.	.	378	1227
3.00000	*	.	.	.	378	1226
3.00000	*	.	.	.	378	1225
3.00000	*	.	.	.	378	1224

Product-Limit Survival Estimates						
time		Survival	Failure	Survival Standard Error	Number Failed	Number Left
3.00000	*	.	.	.	378	1223
3.00000	*	.	.	.	378	1222
3.00000	*	.	.	.	378	1221
3.00000	*	.	.	.	378	1220
3.00000	*	.	.	.	378	1219
3.00000	*	.	.	.	378	1218
3.00000	*	.	.	.	378	1217
3.00000	*	.	.	.	378	1216
3.00000	*	.	.	.	378	1215
3.00000	*	.	.	.	378	1214
3.00000	*	.	.	.	378	1213
3.00000	*	.	.	.	378	1212
3.00000	*	.	.	.	378	1211
3.00000	*	.	.	.	378	1210
3.00000	*	.	.	.	378	1209
3.00000	*	.	.	.	378	1208
3.00000	*	.	.	.	378	1207
3.00000	*	.	.	.	378	1206
3.00000	*	.	.	.	378	1205
3.00000	*	.	.	.	378	1204
3.00000	*	.	.	.	378	1203
3.00000	*	.	.	.	378	1202
3.00000	*	.	.	.	378	1201
3.00000	*	.	.	.	378	1200
3.00000	*	.	.	.	378	1199
3.00000	*	.	.	.	378	1198
3.00000	*	.	.	.	378	1197
3.00000	*	.	.	.	378	1196
3.00000	*	.	.	.	378	1195
3.00000	*	.	.	.	378	1194
3.00000	*	.	.	.	378	1193
3.00000	*	.	.	.	378	1192
3.00000	*	.	.	.	378	1191
3.00000	*	.	.	.	378	1190
3.00000	*	.	.	.	378	1189
3.00000	*	.	.	.	378	1188
3.00000	*	.	.	.	378	1187
3.00000	*	.	.	.	378	1186
3.00000	*	.	.	.	378	1185
3.00000	*	.	.	.	378	1184
4.00000	379	1183
4.00000	380	1182
4.00000	381	1181
4.00000	382	1180
4.00000	383	1179
4.00000	384	1178
4.00000	385	1177
4.00000	386	1176
4.00000	387	1175
4.00000	388	1174
4.00000	389	1173
4.00000	390	1172

Product-Limit Survival Estimates						
time		Survival	Failure	Survival Standard Error	Number Failed	Number Left
4.00000		.	.	.	391	1171
4.00000		.	.	.	392	1170
4.00000		.	.	.	393	1169
4.00000		.	.	.	394	1168
4.00000		.	.	.	395	1167
4.00000		.	.	.	396	1166
4.00000		.	.	.	397	1165
4.00000		.	.	.	398	1164
4.00000		.	.	.	399	1163
4.00000		.	.	.	400	1162
4.00000		.	.	.	401	1161
4.00000		.	.	.	402	1160
4.00000		.	.	.	403	1159
4.00000		.	.	.	404	1158
4.00000		.	.	.	405	1157
4.00000		.	.	.	406	1156
4.00000		.	.	.	407	1155
4.00000		.	.	.	408	1154
4.00000		.	.	.	409	1153
4.00000		.	.	.	410	1152
4.00000		.	.	.	411	1151
4.00000		.	.	.	412	1150
4.00000		.	.	.	413	1149
4.00000		.	.	.	414	1148
4.00000		.	.	.	415	1147
4.00000		.	.	.	416	1146
4.00000		.	.	.	417	1145
4.00000		.	.	.	418	1144
4.00000		.	.	.	419	1143
4.00000		.	.	.	420	1142
4.00000		.	.	.	421	1141
4.00000		.	.	.	422	1140
4.00000		.	.	.	423	1139
4.00000		.	.	.	424	1138
4.00000		.	.	.	425	1137
4.00000		.	.	.	426	1136
4.00000		.	.	.	427	1135
4.00000		.	.	.	428	1134
4.00000		.	.	.	429	1133
4.00000		.	.	.	430	1132
4.00000		.	.	.	431	1131
4.00000		.	.	.	432	1130
4.00000		.	.	.	433	1129
4.00000		.	.	.	434	1128
4.00000		.	.	.	435	1127
4.00000		.	.	.	436	1126
4.00000		.	.	.	437	1125
4.00000		.	.	.	438	1124
4.00000		.	.	.	439	1123
4.00000		.	.	.	440	1122
4.00000		.	.	.	441	1121
4.00000		.	.	.	442	1120

Product-Limit Survival Estimates						
time		Survival	Failure	Survival Standard Error	Number Failed	Number Left
4.00000		.	.	.	443	1119
4.00000		.	.	.	444	1118
4.00000		.	.	.	445	1117
4.00000		.	.	.	446	1116
4.00000		.	.	.	447	1115
4.00000		.	.	.	448	1114
4.00000		.	.	.	449	1113
4.00000		.	.	.	450	1112
4.00000		.	.	.	451	1111
4.00000		.	.	.	452	1110
4.00000		.	.	.	453	1109
4.00000		.	.	.	454	1108
4.00000		.	.	.	455	1107
4.00000		.	.	.	456	1106
4.00000		.	.	.	457	1105
4.00000		.	.	.	458	1104
4.00000		.	.	.	459	1103
4.00000		.	.	.	460	1102
4.00000		.	.	.	461	1101
4.00000		.	.	.	462	1100
4.00000		.	.	.	463	1099
4.00000	0.7204	0.2796		0.0111	464	1098
4.00000	*	.	.	.	464	1097
4.00000	*	.	.	.	464	1096
4.00000	*	.	.	.	464	1095
4.00000	*	.	.	.	464	1094
4.00000	*	.	.	.	464	1093
4.00000	*	.	.	.	464	1092
4.00000	*	.	.	.	464	1091
4.00000	*	.	.	.	464	1090
4.00000	*	.	.	.	464	1089
4.00000	*	.	.	.	464	1088
4.00000	*	.	.	.	464	1087
4.00000	*	.	.	.	464	1086
4.00000	*	.	.	.	464	1085
4.00000	*	.	.	.	464	1084
4.00000	*	.	.	.	464	1083
4.00000	*	.	.	.	464	1082
4.00000	*	.	.	.	464	1081
4.00000	*	.	.	.	464	1080
4.00000	*	.	.	.	464	1079
4.00000	*	.	.	.	464	1078
4.00000	*	.	.	.	464	1077
4.00000	*	.	.	.	464	1076
4.00000	*	.	.	.	464	1075
4.00000	*	.	.	.	464	1074
4.00000	*	.	.	.	464	1073
4.00000	*	.	.	.	464	1072
4.00000	*	.	.	.	464	1071
4.00000	*	.	.	.	464	1070
4.00000	*	.	.	.	464	1069
4.00000	*	.	.	.	464	1068

Product-Limit Survival Estimates						
time		Survival	Failure	Survival Standard Error	Number Failed	Number Left
4.00000	*	.	.	.	464	1067
4.00000	*	.	.	.	464	1066
4.00000	*	.	.	.	464	1065
4.00000	*	.	.	.	464	1064
4.00000	*	.	.	.	464	1063
4.00000	*	.	.	.	464	1062
4.00000	*	.	.	.	464	1061
4.00000	*	.	.	.	464	1060
4.00000	*	.	.	.	464	1059
4.00000	*	.	.	.	464	1058
4.00000	*	.	.	.	464	1057
4.00000	*	.	.	.	464	1056
4.00000	*	.	.	.	464	1055
4.00000	*	.	.	.	464	1054
4.00000	*	.	.	.	464	1053
4.00000	*	.	.	.	464	1052
4.00000	*	.	.	.	464	1051
4.00000	*	.	.	.	464	1050
4.00000	*	.	.	.	464	1049
4.00000	*	.	.	.	464	1048
4.00000	*	.	.	.	464	1047
4.00000	*	.	.	.	464	1046
4.00000	*	.	.	.	464	1045
4.00000	*	.	.	.	464	1044
4.00000	*	.	.	.	464	1043
4.00000	*	.	.	.	464	1042
4.00000	*	.	.	.	464	1041
4.00000	*	.	.	.	464	1040
4.00000	*	.	.	.	464	1039
4.00000	*	.	.	.	464	1038
4.00000	*	.	.	.	464	1037
4.00000	*	.	.	.	464	1036
4.00000	*	.	.	.	464	1035
4.00000	*	.	.	.	464	1034
4.00000	*	.	.	.	464	1033
4.00000	*	.	.	.	464	1032
4.00000	*	.	.	.	464	1031
4.00000	*	.	.	.	464	1030
4.00000	*	.	.	.	464	1029
4.00000	*	.	.	.	464	1028
4.00000	*	.	.	.	464	1027
4.00000	*	.	.	.	464	1026
4.00000	*	.	.	.	464	1025
4.00000	*	.	.	.	464	1024
4.00000	*	.	.	.	464	1023
4.00000	*	.	.	.	464	1022
4.00000	*	.	.	.	464	1021
4.00000	*	.	.	.	464	1020
4.00000	*	.	.	.	464	1019
4.00000	*	.	.	.	464	1018
4.00000	*	.	.	.	464	1017
4.00000	*	.	.	.	464	1016

Product-Limit Survival Estimates						
time		Survival	Failure	Survival Standard Error	Number Failed	Number Left
4.00000	*	.	.	.	464	1015
4.00000	*	.	.	.	464	1014
4.00000	*	.	.	.	464	1013
4.00000	*	.	.	.	464	1012
4.00000	*	.	.	.	464	1011
4.00000	*	.	.	.	464	1010
4.00000	*	.	.	.	464	1009
4.00000	*	.	.	.	464	1008
4.00000	*	.	.	.	464	1007
4.00000	*	.	.	.	464	1006
4.00000	*	.	.	.	464	1005
4.00000	*	.	.	.	464	1004
4.00000	*	.	.	.	464	1003
4.00000	*	.	.	.	464	1002
4.00000	*	.	.	.	464	1001
4.00000	*	.	.	.	464	1000
4.00000	*	.	.	.	464	999
4.00000	*	.	.	.	464	998
4.00000	*	.	.	.	464	997
4.00000	*	.	.	.	464	996
4.00000	*	.	.	.	464	995
4.00000	*	.	.	.	464	994
4.00000	*	.	.	.	464	993
4.00000	*	.	.	.	464	992
4.00000	*	.	.	.	464	991
4.00000	*	.	.	.	464	990
4.00000	*	.	.	.	464	989
4.00000	*	.	.	.	464	988
4.00000	*	.	.	.	464	987
4.00000	*	.	.	.	464	986
4.00000	*	.	.	.	464	985
4.00000	*	.	.	.	464	984
4.00000	*	.	.	.	464	983
4.00000	*	.	.	.	464	982
4.00000	*	.	.	.	464	981
4.00000	*	.	.	.	464	980
4.00000	*	.	.	.	464	979
4.00000	*	.	.	.	464	978
4.00000	*	.	.	.	464	977
4.00000	*	.	.	.	464	976
4.00000	*	.	.	.	464	975
4.00000	*	.	.	.	464	974
4.00000	*	.	.	.	464	973
4.00000	*	.	.	.	464	972
4.00000	*	.	.	.	464	971
4.00000	*	.	.	.	464	970
4.00000	*	.	.	.	464	969
4.00000	*	.	.	.	464	968
4.00000	*	.	.	.	464	967
4.00000	*	.	.	.	464	966
4.00000	*	.	.	.	464	965
4.00000	*	.	.	.	464	964

Product-Limit Survival Estimates						
time		Survival	Failure	Survival Standard Error	Number Failed	Number Left
4.00000	*	.	.	.	464	963
4.00000	*	.	.	.	464	962
4.00000	*	.	.	.	464	961
4.00000	*	.	.	.	464	960
4.00000	*	.	.	.	464	959
4.00000	*	.	.	.	464	958
4.00000	*	.	.	.	464	957
4.00000	*	.	.	.	464	956
4.00000	*	.	.	.	464	955
4.00000	*	.	.	.	464	954
4.00000	*	.	.	.	464	953
4.00000	*	.	.	.	464	952
4.00000	*	.	.	.	464	951
4.00000	*	.	.	.	464	950
4.00000	*	.	.	.	464	949
4.00000	*	.	.	.	464	948
4.00000	*	.	.	.	464	947
4.00000	*	.	.	.	464	946
4.00000	*	.	.	.	464	945
4.00000	*	.	.	.	464	944
4.00000	*	.	.	.	464	943
4.00000	*	.	.	.	464	942
4.00000	*	.	.	.	464	941
4.00000	*	.	.	.	464	940
4.00000	*	.	.	.	464	939
4.00000	*	.	.	.	464	938
4.00000	*	.	.	.	464	937
4.00000	*	.	.	.	464	936
4.00000	*	.	.	.	464	935
4.00000	*	.	.	.	464	934
4.00000	*	.	.	.	464	933
4.00000	*	.	.	.	464	932
4.00000	*	.	.	.	464	931
4.00000	*	.	.	.	464	930
4.00000	*	.	.	.	464	929
4.00000	*	.	.	.	464	928
4.00000	*	.	.	.	464	927
4.00000	*	.	.	.	464	926
4.00000	*	.	.	.	464	925
4.00000	*	.	.	.	464	924
4.00000	*	.	.	.	464	923
4.00000	*	.	.	.	464	922
4.00000	*	.	.	.	464	921
4.00000	*	.	.	.	464	920
4.00000	*	.	.	.	464	919
4.00000	*	.	.	.	464	918
4.00000	*	.	.	.	464	917
4.00000	*	.	.	.	464	916
4.00000	*	.	.	.	464	915
4.00000	*	.	.	.	464	914
4.00000	*	.	.	.	464	913
4.00000	*	.	.	.	464	912

Product-Limit Survival Estimates						
time		Survival	Failure	Survival Standard Error	Number Failed	Number Left
4.00000	*	.	.	.	464	911
4.00000	*	.	.	.	464	910
4.00000	*	.	.	.	464	909
4.00000	*	.	.	.	464	908
4.00000	*	.	.	.	464	907
4.00000	*	.	.	.	464	906
4.00000	*	.	.	.	464	905
4.00000	*	.	.	.	464	904
4.00000	*	.	.	.	464	903
4.00000	*	.	.	.	464	902
4.00000	*	.	.	.	464	901
4.00000	*	.	.	.	464	900
4.00000	*	.	.	.	464	899
4.00000	*	.	.	.	464	898
4.00000	*	.	.	.	464	897
4.00000	*	.	.	.	464	896
4.00000	*	.	.	.	464	895
4.00000	*	.	.	.	464	894
4.00000	*	.	.	.	464	893
4.00000	*	.	.	.	464	892
4.00000	*	.	.	.	464	891
4.00000	*	.	.	.	464	890
4.00000	*	.	.	.	464	889
4.00000	*	.	.	.	464	888
4.00000	*	.	.	.	464	887
4.00000	*	.	.	.	464	886
4.00000	*	.	.	.	464	885
4.00000	*	.	.	.	464	884
4.00000	*	.	.	.	464	883
4.00000	*	.	.	.	464	882
4.00000	*	.	.	.	464	881
4.00000	*	.	.	.	464	880
4.00000	*	.	.	.	464	879
4.00000	*	.	.	.	464	878
4.00000	*	.	.	.	464	877
4.00000	*	.	.	.	464	876
4.00000	*	.	.	.	464	875
4.00000	*	.	.	.	464	874
4.00000	*	.	.	.	464	873
4.00000	*	.	.	.	464	872
4.00000	*	.	.	.	464	871
4.00000	*	.	.	.	464	870
4.00000	*	.	.	.	464	869
4.00000	*	.	.	.	464	868
4.00000	*	.	.	.	464	867
4.00000	*	.	.	.	464	866
4.00000	*	.	.	.	464	865
4.00000	*	.	.	.	464	864
4.00000	*	.	.	.	464	863
4.00000	*	.	.	.	464	862
4.00000	*	.	.	.	464	861
4.00000	*	.	.	.	464	860

Product-Limit Survival Estimates						
time		Survival	Failure	Survival Standard Error	Number Failed	Number Left
4.00000	*	.	.	.	464	859
4.00000	*	.	.	.	464	858
4.00000	*	.	.	.	464	857
4.00000	*	.	.	.	464	856
4.00000	*	.	.	.	464	855
4.00000	*	.	.	.	464	854
4.00000	*	.	.	.	464	853
4.00000	*	.	.	.	464	852
4.00000	*	.	.	.	464	851
4.00000	*	.	.	.	464	850
4.00000	*	.	.	.	464	849
4.00000	*	.	.	.	464	848
4.00000	*	.	.	.	464	847
4.00000	*	.	.	.	464	846
4.00000	*	.	.	.	464	845
4.00000	*	.	.	.	464	844
4.00000	*	.	.	.	464	843
4.00000	*	.	.	.	464	842
4.00000	*	.	.	.	464	841
4.00000	*	.	.	.	464	840
4.00000	*	.	.	.	464	839
4.00000	*	.	.	.	464	838
4.00000	*	.	.	.	464	837
4.00000	*	.	.	.	464	836
4.00000	*	.	.	.	464	835
4.00000	*	.	.	.	464	834
4.00000	*	.	.	.	464	833
4.00000	*	.	.	.	464	832
4.00000	*	.	.	.	464	831
4.00000	*	.	.	.	464	830
4.00000	*	.	.	.	464	829
4.00000	*	.	.	.	464	828
4.00000	*	.	.	.	464	827
4.00000	*	.	.	.	464	826
4.00000	*	.	.	.	464	825
4.00000	*	.	.	.	464	824
4.00000	*	.	.	.	464	823
4.00000	*	.	.	.	464	822
4.00000	*	.	.	.	464	821
4.00000	*	.	.	.	464	820
4.00000	*	.	.	.	464	819
4.00000	*	.	.	.	464	818
4.00000	*	.	.	.	464	817
4.00000	*	.	.	.	464	816
4.00000	*	.	.	.	464	815
4.00000	*	.	.	.	464	814
4.00000	*	.	.	.	464	813
4.00000	*	.	.	.	464	812
4.00000	*	.	.	.	464	811
4.00000	*	.	.	.	464	810
4.00000	*	.	.	.	464	809
4.00000	*	.	.	.	464	808

Product-Limit Survival Estimates						
time		Survival	Failure	Survival Standard Error	Number Failed	Number Left
4.00000	*	.	.	.	464	807
4.00000	*	.	.	.	464	806
4.00000	*	.	.	.	464	805
4.00000	*	.	.	.	464	804
4.00000	*	.	.	.	464	803
4.00000	*	.	.	.	464	802
4.00000	*	.	.	.	464	801
4.00000	*	.	.	.	464	800
4.00000	*	.	.	.	464	799
4.00000	*	.	.	.	464	798
4.00000	*	.	.	.	464	797
4.00000	*	.	.	.	464	796
4.00000	*	.	.	.	464	795
4.00000	*	.	.	.	464	794
4.00000	*	.	.	.	464	793
4.00000	*	.	.	.	464	792
4.00000	*	.	.	.	464	791
4.00000	*	.	.	.	464	790
4.00000	*	.	.	.	464	789
4.00000	*	.	.	.	464	788
4.00000	*	.	.	.	464	787
4.00000	*	.	.	.	464	786
4.00000	*	.	.	.	464	785
4.00000	*	.	.	.	464	784
4.00000	*	.	.	.	464	783
4.00000	*	.	.	.	464	782
4.00000	*	.	.	.	464	781
4.00000	*	.	.	.	464	780
4.00000	*	.	.	.	464	779
4.00000	*	.	.	.	464	778
4.00000	*	.	.	.	464	777
4.00000	*	.	.	.	464	776
4.00000	*	.	.	.	464	775
4.00000	*	.	.	.	464	774
4.00000	*	.	.	.	464	773
4.00000	*	.	.	.	464	772
4.00000	*	.	.	.	464	771
4.00000	*	.	.	.	464	770
4.00000	*	.	.	.	464	769
4.00000	*	.	.	.	464	768
4.00000	*	.	.	.	464	767
4.00000	*	.	.	.	464	766
4.00000	*	.	.	.	464	765
4.00000	*	.	.	.	464	764
4.00000	*	.	.	.	464	763
4.00000	*	.	.	.	464	762
4.00000	*	.	.	.	464	761
4.00000	*	.	.	.	464	760
4.00000	*	.	.	.	464	759
4.00000	*	.	.	.	464	758
4.00000	*	.	.	.	464	757
4.00000	*	.	.	.	464	756

Product-Limit Survival Estimates						
time		Survival	Failure	Survival Standard Error	Number Failed	Number Left
4.00000	*	.	.	.	464	755
4.00000	*	.	.	.	464	754
4.00000	*	.	.	.	464	753
4.00000	*	.	.	.	464	752
4.00000	*	.	.	.	464	751
4.00000	*	.	.	.	464	750
4.00000	*	.	.	.	464	749
4.00000	*	.	.	.	464	748
4.00000	*	.	.	.	464	747
4.00000	*	.	.	.	464	746
4.00000	*	.	.	.	464	745
4.00000	*	.	.	.	464	744
4.00000	*	.	.	.	464	743
4.00000	*	.	.	.	464	742
4.00000	*	.	.	.	464	741
4.00000	*	.	.	.	464	740
4.00000	*	.	.	.	464	739
4.00000	*	.	.	.	464	738
4.00000	*	.	.	.	464	737
4.00000	*	.	.	.	464	736
4.00000	*	.	.	.	464	735
4.00000	*	.	.	.	464	734
4.00000	*	.	.	.	464	733
4.00000	*	.	.	.	464	732
4.00000	*	.	.	.	464	731
4.00000	*	.	.	.	464	730
4.00000	*	.	.	.	464	729
4.00000	*	.	.	.	464	728
4.00000	*	.	.	.	464	727
4.00000	*	.	.	.	464	726
4.00000	*	.	.	.	464	725
4.00000	*	.	.	.	464	724
4.00000	*	.	.	.	464	723
4.00000	*	.	.	.	464	722
4.00000	*	.	.	.	464	721
4.00000	*	.	.	.	464	720
4.00000	*	.	.	.	464	719
4.00000	*	.	.	.	464	718
4.00000	*	.	.	.	464	717
4.00000	*	.	.	.	464	716
4.00000	*	.	.	.	464	715
4.00000	*	.	.	.	464	714
4.00000	*	.	.	.	464	713
4.00000	*	.	.	.	464	712
4.00000	*	.	.	.	464	711
4.00000	*	.	.	.	464	710
4.00000	*	.	.	.	464	709
4.00000	*	.	.	.	464	708
4.00000	*	.	.	.	464	707
4.00000	*	.	.	.	464	706
4.00000	*	.	.	.	464	705
4.00000	*	.	.	.	464	704

Product-Limit Survival Estimates						
time		Survival	Failure	Survival Standard Error	Number Failed	Number Left
4.00000	*	.	.	.	464	703
4.00000	*	.	.	.	464	702
4.00000	*	.	.	.	464	701
4.00000	*	.	.	.	464	700
4.00000	*	.	.	.	464	699
4.00000	*	.	.	.	464	698
4.00000	*	.	.	.	464	697
4.00000	*	.	.	.	464	696
4.00000	*	.	.	.	464	695
4.00000	*	.	.	.	464	694
4.00000	*	.	.	.	464	693
4.00000	*	.	.	.	464	692
4.00000	*	.	.	.	464	691
4.00000	*	.	.	.	464	690
4.00000	*	.	.	.	464	689
4.00000	*	.	.	.	464	688
4.00000	*	.	.	.	464	687
4.00000	*	.	.	.	464	686
4.00000	*	.	.	.	464	685
4.00000	*	.	.	.	464	684
4.00000	*	.	.	.	464	683
4.00000	*	.	.	.	464	682
4.00000	*	.	.	.	464	681
4.00000	*	.	.	.	464	680
4.00000	*	.	.	.	464	679
4.00000	*	.	.	.	464	678
4.00000	*	.	.	.	464	677
4.00000	*	.	.	.	464	676
4.00000	*	.	.	.	464	675
4.00000	*	.	.	.	464	674
4.00000	*	.	.	.	464	673
4.00000	*	.	.	.	464	672
4.00000	*	.	.	.	464	671
4.00000	*	.	.	.	464	670
4.00000	*	.	.	.	464	669
4.00000	*	.	.	.	464	668
4.00000	*	.	.	.	464	667
4.00000	*	.	.	.	464	666
4.00000	*	.	.	.	464	665
4.00000	*	.	.	.	464	664
4.00000	*	.	.	.	464	663
4.00000	*	.	.	.	464	662
4.00000	*	.	.	.	464	661
4.00000	*	.	.	.	464	660
4.00000	*	.	.	.	464	659
4.00000	*	.	.	.	464	658
4.00000	*	.	.	.	464	657
4.00000	*	.	.	.	464	656
4.00000	*	.	.	.	464	655
4.00000	*	.	.	.	464	654
4.00000	*	.	.	.	464	653
4.00000	*	.	.	.	464	652

Product-Limit Survival Estimates						
time		Survival	Failure	Survival Standard Error	Number Failed	Number Left
4.00000	*	.	.	.	464	651
4.00000	*	.	.	.	464	650
4.00000	*	.	.	.	464	649
4.00000	*	.	.	.	464	648
4.00000	*	.	.	.	464	647
4.00000	*	.	.	.	464	646
4.00000	*	.	.	.	464	645
4.00000	*	.	.	.	464	644
4.00000	*	.	.	.	464	643
4.00000	*	.	.	.	464	642
4.00000	*	.	.	.	464	641
4.00000	*	.	.	.	464	640
4.00000	*	.	.	.	464	639
4.00000	*	.	.	.	464	638
4.00000	*	.	.	.	464	637
4.00000	*	.	.	.	464	636
4.00000	*	.	.	.	464	635
4.00000	*	.	.	.	464	634
4.00000	*	.	.	.	464	633
4.00000	*	.	.	.	464	632
4.00000	*	.	.	.	464	631
4.00000	*	.	.	.	464	630
4.00000	*	.	.	.	464	629
4.00000	*	.	.	.	464	628
4.00000	*	.	.	.	464	627
4.00000	*	.	.	.	464	626
4.00000	*	.	.	.	464	625
4.00000	*	.	.	.	464	624
4.00000	*	.	.	.	464	623
4.00000	*	.	.	.	464	622
4.00000	*	.	.	.	464	621
4.00000	*	.	.	.	464	620
4.00000	*	.	.	.	464	619
4.00000	*	.	.	.	464	618
4.00000	*	.	.	.	464	617
4.00000	*	.	.	.	464	616
4.00000	*	.	.	.	464	615
4.00000	*	.	.	.	464	614
4.00000	*	.	.	.	464	613
4.00000	*	.	.	.	464	612
4.00000	*	.	.	.	464	611
4.00000	*	.	.	.	464	610
4.00000	*	.	.	.	464	609
4.00000	*	.	.	.	464	608
4.00000	*	.	.	.	464	607
4.00000	*	.	.	.	464	606
4.00000	*	.	.	.	464	605
4.00000	*	.	.	.	464	604
4.00000	*	.	.	.	464	603
4.00000	*	.	.	.	464	602
4.00000	*	.	.	.	464	601
4.00000	*	.	.	.	464	600

Product-Limit Survival Estimates						
time		Survival	Failure	Survival Standard Error	Number Failed	Number Left
4.00000	*	.	.	.	464	599
4.00000	*	.	.	.	464	598
4.00000	*	.	.	.	464	597
4.00000	*	.	.	.	464	596
4.00000	*	.	.	.	464	595
4.00000	*	.	.	.	464	594
4.00000	*	.	.	.	464	593
4.00000	*	.	.	.	464	592
4.00000	*	.	.	.	464	591
4.00000	*	.	.	.	464	590
4.00000	*	.	.	.	464	589
4.00000	*	.	.	.	464	588
4.00000	*	.	.	.	464	587
4.00000	*	.	.	.	464	586
4.00000	*	.	.	.	464	585
4.00000	*	.	.	.	464	584
4.00000	*	.	.	.	464	583
4.00000	*	.	.	.	464	582
4.00000	*	.	.	.	464	581
4.00000	*	.	.	.	464	580
4.00000	*	.	.	.	464	579
4.00000	*	.	.	.	464	578
4.00000	*	.	.	.	464	577
4.00000	*	.	.	.	464	576
4.00000	*	.	.	.	464	575
4.00000	*	.	.	.	464	574
4.00000	*	.	.	.	464	573
4.00000	*	.	.	.	464	572
4.00000	*	.	.	.	464	571
4.00000	*	.	.	.	464	570
4.00000	*	.	.	.	464	569
4.00000	*	.	.	.	464	568
4.00000	*	.	.	.	464	567
4.00000	*	.	.	.	464	566
4.00000	*	.	.	.	464	565
4.00000	*	.	.	.	464	564
4.00000	*	.	.	.	464	563
4.00000	*	.	.	.	464	562
4.00000	*	.	.	.	464	561
4.00000	*	.	.	.	464	560
4.00000	*	.	.	.	464	559
4.00000	*	.	.	.	464	558
4.00000	*	.	.	.	464	557
4.00000	*	.	.	.	464	556
5.00000	465	555
5.00000	466	554
5.00000	467	553
5.00000	468	552
5.00000	469	551
5.00000	470	550
5.00000	471	549
5.00000	472	548

Product-Limit Survival Estimates						
time		Survival	Failure	Survival Standard Error	Number Failed	Number Left
5.00000		.	.	.	473	547
5.00000		.	.	.	474	546
5.00000		.	.	.	475	545
5.00000		.	.	.	476	544
5.00000		.	.	.	477	543
5.00000		.	.	.	478	542
5.00000		.	.	.	479	541
5.00000		.	.	.	480	540
5.00000		.	.	.	481	539
5.00000		.	.	.	482	538
5.00000		.	.	.	483	537
5.00000		.	.	.	484	536
5.00000		.	.	.	485	535
5.00000		.	.	.	486	534
5.00000		.	.	.	487	533
5.00000		.	.	.	488	532
5.00000		.	.	.	489	531
5.00000		.	.	.	490	530
5.00000		.	.	.	491	529
5.00000		.	.	.	492	528
5.00000		.	.	.	493	527
5.00000		.	.	.	494	526
5.00000		.	.	.	495	525
5.00000		.	.	.	496	524
5.00000		.	.	.	497	523
5.00000		.	.	.	498	522
5.00000		.	.	.	499	521
5.00000		.	.	.	500	520
5.00000		.	.	.	501	519
5.00000		.	.	.	502	518
5.00000		.	.	.	503	517
5.00000		.	.	.	504	516
5.00000		.	.	.	505	515
5.00000	0.6659	0.3341		0.0130	506	514
5.00000	*	.	.	.	506	513
5.00000	*	.	.	.	506	512
5.00000	*	.	.	.	506	511
5.00000	*	.	.	.	506	510
5.00000	*	.	.	.	506	509
5.00000	*	.	.	.	506	508
5.00000	*	.	.	.	506	507
5.00000	*	.	.	.	506	506
5.00000	*	.	.	.	506	505
5.00000	*	.	.	.	506	504
5.00000	*	.	.	.	506	503
5.00000	*	.	.	.	506	502
5.00000	*	.	.	.	506	501
5.00000	*	.	.	.	506	500
5.00000	*	.	.	.	506	499
5.00000	*	.	.	.	506	498
5.00000	*	.	.	.	506	497
5.00000	*	.	.	.	506	496

Product-Limit Survival Estimates						
time		Survival	Failure	Survival Standard Error	Number Failed	Number Left
5.00000	*	.	.	.	506	495
5.00000	*	.	.	.	506	494
5.00000	*	.	.	.	506	493
5.00000	*	.	.	.	506	492
5.00000	*	.	.	.	506	491
5.00000	*	.	.	.	506	490
5.00000	*	.	.	.	506	489
5.00000	*	.	.	.	506	488
5.00000	*	.	.	.	506	487
5.00000	*	.	.	.	506	486
5.00000	*	.	.	.	506	485
5.00000	*	.	.	.	506	484
5.00000	*	.	.	.	506	483
5.00000	*	.	.	.	506	482
5.00000	*	.	.	.	506	481
5.00000	*	.	.	.	506	480
5.00000	*	.	.	.	506	479
5.00000	*	.	.	.	506	478
5.00000	*	.	.	.	506	477
5.00000	*	.	.	.	506	476
5.00000	*	.	.	.	506	475
5.00000	*	.	.	.	506	474
5.00000	*	.	.	.	506	473
5.00000	*	.	.	.	506	472
5.00000	*	.	.	.	506	471
5.00000	*	.	.	.	506	470
5.00000	*	.	.	.	506	469
5.00000	*	.	.	.	506	468
5.00000	*	.	.	.	506	467
5.00000	*	.	.	.	506	466
5.00000	*	.	.	.	506	465
5.00000	*	.	.	.	506	464
5.00000	*	.	.	.	506	463
5.00000	*	.	.	.	506	462
5.00000	*	.	.	.	506	461
5.00000	*	.	.	.	506	460
5.00000	*	.	.	.	506	459
5.00000	*	.	.	.	506	458
5.00000	*	.	.	.	506	457
5.00000	*	.	.	.	506	456
5.00000	*	.	.	.	506	455
5.00000	*	.	.	.	506	454
5.00000	*	.	.	.	506	453
5.00000	*	.	.	.	506	452
5.00000	*	.	.	.	506	451
5.00000	*	.	.	.	506	450
5.00000	*	.	.	.	506	449
5.00000	*	.	.	.	506	448
5.00000	*	.	.	.	506	447
5.00000	*	.	.	.	506	446
5.00000	*	.	.	.	506	445
5.00000	*	.	.	.	506	444

Product-Limit Survival Estimates						
time		Survival	Failure	Survival Standard Error	Number Failed	Number Left
5.00000	*	.	.	.	506	443
5.00000	*	.	.	.	506	442
5.00000	*	.	.	.	506	441
5.00000	*	.	.	.	506	440
5.00000	*	.	.	.	506	439
5.00000	*	.	.	.	506	438
5.00000	*	.	.	.	506	437
5.00000	*	.	.	.	506	436
5.00000	*	.	.	.	506	435
5.00000	*	.	.	.	506	434
5.00000	*	.	.	.	506	433
5.00000	*	.	.	.	506	432
5.00000	*	.	.	.	506	431
5.00000	*	.	.	.	506	430
5.00000	*	.	.	.	506	429
5.00000	*	.	.	.	506	428
5.00000	*	.	.	.	506	427
5.00000	*	.	.	.	506	426
5.00000	*	.	.	.	506	425
5.00000	*	.	.	.	506	424
5.00000	*	.	.	.	506	423
5.00000	*	.	.	.	506	422
5.00000	*	.	.	.	506	421
5.00000	*	.	.	.	506	420
5.00000	*	.	.	.	506	419
5.00000	*	.	.	.	506	418
5.00000	*	.	.	.	506	417
5.00000	*	.	.	.	506	416
5.00000	*	.	.	.	506	415
5.00000	*	.	.	.	506	414
5.00000	*	.	.	.	506	413
5.00000	*	.	.	.	506	412
5.00000	*	.	.	.	506	411
5.00000	*	.	.	.	506	410
5.00000	*	.	.	.	506	409
5.00000	*	.	.	.	506	408
5.00000	*	.	.	.	506	407
5.00000	*	.	.	.	506	406
5.00000	*	.	.	.	506	405
5.00000	*	.	.	.	506	404
5.00000	*	.	.	.	506	403
5.00000	*	.	.	.	506	402
5.00000	*	.	.	.	506	401
5.00000	*	.	.	.	506	400
5.00000	*	.	.	.	506	399
5.00000	*	.	.	.	506	398
5.00000	*	.	.	.	506	397
5.00000	*	.	.	.	506	396
5.00000	*	.	.	.	506	395
5.00000	*	.	.	.	506	394
5.00000	*	.	.	.	506	393
5.00000	*	.	.	.	506	392

Product-Limit Survival Estimates						
time		Survival	Failure	Survival Standard Error	Number Failed	Number Left
5.00000	*	.	.	.	506	391
5.00000	*	.	.	.	506	390
5.00000	*	.	.	.	506	389
5.00000	*	.	.	.	506	388
5.00000	*	.	.	.	506	387
5.00000	*	.	.	.	506	386
5.00000	*	.	.	.	506	385
5.00000	*	.	.	.	506	384
5.00000	*	.	.	.	506	383
5.00000	*	.	.	.	506	382
5.00000	*	.	.	.	506	381
5.00000	*	.	.	.	506	380
5.00000	*	.	.	.	506	379
5.00000	*	.	.	.	506	378
5.00000	*	.	.	.	506	377
5.00000	*	.	.	.	506	376
5.00000	*	.	.	.	506	375
5.00000	*	.	.	.	506	374
5.00000	*	.	.	.	506	373
5.00000	*	.	.	.	506	372
5.00000	*	.	.	.	506	371
5.00000	*	.	.	.	506	370
5.00000	*	.	.	.	506	369
5.00000	*	.	.	.	506	368
5.00000	*	.	.	.	506	367
5.00000	*	.	.	.	506	366
5.00000	*	.	.	.	506	365
5.00000	*	.	.	.	506	364
5.00000	*	.	.	.	506	363
5.00000	*	.	.	.	506	362
5.00000	*	.	.	.	506	361
5.00000	*	.	.	.	506	360
5.00000	*	.	.	.	506	359
5.00000	*	.	.	.	506	358
5.00000	*	.	.	.	506	357
5.00000	*	.	.	.	506	356
5.00000	*	.	.	.	506	355
5.00000	*	.	.	.	506	354
5.00000	*	.	.	.	506	353
5.00000	*	.	.	.	506	352
5.00000	*	.	.	.	506	351
5.00000	*	.	.	.	506	350
5.00000	*	.	.	.	506	349
5.00000	*	.	.	.	506	348
5.00000	*	.	.	.	506	347
5.00000	*	.	.	.	506	346
5.00000	*	.	.	.	506	345
5.00000	*	.	.	.	506	344
5.00000	*	.	.	.	506	343
5.00000	*	.	.	.	506	342
5.00000	*	.	.	.	506	341
5.00000	*	.	.	.	506	340

Product-Limit Survival Estimates						
time		Survival	Failure	Survival Standard Error	Number Failed	Number Left
5.00000	*	.	.	.	506	339
5.00000	*	.	.	.	506	338
5.00000	*	.	.	.	506	337
5.00000	*	.	.	.	506	336
5.00000	*	.	.	.	506	335
5.00000	*	.	.	.	506	334
5.00000	*	.	.	.	506	333
5.00000	*	.	.	.	506	332
5.00000	*	.	.	.	506	331
5.00000	*	.	.	.	506	330
5.00000	*	.	.	.	506	329
5.00000	*	.	.	.	506	328
5.00000	*	.	.	.	506	327
5.00000	*	.	.	.	506	326
5.00000	*	.	.	.	506	325
5.00000	*	.	.	.	506	324
5.00000	*	.	.	.	506	323
5.00000	*	.	.	.	506	322
5.00000	*	.	.	.	506	321
5.00000	*	.	.	.	506	320
5.00000	*	.	.	.	506	319
5.00000	*	.	.	.	506	318
5.00000	*	.	.	.	506	317
5.00000	*	.	.	.	506	316
5.00000	*	.	.	.	506	315
5.00000	*	.	.	.	506	314
5.00000	*	.	.	.	506	313
5.00000	*	.	.	.	506	312
5.00000	*	.	.	.	506	311
5.00000	*	.	.	.	506	310
5.00000	*	.	.	.	506	309
5.00000	*	.	.	.	506	308
5.00000	*	.	.	.	506	307
5.00000	*	.	.	.	506	306
5.00000	*	.	.	.	506	305
5.00000	*	.	.	.	506	304
5.00000	*	.	.	.	506	303
5.00000	*	.	.	.	506	302
5.00000	*	.	.	.	506	301
5.00000	*	.	.	.	506	300
5.00000	*	.	.	.	506	299
5.00000	*	.	.	.	506	298
5.00000	*	.	.	.	506	297
5.00000	*	.	.	.	506	296
5.00000	*	.	.	.	506	295
5.00000	*	.	.	.	506	294
5.00000	*	.	.	.	506	293
5.00000	*	.	.	.	506	292
5.00000	*	.	.	.	506	291
5.00000	*	.	.	.	506	290
5.00000	*	.	.	.	506	289
5.00000	*	.	.	.	506	288

Product-Limit Survival Estimates						
time		Survival	Failure	Survival Standard Error	Number Failed	Number Left
5.00000	*	.	.	.	506	287
5.00000	*	.	.	.	506	286
5.00000	*	.	.	.	506	285
5.00000	*	.	.	.	506	284
5.00000	*	.	.	.	506	283
5.00000	*	.	.	.	506	282
5.00000	*	.	.	.	506	281
5.00000	*	.	.	.	506	280
5.00000	*	.	.	.	506	279
5.00000	*	.	.	.	506	278
5.00000	*	.	.	.	506	277
5.00000	*	.	.	.	506	276
5.00000	*	.	.	.	506	275
5.00000	*	.	.	.	506	274
5.00000	*	.	.	.	506	273
5.00000	*	.	.	.	506	272
5.00000	*	.	.	.	506	271
5.00000	*	.	.	.	506	270
5.00000	*	.	.	.	506	269
5.00000	*	.	.	.	506	268
5.00000	*	.	.	.	506	267
5.00000	*	.	.	.	506	266
5.00000	*	.	.	.	506	265
5.00000	*	.	.	.	506	264
5.00000	*	.	.	.	506	263
5.00000	*	.	.	.	506	262
5.00000	*	.	.	.	506	261
5.00000	*	.	.	.	506	260
5.00000	*	.	.	.	506	259
5.00000	*	.	.	.	506	258
5.00000	*	.	.	.	506	257
5.00000	*	.	.	.	506	256
5.00000	*	.	.	.	506	255
5.00000	*	.	.	.	506	254
5.00000	*	.	.	.	506	253
5.00000	*	.	.	.	506	252
5.00000	*	.	.	.	506	251
5.00000	*	.	.	.	506	250
5.00000	*	.	.	.	506	249
5.00000	*	.	.	.	506	248
5.00000	*	.	.	.	506	247
5.00000	*	.	.	.	506	246
5.00000	*	.	.	.	506	245
5.00000	*	.	.	.	506	244
5.00000	*	.	.	.	506	243
5.00000	*	.	.	.	506	242
5.00000	*	.	.	.	506	241
5.00000	*	.	.	.	506	240
5.00000	*	.	.	.	506	239
5.00000	*	.	.	.	506	238
5.00000	*	.	.	.	506	237
5.00000	*	.	.	.	506	236

Product-Limit Survival Estimates						
time		Survival	Failure	Survival Standard Error	Number Failed	Number Left
5.00000	*	.	.	.	506	235
5.00000	*	.	.	.	506	234
5.00000	*	.	.	.	506	233
5.00000	*	.	.	.	506	232
5.00000	*	.	.	.	506	231
5.00000	*	.	.	.	506	230
5.00000	*	.	.	.	506	229
5.00000	*	.	.	.	506	228
5.00000	*	.	.	.	506	227
5.00000	*	.	.	.	506	226
5.00000	*	.	.	.	506	225
5.00000	*	.	.	.	506	224
5.00000	*	.	.	.	506	223
5.00000	*	.	.	.	506	222
5.00000	*	.	.	.	506	221
5.00000	*	.	.	.	506	220
5.00000	*	.	.	.	506	219
5.00000	*	.	.	.	506	218
5.00000	*	.	.	.	506	217
5.00000	*	.	.	.	506	216
5.00000	*	.	.	.	506	215
5.00000	*	.	.	.	506	214
5.00000	*	.	.	.	506	213
5.00000	*	.	.	.	506	212
5.00000	*	.	.	.	506	211
5.00000	*	.	.	.	506	210
5.00000	*	.	.	.	506	209
5.00000	*	.	.	.	506	208
5.00000	*	.	.	.	506	207
5.00000	*	.	.	.	506	206
5.00000	*	.	.	.	506	205
5.00000	*	.	.	.	506	204
5.00000	*	.	.	.	506	203
5.00000	*	.	.	.	506	202
5.00000	*	.	.	.	506	201
5.00000	*	.	.	.	506	200
5.00000	*	.	.	.	506	199
5.00000	*	.	.	.	506	198
5.00000	*	.	.	.	506	197
5.00000	*	.	.	.	506	196
5.00000	*	.	.	.	506	195
5.00000	*	.	.	.	506	194
5.00000	*	.	.	.	506	193
5.00000	*	.	.	.	506	192
5.00000	*	.	.	.	506	191
5.00000	*	.	.	.	506	190
5.00000	*	.	.	.	506	189
5.00000	*	.	.	.	506	188
5.00000	*	.	.	.	506	187
5.00000	*	.	.	.	506	186
5.00000	*	.	.	.	506	185
5.00000	*	.	.	.	506	184

Product-Limit Survival Estimates						
time		Survival	Failure	Survival Standard Error	Number Failed	Number Left
5.00000	*	.	.	.	506	183
5.00000	*	.	.	.	506	182
5.00000	*	.	.	.	506	181
5.00000	*	.	.	.	506	180
5.00000	*	.	.	.	506	179
5.00000	*	.	.	.	506	178
5.00000	*	.	.	.	506	177
5.00000	*	.	.	.	506	176
5.00000	*	.	.	.	506	175
5.00000	*	.	.	.	506	174
5.00000	*	.	.	.	506	173
5.00000	*	.	.	.	506	172
5.00000	*	.	.	.	506	171
5.00000	*	.	.	.	506	170
5.00000	*	.	.	.	506	169
5.00000	*	.	.	.	506	168
5.00000	*	.	.	.	506	167
5.00000	*	.	.	.	506	166
5.00000	*	.	.	.	506	165
5.00000	*	.	.	.	506	164
5.00000	*	.	.	.	506	163
5.00000	*	.	.	.	506	162
5.00000	*	.	.	.	506	161
5.00000	*	.	.	.	506	160
5.00000	*	.	.	.	506	159
5.00000	*	.	.	.	506	158
5.00000	*	.	.	.	506	157
5.00000	*	.	.	.	506	156
5.00000	*	.	.	.	506	155
5.00000	*	.	.	.	506	154
5.00000	*	.	.	.	506	153
5.00000	*	.	.	.	506	152
5.00000	*	.	.	.	506	151
5.00000	*	.	.	.	506	150
5.00000	*	.	.	.	506	149
5.00000	*	.	.	.	506	148
5.00000	*	.	.	.	506	147
5.00000	*	.	.	.	506	146
5.00000	*	.	.	.	506	145
5.00000	*	.	.	.	506	144
5.00000	*	.	.	.	506	143
5.00000	*	.	.	.	506	142
5.00000	*	.	.	.	506	141
5.00000	*	.	.	.	506	140
5.00000	*	.	.	.	506	139
5.00000	*	.	.	.	506	138
5.00000	*	.	.	.	506	137
5.00000	*	.	.	.	506	136
5.00000	*	.	.	.	506	135
5.00000	*	.	.	.	506	134
5.00000	*	.	.	.	506	133
6.00000	*	.	.	.	507	132

Product-Limit Survival Estimates						
time		Survival	Failure	Survival Standard Error	Number Failed	Number Left
6.00000		.	.	.	508	131
6.00000		.	.	.	509	130
6.00000		.	.	.	510	129
6.00000		.	.	.	511	128
6.00000		.	.	.	512	127
6.00000		.	.	.	513	126
6.00000		.	.	.	514	125
6.00000		.	.	.	515	124
6.00000		.	.	.	516	123
6.00000		.	.	.	517	122
6.00000		.	.	.	518	121
6.00000		.	.	.	519	120
6.00000		.	.	.	520	119
6.00000	0.5908	0.4092		0.0216	521	118
6.00000	*	.	.	.	521	117
6.00000	*	.	.	.	521	116
6.00000	*	.	.	.	521	115
6.00000	*	.	.	.	521	114
6.00000	*	.	.	.	521	113
6.00000	*	.	.	.	521	112
6.00000	*	.	.	.	521	111
6.00000	*	.	.	.	521	110
6.00000	*	.	.	.	521	109
6.00000	*	.	.	.	521	108
6.00000	*	.	.	.	521	107
6.00000	*	.	.	.	521	106
6.00000	*	.	.	.	521	105
6.00000	*	.	.	.	521	104
6.00000	*	.	.	.	521	103
6.00000	*	.	.	.	521	102
6.00000	*	.	.	.	521	101
6.00000	*	.	.	.	521	100
6.00000	*	.	.	.	521	99
6.00000	*	.	.	.	521	98
6.00000	*	.	.	.	521	97
6.00000	*	.	.	.	521	96
6.00000	*	.	.	.	521	95
6.00000	*	.	.	.	521	94
6.00000	*	.	.	.	521	93
6.00000	*	.	.	.	521	92
6.00000	*	.	.	.	521	91
6.00000	*	.	.	.	521	90
6.00000	*	.	.	.	521	89
6.00000	*	.	.	.	521	88
6.00000	*	.	.	.	521	87
6.00000	*	.	.	.	521	86
6.00000	*	.	.	.	521	85
6.00000	*	.	.	.	521	84
6.00000	*	.	.	.	521	83
6.00000	*	.	.	.	521	82
6.00000	*	.	.	.	521	81
6.00000	*	.	.	.	521	80

Product-Limit Survival Estimates						
time		Survival	Failure	Survival Standard Error	Number Failed	Number Left
6.00000	*	.	.	.	521	79
6.00000	*	.	.	.	521	78
6.00000	*	.	.	.	521	77
6.00000	*	.	.	.	521	76
6.00000	*	.	.	.	521	75
6.00000	*	.	.	.	521	74
6.00000	*	.	.	.	521	73
6.00000	*	.	.	.	521	72
6.00000	*	.	.	.	521	71
6.00000	*	.	.	.	521	70
6.00000	*	.	.	.	521	69
6.00000	*	.	.	.	521	68
6.00000	*	.	.	.	521	67
6.00000	*	.	.	.	521	66
6.00000	*	.	.	.	521	65
6.00000	*	.	.	.	521	64
6.00000	*	.	.	.	521	63
6.00000	*	.	.	.	521	62
6.00000	*	.	.	.	521	61
6.00000	*	.	.	.	521	60
6.00000	*	.	.	.	521	59
6.00000	*	.	.	.	521	58
6.00000	*	.	.	.	521	57
6.00000	*	.	.	.	521	56
6.00000	*	.	.	.	521	55
6.00000	*	.	.	.	521	54
6.00000	*	.	.	.	521	53
6.00000	*	.	.	.	521	52
6.00000	*	.	.	.	521	51
6.00000	*	.	.	.	521	50
6.00000	*	.	.	.	521	49
6.00000	*	.	.	.	521	48
6.00000	*	.	.	.	521	47
6.00000	*	.	.	.	521	46
6.00000	*	.	.	.	521	45
6.00000	*	.	.	.	521	44
6.00000	*	.	.	.	521	43
6.00000	*	.	.	.	521	42
6.00000	*	.	.	.	521	41
6.00000	*	.	.	.	521	40
6.00000	*	.	.	.	521	39
6.00000	*	.	.	.	521	38
6.00000	*	.	.	.	521	37
6.00000	*	.	.	.	521	36
6.00000	*	.	.	.	521	35
6.00000	*	.	.	.	521	34
6.00000	*	.	.	.	521	33
6.00000	*	.	.	.	521	32
6.00000	*	.	.	.	521	31
6.00000	*	.	.	.	521	30
6.00000	*	.	.	.	521	29
6.00000	*	.	.	.	521	28

Product-Limit Survival Estimates						
time		Survival	Failure	Survival Standard Error	Number Failed	Number Left
6.00000	*	.	.	.	521	27
6.00000	*	.	.	.	521	26
6.00000	*	.	.	.	521	25
6.00000	*	.	.	.	521	24
6.00000	*	.	.	.	521	23
6.00000	*	.	.	.	521	22
6.00000	*	.	.	.	521	21
6.00000	*	.	.	.	521	20
6.00000	*	.	.	.	521	19
6.00000	*	.	.	.	521	18
6.00000	*	.	.	.	521	17
6.00000	*	.	.	.	521	16
6.00000	*	.	.	.	521	15
6.00000	*	.	.	.	521	14
6.00000	*	.	.	.	521	13
6.00000	*	.	.	.	521	12
6.00000	*	.	.	.	521	11
6.00000	*	.	.	.	521	10
6.00000	*	.	.	.	521	9
6.00000	*	.	.	.	521	8
6.00000	*	.	.	.	521	7
6.00000	*	.	.	.	521	6
7.00000		0.4924	0.5076	0.0917	522	5
7.00000	*	.	.	.	522	4
7.00000	*	.	.	.	522	3
7.00000	*	.	.	.	522	2
8.00000	*	.	.	.	522	1
8.00000	*	.	.	.	522	0

Note: The marked survival times are censored observations.

Summary Statistics for Time Variable time

Quartile Estimates				
Percent	Point Estimate	95% Confidence Interval		
		Transform	[Lower	Upper)
75	.	LOGLOG	.	.
50	7.00000	LOGLOG	7.00000	.
25	4.00000	LOGLOG	.	.

Mean	Standard Error
5.47697	0.05747

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.

The LIFETEST Procedure

Stratum 2: 1=weak grip strength, 0=not weak = 1

Product-Limit Survival Estimates						
time		Survival	Failure	Survival Standard Error	Number Failed	Number Left

Product-Limit Survival Estimates						
time	Survival	Failure	Survival Standard Error	Number Failed	Number Left	
0.00000	1.0000	0	0	0	266	
0.00000	.	.	.	1	265	
0.00000	.	.	.	2	264	
0.00000	.	.	.	3	263	
0.00000	.	.	.	4	262	
0.00000	.	.	.	5	261	
0.00000	.	.	.	6	260	
0.00000	.	.	.	7	259	
0.00000	.	.	.	8	258	
0.00000	.	.	.	9	257	
0.00000	.	.	.	10	256	
0.00000	.	.	.	11	255	
0.00000	.	.	.	12	254	
0.00000	.	.	.	13	253	
0.00000	.	.	.	14	252	
0.00000	.	.	.	15	251	
0.00000	.	.	.	16	250	
0.00000	.	.	.	17	249	
0.00000	.	.	.	18	248	
0.00000	.	.	.	19	247	
0.00000	.	.	.	20	246	
0.00000	.	.	.	21	245	
0.00000	.	.	.	22	244	
0.00000	.	.	.	23	243	
0.00000	0.9098	0.0902	0.0176	24	242	
1.00000	.	.	.	25	241	
1.00000	.	.	.	26	240	
1.00000	.	.	.	27	239	
1.00000	.	.	.	28	238	
1.00000	.	.	.	29	237	
1.00000	.	.	.	30	236	
1.00000	.	.	.	31	235	
1.00000	.	.	.	32	234	
1.00000	.	.	.	33	233	
1.00000	.	.	.	34	232	
1.00000	.	.	.	35	231	
1.00000	.	.	.	36	230	
1.00000	.	.	.	37	229	
1.00000	.	.	.	38	228	
1.00000	.	.	.	39	227	
1.00000	.	.	.	40	226	
1.00000	.	.	.	41	225	
1.00000	.	.	.	42	224	
1.00000	.	.	.	43	223	
1.00000	.	.	.	44	222	
1.00000	.	.	.	45	221	
1.00000	.	.	.	46	220	
1.00000	.	.	.	47	219	
1.00000	.	.	.	48	218	
1.00000	.	.	.	49	217	
1.00000	.	.	.	50	216	
1.00000	.	.	.	51	215	

Product-Limit Survival Estimates						
time		Survival	Failure	Survival Standard Error	Number Failed	Number Left
1.00000		.	.	.	52	214
1.00000		.	.	.	53	213
1.00000		.	.	.	54	212
1.00000		.	.	.	55	211
1.00000		.	.	.	56	210
1.00000		.	.	.	57	209
1.00000		.	.	.	58	208
1.00000		.	.	.	59	207
1.00000		.	.	.	60	206
1.00000		.	.	.	61	205
1.00000		.	.	.	62	204
1.00000		.	.	.	63	203
1.00000	0.7594	0.2406		0.0262	64	202
1.00000	*	.	.	.	64	201
2.00000		.	.	.	65	200
2.00000		.	.	.	66	199
2.00000		.	.	.	67	198
2.00000		.	.	.	68	197
2.00000		.	.	.	69	196
2.00000		.	.	.	70	195
2.00000		.	.	.	71	194
2.00000		.	.	.	72	193
2.00000		.	.	.	73	192
2.00000		.	.	.	74	191
2.00000		.	.	.	75	190
2.00000		.	.	.	76	189
2.00000		.	.	.	77	188
2.00000		.	.	.	78	187
2.00000		.	.	.	79	186
2.00000		.	.	.	80	185
2.00000		.	.	.	81	184
2.00000		.	.	.	82	183
2.00000		.	.	.	83	182
2.00000		.	.	.	84	181
2.00000		.	.	.	85	180
2.00000		.	.	.	86	179
2.00000		.	.	.	87	178
2.00000		.	.	.	88	177
2.00000		.	.	.	89	176
2.00000		.	.	.	90	175
2.00000		.	.	.	91	174
2.00000		.	.	.	92	173
2.00000		.	.	.	93	172
2.00000	0.6461	0.3539		0.0294	94	171
3.00000		.	.	.	95	170
3.00000		.	.	.	96	169
3.00000		.	.	.	97	168
3.00000		.	.	.	98	167
3.00000		.	.	.	99	166
3.00000		.	.	.	100	165
3.00000		.	.	.	101	164
3.00000		.	.	.	102	163

Product-Limit Survival Estimates						
time		Survival	Failure	Survival Standard Error	Number Failed	Number Left
3.00000		.	.	.	103	162
3.00000		.	.	.	104	161
3.00000		.	.	.	105	160
3.00000		.	.	.	106	159
3.00000		.	.	.	107	158
3.00000		.	.	.	108	157
3.00000		.	.	.	109	156
3.00000		.	.	.	110	155
3.00000		.	.	.	111	154
3.00000		.	.	.	112	153
3.00000		.	.	.	113	152
3.00000		.	.	.	114	151
3.00000		.	.	.	115	150
3.00000		.	.	.	116	149
3.00000		.	.	.	117	148
3.00000		.	.	.	118	147
3.00000		.	.	.	119	146
3.00000		.	.	.	120	145
3.00000		.	.	.	121	144
3.00000	0.5403	0.4597		0.0306	122	143
3.00000	*	.	.	.	122	142
3.00000	*	.	.	.	122	141
3.00000	*	.	.	.	122	140
3.00000	*	.	.	.	122	139
3.00000	*	.	.	.	122	138
3.00000	*	.	.	.	122	137
3.00000	*	.	.	.	122	136
3.00000	*	.	.	.	122	135
3.00000	*	.	.	.	122	134
3.00000	*	.	.	.	122	133
3.00000	*	.	.	.	122	132
3.00000	*	.	.	.	122	131
4.00000		.	.	.	123	130
4.00000		.	.	.	124	129
4.00000		.	.	.	125	128
4.00000		.	.	.	126	127
4.00000		.	.	.	127	126
4.00000		.	.	.	128	125
4.00000		.	.	.	129	124
4.00000		.	.	.	130	123
4.00000		.	.	.	131	122
4.00000		.	.	.	132	121
4.00000		.	.	.	133	120
4.00000		.	.	.	134	119
4.00000		.	.	.	135	118
4.00000		.	.	.	136	117
4.00000		.	.	.	137	116
4.00000		.	.	.	138	115
4.00000		.	.	.	139	114
4.00000		.	.	.	140	113
4.00000		.	.	.	141	112
4.00000		.	.	.	142	111

Product-Limit Survival Estimates						
time	Survival	Failure	Survival Standard Error	Number Failed	Number Left	
4.00000	.	.	.	143	110	
4.00000	.	.	.	144	109	
4.00000	.	.	.	145	108	
4.00000	.	.	.	146	107	
4.00000	.	.	.	147	106	
4.00000	.	.	.	148	105	
4.00000	.	.	.	149	104	
4.00000	.	.	.	150	103	
4.00000	.	.	.	151	102	
4.00000	0.4165	0.5835	0.0308	152	101	
4.00000	*	.	.	152	100	
4.00000	*	.	.	152	99	
4.00000	*	.	.	152	98	
4.00000	*	.	.	152	97	
4.00000	*	.	.	152	96	
4.00000	*	.	.	152	95	
4.00000	*	.	.	152	94	
4.00000	*	.	.	152	93	
4.00000	*	.	.	152	92	
4.00000	*	.	.	152	91	
4.00000	*	.	.	152	90	
4.00000	*	.	.	152	89	
4.00000	*	.	.	152	88	
4.00000	*	.	.	152	87	
4.00000	*	.	.	152	86	
4.00000	*	.	.	152	85	
4.00000	*	.	.	152	84	
4.00000	*	.	.	152	83	
4.00000	*	.	.	152	82	
4.00000	*	.	.	152	81	
4.00000	*	.	.	152	80	
4.00000	*	.	.	152	79	
4.00000	*	.	.	152	78	
4.00000	*	.	.	152	77	
4.00000	*	.	.	152	76	
4.00000	*	.	.	152	75	
4.00000	*	.	.	152	74	
4.00000	*	.	.	152	73	
4.00000	*	.	.	152	72	
4.00000	*	.	.	152	71	
4.00000	*	.	.	152	70	
4.00000	*	.	.	152	69	
4.00000	*	.	.	152	68	
4.00000	*	.	.	152	67	
4.00000	*	.	.	152	66	
4.00000	*	.	.	152	65	
4.00000	*	.	.	152	64	
4.00000	*	.	.	152	63	
4.00000	*	.	.	152	62	
4.00000	*	.	.	152	61	
4.00000	*	.	.	152	60	
4.00000	*	.	.	152	59	

Product-Limit Survival Estimates						
time		Survival	Failure	Survival Standard Error	Number Failed	Number Left
4.00000	*	.	.	.	152	58
4.00000	*	.	.	.	152	57
4.00000	*	.	.	.	152	56
4.00000	*	.	.	.	152	55
4.00000	*	.	.	.	152	54
4.00000	*	.	.	.	152	53
4.00000	*	.	.	.	152	52
4.00000	*	.	.	.	152	51
4.00000	*	.	.	.	152	50
4.00000	*	.	.	.	152	49
4.00000	*	.	.	.	152	48
4.00000	*	.	.	.	152	47
4.00000	*	.	.	.	152	46
4.00000	*	.	.	.	152	45
4.00000	*	.	.	.	152	44
5.00000		.	.	.	153	43
5.00000		.	.	.	154	42
5.00000		.	.	.	155	41
5.00000		.	.	.	156	40
5.00000		.	.	.	157	39
5.00000		0.3597	0.6403	0.0343	158	38
5.00000	*	.	.	.	158	37
5.00000	*	.	.	.	158	36
5.00000	*	.	.	.	158	35
5.00000	*	.	.	.	158	34
5.00000	*	.	.	.	158	33
5.00000	*	.	.	.	158	32
5.00000	*	.	.	.	158	31
5.00000	*	.	.	.	158	30
5.00000	*	.	.	.	158	29
5.00000	*	.	.	.	158	28
5.00000	*	.	.	.	158	27
5.00000	*	.	.	.	158	26
5.00000	*	.	.	.	158	25
5.00000	*	.	.	.	158	24
5.00000	*	.	.	.	158	23
5.00000	*	.	.	.	158	22
5.00000	*	.	.	.	158	21
5.00000	*	.	.	.	158	20
5.00000	*	.	.	.	158	19
5.00000	*	.	.	.	158	18
5.00000	*	.	.	.	158	17
5.00000	*	.	.	.	158	16
5.00000	*	.	.	.	158	15
5.00000	*	.	.	.	158	14
5.00000	*	.	.	.	158	13
6.00000		.	.	.	159	12
6.00000		.	.	.	160	11
6.00000		.	.	.	161	10
6.00000		.	.	.	162	9
6.00000		0.2214	0.7786	0.0529	163	8
6.00000	*	.	.	.	163	7

Product-Limit Survival Estimates							
time		Survival	Failure	Survival Standard Error		Number Failed	Number Left
6.00000	*	.	.	.		163	6
6.00000	*	.	.	.		163	5
6.00000	*	.	.	.		163	4
6.00000	*	.	.	.		163	3
6.00000	*	.	.	.		163	2
6.00000	*	.	.	.		163	1
7.00000	*	.	.	.		163	0

Note: The marked survival times are censored observations.

Summary Statistics for Time Variable time

Quartile Estimates				
Percent	Point Estimate	95% Confidence Interval		
		Transform	[Lower	Upper)
75	6.00000	LOGLOG	6.00000	.
50	4.00000	LOGLOG	3.00000	4.00000
25	2.00000	LOGLOG	1.00000	2.00000

Mean	Standard Error
3.63178	0.13517

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					
Stratum	weak_grip	Total	Failed	Censored	Percent Censored
1	0	1698	522	1176	69.26
2	1	266	163	103	38.72
Total		1964	685	1279	65.12

Note: 74 observations with invalid time, censoring, or strata values were deleted.

The LIFETEST Procedure

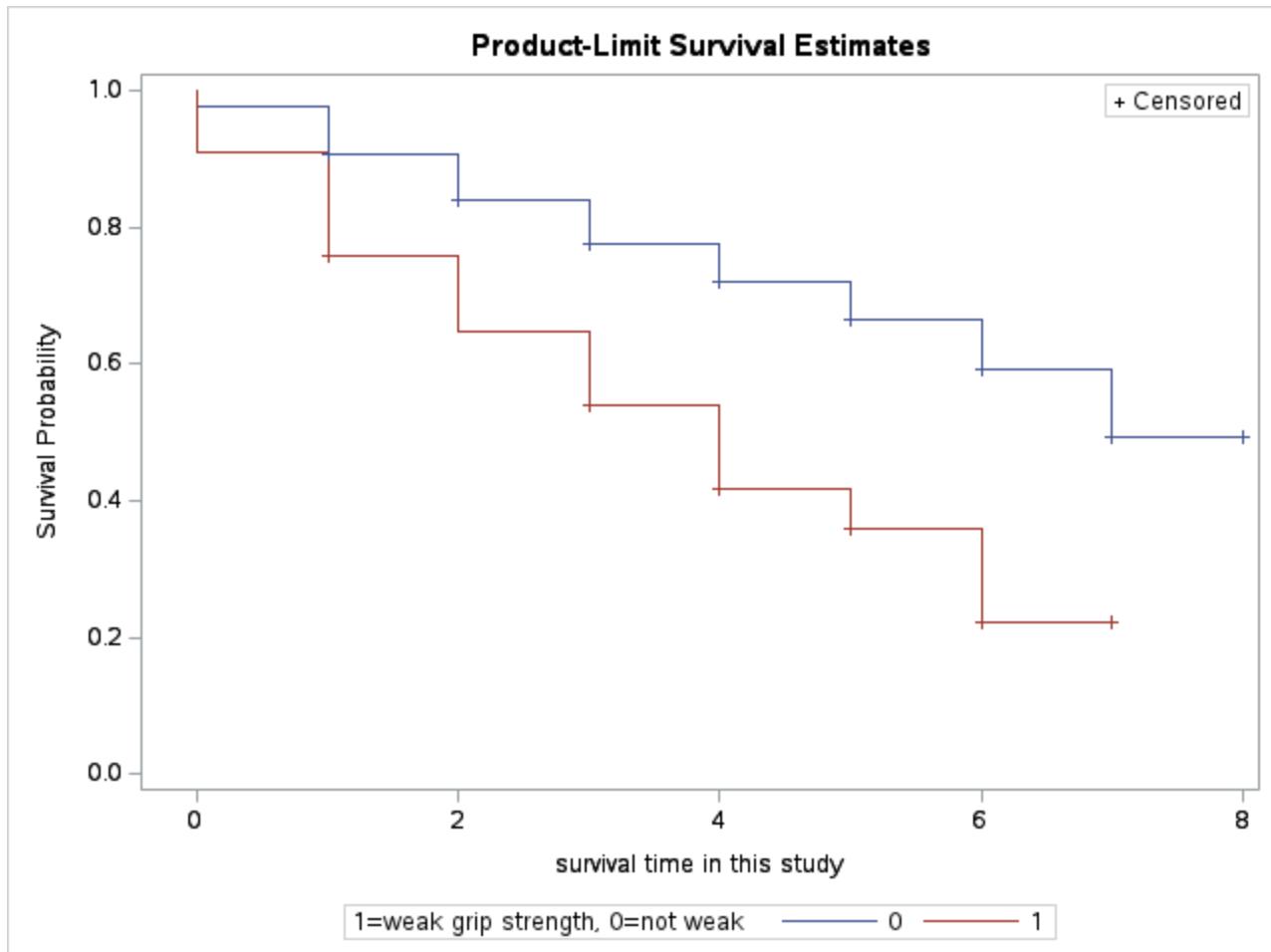
Testing Homogeneity of Survival Curves for time over Strata

Rank Statistics		
weak_grip	Log-Rank	Wilcoxon
0	-86.104	-138765
1	86.104	138765

Covariance Matrix for the Log-Rank Statistics		
weak_grip	0	1
0	62.7412	-62.7412
1	-62.7412	62.7412

Covariance Matrix for the Wilcoxon Statistics		
weak_grip	0	1
0	1.7422E8	-1.7422E8
1	-1.7422E8	1.7422E8

Test of Equality over Strata			
Test	Chi-Square	DF	Pr > Chi-Square
Log-Rank	118.1662	1	<.0001
Wilcoxon	110.5252	1	<.0001
-2Log(LR)	89.3347	1	<.0001



The PHREG Procedure

Model Information		
Data Set	PRJ.CLEANED	
Dependent Variable	time	survival time in this study
Censoring Variable	Mortality	1=not-alive, 0=alive
Censoring Value(s)	0	
Ties Handling	BRESLOW	

Number of Observations Read	2038
Number of Observations Used	1964

Summary of the Number of Event and Censored Values			
Total	Event	Censored	Percent Censored
1964	685	1279	65.12

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

Model Fit Statistics		
Criterion	Without Covariates	With Covariates
-2 LOG L	9963.024	9877.208
AIC	9963.024	9879.208
SBC	9963.024	9883.737

Testing Global Null Hypothesis: BETA=0			
Test	Chi-Square	DF	Pr > ChiSq
Likelihood Ratio	85.8155	1	<.0001
Score	108.8921	1	<.0001
Wald	101.8056	1	<.0001

Analysis of Maximum Likelihood Estimates								
Parameter	DF	Parameter Estimate	Standard Error	Chi-Square	Pr > ChiSq	Hazard Ratio	95% Hazard Ratio Confidence Limits	Label
weak_grip	1	0.90752	0.08994	101.8056	<.0001	2.478	2.078 2.956	1=weak grip strength, 0=not weak

The PHREG Procedure

Model Information		
Data Set	PRJ.CLEANED	
Dependent Variable	time	survival time in this study
Censoring Variable	Mortality	1=not-alive, 0=alive
Censoring Value(s)	0	
Ties Handling	BRESLOW	

Number of Observations Read	2038
Number of Observations Used	1448

Summary of the Number of Event and Censored Values			
Total	Event	Censored	Percent Censored
1448	418	1030	71.13

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

Model Fit Statistics		
Criterion	Without Covariates	With Covariates
-2 LOG L	5832.855	5381.606
AIC	5832.855	5399.606
SBC	5832.855	5435.925

Testing Global Null Hypothesis: BETA=0			
Test	Chi-Square	DF	Pr > ChiSq
Likelihood Ratio	451.2491	9	<.0001
Score	417.2574	9	<.0001
Wald	361.9866	9	<.0001

Analysis of Maximum Likelihood Estimates

Parameter	DF	Parameter Estimate	Standard Error	Chi-Square	Pr > ChiSq	Hazard Ratio	95% Hazard Ratio Confidence Limits	Label
weak_grip	1	-0.21098	0.13513	2.4378	0.1184	0.810	0.621 1.055	1=weak grip strength, 0=not weak
sex	1	0.80232	0.13161	37.1652	<.0001	2.231	1.724 2.887	1=Male, 0=Female

Analysis of Maximum Likelihood Estimates

Parameter	DF	Parameter Estimate	Standard Error	Chi-Square	Pr > ChiSq	Hazard Ratio	95% Hazard Ratio Confidence Limits		Label
smoke	1	-0.13557	0.10756	1.5888	0.2075	0.873	0.707	1.078	
high_ed	1	0.06449	0.10148	0.4038	0.5251	1.067	0.874	1.301	
Age_enrollment	1	0.05900	0.00921	41.0416	<.0001	1.061	1.042	1.080	
BMI	1	-0.07921	0.01993	15.7986	<.0001	0.924	0.888	0.961	
gait_speed	1	-1.51667	0.25626	35.0287	<.0001	0.219	0.133	0.363	
fev1	1	-0.39370	0.10738	13.4428	0.0002	0.675	0.547	0.833	
DSST	1	-0.02351	0.00472	24.8246	<.0001	0.977	0.968	0.986	

The LOGISTIC Procedure

Model Information		
Data Set	PRJ.CLEANED	
Response Variable	weak_grip	1=weak grip strength, 0=not weak
Number of Response Levels	2	
Model	binary logit	
Optimization Technique	Fisher's scoring	

Number of Observations Read	2038
Number of Observations Used	1969

Response Profile		
Ordered Value	weak_grip	Total Frequency
1	1	267
2	0	1702

Probability modeled is weak_grip=1.

Note: 69 observations were deleted due to missing values for the response or explanatory variables.

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

Model Fit Statistics			
Criterion	Intercept Only	Intercept and Covariates	
AIC	1564.986		1566.692
SC	1570.571		1577.863
-2 Log L	1562.986		1562.692

Testing Global Null Hypothesis: BETA=0				
Test	Chi-Square	DF	Pr > ChiSq	
Likelihood Ratio	0.2938	1	0.5878	
Score	0.2941	1	0.5876	
Wald	0.2940	1	0.5877	

Analysis of Maximum Likelihood Estimates					
Parameter	DF	Estimate	Standard Error	Wald Chi-Square	Pr > ChiSq
Intercept	1	-1.8862	0.0914	426.3149	<.0001
sex	1	0.0714	0.1318	0.2940	0.5877

Odds Ratio Estimates			
Effect	Point Estimate	95% Wald Confidence Limits	
sex	1.074	0.830	1.391

Association of Predicted Probabilities and Observed Responses			
Percent Concordant	25.8	Somers' D	0.018
Percent Discordant	24.1	Gamma	0.036
Percent Tied	50.1	Tau-a	0.004
Pairs	454434	c	0.509

The LOGISTIC Procedure

Model Information			
Data Set	PRJ.CLEANED		
Response Variable	weak_grip	1=weak grip strength, 0=not weak	
Number of Response Levels	2		
Model	binary logit		
Optimization Technique	Fisher's scoring		

Number of Observations Read	2038
Number of Observations Used	1959

Response Profile			
Ordered Value	weak_grip	Total Frequency	
1	1	266	
2	0	1693	

Probability modeled is weak_grip=1.

Note: 79 observations were deleted due to missing values for the response or explanatory variables.

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

Model Fit Statistics			
Criterion	Intercept Only	Intercept and Covariates	
AIC	1558.367	1559.654	
SC	1563.947	1570.815	
-2 Log L	1556.367	1555.654	

Testing Global Null Hypothesis: BETA=0				
Test	Chi-Square	DF	Pr > ChiSq	
Likelihood Ratio	0.7122	1	0.3987	
Score	0.7099	1	0.3995	
Wald	0.7094	1	0.3996	

Analysis of Maximum Likelihood Estimates					
Parameter	DF	Estimate	Standard Error	Wald Chi-Square	Pr > ChiSq
Intercept	1	-1.9138	0.1008	360.6690	<.0001
smoke	1	0.1123	0.1333	0.7094	0.3996

Odds Ratio Estimates			
Effect	Point Estimate	95% Wald Confidence Limits	
smoke	1.119	0.862	1.453

Association of Predicted Probabilities and Observed Responses			
Percent Concordant	26.0	Somers' D	0.028
Percent Discordant	23.3	Gamma	0.056
Percent Tied	50.7	Tau-a	0.006
Pairs	450338	c	0.514

The LOGISTIC Procedure

Model Information			
Data Set	PRJ.CLEANED		
Response Variable	weak_grip	1=weak grip strength, 0=not weak	
Number of Response Levels	2		
Model	binary logit		
Optimization Technique	Fisher's scoring		

Number of Observations Read	2038
Number of Observations Used	1964

Response Profile		
Ordered Value	weak_grip	Total Frequency
1	1	265
2	0	1699

Probability modeled is weak_grip=1.

Note: 74 observations were deleted due to missing values for the response or explanatory variables.

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

Model Fit Statistics			
Criterion	Intercept Only	Intercept and Covariates	
AIC	1556.112		1554.940
SC	1561.695		1566.106
-2 Log L	1554.112		1550.940

Testing Global Null Hypothesis: BETA=0				
Test	Chi-Square	DF	Pr > ChiSq	
Likelihood Ratio	3.1720	1	0.0749	
Score	3.1933	1	0.0739	
Wald	3.1839	1	0.0744	

Analysis of Maximum Likelihood Estimates					
Parameter	DF	Estimate	Standard Error	Wald Chi-Square	Pr > ChiSq
Intercept	1	-1.7281	0.0963	322.0553	<.0001
high_ed	1	-0.2363	0.1324	3.1839	0.0744

Odds Ratio Estimates			
Effect	Point Estimate	95% Wald Confidence Limits	
high_ed	0.790	0.609	1.024

Association of Predicted Probabilities and Observed Responses			
Percent Concordant	27.8	Somers' D	0.058
Percent Discordant	21.9	Gamma	0.118
Percent Tied	50.3	Tau-a	0.014
Pairs	450235	c	0.529

The LOGISTIC Procedure

Model Information			
Data Set	PRJ.CLEANED		
Response Variable	weak_grip	1=weak grip strength, 0=not weak	
Number of Response Levels	2		
Model	binary logit		
Optimization Technique	Fisher's scoring		

Number of Observations Read	2038
Number of Observations Used	1969

Response Profile			
Ordered Value	weak_grip	Total Frequency	
1	1	267	
2	0	1702	

Probability modeled is weak_grip=1.

Note: 69 observations were deleted due to missing values for the response or explanatory variables.

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

Model Fit Statistics			
Criterion	Intercept Only	Intercept and Covariates	
AIC	1564.986		1359.029
SC	1570.571		1370.200
-2 Log L	1562.986		1355.029

Testing Global Null Hypothesis: BETA=0				
Test	Chi-Square	DF	Pr > ChiSq	
Likelihood Ratio	207.9570	1	<.0001	
Score	174.5233	1	<.0001	
Wald	142.4856	1	<.0001	

Analysis of Maximum Likelihood Estimates					
Parameter	DF	Estimate	Standard Error	Wald Chi-Square	Pr > ChiSq
Intercept	1	-13.7958	1.0316	178.8324	<.0001
Age_enrollment	1	0.1331	0.0111	142.4856	<.0001

Odds Ratio Estimates				
Effect	Point Estimate		95% Wald Confidence Limits	
Age_enrollment	1.142	1.118	1.168	

Association of Predicted Probabilities and Observed Responses				
Percent Concordant	73.8	Somers' D	0.510	
Percent Discordant	22.8	Gamma	0.528	
Percent Tied	3.4	Tau-a	0.120	
Pairs	454434	c	0.755	

The LOGISTIC Procedure

Model Information				
Data Set	PRJ.CLEANED			
Response Variable	weak_grip 1=weak grip strength, 0=not weak			
Number of Response Levels	2			
Model	binary logit			
Optimization Technique	Fisher's scoring			

Number of Observations Read	2038
Number of Observations Used	1901

Response Profile			
Ordered Value	weak_grip	Total Frequency	
1	1	239	
2	0	1662	

Probability modeled is weak_grip=1.

Note: 137 observations were deleted due to missing values for the response or explanatory variables.

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

Model Fit Statistics				
Criterion	Intercept Only	Intercept and Covariates		
AIC	1439.822	1427.292		
SC	1445.372	1438.393		
-2 Log L	1437.822	1423.292		

Testing Global Null Hypothesis: BETA=0				
Test	Chi-Square	DF	Pr > ChiSq	
Likelihood Ratio	14.5300	1	0.0001	
Score	13.6177	1	0.0002	
Wald	13.6142	1	0.0002	

Analysis of Maximum Likelihood Estimates					
Parameter	DF	Estimate	Standard Error	Wald Chi-Square	Pr > ChiSq
Intercept	1	-0.3069	0.4407	0.4849	0.4862
BMI	1	-0.0954	0.0258	13.6142	0.0002

Odds Ratio Estimates			
Effect	Point Estimate	95% Wald Confidence Limits	
BMI	0.909	0.864	0.956

Association of Predicted Probabilities and Observed Responses			
Percent Concordant	58.3	Somers' D	0.165
Percent Discordant	41.7	Gamma	0.165
Percent Tied	0.0	Tau-a	0.036
Pairs	397218	c	0.583

The LOGISTIC Procedure

Model Information			
Data Set	PRJ.CLEANED		
Response Variable	weak_grip	1=weak grip strength, 0=not weak	
Number of Response Levels	2		
Model	binary logit		
Optimization Technique	Fisher's scoring		

Number of Observations Read	2038
Number of Observations Used	1883

Response Profile		
Ordered Value	weak_grip	Total Frequency
1	1	230
2	0	1653

Probability modeled is weak_grip=1.

Note: 155 observations were deleted due to missing values for the response or explanatory variables.

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

Model Fit Statistics			
Criterion	Intercept Only	Intercept and Covariates	
AIC	1399.857	1256.632	
SC	1405.397	1267.714	
-2 Log L	1397.857	1252.632	

Testing Global Null Hypothesis: BETA=0			
Test	Chi-Square	DF	Pr > ChiSq
Likelihood Ratio	145.2243	1	<.0001
Score	137.1744	1	<.0001
Wald	124.4214	1	<.0001

Analysis of Maximum Likelihood Estimates					
Parameter	DF	Estimate	Standard Error	Wald Chi-Square	Pr > ChiSq
Intercept	1	0.3325	0.1979	2.8217	0.0930
gait_speed	1	-3.3656	0.3017	124.4214	<.0001

Odds Ratio Estimates			
Effect	Point Estimate	95% Wald Confidence Limits	
gait_speed	0.035	0.019	0.062

Association of Predicted Probabilities and Observed Responses			
Percent Concordant	74.0	Somers' D	0.480
Percent Discordant	26.0	Gamma	0.481
Percent Tied	0.0	Tau-a	0.103
Pairs	380190	c	0.740

The LOGISTIC Procedure

Model Information			
Data Set	PRJ.CLEANED		
Response Variable	weak_grip	1=weak grip strength, 0=not weak	
Number of Response Levels	2		
Model	binary logit		
Optimization Technique	Fisher's scoring		

Number of Observations Read	2038
Number of Observations Used	1618

Response Profile		
Ordered Value	weak_grip	Total Frequency
1	1	200
2	0	1418

Probability modeled is weak_grip=1.

Note: 420 observations were deleted due to missing values for the response or explanatory variables.

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

Model Fit Statistics			
Criterion	Intercept Only	Intercept and Covariates	
AIC	1212.443		1129.664
SC	1217.832		1140.442
-2 Log L	1210.443		1125.664

Testing Global Null Hypothesis: BETA=0				
Test	Chi-Square	DF	Pr > ChiSq	
Likelihood Ratio	84.7793	1	<.0001	
Score	75.2238	1	<.0001	
Wald	71.5876	1	<.0001	

Analysis of Maximum Likelihood Estimates					
Parameter	DF	Estimate	Standard Error	Wald Chi-Square	Pr > ChiSq
Intercept	1	-0.00455	0.2233	0.0004	0.9838
fev1	1	-1.1841	0.1399	71.5876	<.0001

Odds Ratio Estimates			
Effect	Point Estimate	95% Wald Confidence Limits	
fev1	0.306	0.233	0.403

Association of Predicted Probabilities and Observed Responses			
Percent Concordant	69.1	Somers' D	0.385
Percent Discordant	30.6	Gamma	0.386
Percent Tied	0.2	Tau-a	0.083
Pairs	283600	c	0.692

The LOGISTIC Procedure

Model Information			
Data Set	PRJ.CLEANED		
Response Variable	weak_grip	1=weak grip strength, 0=not weak	
Number of Response Levels	2		
Model	binary logit		
Optimization Technique	Fisher's scoring		

Number of Observations Read	2038
Number of Observations Used	1781

Response Profile			
Ordered Value	weak_grip	Total Frequency	
1	1	208	
2	0	1573	

Probability modeled is weak_grip=1.

Note: 257 observations were deleted due to missing values for the response or explanatory variables.

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

Model Fit Statistics			
Criterion	Intercept Only	Intercept and Covariates	
AIC	1286.018	1200.583	
SC	1291.503	1211.553	
-2 Log L	1284.018	1196.583	

Testing Global Null Hypothesis: BETA=0				
Test	Chi-Square	DF	Pr > ChiSq	
Likelihood Ratio	87.4348	1	<.0001	
Score	85.8004	1	<.0001	
Wald	80.9275	1	<.0001	

Analysis of Maximum Likelihood Estimates					
Parameter	DF	Estimate	Standard Error	Wald Chi-Square	Pr > ChiSq
Intercept	1	-0.5775	0.1608	12.9027	0.0003
DSST	1	-0.0515	0.00573	80.9275	<.0001

Odds Ratio Estimates			
Effect	Point Estimate	95% Wald Confidence Limits	
DSST	0.950	0.939	0.961

Association of Predicted Probabilities and Observed Responses			
Percent Concordant	68.4	Somers' D	0.388
Percent Discordant	29.6	Gamma	0.396
Percent Tied	2.0	Tau-a	0.080
Pairs	327184	c	0.694

The FREQ Procedure

Frequency Percent Row Pct Col Pct	Table of weak_grip by sex				
	sex(1=Male, 0=Female)				
weak_grip(1=weak grip strength, 0=not weak)	0	1	Total		
	0	910 46.22 53.47 86.83	792 40.22 46.53 85.99	1702 86.44	
	1	138 7.01 51.69 13.17	129 6.55 48.31 14.01	267 13.56	
Total		1048 53.22	921 46.78	1969 100.00	
Frequency Missing = 69					

Statistics for Table of weak_grip by sex

Statistic	DF	Value	Prob
Chi-Square	1	0.2941	0.5876
Likelihood Ratio Chi-Square	1	0.2938	0.5878
Continuity Adj. Chi-Square	1	0.2269	0.6338
Mantel-Haenszel Chi-Square	1	0.2939	0.5877
Phi Coefficient		0.0122	
Contingency Coefficient		0.0122	
Cramer's V		0.0122	

Fisher's Exact Test	
Cell (1,1) Frequency (F)	910
Left-sided Pr <= F	0.7287
Right-sided Pr >= F	0.3167
Table Probability (P)	0.0453
Two-sided Pr <= P	0.5982

Sample Size = 1969
Frequency Missing = 69

The FREQ Procedure

Frequency Percent Row Pct Col Pct	Table of weak_grip by smoke				
	smoke				
weak_grip(1=weak grip strength, 0=not weak)	0	1	Total		
	0	766 39.10	927 47.32	1693 86.42	

Table of weak_grip by smoke			
weak_grip(1=weak grip strength, 0=not weak)	smoke		
	0	1	Total
	45.25 87.14	54.75 85.83	
1	113 5.77 42.48 12.86	153 7.81 57.52 14.17	266 13.58
Total	879 44.87	1080 55.13	1959 100.00

Frequency Missing = 79

Statistics for Table of weak_grip by smoke

Statistic	DF	Value	Prob
Chi-Square	1	0.7099	0.3995
Likelihood Ratio Chi-Square	1	0.7122	0.3987
Continuity Adj. Chi-Square	1	0.6026	0.4376
Mantel-Haenszel Chi-Square	1	0.7096	0.3996
Phi Coefficient		0.0190	
Contingency Coefficient		0.0190	
Cramer's V		0.0190	

Fisher's Exact Test	
Cell (1,1) Frequency (F)	766
Left-sided Pr <= F	0.8182
Right-sided Pr >= F	0.2190
Table Probability (P)	0.0372
Two-sided Pr <= P	0.4264

Sample Size = 1959
Frequency Missing = 79

The FREQ Procedure

Frequency Percent Row Pct Col Pct	Table of weak_grip by high_ed			
	high_ed			Total
weak_grip(1=weak grip strength, 0=not weak)	0	1		
	715 36.41 42.08 84.92	984 50.10 57.92 87.70		1699 86.51
1	127 6.47 47.92 15.08	138 7.03 52.08 12.30		265 13.49
Total	842 42.87	1122 57.13		1964 100.00

Frequency Missing = 74

Statistics for Table of weak_grip by high_ed

Statistic	DF	Value	Prob
Chi-Square	1	3.1933	0.0739
Likelihood Ratio Chi-Square	1	3.1720	0.0749
Continuity Adj. Chi-Square	1	2.9593	0.0854
Mantel-Haenszel Chi-Square	1	3.1917	0.0740

Statistic	DF	Value	Prob
Phi Coefficient		-0.0403	
Contingency Coefficient		0.0403	
Cramer's V		-0.0403	

Fisher's Exact Test	
Cell (1,1) Frequency (F)	715
Left-sided Pr <= F	0.0430
Right-sided Pr >= F	0.9678
Table Probability (P)	0.0108
Two-sided Pr <= P	0.0826

Sample Size = 1964
 Frequency Missing = 74

The PHREG Procedure

Model Information		
Data Set	PRJ.CLEANED	
Dependent Variable	time	survival time in this study
Censoring Variable	Mortality	1=not-alive, 0=alive
Censoring Value(s)	0	
Ties Handling	BRESLOW	

Number of Observations Read	2038
Number of Observations Used	1964

Summary of the Number of Event and Censored Values			
Total	Event	Censored	Percent Censored
1964	685	1279	65.12

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

Model Fit Statistics		
Criterion	Without Covariates	With Covariates
-2 LOG L	9963.024	9866.193
AIC	9963.024	9870.193
SBC	9963.024	9879.252

Testing Global Null Hypothesis: BETA=0				
Test	Chi-Square	DF	Pr > ChiSq	
Likelihood Ratio	96.8304	2	<.0001	
Score	119.9742	2	<.0001	
Wald	112.8202	2	<.0001	

Analysis of Maximum Likelihood Estimates								
Parameter	DF	Parameter Estimate	Standard Error	Chi-Square	Pr > ChiSq	Hazard Ratio	95% Hazard Ratio Confidence Limits	Label
weak_grip	1	0.90110	0.08996	100.3344	<.0001	2.462	2.064 2.937	1=weak grip strength, 0=not weak
sex	1	0.25399	0.07656	11.0072	0.0009	1.289	1.110 1.498	1=Male, 0=Female

The PHREG Procedure

Model Information		
Data Set	PRJ.CLEANED	
Dependent Variable	time	survival time in this study
Censoring Variable	Mortality	1=not-alive, 0=alive
Censoring Value(s)	0	
Ties Handling	BRESLOW	

Number of Observations Read	2038
Number of Observations Used	1964

Summary of the Number of Event and Censored Values			
Total	Event	Censored	Percent Censored
1964	685	1279	65.12

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

Model Fit Statistics		
Criterion	Without Covariates	With Covariates
-2 LOG L	9963.024	9862.917
AIC	9963.024	9868.917
SBC	9963.024	9882.505

Testing Global Null Hypothesis: BETA=0				
Test	Chi-Square	DF	Pr > ChiSq	
Likelihood Ratio	100.1070	3	<.0001	
Score	121.2521	3	<.0001	
Wald	113.0280	3	<.0001	

Analysis of Maximum Likelihood Estimates								
Parameter	DF	Parameter Estimate	Standard Error	Chi-Square	Pr > ChiSq	Hazard Ratio	95% Hazard Ratio Confidence Limits	Label
weak_grip	1	1.06782	0.12615	71.6507	<.0001	.	.	.
sex	1	0.33135	0.08778	14.2495	0.0002	.	.	.
weak_grip*sex	1	-0.32505	0.17969	3.2722	0.0705	.	.	.

The PHREG Procedure

Model Information		
Data Set	PRJ.CLEANED	
Dependent Variable	time	survival time in this study
Censoring Variable	Mortality	1=not-alive, 0=alive
Censoring Value(s)	0	
Ties Handling	BRESLOW	

Number of Observations Read	2038
Number of Observations Used	1448

Summary of the Number of Event and Censored Values			
Total	Event	Censored	Percent Censored
1448	418	1030	71.13

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

Model Fit Statistics		
Criterion	Without Covariates	With Covariates
-2 LOG L	5832.855	5381.430
AIC	5832.855	5401.430
SBC	5832.855	5441.785

Testing Global Null Hypothesis: BETA=0				
Test	Chi-Square	DF	Pr > ChiSq	
Likelihood Ratio	451.4249	10	<.0001	
Score	417.4316	10	<.0001	
Wald	361.4603	10	<.0001	

Analysis of Maximum Likelihood Estimates								
Parameter	DF	Parameter Estimate	Standard Error	Chi-Square	Pr > ChiSq	Hazard Ratio	95% Hazard Ratio Confidence Limits	Label
weak_grip	1	-0.14748	0.20110	0.5378	0.4633	.	.	.
sex	1	0.82026	0.13844	35.1060	<.0001	.	.	.
weak_grip*sex	1	-0.11005	0.26192	0.1765	0.6744	.	.	.
smoke	1	-0.13938	0.10798	1.6661	0.1968	0.870	0.704	1.075
high_ed	1	0.06497	0.10151	0.4097	0.5221	1.067	0.875	1.302
Age_enrollment	1	0.05899	0.00921	41.0111	<.0001	1.061	1.042	1.080
BMI	1	-0.07833	0.02002	15.3084	<.0001	0.925	0.889	0.962
gait_speed	1	-1.52082	0.25645	35.1678	<.0001	0.219	0.132	0.361
fev1	1	-0.39424	0.10736	13.4846	0.0002	0.674	0.546	0.832
DSST	1	-0.02348	0.00472	24.7313	<.0001	0.977	0.968	0.986

The PHREG Procedure

Model Information		
Data Set	PRJ.CLEANED	
Dependent Variable	time	survival time in this study
Censoring Variable	Mortality	1=not-alive, 0=alive
Censoring Value(s)	0	
Ties Handling	BRESLOW	

Number of Observations Read	2038
Number of Observations Used	1448

Summary of the Number of Event and Censored Values			
Total	Event	Censored	Percent Censored
1448	418	1030	71.13

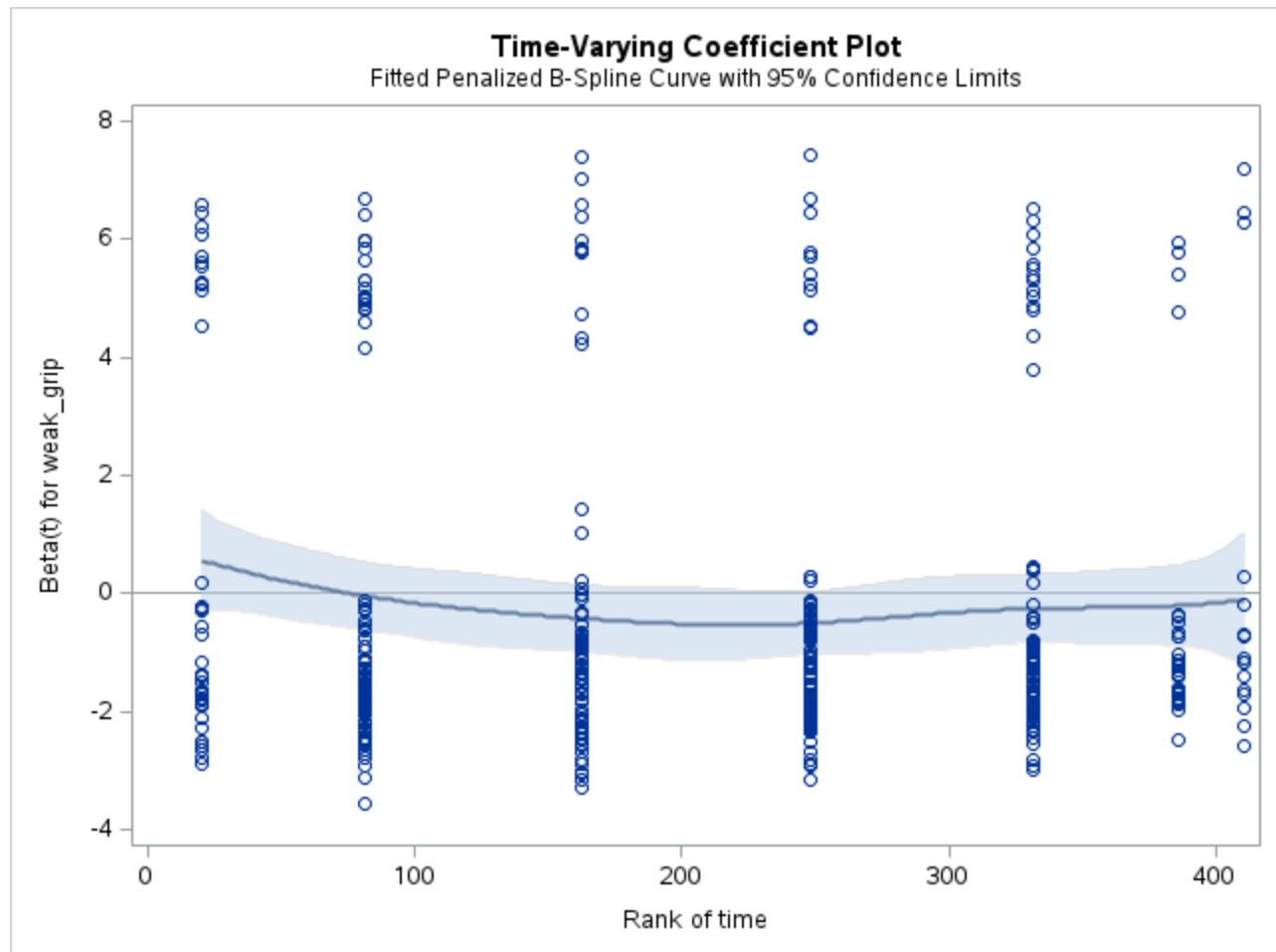
Convergence Status			
Convergence criterion (GCONV=1E-8) satisfied.			

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

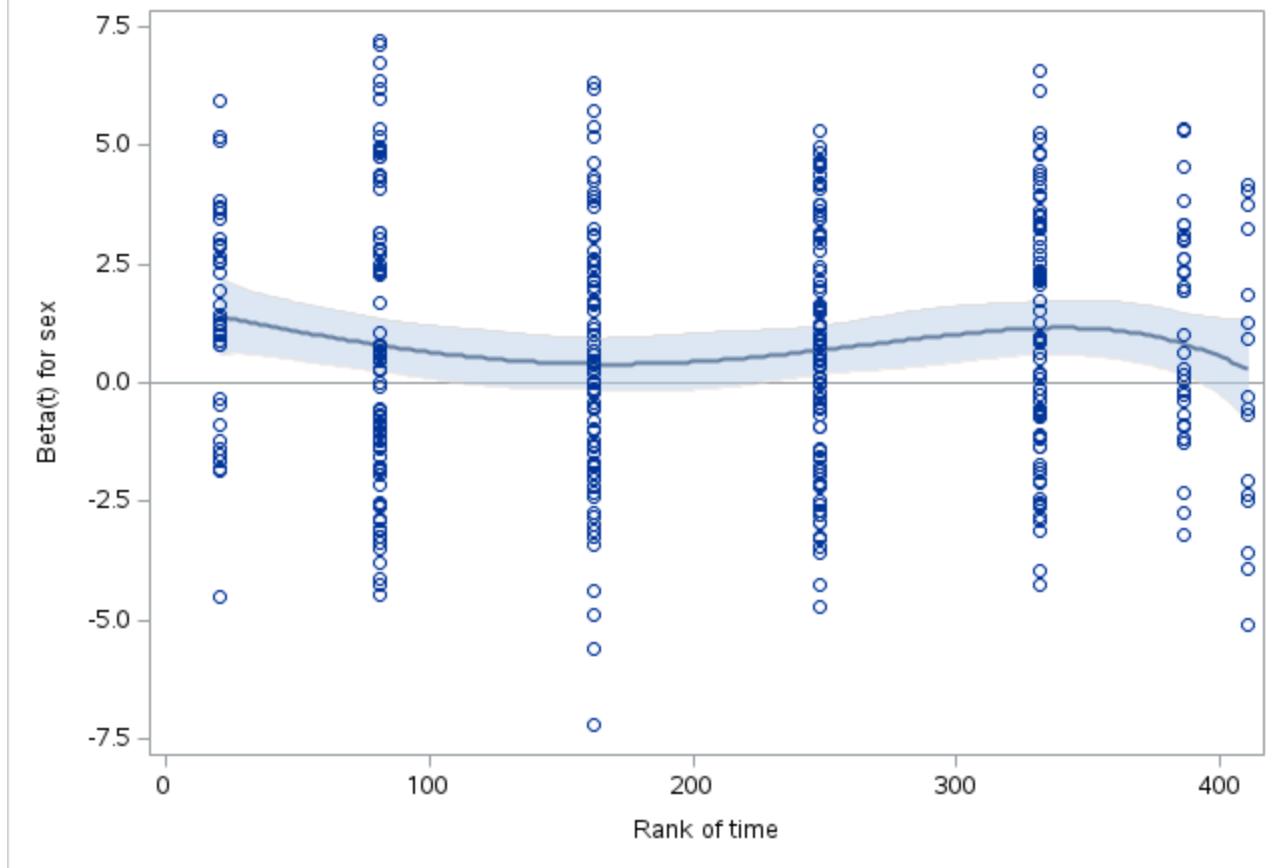
Model Fit Statistics		
Criterion	Without Covariates	With Covariates
-2 LOG L	5832.855	5381.606
AIC	5832.855	5399.606
SBC	5832.855	5435.925

Testing Global Null Hypothesis: BETA=0			
Test	Chi-Square	DF	Pr > ChiSq
Likelihood Ratio	451.2491	9	<.0001
Score	417.2574	9	<.0001
Wald	361.9866	9	<.0001

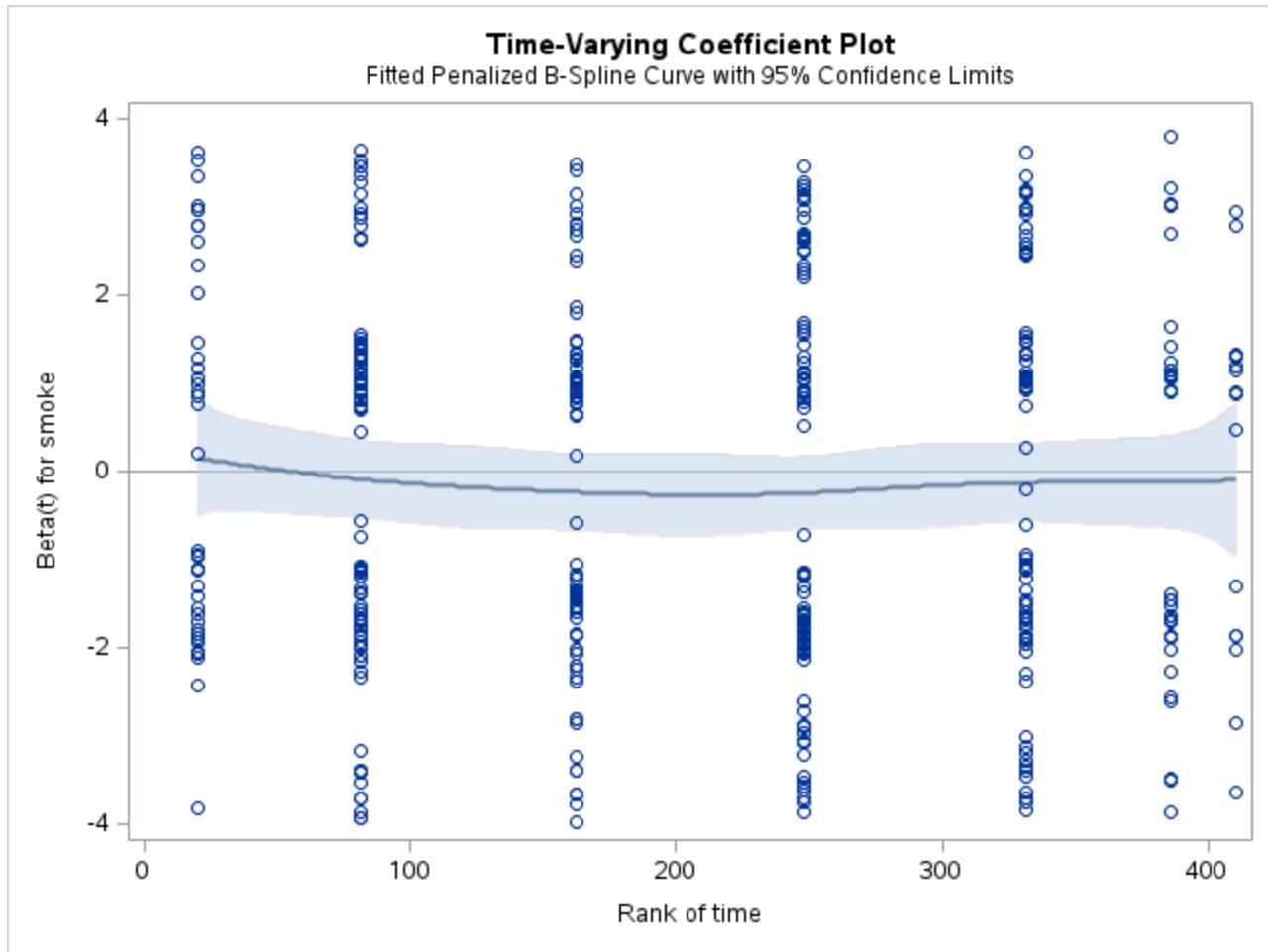
Analysis of Maximum Likelihood Estimates								
Parameter	DF	Parameter Estimate	Standard Error	Chi-Square	Pr > ChiSq	Hazard Ratio	95% Hazard Ratio Confidence Limits	Label
weak_grip	1	-0.21098	0.13513	2.4378	0.1184	0.810	0.621	1.055
sex	1	0.80232	0.13161	37.1652	<.0001	2.231	1.724	2.887
smoke	1	-0.13557	0.10756	1.5888	0.2075	0.873	0.707	1.078
high_ed	1	0.06449	0.10148	0.4038	0.5251	1.067	0.874	1.301
Age_enrollment	1	0.05900	0.00921	41.0416	<.0001	1.061	1.042	1.080
BMI	1	-0.07921	0.01993	15.7986	<.0001	0.924	0.888	0.961
gait_speed	1	-1.51667	0.25626	35.0287	<.0001	0.219	0.133	0.363
fev1	1	-0.39370	0.10738	13.4428	0.0002	0.675	0.547	0.833
DSST	1	-0.02351	0.00472	24.8246	<.0001	0.977	0.968	0.986



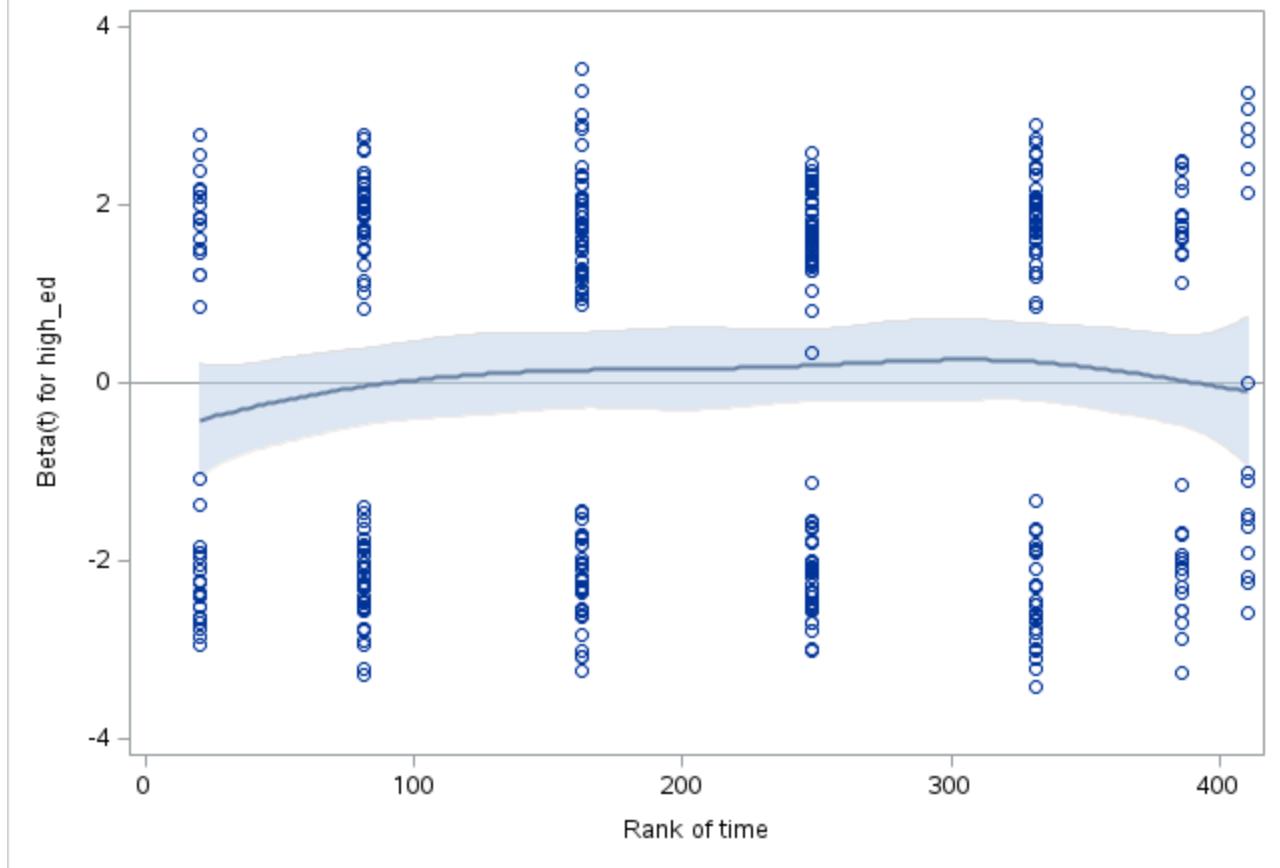
Time-Varying Coefficient Plot
Fitted Penalized B-Spline Curve with 95% Confidence Limits



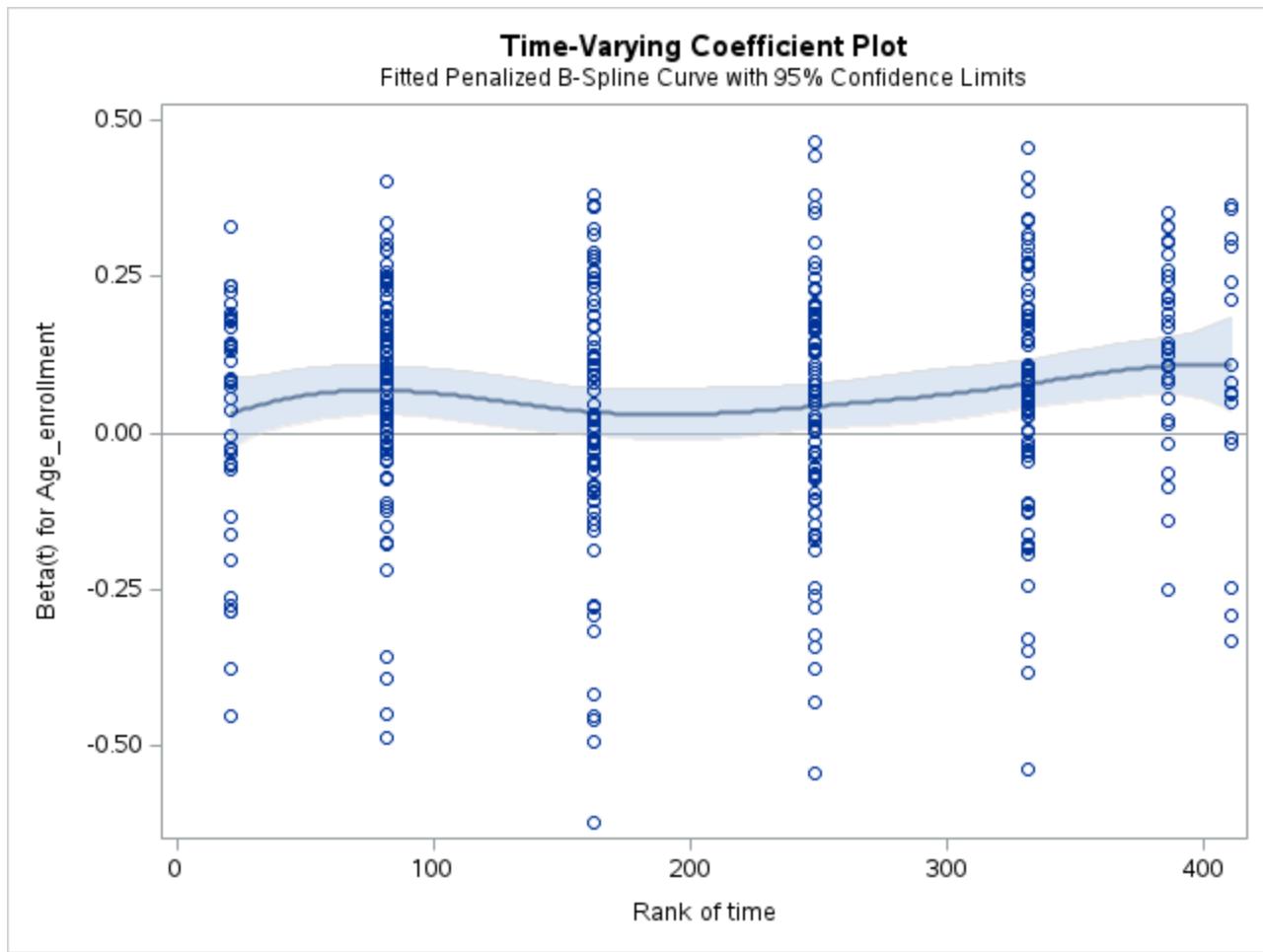
Time-Varying Coefficient Plot
Fitted Penalized B-Spline Curve with 95% Confidence Limits



Time-Varying Coefficient Plot
Fitted Penalized B-Spline Curve with 95% Confidence Limits



Time-Varying Coefficient Plot
Fitted Penalized B-Spline Curve with 95% Confidence Limits



```
1      OPTIONS NONOTES NOSTIMER NOSOURCE NOSYNTAXCHECK;
68
69      options ls=70 ps=55 nofmterr;
70      libname prj '/home/u62266791/BS852/Project';
NOTE: Libref PRJ was successfully assigned as follows:
Engine:          V9
Physical Name:  /home/u62266791/BS852/Project
71      FILENAME lng
71      ! '/home/u62266791/BS852/Project/data.longevity.csv';
72
73      /*pre: data process*/
74      PROC IMPORT DATAFILE=lng DBMS=csv OUT=prj.lng;
74      !                                     RUN;
```

NOTE: Import cancelled. Output dataset PRJ.LNG already exists.
Specify REPLACE option to overwrite it.

NOTE: The SAS System stopped processing this step because of errors.

NOTE: PROCEDURE IMPORT used (Total process time):

```
real time      0.00 seconds
user cpu time  0.00 seconds
system cpu time 0.00 seconds
memory        220.65k
OS Memory     19360.00k
Timestamp      04/20/2023 08:56:31 PM
Step Count      24  Switch Count  0
Page Faults    0
Page Reclaims   122
Page Swaps      0
Voluntary Context Switches 0
Involuntary Context Switches 0
Block Input Operations 0
Block Output Operations 0
```

75

```
76      data data1;
77      set prj.lng;
78      if Alive='Yes' then Mortality=0; else if Alive='No' then
78      ! Mortality=1;
79      if sex=1 then sex=1; else if sex=2 then sex=0;
80      label sex='1=Male, 0=Female';
81      label Mortality='1=not-alive, 0=alive';
82      run;
```

NOTE: There were 2038 observations read from the data set PRJ.LNG.

NOTE: The data set WORK.DATA1 has 2038 observations and 13 variables.

NOTE: DATA statement used (Total process time):

```
real time      0.00 seconds
user cpu time  0.01 seconds
system cpu time 0.00 seconds
memory        1213.59k
OS Memory     20648.00k
Timestamp      04/20/2023 08:56:31 PM
Step Count      25  Switch Count  2
Page Faults    0
Page Reclaims   243
Page Swaps      0
Voluntary Context Switches 18
Involuntary Context Switches 0
Block Input Operations 544
Block Output Operations 520
```

```
83      proc means data=data1 missing;
84          class sex;
85          var grip_strength;
```

```

87         output out=sex_grips mean=mean_grip std=sd_grip;
88         run;

NOTE: There were 2038 observations read from the data set WORK.DATA1.
NOTE: The data set WORK.SEX_GRIPS has 3 observations and 5 variables.
NOTE: PROCEDURE MEANS used (Total process time):
      real time          0.03 seconds
      user cpu time     0.02 seconds
      system cpu time   0.02 seconds
      memory            10345.75k
      OS Memory         31164.00k
      Timestamp          04/20/2023 08:56:31 PM
      Step Count          26  Switch Count  3
      Page Faults        0
      Page Reclaims      3056
      Page Swaps          0
      Voluntary Context Switches 31
      Involuntary Context Switches 0
      Block Input Operations 0
      Block Output Operations 264

89
90         proc sort data=data1; by sex; run;

NOTE: There were 2038 observations read from the data set WORK.DATA1.
NOTE: The data set WORK.DATA1 has 2038 observations and 13 variables.
NOTE: PROCEDURE SORT used (Total process time):
      real time          0.00 seconds
      user cpu time     0.00 seconds
      system cpu time   0.00 seconds
      memory            1607.46k
      OS Memory         23984.00k
      Timestamp          04/20/2023 08:56:31 PM
      Step Count          27  Switch Count  2
      Page Faults        0
      Page Reclaims      217
      Page Swaps          0
      Voluntary Context Switches 13
      Involuntary Context Switches 0
      Block Input Operations 0
      Block Output Operations 520

91         data data2;
92             merge data1 sex_grips;
93                 by sex;
94                 where sex in (1, 0);
95             drop _TYPE_ _FREQ_;
96             run;

NOTE: There were 2038 observations read from the data set WORK.DATA1.
      WHERE sex in (0, 1);
NOTE: There were 2 observations read from the data set WORK.SEX_GRIPS.
      WHERE sex in (0, 1);
NOTE: The data set WORK.DATA2 has 2038 observations and 15 variables.
NOTE: DATA statement used (Total process time):
      real time          0.00 seconds
      user cpu time     0.00 seconds
      system cpu time   0.00 seconds
      memory            1574.25k
      OS Memory         23980.00k
      Timestamp          04/20/2023 08:56:31 PM
      Step Count          28  Switch Count  5
      Page Faults        0
      Page Reclaims      225
      Page Swaps          0
      Voluntary Context Switches 18
      Involuntary Context Switches 0
      Block Input Operations 0

```

```
97      data prj.cleaned;
98      set data2;
99      time = Age_last_contact - Age_enrollment;
100     if grip_strength=. then weak_grip=.;
101     else if grip_strength < (mean_grip - sd_grip) then
102       ! weak_grip=1;
103     else weak_grip=0;
104     label time = 'survival time in this study';
105     label weak_grip = '1=weak grip strength, 0=not weak';
106     drop mean_grip sd_grip;
107   run;
```

NOTE: There were 2038 observations read from the data set WORK.DATA2.

NOTE: The data set PRJ.CLEANED has 2038 observations and 15 variables.

NOTE: DATA statement used (Total process time):

```
real time          0.12 seconds
user cpu time     0.00 seconds
system cpu time   0.00 seconds
memory            1212.34k
OS Memory         23720.00k
Timestamp         04/20/2023 08:56:31 PM
Step Count         29  Switch Count  1
Page Faults       0
Page Reclaims     100
Page Swaps        0
Voluntary Context Switches 35
Involuntary Context Switches 0
Block Input Operations 32
Block Output Operations 528
```

108

```
109   /*Data preview*/
110  proc means data=prj.cleaned n nmiss mean std min max;
111    var Age_enrollment BMI gait_speed fevl DSST;
112    class weak_grip;
113  run;
```

NOTE: There were 2038 observations read from the data set PRJ.CLEANED.

NOTE: PROCEDURE MEANS used (Total process time):

```
real time          0.05 seconds
user cpu time     0.05 seconds
system cpu time   0.01 seconds
memory            7788.71k
OS Memory         28856.00k
Timestamp         04/20/2023 08:56:31 PM
Step Count         30  Switch Count  1
Page Faults       0
Page Reclaims     1760
Page Swaps        0
Voluntary Context Switches 24
Involuntary Context Switches 1
Block Input Operations 544
Block Output Operations 0
```

```
114   proc sort data=prj.cleaned; by descending weak_grip
114     ! descending Mortality; run;
```

NOTE: There were 2038 observations read from the data set PRJ.CLEANED.

NOTE: The data set PRJ.CLEANED has 2038 observations and 15 variables.

NOTE: PROCEDURE SORT used (Total process time):

```
real time          0.02 seconds
user cpu time     0.00 seconds
system cpu time   0.00 seconds
memory            1736.34k
```

```
OS Memory          24496.00k
Timestamp         04/20/2023 08:56:31 PM
Step Count          31  Switch Count  1
Page Faults        0
Page Reclaims      168
Page Swaps         0
Voluntary Context Switches 38
Involuntary Context Switches 0
Block Input Operations 0
Block Output Operations 520
```

```
115      proc freq data=prj.cleaned order=data;
116          tables mortality*weak_grip sex*weak_grip
116      ! smoke*weak_grip high_ed*weak_grip / chisq;
117      run;
```

NOTE: There were 2038 observations read from the data set PRJ.CLEANED.

NOTE: PROCEDURE FREQ used (Total process time):

```
real time          0.14 seconds
user cpu time      0.13 seconds
system cpu time    0.01 seconds
memory             1707.50k
OS Memory          24236.00k
Timestamp         04/20/2023 08:56:31 PM
Step Count          32  Switch Count  5
Page Faults        0
Page Reclaims      440
Page Swaps         0
Voluntary Context Switches 36
Involuntary Context Switches 0
Block Input Operations 544
Block Output Operations 576
```

```
118      proc means data=prj.cleaned n nmiss mean std min max;
119          var Age_enrollment BMI gait_speed fev1 DSST;
120          class sex;
121      run;
```

NOTE: There were 2038 observations read from the data set PRJ.CLEANED.

NOTE: PROCEDURE MEANS used (Total process time):

```
real time          0.05 seconds
user cpu time      0.05 seconds
system cpu time    0.00 seconds
memory             7612.81k
OS Memory          29624.00k
Timestamp         04/20/2023 08:56:31 PM
Step Count          33  Switch Count  1
Page Faults        0
Page Reclaims      1744
Page Swaps         0
Voluntary Context Switches 20
Involuntary Context Switches 0
Block Input Operations 0
Block Output Operations 16
```

```
123      proc sort data=prj.cleaned; by descending weak_grip
123          ! descending Mortality; run;
```

NOTE: Input data set is already sorted, no sorting done.

NOTE: PROCEDURE SORT used (Total process time):

```
real time          0.00 seconds
user cpu time      0.00 seconds
system cpu time    0.00 seconds
memory             684.87k
OS Memory          24228.00k
Timestamp         04/20/2023 08:56:31 PM
```

```
Step Count          34  Switch Count  0
Page Faults        0
Page Reclaims      52
Page Swaps         0
Voluntary Context Switches 1
Involuntary Context Switches 0
Block Input Operations 0
Block Output Operations 0
```

```
124      proc freq data=prj.cleaned order=data;
125          tables mortality*sex weak_grip*sex smoke*sex
125      ! high_ed*sex / chisq;
126      run;
```

NOTE: There were 2038 observations read from the data set PRJ.CLEANED.

NOTE: PROCEDURE FREQ used (Total process time):

```
real time          0.13 seconds
user cpu time     0.13 seconds
system cpu time   0.01 seconds
memory            1464.06k
OS Memory          24748.00k
Timestamp          04/20/2023 08:56:32 PM
Step Count          35  Switch Count  4
Page Faults        0
Page Reclaims      194
Page Swaps         0
Voluntary Context Switches 23
Involuntary Context Switches 0
Block Input Operations 0
Block Output Operations 576
```

```
127      /*Q1*/
128      proc lifetest data=prj.cleaned plots=(s);
129          time time*Mortality(0);
130          strata weak_grip;
132      run;
```

NOTE: The LOGLOG transform is used to compute the confidence limits for the quartiles of the survivor distribution. To suppress using this transform, specify CONFTYPE=LINEAR in the PROC LIFETEST statement.

NOTE: 74 observations with invalid time, censoring, or strata values were deleted.

NOTE: PROCEDURE LIFETEST used (Total process time):

```
real time          4.68 seconds
user cpu time     2.21 seconds
system cpu time   0.01 seconds
memory            10798.32k
OS Memory          32560.00k
Timestamp          04/20/2023 08:56:36 PM
Step Count          36  Switch Count  0
Page Faults        0
Page Reclaims      3306
Page Swaps         0
Voluntary Context Switches 4244
Involuntary Context Switches 2
Block Input Operations 0
Block Output Operations 1344
```

```
133
134      proc phreg data=prj.cleaned; model time*Mortality(0) =
134      ! weak_grip / rl; run;
```

NOTE: 74 observations were deleted due either to missing or invalid values for the time, censoring, frequency or explanatory

variables or to invalid operations in generating the values for some of the explanatory variables.

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

NOTE: PROCEDURE PHREG used (Total process time):

real time	0.05 seconds
user cpu time	0.05 seconds
system cpu time	0.00 seconds
memory	3240.31k
OS Memory	32956.00k
Timestamp	04/20/2023 08:56:36 PM
Step Count	37 Switch Count 0
Page Faults	0
Page Reclaims	924
Page Swaps	0
Voluntary Context Switches	2
Involuntary Context Switches	0
Block Input Operations	0
Block Output Operations	48

135

```
136      proc phreg data=prj.cleaned;
137          model time*Mortality(0) = weak_grip sex smoke high_ed
137      ! Age_enrollment BMI gait_speed fev1 DSST/ rl;
138      run;
```

NOTE: 590 observations were deleted due either to missing or invalid values for the time, censoring, frequency or explanatory variables or to invalid operations in generating the values for some of the explanatory variables.

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

NOTE: PROCEDURE PHREG used (Total process time):

real time	0.06 seconds
user cpu time	0.06 seconds
system cpu time	0.01 seconds
memory	3750.31k
OS Memory	33988.00k
Timestamp	04/20/2023 08:56:36 PM
Step Count	38 Switch Count 0
Page Faults	0
Page Reclaims	622
Page Swaps	0
Voluntary Context Switches	1
Involuntary Context Switches	0
Block Input Operations	0
Block Output Operations	80

139

```
140      /*Q2*/
141      proc logistic data=prj.cleaned descending; model weak_grip
141      ! = sex; run;
```

NOTE: PROC LOGISTIC is modeling the probability that weak_grip=1.

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

NOTE: There were 2038 observations read from the data set PRJ.CLEANED.

NOTE: PROCEDURE LOGISTIC used (Total process time):

real time	0.06 seconds
user cpu time	0.07 seconds
system cpu time	0.00 seconds
memory	2280.90k
OS Memory	32948.00k
Timestamp	04/20/2023 08:56:36 PM
Step Count	39 Switch Count 0
Page Faults	0
Page Reclaims	446
Page Swaps	0
Voluntary Context Switches	1
Involuntary Context Switches	0
Block Input Operations	0

```
142      proc logistic data=prj.cleaned descending; model weak_grip  
142      ! = smoke; run;
```

NOTE: PROC LOGISTIC is modeling the probability that weak_grip=1.
NOTE: Convergence criterion (GCONV=1E-8) satisfied.
NOTE: There were 2038 observations read from the data set PRJ.CLEANED.
NOTE: PROCEDURE LOGISTIC used (Total process time):
real time 0.06 seconds
user cpu time 0.06 seconds
system cpu time 0.01 seconds
memory 2277.53k
OS Memory 32948.00k
Timestamp 04/20/2023 08:56:37 PM
Step Count 40 Switch Count 0
Page Faults 0
Page Reclaims 193
Page Swaps 0
Voluntary Context Switches 0
Involuntary Context Switches 0
Block Input Operations 0
Block Output Operations 48

```
143      proc logistic data=prj.cleaned descending; model weak_grip  
143      ! = high_ed; run;
```

NOTE: PROC LOGISTIC is modeling the probability that weak_grip=1.
NOTE: Convergence criterion (GCONV=1E-8) satisfied.
NOTE: There were 2038 observations read from the data set PRJ.CLEANED.
NOTE: PROCEDURE LOGISTIC used (Total process time):
real time 0.06 seconds
user cpu time 0.06 seconds
system cpu time 0.00 seconds
memory 2280.53k
OS Memory 32948.00k
Timestamp 04/20/2023 08:56:37 PM
Step Count 41 Switch Count 0
Page Faults 0
Page Reclaims 195
Page Swaps 0
Voluntary Context Switches 1
Involuntary Context Switches 0
Block Input Operations 0
Block Output Operations 48

```
144      proc logistic data=prj.cleaned descending; model weak_grip  
144      ! = Age_enrollment; run;
```

NOTE: PROC LOGISTIC is modeling the probability that weak_grip=1.
NOTE: Convergence criterion (GCONV=1E-8) satisfied.
NOTE: There were 2038 observations read from the data set PRJ.CLEANED.
NOTE: PROCEDURE LOGISTIC used (Total process time):
real time 0.06 seconds
user cpu time 0.06 seconds
system cpu time 0.00 seconds
memory 2281.84k
OS Memory 32948.00k
Timestamp 04/20/2023 08:56:37 PM
Step Count 42 Switch Count 0
Page Faults 0
Page Reclaims 193
Page Swaps 0
Voluntary Context Switches 1
Involuntary Context Switches 0
Block Input Operations 0
Block Output Operations 48

```
145      proc logistic data=prj.cleaned descending; model weak_grip  
145      ! = BMI; run;
```

NOTE: PROC LOGISTIC is modeling the probability that weak_grip=1.

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

NOTE: There were 2038 observations read from the data set PRJ.CLEANED.

NOTE: PROCEDURE LOGISTIC used (Total process time):

real time	0.06 seconds
user cpu time	0.06 seconds
system cpu time	0.00 seconds
memory	2271.03k
OS Memory	32948.00k
Timestamp	04/20/2023 08:56:37 PM
Step Count	43 Switch Count 0
Page Faults	0
Page Reclaims	194
Page Swaps	0
Voluntary Context Switches	1
Involuntary Context Switches	0
Block Input Operations	0
Block Output Operations	48

```
146      proc logistic data=prj.cleaned descending; model weak_grip  
146      ! = gait_speed; run;
```

NOTE: PROC LOGISTIC is modeling the probability that weak_grip=1.

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

NOTE: There were 2038 observations read from the data set PRJ.CLEANED.

NOTE: PROCEDURE LOGISTIC used (Total process time):

real time	0.06 seconds
user cpu time	0.06 seconds
system cpu time	0.01 seconds
memory	2281.31k
OS Memory	32948.00k
Timestamp	04/20/2023 08:56:37 PM
Step Count	44 Switch Count 0
Page Faults	0
Page Reclaims	194
Page Swaps	0
Voluntary Context Switches	2
Involuntary Context Switches	0
Block Input Operations	0
Block Output Operations	48

```
147      proc logistic data=prj.cleaned descending; model weak_grip  
147      ! = fev1; run;
```

NOTE: PROC LOGISTIC is modeling the probability that weak_grip=1.

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

NOTE: There were 2038 observations read from the data set PRJ.CLEANED.

NOTE: PROCEDURE LOGISTIC used (Total process time):

real time	0.06 seconds
user cpu time	0.07 seconds
system cpu time	0.00 seconds
memory	2273.15k
OS Memory	32948.00k
Timestamp	04/20/2023 08:56:37 PM
Step Count	45 Switch Count 0
Page Faults	0
Page Reclaims	197
Page Swaps	0
Voluntary Context Switches	2
Involuntary Context Switches	0
Block Input Operations	0
Block Output Operations	48

```

148      proc logistic data=prj.cleaned descending; model weak_grip
148      ! = DSST; run;

NOTE: PROC LOGISTIC is modeling the probability that weak_grip=1.
NOTE: Convergence criterion (GCONV=1E-8) satisfied.
NOTE: There were 2038 observations read from the data set PRJ.CLEANED.
NOTE: PROCEDURE LOGISTIC used (Total process time):
      real time          0.06 seconds
      user cpu time     0.06 seconds
      system cpu time   0.00 seconds
      memory            2267.96k
      OS Memory         32948.00k
      Timestamp         04/20/2023 08:56:37 PM
      Step Count        46   Switch Count  0
      Page Faults       0
      Page Reclaims     195
      Page Swaps        0
      Voluntary Context Switches 1
      Involuntary Context Switches 0
      Block Input Operations 0
      Block Output Operations 56

149
150      proc freq data = prj.cleaned; tables weak_grip*sex / chisq;
150      ! run;

NOTE: There were 2038 observations read from the data set PRJ.CLEANED.
NOTE: PROCEDURE FREQ used (Total process time):
      real time          0.04 seconds
      user cpu time     0.04 seconds
      system cpu time   0.00 seconds
      memory            1289.37k
      OS Memory         32428.00k
      Timestamp         04/20/2023 08:56:37 PM
      Step Count        47   Switch Count  4
      Page Faults       0
      Page Reclaims     191
      Page Swaps        0
      Voluntary Context Switches 24
      Involuntary Context Switches 0
      Block Input Operations 0
      Block Output Operations 544

151      proc freq data = prj.cleaned; tables weak_grip*smoke /
151      ! chisq; run;

NOTE: There were 2038 observations read from the data set PRJ.CLEANED.
NOTE: PROCEDURE FREQ used (Total process time):
      real time          0.04 seconds
      user cpu time     0.04 seconds
      system cpu time   0.01 seconds
      memory            1293.68k
      OS Memory         32428.00k
      Timestamp         04/20/2023 08:56:37 PM
      Step Count        48   Switch Count  4
      Page Faults       0
      Page Reclaims     191
      Page Swaps        0
      Voluntary Context Switches 25
      Involuntary Context Switches 0
      Block Input Operations 0
      Block Output Operations 544

152      proc freq data = prj.cleaned; tables weak_grip*high_ed /
152      ! chisq; run;

```

NOTE: There were 2038 observations read from the data set PRJ.CLEANED.
NOTE: PROCEDURE FREQ used (Total process time):
real time 0.03 seconds
user cpu time 0.04 seconds
system cpu time 0.00 seconds
memory 1292.25k
OS Memory 32428.00k
Timestamp 04/20/2023 08:56:37 PM
Step Count 49 Switch Count 4
Page Faults 0
Page Reclaims 192
Page Swaps 0
Voluntary Context Switches 32
Involuntary Context Switches 0
Block Input Operations 0
Block Output Operations 528

153
154 /*Q3*/
155 proc phreg data=prj.cleaned;
156 model time*Mortality(0) = weak_grip sex/ rl;
157 run;

NOTE: 74 observations were deleted due either to missing or invalid values for the time, censoring, frequency or explanatory variables or to invalid operations in generating the values for some of the explanatory variables.

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

NOTE: PROCEDURE PHREG used (Total process time):

real time 0.05 seconds
user cpu time 0.05 seconds
system cpu time 0.00 seconds
memory 3056.46k
OS Memory 33468.00k
Timestamp 04/20/2023 08:56:37 PM
Step Count 50 Switch Count 0
Page Faults 0
Page Reclaims 519
Page Swaps 0
Voluntary Context Switches 1
Involuntary Context Switches 0
Block Input Operations 0
Block Output Operations 72

158 proc phreg data=prj.cleaned;
159 model time*Mortality(0) = weak_grip sex weak_grip*sex /
159 ! rl;
160 run;

NOTE: 74 observations were deleted due either to missing or invalid values for the time, censoring, frequency or explanatory variables or to invalid operations in generating the values for some of the explanatory variables.

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

NOTE: Hazard ratios that cannot be conveniently calculated or displayed are set to missing in the ParameterEstimates table. Use the HAZARDRATIO statement to compute the needed hazard ratios.

NOTE: PROCEDURE PHREG used (Total process time):

real time 0.06 seconds
user cpu time 0.06 seconds
system cpu time 0.01 seconds
memory 3075.90k
OS Memory 33468.00k
Timestamp 04/20/2023 08:56:37 PM
Step Count 51 Switch Count 0
Page Faults 0
Page Reclaims 521

```
Page Swaps          0
Voluntary Context Switches 1
Involuntary Context Switches 1
Block Input Operations 0
Block Output Operations 64
```

```
161      proc phreg data=prj.cleaned;
162          model time*Mortality(0) = weak_grip sex weak_grip*sex
162      ! smoke high_ed Age_enrollment BMI gait_speed fev1 DSST/ rl;
163      run;
```

NOTE: 590 observations were deleted due either to missing or invalid values for the time, censoring, frequency or explanatory variables or to invalid operations in generating the values for some of the explanatory variables.

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

NOTE: Hazard ratios that cannot be conveniently calculated or displayed are set to missing in the ParameterEstimates table. Use the HAZARDRATIO statement to compute the needed hazard ratios.

NOTE: PROCEDURE PHREG used (Total process time):

```
real time           0.06 seconds
user cpu time       0.06 seconds
system cpu time     0.00 seconds
memory              3746.87k
OS Memory           33988.00k
Timestamp            04/20/2023 08:56:37 PM
Step Count           52   Switch Count  0
Page Faults          0
Page Reclaims        546
Page Swaps            0
Voluntary Context Switches 1
Involuntary Context Switches 0
Block Input Operations 0
Block Output Operations 64
```

```
164      /*Q4*/
165      proc phreg zph data=prj.cleaned;
166          model time*Mortality(0) = weak_grip sex smoke high_ed
167      ! Age_enrollment BMI gait_speed fev1 DSST/ rl;
168      run;
```

NOTE: 590 observations were deleted due either to missing or invalid values for the time, censoring, frequency or explanatory variables or to invalid operations in generating the values for some of the explanatory variables.

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

NOTE: PROCEDURE PHREG used (Total process time):

```
real time           1.26 seconds
user cpu time       0.53 seconds
system cpu time     0.05 seconds
memory              6865.12k
OS Memory           35860.00k
Timestamp            04/20/2023 08:56:38 PM
Step Count           53   Switch Count  0
Page Faults          0
Page Reclaims        6148
Page Swaps            0
Voluntary Context Switches 1795
Involuntary Context Switches 2
Block Input Operations 0
Block Output Operations 2880
```

```
169      proc phreg data=prj.cleaned; model time*Mortality(0) =
170      ! weak_grip sex/ rl; run;
```

NOTE: 74 observations were deleted due either to missing or invalid values for the time, censoring, frequency or explanatory variables or to invalid operations in generating the values for some of the explanatory variables.

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

NOTE: PROCEDURE PHREG used (Total process time):

real time	0.05 seconds
user cpu time	0.05 seconds
system cpu time	0.01 seconds
memory	3063.53k
OS Memory	34492.00k
Timestamp	04/20/2023 08:56:39 PM
Step Count	54 Switch Count 0
Page Faults	0
Page Reclaims	521
Page Swaps	0
Voluntary Context Switches	1
Involuntary Context Switches	0
Block Input Operations	0
Block Output Operations	64

171 proc phreg data=prj.cleaned; model time*Mortality(0) =
171 ! weak_grip smoke/ rl; run;

NOTE: 84 observations were deleted due either to missing or invalid values for the time, censoring, frequency or explanatory variables or to invalid operations in generating the values for some of the explanatory variables.

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

NOTE: PROCEDURE PHREG used (Total process time):

real time	0.05 seconds
user cpu time	0.05 seconds
system cpu time	0.00 seconds
memory	3073.28k
OS Memory	34492.00k
Timestamp	04/20/2023 08:56:39 PM
Step Count	55 Switch Count 0
Page Faults	0
Page Reclaims	521
Page Swaps	0
Voluntary Context Switches	1
Involuntary Context Switches	0
Block Input Operations	0
Block Output Operations	64

172 proc phreg data=prj.cleaned; model time*Mortality(0) =
172 ! weak_grip high_ed/ rl; run;

NOTE: 79 observations were deleted due either to missing or invalid values for the time, censoring, frequency or explanatory variables or to invalid operations in generating the values for some of the explanatory variables.

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

NOTE: PROCEDURE PHREG used (Total process time):

real time	0.05 seconds
user cpu time	0.05 seconds
system cpu time	0.01 seconds
memory	3074.75k
OS Memory	34492.00k
Timestamp	04/20/2023 08:56:39 PM
Step Count	56 Switch Count 0
Page Faults	0
Page Reclaims	521
Page Swaps	0

```
Voluntary Context Switches      2
Involuntary Context Switches   0
Block Input Operations        0
Block Output Operations       64
```

```
173      proc phreg data=prj.cleaned; model time*Mortality(0) =
173      ! weak_grip Age_enrollment / rl; run;
```

NOTE: 74 observations were deleted due either to missing or invalid values for the time, censoring, frequency or explanatory variables or to invalid operations in generating the values for some of the explanatory variables.

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

NOTE: PROCEDURE PHREG used (Total process time):

```
real time          0.05 seconds
user cpu time     0.05 seconds
system cpu time   0.00 seconds
memory           3063.62k
OS Memory         34492.00k
Timestamp         04/20/2023 08:56:39 PM
Step Count        57  Switch Count  0
Page Faults      0
Page Reclaims    521
Page Swaps       0
Voluntary Context Switches 1
Involuntary Context Switches 0
Block Input Operations 0
Block Output Operations 48
```

```
174      proc phreg data=prj.cleaned; model time*Mortality(0) =
174      ! weak_grip BMI / rl; run;
```

NOTE: 141 observations were deleted due either to missing or invalid values for the time, censoring, frequency or explanatory variables or to invalid operations in generating the values for some of the explanatory variables.

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

NOTE: PROCEDURE PHREG used (Total process time):

```
real time          0.05 seconds
user cpu time     0.05 seconds
system cpu time   0.00 seconds
memory           3075.09k
OS Memory         34492.00k
Timestamp         04/20/2023 08:56:39 PM
Step Count        58  Switch Count  0
Page Faults      0
Page Reclaims    521
Page Swaps       0
Voluntary Context Switches 1
Involuntary Context Switches 0
Block Input Operations 0
Block Output Operations 64
```

```
175      proc phreg data=prj.cleaned; model time*Mortality(0) =
175      ! weak_grip gait_speed / rl; run;
```

NOTE: 159 observations were deleted due either to missing or invalid values for the time, censoring, frequency or explanatory variables or to invalid operations in generating the values for some of the explanatory variables.

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

NOTE: PROCEDURE PHREG used (Total process time):

```
real time          0.05 seconds
user cpu time     0.05 seconds
```

```
system cpu time      0.00 seconds
memory            3074.93k
OS Memory        34492.00k
Timestamp        04/20/2023 08:56:39 PM
Step Count          59  Switch Count  0
Page Faults        0
Page Reclaims      521
Page Swaps         0
Voluntary Context Switches 1
Involuntary Context Switches 0
Block Input Operations 0
Block Output Operations 64
```

```
176      proc phreg data=prj.cleaned; model time*Mortality(0) =
176      ! weak_grip fev1 / rl; run;
```

NOTE: 424 observations were deleted due either to missing or invalid values for the time, censoring, frequency or explanatory variables or to invalid operations in generating the values for some of the explanatory variables.

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

NOTE: PROCEDURE PHREG used (Total process time):

```
real time          0.05 seconds
user cpu time     0.05 seconds
system cpu time   0.01 seconds
memory            3054.75k
OS Memory        34492.00k
Timestamp        04/20/2023 08:56:39 PM
Step Count          60  Switch Count  0
Page Faults        0
Page Reclaims      521
Page Swaps         0
Voluntary Context Switches 1
Involuntary Context Switches 0
Block Input Operations 0
Block Output Operations 72
```

```
177      proc phreg data=prj.cleaned; model time*Mortality(0) =
177      ! weak_grip DSST / rl; run;
```

NOTE: 260 observations were deleted due either to missing or invalid values for the time, censoring, frequency or explanatory variables or to invalid operations in generating the values for some of the explanatory variables.

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

NOTE: PROCEDURE PHREG used (Total process time):

```
real time          0.05 seconds
user cpu time     0.06 seconds
system cpu time   0.00 seconds
memory            3076.50k
OS Memory        34492.00k
Timestamp        04/20/2023 08:56:39 PM
Step Count          61  Switch Count  0
Page Faults        0
Page Reclaims      521
Page Swaps         0
Voluntary Context Switches 1
Involuntary Context Switches 0
Block Input Operations 0
Block Output Operations 64
```

```
178
179
180      OPTIONS NONOTES NOSTIMER NOSOURCE NOSYNTAXCHECK;
190
```