

1. LOGISTIC, model y (event="1") = age msxage

The LOGISTIC Procedure

Conditional Analysis

Model Information		
Data Set	WORK.A	
Response Variable	y	Respiratory illness (0=no, 1=yes)
Number of Response Levels	2	
Frequency Variable	count	Number of children with this pattern
Number of Strata	32	
Number of Uninformative Strata	4	
Frequency Uninformative	1492	
Model	binary logit	
Optimization Technique	Newton-Raphson ridge	

Number of Observations Read	128
Number of Observations Used	128
Number of Observations Informative	112
Sum of Frequencies Read	2148
Sum of Frequencies Used	2148
Sum of Frequencies Informative	656

Response Profile		
Ordered Value	y	Total Frequency
1	1	326
2	0	1822

Probability modeled is y=1.

Strata Summary				
Response Pattern	y		Number of Strata	Frequency
	1	0		
1	2	2	1	4
2	3	1	1	4
3	4	4	2	16
4	6	2	3	24
5	6	6	4	48
6	9	3	1	12
7	8	8	2	32
8	12	4	2	32

The LOGISTIC Procedure

Conditional Analysis

Strata Summary				
Response Pattern	y		Number of Strata	Frequency
	1	0		
9	15	5	1	20
10	6	18	1	24
11	12	12	2	48
12	7	21	1	28
13	14	14	1	28
14	28	0	1	28
15	8	24	1	32
16	10	30	1	40
17	11	33	1	44
18	44	0	1	44
19	15	45	1	60
20	16	48	1	64
21	24	72	1	96
22	0	472	1	472
23	0	948	1	948

Newton-Raphson Ridge Optimization

Without Parameter Scaling

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

Model Fit Statistics		
Criterion	Without Covariates	With Covariates
AIC	694.841	689.355
SC	694.841	700.699
-2 Log L	694.841	685.355

Testing Global Null Hypothesis: BETA=0			
Test	Chi-Square	DF	Pr > ChiSq
Likelihood Ratio	9.4864	2	0.0087
Score	9.4218	2	0.0090
Wald	9.2927	2	0.0096

The LOGISTIC Procedure

Conditional Analysis

Analysis of Conditional Maximum Likelihood Estimates					
Parameter	DF	Estimate	Standard Error	Wald Chi-Square	Pr > ChiSq
age	1	-0.2788	0.0987	7.9752	0.0047
msxage	1	0.1390	0.1568	0.7859	0.3753

Odds Ratio Estimates			
Effect	Point Estimate	95% Wald Confidence Limits	
age	0.757	0.624	0.918
msxage	1.149	0.845	1.562

The PHREG Procedure

Model Information		
Data Set	WORK.A	
Dependent Variable	id	
Censoring Variable	y	Respiratory illness (0=no, 1=yes)
Censoring Value(s)	0	
Frequency Variable	count	Number of children with this pattern
Ties Handling	DISCRETE	

Number of Observations Read	128
Number of Observations Used	128
Sum of Frequencies Read	2148
Sum of Frequencies Used	2148

Summary of the Number of Event and Censored Values					
Stratum	id	Total	Event	Censored	Percent Censored
1	1	948	0	948	100.00
2	2	96	24	72	75.00
3	3	64	16	48	75.00
4	4	24	12	12	50.00
5	5	60	15	45	75.00
6	6	12	6	6	50.00
7	7	28	14	14	50.00
8	8	20	15	5	25.00
9	9	40	10	30	75.00
10	10	12	6	6	50.00
11	11	8	4	4	50.00
12	12	8	6	2	25.00
13	13	16	8	8	50.00
14	14	8	6	2	25.00
15	15	12	9	3	25.00
16	16	44	44	0	0.00
17	17	472	0	472	100.00
18	18	28	7	21	75.00
19	19	44	11	33	75.00
20	20	16	8	8	50.00
21	21	32	8	24	75.00
22	22	12	6	6	50.00

The PHREG Procedure

Summary of the Number of Event and Censored Values					
Stratum	id	Total	Event	Censored	Percent Censored
23	23	24	12	12	50.00
24	24	16	12	4	25.00
25	25	24	6	18	75.00
26	26	12	6	6	50.00
27	27	4	2	2	50.00
28	28	8	6	2	25.00
29	29	8	4	4	50.00
30	30	4	3	1	25.00
31	31	16	12	4	25.00
32	32	28	28	0	0.00
Total		2148	326	1822	84.82

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

Model Fit Statistics		
Criterion	Without Covariates	With Covariates
-2 LOG L	694.841	685.355
AIC	694.841	689.355
SBC	694.841	696.929

Testing Global Null Hypothesis: BETA=0			
Test	Chi-Square	DF	Pr > ChiSq
Likelihood Ratio	9.4864	2	0.0087
Score	9.4218	2	0.0090
Wald	9.2926	2	0.0096

Analysis of Maximum Likelihood Estimates							
Parameter	DF	Parameter Estimate	Standard Error	Chi-Square	Pr > ChiSq	Hazard Ratio	Label
age	1	-0.27878	0.09872	7.9751	0.0047	0.757	Age (years) - 9
msxage	1	0.13898	0.15678	0.7859	0.3754	1.149	Age x MS