The SAS System

The SURVEYLOGISTIC Procedure

Model Information				
Data Set	WORK.CHS_CLEAN			
Response Variable	didntgetcare18			
Number of Response Levels	2			
Stratum Variable	strata			
Number of Strata	68			
Weight Variable	wt19_dual			
Model	Binary Logit			
Optimization Technique Fisher's Scoring				
Variance Adjustment Degrees of Freedom (

Variance Estimation					
Method Taylor Series					
Variance Adjustment	Degrees of Freedom (DF)				

Number of Observations Read	10076
Number of Observations Used	9877
Sum of Weights Read	6670172
Sum of Weights Used	6543154

Response Profile							
Ordered Value	didntgetcare18	Total Frequency	Total Weight				
1	1	1042	727008.2				
2	2	8835	5816146.0				

Probability modeled is didntgetcare18='1'.

Note: 199 observations were deleted due to missing values for the response or explanatory variables.

Class Level Information							
Class Value Design Variables							
newrace	1	0 0 0			0		
	2	1	0	0	0		

Class Level Information							
Class	Value	Design Variables					
	3	0	1	0	0		
	4	0	0	1	0		
	5	0	0	0	1		
imputed_povertygroup	1	0	0	0	0		
	2	1	0	0	0		
	3	0	1	0	0		
	4	0	0	1	0		
	5	0	0	0	1		
birthsex	1	0					
	2	1					
agegroup	1	0	0	0			
	2	1	0	0			
	3	0	1	0			
	4	0	0	1			
education	1	0	0	0			
	2	1	0	0			
	3	0	1	0			
	4	0	0	1			

Model Convergence Status

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

Model Fit Statistics							
Criterion	Intercept and Covariates						
AIC	4564889.5	4490925.0					
SC	4564903.2	4491144.1					
-2 Log L	4564887.5	4490893.0					

Testing Global Null Hypothesis: BETA=0							
Test F Value Num DF Den DF Pr > 1							
Likelihood Ratio	7.45	14.9994	147129	<.0001			
Score	3.40	15	9795	<.0001			

Testing Global Null Hypothesis: BETA=0						
Test	F Value	Num DF	Den DF	Pr > F		
Wald	3.15	15	9795	<.0001		
				_		

NOTE: Second-order Rao-Scott design correction 0.0000 applied to the Likelihood Ratio test.

Type 3 Analysis of Effects							
Effect F Value Num DF Den DF Pr > 1							
newrace	3.02	4	9806	0.0168			
imputed_povertygroup	2.68	4	9806	0.0301			
birthsex	0.04	1	9809	0.8405			
agegroup	6.25	3	9807	0.0003			
education	0.81	3	9807	0.4899			

Analysis of Maximum Likelihood Estimates									
Parameter		Estimate	Standard Error	t Value	Pr > t				
Intercept		-2.2169	0.2828	-7.84	<.0001				
newrace	2	-0.3114	0.1494	-2.08	0.0371				
newrace	3	0.0683	0.1420	0.48	0.6306				
newrace	4	-0.2197	0.1840	-1.19	0.2325				
newrace	5	0.4669	0.3087	1.51	0.1305				
imputed_povertygroup	2	-0.1244	0.1417	-0.88	0.3799				
imputed_povertygroup	3	-0.0808	0.1437	-0.56	0.5737				
imputed_povertygroup	4	-0.2458	0.1689	-1.46	0.1457				
imputed_povertygroup	5	-0.6075	0.1937	-3.14	0.0017				
birthsex	2	-0.0206	0.1024	-0.20	0.8405				
agegroup	2	0.6267	0.1991	3.15	0.0016				
agegroup	3	0.4380	0.2044	2.14	0.0321				
agegroup	4	0.1221	0.2255	0.54	0.5883				
education	2	-0.1983	0.1597	-1.24	0.2143				
education	3	-0.00676	0.1616	-0.04	0.9666				
education	4	-0.00076	0.1591	-0.00	0.9962				
NOTE: The degree	es o	NOTE: The degrees of freedom for the t tests is 9809.							

Odds Ratio Estimates

Effect		Point Estimate	95 Confi Lin	dence
newrace 1	2 vs	0.732	0.547	0.982
newrace 1	3 vs	1.071	0.811	1.414
newrace 1	4 vs	0.803	0.560	1.151
newrace 1	5 vs	1.595	0.871	2.921
imputed_povertygrou	p 2 vs 1	0.883	0.669	1.166
imputed_povertygrou	p 3 vs 1	0.922	0.696	1.222
imputed_povertygrou	p 4 vs 1	0.782	0.562	1.089
imputed_povertygrou	p 5 vs 1	0.545	0.373	0.796
birthsex	2 vs 1	0.980	0.801	1.197
agegroup 1	2 vs	1.871	1.267	2.765
agegroup 1	3 vs	1.550	1.038	2.313
agegroup 1	4 vs	1.130	0.726	1.758
education	2 vs 1	0.820	0.600	1.122
education	3 vs 1	0.993	0.724	1.363
education	4 vs 1	0.999	0.732	1.365

NOTE: The degrees of freedom in computing the confidence limits is 9809.

Association of Predicted Probabilities and Observed Responses						
Percent Concordant	57.8	Somers' D	0.177			
Percent Discordant	40.1	Gamma	0.181			
Percent Tied	2.1	Tau-a	0.033			
Pairs	9206070	c	0.588			

The SAS System

The SURVEYLOGISTIC Procedure

Model Information				
Data Set	WORK.CHS_CLEAN			
Response Variable	pcp18			
Number of Response Levels	2			
Stratum Variable	strata			
Number of Strata	68			
Weight Variable	wt19_dual			
Model	Binary Logit			
Optimization Technique	Fisher's Scoring			
Variance Adjustment	Degrees of Freedom (DF)			

Variance Estimation					
Method Taylor Series					
Variance Adjustment	Degrees of Freedom (DF)				

Number of Observations Read	10076
Number of Observations Used	9878
Sum of Weights Read	6670172
Sum of Weights Used	6541757

Response Profile					
Ordered Value		Total Frequency	Total Weight		
1	1	8645	5511147.7		
2	2	1233	1030609.2		

Probability modeled is pcp18='1'.

Note: 198 observations were deleted due to missing values for the response or explanatory variables.

Class Level Information						
Class	Value	Design Variables				
newrace	1	0	0	0	0	

Class Level Information					
Class	Value	Design Variables			s
	2	1	0	0	0
	3	0	1	0	0
	4	0	0	1	0
	5	0	0	0	1
imputed_povertygroup	1	0	0	0	0
	2	1	0	0	0
	3	0	1	0	0
	4	0	0	1	0
	5	0	0	0	1
birthsex	1	0			
	2	1			
agegroup	1	0	0	0	
	2	1	0	0	
	3	0	1	0	
	4	0	0	1	
education	1	0	0	0	
	2	1	0	0	
	3	0	1	0	
	4	0	0	1	

Model Convergence Status

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

Model Fit Statistics						
Criterion	Intercept Only	Intercept and Covariates				
AIC	5698832.2	5183004.0				
SC	5698845.9	5183223.1				
-2 Log L	5698830.2	5182972.0				

Testing Global Null Hypothesis: BETA=0						
Test F Value Num DF Den DF Pr > F						
Likelihood Ratio	51.94	14.9996	147146	<.0001		

Testing Global Null Hypothesis: BETA=0						
Test	F Value Num DF Den DF Pr					
Score	27.65	15	9796	<.0001		
Wald	19.11	15	9796	<.0001		

NOTE: Second-order Rao-Scott design correction $0.0000 \ applied to the Likelihood <math display="inline">\begin{tabular}{ll} \hline Ratio \ test. \\ \hline \end{array}$

Type 3 Analysis of Effects						
Effect	F Value	Num DF	Den DF	Pr > F		
newrace	16.05	4	9807	<.0001		
imputed_povertygroup	2.28	4	9807	0.0581		
birthsex	48.55	1	9810	<.0001		
agegroup	50.56	3	9808	<.0001		
education	3.81	3	9808	0.0096		

Analysis of Maximum Likelihood Estimates							
Parameter		Estimate	Standard Error	t Value	Pr > t		
Intercept		0.5982	0.2034	2.94	0.0033		
newrace	2	0.1962	0.1455	1.35	0.1777		
newrace	3	-0.5924	0.1192	-4.97	<.0001		
newrace	4	0.2768	0.1703	1.63	0.1041		
newrace	5	-0.5932	0.2747	-2.16	0.0309		
imputed_povertygroup	2	0.1121	0.1305	0.86	0.3902		
imputed_povertygroup	3	0.1025	0.1357	0.76	0.4498		
imputed_povertygroup	4	0.0255	0.1535	0.17	0.8683		
imputed_povertygroup	5	0.4865	0.1741	2.79	0.0052		
birthsex	2	0.6387	0.0917	6.97	<.0001		
agegroup	2	0.1294	0.1409	0.92	0.3585		
agegroup	3	1.0565	0.1558	6.78	<.0001		
agegroup	4	1.7670	0.2031	8.70	<.0001		
education	2	0.3367	0.1385	2.43	0.0151		
education	3	0.4681	0.1464	3.20	0.0014		
education	4	0.2246	0.1434	1.57	0.1174		
NOTE: The degree	es o	f freedom	for the t te	sts is 981	0.		

Effect		Point Estimate	95 Confi Lin	dence
newrace 1	2 vs	1.217	0.915	1.618
newrace 1	3 vs	0.553	0.438	0.699
newrace 1	4 vs	1.319	0.945	1.842
newrace 1	5 vs	0.553	0.323	0.947
imputed_povertygrou	p 2 vs 1	1.119	0.866	1.445
imputed_povertygrou	p 3 vs 1	1.108	0.849	1.445
imputed_povertygrou	p 4 vs 1	1.026	0.759	1.386
imputed_povertygrou	p 5 vs 1	1.627	1.156	2.288
birthsex	2 vs 1	1.894	1.583	2.267
agegroup 1	2 vs	1.138	0.863	1.500
agegroup 1	3 vs	2.876	2.119	3.904
agegroup 1	4 vs	5.854	3.931	8.716
education	2 vs 1	1.400	1.067	1.837
education	3 vs 1	1.597	1.199	2.128
education	4 vs 1	1.252	0.945	1.658

Association of Predicted Probabilities and Observed Responses 70.7 **Somers' D** 0.423 **Percent Concordant**

NOTE: The degrees of freedom in computing the confidence limits is 9810.

Percent Discordant 28.4 **Gamma** 0.4260.092 **Percent Tied** 0.9 **Tau-a Pairs** 10659285 **c** 0.711

The SAS System

The SURVEYLOGISTIC Procedure

Model Information				
Data Set	WORK.CHS_CLEAN			
Response Variable	medcost18			
Number of Response Levels	2			
Stratum Variable	strata			
Number of Strata	68			
Weight Variable	wt19_dual			
Model	Binary Logit			
Optimization Technique	Fisher's Scoring			
Variance Adjustment	Degrees of Freedom (DF)			

Variance Estimation					
Method Taylor Series					
Variance Adjustment	Degrees of Freedom (DF)				

Number of Observations Read	10076
Number of Observations Used	8982
Sum of Weights Read	6670172
Sum of Weights Used	5773829

Response Profile						
Ordered Value	medcost18	Total Frequency	Total Weight			
1	1	831	567883.9			
2	2	8151	5205945.1			

Probability modeled is medcost18='1'.

Note: 1094 observations were deleted due to missing values for the response or explanatory variables.

Class Level Information						
Class	Value	Design Variables			s	
newrace	1	0	0	0	0	

Class Level Information					
Class	Value	Design Variables			
	2	1	0	0	0
	3	0	1	0	0
	4	0	0	1	0
	5	0	0	0	1
imputed_povertygroup	1	0	0	0	0
	2	1	0	0	0
	3	0	1	0	0
	4	0	0	1	0
	5	0	0	0	1
birthsex	1	0			
	2	1			
agegroup	1	0	0	0	
	2	1	0	0	
	3	0	1	0	
	4	0	0	1	
education	1	0	0	0	
	2	1	0	0	
	3	0	1	0	
	4	0	0	1	

Model Convergence Status

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

Model Fit Statistics						
Criterion	Intercept Only	Intercept and Covariates				
AIC	3712031.7	3592318.7				
SC	3712045.3	3592535.8				
-2 Log L	3712029.7	3592286.7				

Testing Global Null Hypothesis: BETA=0						
Test F Value Num DF Den DF Pr > F						
Likelihood Ratio	12.42	14.9993	133704	<.0001		

Testing Global Null Hypothesis: BETA=0							
Test F Value Num DF Den DF Pr >							
Score	5.56	15	8900	<.0001			
Wald	5.26	15	8900	<.0001			

NOTE: Second-order Rao-Scott design correction 0.0000 applied to the Likelihood Ratio test.

Type 3 Analysis of Effects							
Effect	F Value	Num DF	Den DF	Pr > F			
newrace	3.05	4	8911	0.0160			
imputed_povertygroup	7.42	4	8911	<.0001			
birthsex	0.82	1	8914	0.3664			
agegroup	10.04	3	8912	<.0001			
education	4.82	3	8912	0.0023			

Analysis of Maximum Likelihood Estimates							
Parameter		Estimate	Standard Error	t Value	Pr > t		
Intercept		-2.0766	0.3236	-6.42	<.0001		
newrace	2	-0.3896	0.1609	-2.42	0.0155		
newrace	3	-0.2716	0.1581	-1.72	0.0859		
newrace	4	-0.6072	0.2051	-2.96	0.0031		
newrace	5	0.2356	0.3980	0.59	0.5540		
imputed_povertygroup	2	0.2910	0.1634	1.78	0.0749		
imputed_povertygroup	3	-0.0713	0.1727	-0.41	0.6799		
imputed_povertygroup	4	-0.0435	0.1875	-0.23	0.8167		
imputed_povertygroup	5	-0.8793	0.2231	-3.94	<.0001		
birthsex	2	-0.1021	0.1131	-0.90	0.3664		
agegroup	2	0.4946	0.2238	2.21	0.0272		
agegroup	3	0.0273	0.2310	0.12	0.9060		
agegroup	4	-0.2978	0.2451	-1.21	0.2244		
education	2	-0.1264	0.2014	-0.63	0.5301		
education	3	-0.2287	0.2098	-1.09	0.2757		
education	4	0.3175	0.1985	1.60	0.1097		
NOTE: The degree	es o	f freedom	for the t te	sts is 891	4.		

Effect		Point Estimate	95% Confidence Limits	
newrace 1	2 vs	0.677	0.494	0.928
newrace 1	3 vs	0.762	0.559	1.039
newrace 1	4 vs	0.545	0.365	0.815
newrace 1	5 vs	1.266	0.580	2.762
imputed_povertygr	oup 2 vs 1	1.338	0.971	1.843
imputed_povertygr	oup 3 vs 1	0.931	0.664	1.306
imputed_povertygr	oup 4 vs 1	0.957	0.663	1.383
imputed_povertygr	oup 5 vs 1	0.415	0.268	0.643
birthsex	2 vs 1	0.903	0.723	1.127
agegroup 1	2 vs	1.640	1.057	2.543
agegroup 1	3 vs	1.028	0.653	1.616
agegroup 1	4 vs	0.742	0.459	1.200
education	2 vs 1	0.881	0.594	1.308
education	3 vs 1	0.796	0.527	1.200
education	4 vs 1	1.374	0.931	2.027

NOTE: The degrees of freedom in computing the confidence limits is 8914.

Association of Predicted Probabilities and Observed Responses						
Percent Concordant	58.9	Somers' D	0.195			
Percent Discordant	39.5	Gamma	0.198			
Percent Tied	1.6	Tau-a	0.033			
Pairs	6773481	c	0.597			