The SURVEYLOGISTIC Procedure

Model Information					
Data Set	CHIS.CHIS_DATA_BINOMIAL_ED2				
Response Variable	asthmaesc	ED/UC Asthma Visit			
Number of Response Levels	2				
Weight Variable	fnwgt0				
Model	Generalized Logit				
Optimization Technique	Newton-Raphson				

Number of Observations Read	124521
Number of Observations Used	124521
Sum of Weights Read	28246634
Sum of Weights Used	28246634

Response Profile					
Ordered Value	asthmaesc	Total Frequency	Total Weight		
1	1 Asthmatic Escalation	1095	237259		
2	2 No Asthma Escalation	123426	28009375		

Logits modeled use asthmaesc='2 No Asthma Escalation' as the reference category.

Variance Estimation				
Method Jackknife				
Replicate Weights	CHIS_DATA_BINOMIAL_ED2			
Number of Replicates	160			

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

Model Fit Statistics					
Intercept Criterion Only Covari					
AIC	2740515.8	2632239.4			
SC	2740531.0	2632330.4			
-2 Log L	2740513.8	2632227.4			

R-Square	0.0038	Max-rescaled R-Square	0.0414
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The SURVEYLOGISTIC Procedure

Testing Global Null Hypothesis: BETA=0								
Test F Value Num DF Den DF Pr > F								
Likelihood Ratio	74.61	4.5205	723.28	<.0001				
Score	13.87	5	160	<.0001				
Wald 19.03 5 160 <.0001								
	NO.	TE:						

Second-order Rao-Scott design correction 0.1061 applied to the Likelihood Ratio test.

Type 3 Analysis of Effects							
Effect	F Value	Num DF	Den DF	Pr > F			
SRSEX	29.44	1	160	<.0001			
CITIZEN2	9.76	1	160	0.0021			
race	2.00	1	160	0.1593			
pfpl	43.52	1	160	<.0001			
INS	3.39	1	160	0.0676			

	Analysis of Maximum Likelihood Estimates							
Parameter asthmaesc Estimate Standard Error t Value Pr > t Estimate								
Intercept	1 Asthmatic Escalation	-4.0011	0.4869	-8.22	<.0001			
SRSEX	1 Asthmatic Escalation	0.9409	0.1734	5.43	<.0001	3.9055		
CITIZEN2	1 Asthmatic Escalation	-0.4520	0.1447	-3.12	0.0021	-2.8450		
race	1 Asthmatic Escalation	-0.0423	0.0299	-1.41	0.1593	-0.8251		
pfpl	1 Asthmatic Escalation	-0.2372	0.0360	-6.60	<.0001	-2.9365		
INS	1 Asthmatic Escalation	-0.4783	0.2599	-1.84	0.0676	-1.3958		
	NOTE: The degrees	of freedor	m for the t t	ests is 16	0.			

Odds Ratio Estimates						
Effect	asthmaesc	Point Estimate	95% Confidence Limits			
SRSEX	1 Asthmatic Escalation	2.562	1.819	3.609		
CITIZEN2	1 Asthmatic Escalation	0.636	0.478	0.847		
race	1 Asthmatic Escalation	0.959	0.904	1.017		
pfpl	1 Asthmatic Escalation	0.789	0.735	0.847		
INS	1 Asthmatic Escalation	0.620	0.371	1.036		

NOTE:

The degrees of freedom in computing the confidence limits is 160.

The SURVEYLOGISTIC Procedure

Association of Predicted Probabilities and Observed Responses						
Percent Concordant 0.4 Somers' D 0.002						
Percent Discordant	0.2	Gamma	0.384			
Percent Tied 99.4 Tau-a 0.00						
Pairs	20101233902	С	0.501			

Estimated Covariance Matrix								
Intercept_1 SRSEX_1 CITIZEN2_1 race_1 pfpl_1 Asthmatic Asthmatic Asthmatic Escalation Escalation Escalation Escalation Escalation Escalation								
Intercept_1 Asthmatic Escalation	0.237047	-0.05123	-0.03073	-0.00586	-0.00288	-0.06304		
SRSEX_1 Asthmatic Escalation	-0.05123	0.030073	0.000114	0.000743	-0.00034	-0.00264		
CITIZEN2_1 Asthmatic Escalation	-0.03073	0.000114	0.020934	0.000771	0.001264	-0.00391		
race_1 Asthmatic Escalation	-0.00586	0.000743	0.000771	0.000894	-0.00038	0.000693		
pfpl_1 Asthmatic Escalation	-0.00288	-0.00034	0.001264	-0.00038	0.001293	-0.00096		
INS_1 Asthmatic Escalation	-0.06304	-0.00264	-0.00391	0.000693	-0.00096	0.067558		

	Estimated Correlation Matrix									
Parameter	Intercept_1 Asthmatic Escalation	SRSEX_1 Asthmatic Escalation	CITIZEN2_1 Asthmatic Escalation	race_1 Asthmatic Escalation	pfpl_1 Asthmatic Escalation	INS_1 Asthmatic Escalation				
Intercept_1 Asthmatic Escalation	1.0000	-0.6068	-0.4362	-0.4028	-0.1647	-0.4981				
SRSEX_1 Asthmatic Escalation	-0.6068	1.0000	0.0046	0.1434	-0.0539	-0.0586				
CITIZEN2_1 Asthmatic Escalation	-0.4362	0.0046	1.0000	0.1781	0.2430	-0.1039				
race_1 Asthmatic Escalation	-0.4028	0.1434	0.1781	1.0000	-0.3492	0.0892				
pfpl_1 Asthmatic Escalation	-0.1647	-0.0539	0.2430	-0.3492	1.0000	-0.1029				
INS_1 Asthmatic Escalation	-0.4981	-0.0586	-0.1039	0.0892	-0.1029	1.0000				

	Classification Table								
	Correct Incorrect			Percentages					
Prob Level	Event	Non- Event	Event	Non- Event	Correct	Sensi- tivity	Speci- ficity	Pos Pred	Neg Pred
0.000	1095	0	123E3	0	0.9	100.0	0.0	0.9	
0.020	44	114E3	9272	1051	91.7	4.0	92.5	0.5	99.1
0.040	6	121E3	1978	1089	97.5	0.5	98.4	0.3	99.1
0.060	6	122E3	1139	1089	98.2	0.5	99.1	0.5	99.1
0.080	6	123E3	898	1089	98.4	0.5	99.3	0.7	99.1
0.100	6	123E3	762	1089	98.5	0.5	99.4	0.8	99.1
0.120	6	123E3	688	1089	98.6	0.5	99.4	0.9	99.1
0.140	6	123E3	622	1089	98.6	0.5	99.5	1.0	99.1

The SURVEYLOGISTIC Procedure

	Classification Table									
	Cor	rect	Incor	rect	Percentages					
Prob Level	Event	Non- Event	Event	Non- Event	Correct	Sensi- tivity	Speci- ficity	Pos Pred	Neg Pred	
0.160	6	123E3	578	1089	98.7	0.5	99.5	1.0	99.1	
0.180	6	123E3	546	1089	98.7	0.5	99.6	1.1	99.1	
0.200	6	123E3	514	1089	98.7	0.5	99.6	1.2	99.1	
0.220	6	123E3	488	1089	98.7	0.5	99.6	1.2	99.1	
0.240	6	123E3	463	1089	98.8	0.5	99.6	1.3	99.1	
0.260	6	123E3	447	1089	98.8	0.5	99.6	1.3	99.1	
0.280	6	123E3	441	1089	98.8	0.5	99.6	1.3	99.1	
0.300	6	123E3	430	1089	98.8	0.5	99.7	1.4	99.1	
0.320	6	123E3	413	1089	98.8	0.5	99.7	1.4	99.1	
0.340	6	123E3	404	1089	98.8	0.5	99.7	1.5	99.1	
0.360	6	123E3	393	1089	98.8	0.5	99.7	1.5	99.1	
0.380	6	123E3	387	1089	98.8	0.5	99.7	1.5	99.1	
0.400	6	123E3	372	1089	98.8	0.5	99.7	1.6	99.1	
0.420	6	123E3	363	1089	98.8	0.5	99.7	1.6	99.1	
0.440	6	123E3	358	1089	98.8	0.5	99.7	1.6	99.1	
0.460	6	123E3	346	1089	98.8	0.5	99.7	1.7	99.1	
0.480	6	123E3	340	1089	98.9	0.5	99.7	1.7	99.1	
0.500	6	123E3	338	1089	98.9	0.5	99.7	1.7	99.1	
0.520	6	123E3	327	1089	98.9	0.5	99.7	1.8	99.1	
0.540	6	123E3	322	1089	98.9	0.5	99.7	1.8	99.1	
0.560	6	123E3	318	1089	98.9	0.5	99.7	1.9	99.1	
0.580	6	123E3	309	1089	98.9	0.5	99.7	1.9	99.1	
0.600	6	123E3	304	1089	98.9	0.5	99.8	1.9	99.1	
0.620	6	123E3	300	1089	98.9	0.5	99.8	2.0	99.1	
0.640	6	123E3	294	1089	98.9	0.5	99.8	2.0	99.1	
0.660	6	123E3	290	1089	98.9	0.5	99.8	2.0	99.1	
0.680	6	123E3	284	1089	98.9	0.5	99.8	2.1	99.1	
0.700	6	123E3	276	1089	98.9	0.5	99.8	2.1	99.1	
0.720	6	123E3	274	1089	98.9	0.5	99.8	2.1	99.1	
0.740	6	123E3	267	1089	98.9	0.5	99.8	2.2	99.1	
0.760	6	123E3	261	1089	98.9	0.5	99.8	2.2	99.1	
0.780	6	123E3	258	1089	98.9	0.5	99.8	2.3	99.1	
0.800	6	123E3	256	1089	98.9	0.5	99.8	2.3	99.1	
0.820	6	123E3	251	1089	98.9	0.5	99.8	2.3	99.1	
0.840	6	123E3	242	1089	98.9	0.5	99.8	2.4	99.1	

The SURVEYLOGISTIC Procedure

	Classification Table								
	Cor	rect	Inco	rect		Percentages			
Prob Level	Event	Non- Event	Event	Non- Event	Correct	Sensi- tivity	Speci- ficity	Pos Pred	Neg Pred
0.860	6	123E3	236	1089	98.9	0.5	99.8	2.5	99.1
0.880	6	123E3	225	1089	98.9	0.5	99.8	2.6	99.1
0.900	6	123E3	213	1089	99.0	0.5	99.8	2.7	99.1
0.920	6	123E3	209	1089	99.0	0.5	99.8	2.8	99.1
0.940	6	123E3	202	1089	99.0	0.5	99.8	2.9	99.1
0.960	6	123E3	186	1089	99.0	0.5	99.8	3.1	99.1
0.980	6	123E3	169	1089	99.0	0.5	99.9	3.4	99.1
1.000	0	123E3	0	1095	99.1	0.0	100.0		99.1

The SURVEYLOGISTIC Procedure

Domain Analysis for domain analyzeData=1

Model Information					
Data Set	CHIS.CHIS_DATA_BINOMIAL_ED2				
Response Variable	asthmaesc	ED/UC Asthma Visit			
Number of Response Levels	2				
Weight Variable	fnwgt0				
Model	Generalized Logit				
Optimization Technique	Newton-Raphson				

Number of Observations Read	124521
Number of Observations Used	124521
Sum of Weights Read	2765889
Sum of Weights Used	2765889

Response Profile						
Ordered Value	asthmaesc	Total Frequency	Total Weight			
1	1 Asthmatic Escalation	1095	237258.9			
2	2 No Asthma Escalation	12495	2528630.5			

Logits modeled use asthmaesc='2 No Asthma Escalation' as the reference category.

Domain Summary				
Number of Observations	124521			
Number of Observations in Domain	13590			
Number of Observations not in Domain	110931			
Sum of Weights in Domain	2765889.4			

Variance Estimation				
Method	Jackknife			
Replicate Weights	CHIS_DATA_BINOMIAL_ED2			
Number of Replicates	160			

Model Convergence Status

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

The SURVEYLOGISTIC Procedure

Domain Analysis for domain analyzeData=1

Model Fit Statistics					
Criterion	Intercept Criterion Only Co				
AIC	1618958.7	1572238.7			
SC	1618971.5	1572315.7			
-2 Log L	1618956.7	1572226.7			

R-Square	0.0168	Max-rescaled R-Square	0.0378
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Testing Global Null Hypothesis: BETA=0							
Test	F Value	Num DF	Den DF	Pr > F			
Likelihood Ratio	36.53	4.5071	721.13	<.0001			
Score	7.85	5	160	<.0001			
Wald	10.75	5	160	<.0001			
	NO	TC.					

Second-order Rao-Scott design correction 0.1094 applied to the Likelihood Ratio test.

Type 3 Analysis of Effects								
Effect	F Value	Num DF	Den DF	Pr > F				
SRSEX	9.44	1	160	0.0025				
CITIZEN2	0.09	1	160	0.7619				
race	7.58	1	160	0.0066				
pfpl	20.48	1	160	<.0001				
INS	0.46	1	160	0.4971				

	Analysis of Maximum Likelihood Estimates									
Parameter	asthmaesc	Estimate	Standard Error	t Value	Pr > t	Standardized Estimate				
Intercept	1 Asthmatic Escalation	-2.1557	0.5125	-4.21	<.0001					
SRSEX	1 Asthmatic Escalation	0.5459	0.1777	3.07	0.0025	0.6873				
CITIZEN2	1 Asthmatic Escalation	0.0440	0.1449	0.30	0.7619	0.0678				
race	1 Asthmatic Escalation	-0.0790	0.0287	-2.75	0.0066	-0.4760				
pfpl	1 Asthmatic Escalation	-0.1606	0.0355	-4.53	<.0001	-0.6557				
INS	1 Asthmatic Escalation	-0.1892	0.2780	-0.68	0.4971	-0.1433				
	NOTE: The degrees of freedom for the t tests is 160.									

The SURVEYLOGISTIC Procedure

Domain Analysis for domain analyzeData=1

Odds Ratio Estimates								
Effect	asthmaesc	Point Estimate	95 Confid Lin					
SRSEX	1 Asthmatic Escalation	1.726	1.215	2.452				
CITIZEN2	1 Asthmatic Escalation	1.045	0.785	1.391				
race	1 Asthmatic Escalation	0.924	0.873	0.978				
pfpl	1 Asthmatic Escalation	0.852	0.794	0.913				
INS	1 Asthmatic Escalation	0.828	0.478	1.433				
NOTE: The degrees of freedom in computing the confidence limits is 160.								

Association of Predicted Probabilities and Observed Responses								
Percent Concordant 55.2 Somers' D 0.224								
Percent Discordant	32.8	Gamma	0.254					
Percent Tied 12.0 Tau-a 0.0								
Pairs	13682025	С	0.612					

Estimated Covariance Matrix										
Parameter	Intercept_1 Asthmatic Escalation	SRSEX_1 Asthmatic Escalation	CITIZEN2_1 Asthmatic Escalation	race_1 Asthmatic Escalation	pfpl_1 Asthmatic Escalation	INS_1 Asthmatic Escalation				
Intercept_1 Asthmatic Escalation	0.262626	-0.05404	-0.03054	-0.00643	-0.00348	-0.0773				
SRSEX_1 Asthmatic Escalation	-0.05404	0.031577	-0.00085	0.000687	-0.00025	-0.00138				
CITIZEN2_1 Asthmatic Escalation	-0.03054	-0.00085	0.021001	0.001006	0.001073	-0.0029				
race_1 Asthmatic Escalation	-0.00643	0.000687	0.001006	0.000824	-0.0002	0.000652				
pfpl_1 Asthmatic Escalation	-0.00348	-0.00025	0.001073	-0.0002	0.001259	-0.00095				
INS_1 Asthmatic Escalation	-0.0773	-0.00138	-0.0029	0.000652	-0.00095	0.077297				

Estimated Correlation Matrix										
Parameter	Intercept_1 Asthmatic Escalation	SRSEX_1 Asthmatic Escalation	CITIZEN2_1 Asthmatic Escalation	race_1 Asthmatic Escalation	pfpl_1 Asthmatic Escalation	INS_1 Asthmatic Escalation				
Intercept_1 Asthmatic Escalation	1.0000	-0.5934	-0.4112	-0.4372	-0.1912	-0.5425				
SRSEX_1 Asthmatic Escalation	-0.5934	1.0000	-0.0330	0.1347	-0.0393	-0.0280				
CITIZEN2_1 Asthmatic Escalation	-0.4112	-0.0330	1.0000	0.2418	0.2088	-0.0719				
race_1 Asthmatic Escalation	-0.4372	0.1347	0.2418	1.0000	-0.2002	0.0817				
pfpl_1 Asthmatic Escalation	-0.1912	-0.0393	0.2088	-0.2002	1.0000	-0.0962				
INS_1 Asthmatic Escalation	-0.5425	-0.0280	-0.0719	0.0817	-0.0962	1.0000				

The SURVEYLOGISTIC Procedure

Domain Analysis for domain analyzeData=1

	Classification Table										
	Cor	rect	Incor	rect	Percentages						
Prob Level	Event	Non- Event	Event	Non- Event	Correct	Sensi- tivity	Speci- ficity	Pos Pred	Neg Pred		
0.000	1095	0	123E3	0	0.9	100.0	0.0	0.9			
0.020	658	1080	122E3	437	1.4	60.1	0.9	0.5	71.2		
0.040	519	3911	12E4	576	3.6	47.4	3.2	0.4	87.2		
0.060	365	38293	85133	730	31.0	33.3	31.0	0.4	98.1		
0.080	251	82305	41121	844	66.3	22.9	66.7	0.6	99.0		
0.100	213	97886	25540	882	78.8	19.5	79.3	0.8	99.1		
0.120	189	11E4	13567	906	88.4	17.3	89.0	1.4	99.2		
0.140	167	114E3	9344	928	91.8	15.3	92.4	1.8	99.2		
0.160	161	115E3	7927	934	92.9	14.7	93.6	2.0	99.2		
0.180	157	118E3	5284	938	95.0	14.3	95.7	2.9	99.2		
0.200	154	12E4	3015	941	96.8	14.1	97.6	4.9	99.2		
0.220	154	122E3	1204	941	98.3	14.1	99.0	11.3	99.2		
0.240	154	122E3	1091	941	98.4	14.1	99.1	12.4	99.2		
0.260	154	122E3	1005	941	98.4	14.1	99.2	13.3	99.2		
0.280	154	122E3	942	941	98.5	14.1	99.2	14.1	99.2		
0.300	154	123E3	874	941	98.5	14.1	99.3	15.0	99.2		
0.320	154	123E3	819	941	98.6	14.1	99.3	15.8	99.2		
0.340	154	123E3	778	941	98.6	14.1	99.4	16.5	99.2		
0.360	154	123E3	747	941	98.6	14.1	99.4	17.1	99.2		
0.380	154	123E3	724	941	98.7	14.1	99.4	17.5	99.2		
0.400	154	123E3	686	941	98.7	14.1	99.4	18.3	99.2		
0.420	154	123E3	665	941	98.7	14.1	99.5	18.8	99.2		
0.440	154	123E3	638	941	98.7	14.1	99.5	19.4	99.2		
0.460	154	123E3	618	941	98.7	14.1	99.5	19.9	99.2		
0.480	154	123E3	593	941	98.8	14.1	99.5	20.6	99.2		
0.500	154	123E3	571	941	98.8	14.1	99.5	21.2	99.2		
0.520	154	123E3	557	941	98.8	14.1	99.5	21.7	99.2		
0.540	154	123E3	541	941	98.8	14.1	99.6	22.2	99.2		
0.560	154	123E3	528	941	98.8	14.1	99.6	22.6	99.2		
0.580	154	123E3	512	941	98.8	14.1	99.6	23.1	99.2		
0.600	154	123E3	500	941	98.8	14.1	99.6	23.5	99.2		
0.620	154	123E3	486	941	98.9	14.1	99.6	24.1	99.2		
0.640	154	123E3	474	941	98.9	14.1	99.6	24.5	99.2		
0.660	154	123E3	459	941	98.9	14.1	99.6	25.1	99.2		

The SURVEYLOGISTIC Procedure

Domain Analysis for domain analyzeData=1

	Classification Table										
	Correct Incorrect			rect	Percentages						
Prob Level	Event	Non- Event	Event	Non- Event	Correct	Sensi- tivity	Speci- ficity	Pos Pred	Neg Pred		
0.680	154	123E3	443	941	98.9	14.1	99.6	25.8	99.2		
0.700	154	123E3	432	941	98.9	14.1	99.6	26.3	99.2		
0.720	154	123E3	418	941	98.9	14.1	99.7	26.9	99.2		
0.740	154	123E3	409	941	98.9	14.1	99.7	27.4	99.2		
0.760	154	123E3	395	941	98.9	14.1	99.7	28.1	99.2		
0.780	154	123E3	381	941	98.9	14.1	99.7	28.8	99.2		
0.800	154	123E3	373	941	98.9	14.1	99.7	29.2	99.2		
0.820	154	123E3	361	941	99.0	14.1	99.7	29.9	99.2		
0.840	154	123E3	350	941	99.0	14.1	99.7	30.6	99.2		
0.860	154	123E3	338	941	99.0	14.1	99.7	31.3	99.2		
0.880	154	123E3	319	941	99.0	14.1	99.7	32.6	99.2		
0.900	154	123E3	301	941	99.0	14.1	99.8	33.8	99.2		
0.920	154	123E3	283	941	99.0	14.1	99.8	35.2	99.2		
0.940	154	123E3	259	941	99.0	14.1	99.8	37.3	99.2		
0.960	154	123E3	235	941	99.1	14.1	99.8	39.6	99.2		
0.980	153	123E3	202	942	99.1	14.0	99.8	43.1	99.2		
1.000	0	123E3	0	1095	99.1	0.0	100.0		99.1		