## The SURVEYLOGISTIC Procedure

Model Information					
Data Set	CHIS.CHIS_DATA_BINOMIAL_C				
Response Variable	nonasthmatic	Non-Asthmatic			
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	nonasthmatic	Total Frequency	Total Weight		
1	1 Non-Asthmatic	110931	25480744		
2	2 Current Asthmatic	13590	2765889		

Logits modeled use nonasthmatic='1 Non-Asthmatic' as the reference category.

Variance Estimation			
Method Jackknife			
Replicate Weights	CHIS_DATA_BINOMIAL_C		
Number of Replicates	160		

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

Model Fit Statistics						
Criterion	Intercept Only	Intercept and Covariates				
AIC	18105355	17539060				
SC	18105370	17539151				
-2 Log L	18105353	17539048				

	R-Square	0.0198	Max-rescaled R-Square	0.0419
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### The SURVEYLOGISTIC Procedure

Testing Global Null Hypothesis: BETA=0						
Test F Value Num DF Den DF Pr > F						
Likelihood Ratio	395.63	4.5402	726.44	<.0001		
Score	111.03	5	160	<.0001		
Wald	85.61	5	160	<.0001		

#### NOTE:

Second-order Rao-Scott design correction 0.1013 applied to the Likelihood Ratio test.

Type 3 Analysis of Effects						
Effect	Pr > F					
SRSEX	96.07	1	160	<.0001		
CITIZEN2	175.67	1	160	<.0001		
race	12.52	1	160	0.0005		
pfpl	53.88	1	160	<.0001		
INS	19.68	1	160	<.0001		

Analysis of Maximum Likelihood Estimates						
Parameter	nonasthmatic	Estimate	Standard Error	t Value	Pr >  t	Standardized Estimate
Intercept	2 Current Asthmatic	-1.5875	0.1547	-10.26	<.0001	
SRSEX	2 Current Asthmatic	0.4781	0.0488	9.80	<.0001	1.9843
CITIZEN2	2 Current Asthmatic	-0.5376	0.0406	-13.25	<.0001	-3.3835
race	2 Current Asthmatic	0.0346	0.00979	3.54	0.0005	0.6758
pfpl	2 Current Asthmatic	-0.1055	0.0144	-7.34	<.0001	-1.3060
INS	2 Current Asthmatic	-0.2932	0.0661	-4.44	<.0001	-0.8557
	NOTE: The degrees of freedom for the t tests is 160.					

Odds Ratio Estimates						
Effect	nonasthmatic	Point Estimate	95% Confidence Limits			
SRSEX	2 Current Asthmatic	1.613	1.465	1.776		
CITIZEN2	2 Current Asthmatic	0.584	0.539	0.633		
race	2 Current Asthmatic	1.035	1.015	1.055		
pfpl	2 Current Asthmatic	0.900	0.875	0.926		
INS	2 Current Asthmatic	0.746	0.655	0.850		

#### NOTE:

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

## The SURVEYLOGISTIC Procedure

Association of Predicted Probabilities and Observed Responses						
Percent Concordant 38.5 Somers' D 0.156						
Percent Discordant	22.9	Gamma	0.255			
Percent Tied	38.6	Tau-a	0.040			
Pairs	2118195681.5	С	0.578			

Estimated Covariance Matrix							
Parameter	Intercept_2 Current Asthmatic	CITIZEN2_2 Current Asthmatic	race_2 Current Asthmatic	pfpl_2 Current Asthmatic	INS_2 Current Asthmatic		
Intercept_2 Current Asthmatic	0.023936	-0.00459	-0.00271	-0.00025	-0.00117	-0.00557	
SRSEX_2 Current Asthmatic	-0.00459	0.002379	0.000236	-0.00005	0.000123	0.000078	
CITIZEN2_2 Current Asthmatic	-0.00271	0.000236	0.001645	0.000086	0.000074	-0.00037	
race_2 Current Asthmatic	-0.00025	-0.00005	0.000086	0.000096	-0.00005	-0.00003	
pfpl_2 Current Asthmatic	-0.00117	0.000123	0.000074	-0.00005	0.000207	0.000213	
INS_2 Current Asthmatic	-0.00557	0.000078	-0.00037	-0.00003	0.000213	0.004369	

Estimated Correlation Matrix								
Parameter	Intercept_2 Current Asthmatic	SRSEX_2 Current Asthmatic	CITIZEN2_2 Current Asthmatic	race_2 Current Asthmatic	pfpl_2 Current Asthmatic	INS_2 Current Asthmatic		
Intercept_2 Current Asthmatic	1.0000	-0.6082	-0.4318	-0.1634	-0.5240	-0.5449		
SRSEX_2 Current Asthmatic	-0.6082	1.0000	0.1193	-0.0955	0.1756	0.0243		
CITIZEN2_2 Current Asthmatic	-0.4318	0.1193	1.0000	0.2160	0.1275	-0.1392		
race_2 Current Asthmatic	-0.1634	-0.0955	0.2160	1.0000	-0.3529	-0.0526		
pfpl_2 Current Asthmatic	-0.5240	0.1756	0.1275	-0.3529	1.0000	0.2240		
INS_2 Current Asthmatic	-0.5449	0.0243	-0.1392	-0.0526	0.2240	1.0000		

Classification Table									
Correct Incorrect Percentages									
Prob Level	Event	Non- Event	Event	Non- Event	Correct	Sensi- tivity	Speci- ficity	Pos Pred	Neg Pred
0.852	25	111E3	249	13565	88.9	0.2	99.8	9.1	89.1

## The SURVEYLOGISTIC Procedure

## Domain Analysis for domain analyzeData=1

Model Information					
Data Set	CHIS.CHIS_DATA_BINOMIAL_C				
Response Variable	nonasthmatic	Non-Asthmatic			
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	26984609
Sum of Weights Used	26984609

Response Profile						
Ordered Value	nonasthmatic	Total Frequency	Total Weight			
1	1 Non-Asthmatic	106120	24218720			
2	2 Current Asthmatic	13590	2765889			

## Logits modeled use nonasthmatic='1 Non-Asthmatic' as the reference category.

Domain Summary				
Number of Observations	124521			
Number of Observations in Domain	119710			
Number of Observations not in Domain	4811			
Sum of Weights in Domain	26984609			

Variance Estimation					
Method Jackknife					
Replicate Weights	CHIS_DATA_BINOMIAL_C				
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					
Intercept Criterion Only Covaria					
AIC	17838929	17257360			
SC	17838944	17257451			
-2 Log L	17838927	17257348			

R-Square	0.0213	Max-rescaled R-Square	0.0441
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Testing Global Null Hypothesis: BETA=0						
Test F Value Num DF Den DF Pr > F						
Likelihood Ratio	406.87	4.5442	727.07	<.0001		
Score	114.18	5	160	<.0001		
Wald	86.22	5	160	<.0001		
	NO	TC.				

Second-order Rao-Scott design correction 0.1003 applied to the Likelihood Ratio test.

Type 3 Analysis of Effects									
Effect	F Value	Num DF	Den DF	Pr > F					
SRSEX	88.93	1	160	<.0001					
CITIZEN2	188.50	1	160	<.0001					
race	11.35	1	160	0.0009					
pfpl	51.18	1	160	<.0001					
INS	20.13	1	160	<.0001					

Analysis of Maximum Likelihood Estimates									
Parameter	nonasthmatic	Estimate	Standard Error	t Value	Pr >  t	Standardized Estimate			
Intercept	2 Current Asthmatic	-1.4716	0.1546	-9.52	<.0001				
SRSEX	2 Current Asthmatic	0.4610	0.0489	9.43	<.0001	1.8700			
CITIZEN2	2 Current Asthmatic	-0.5596	0.0408	-13.73	<.0001	-3.4680			
race	2 Current Asthmatic	0.0332	0.00985	3.37	0.0009	0.6326			
pfpl	2 Current Asthmatic	-0.1043	0.0146	-7.15	<.0001	-1.2670			
INS	2 Current Asthmatic	-0.2977	0.0663	-4.49	<.0001	-0.8522			
	NOTE: The degrees of freedom for the t tests is 160.								

## The SURVEYLOGISTIC Procedure

## Domain Analysis for domain analyzeData=1

Odds Ratio Estimates									
Effect	nonasthmatic	Point Estimate	95 Confid Lin	dence					
SRSEX	2 Current Asthmatic	1.586	1.440	1.746					
CITIZEN2	2 Current Asthmatic	0.571	0.527	0.619					
race	2 Current Asthmatic	1.034	1.014	1.054					
pfpl	2 Current Asthmatic	0.901	0.875	0.927					
INS	2 Current Asthmatic	0.743	0.651	0.847					
NOTE: The degrees of freedom in computing the confidence limits is 160.									

Association of Predicted Probabilities and Observed Responses								
Percent Concordant 54.3 Somers' D 0.222								
Percent Discordant	32.0	Gamma	0.258					
Percent Tied	Tau-a	0.045						
Pairs	1442170800	С	0.611					

Estimated Covariance Matrix										
Parameter	Intercept_2 Current Asthmatic	SRSEX_2 Current Asthmatic	CITIZEN2_2 Current Asthmatic	race_2 Current Asthmatic	pfpl_2 Current Asthmatic	INS_2 Current Asthmatic				
Intercept_2 Current Asthmatic	0.02389	-0.0046	-0.0027	-0.00025	-0.00118	-0.0055				
SRSEX_2 Current Asthmatic	-0.0046	0.00239	0.000241	-0.00004	0.000124	0.000049				
CITIZEN2_2 Current Asthmatic	-0.0027	0.000241	0.001661	0.000087	0.000078	-0.00041				
race_2 Current Asthmatic	-0.00025	-0.00004	0.000087	0.000097	-0.00005	-0.00004				
pfpl_2 Current Asthmatic	-0.00118	0.000124	0.000078	-0.00005	0.000212	0.000207				
INS_2 Current Asthmatic	-0.0055	0.000049	-0.00041	-0.00004	0.000207	0.004402				

Estimated Correlation Matrix										
Parameter	Intercept_2 Current Asthmatic	SRSEX_2 Current Asthmatic	CITIZEN2_2 Current Asthmatic	race_2 Current Asthmatic	pfpl_2 Current Asthmatic	INS_2 Current Asthmatic				
Intercept_2 Current Asthmatic	1.0000	-0.6083	-0.4285	-0.1673	-0.5233	-0.5360				
SRSEX_2 Current Asthmatic	-0.6083	1.0000	0.1209	-0.0845	0.1746	0.0152				
CITIZEN2_2 Current Asthmatic	-0.4285	0.1209	1.0000	0.2174	0.1309	-0.1509				
race_2 Current Asthmatic	-0.1673	-0.0845	0.2174	1.0000	-0.3538	-0.0563				
pfpl_2 Current Asthmatic	-0.5233	0.1746	0.1309	-0.3538	1.0000	0.2139				
INS_2 Current Asthmatic	-0.5360	0.0152	-0.1509	-0.0563	0.2139	1.0000				

## The SURVEYLOGISTIC Procedure

## Domain Analysis for domain analyzeData=1

	Classification Table									
Correct Incorrect Percentages										
Prob Level	Event	Non- Event	Event	Non- Event	Correct	Sensi- tivity	Speci- ficity	Pos Pred	Neg Pred	
0.852	27	111E3	278	13563	88.9	0.2	99.7	8.9	89.1	