PROC SURVEYLOGISTIC - CHIS.CHIS_DATA_BINOMIAL - Model B

The SURVEYLOGISTIC Procedure

Model Information		
Data Set	CHIS.CHIS_DATA_BINOMIAL	
Response Variable	nonasthmatic	Non-Asthmatic
Number of Response Levels	2	
Weight Variable	fnwgt0	
Model	Generalized Logit	
Optimization Technique	Newton-Raphson	

Number of Observations Read	119710
Number of Observations Used	119710
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.

Class Level Information						
Class	Value	Design Variables				
SRSEX	Female	1				
	Male	-1				
lateradult	Later Adult	-1				
	Young / Middle Aged	1				
CITIZEN2	Naturalized Citizen	-1	-1			
	Non-Citizen	1	0			
	US-Born Citizen	0	1			
race	African American	1	0	0	0	0
	American Indian / Alaska Native	0	1	0	0	0
	Asian	0	0	1	0	0
	Latino	0	0	0	1	0
	Multiracial / Other	0	0	0	0	1
	White	-1	-1	-1	-1	-1
childhh	Children in HH	-1				
	No Children in HH	1				
rcbmi	Not Overweight 0-24.99	-1	-1			
	Obese 30.0+	1	0			
	Overweight 25.0-29.99	0	1			

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Class Level Information			
Class	**Value**	**Design Variables**	
DSTRS12	No	-1	
	Yes	1	
pfpl	0-99% FPL	1	
	100% FPL and Above	-1	
INS	No	-1	
	Yes	1	

Variance Estimation	
Method	Jackknife
Replicate Weights	CHIS_DATA_BINOMIAL
Number of Replicates	160

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

Model Fit Statistics		
Criterion	**Intercept Only**	**Intercept and Covariates**
AIC	17838929	16913849
SC	17838944	16914091
-2 Log L	17838927	16913817

R-Square	0.0337	Max-rescaled R-Square	0.0697

Testing Global Null Hypothesis: BETA=0				
Test	**F Value**	**Num DF**	**Den DF**	**Pr > F**
Likelihood Ratio	221.88	13.0771	2092.33	<.0001
Score	49.28	15	160	<.0001
Wald	49.72	15	160	<.0001
NOTE: Second-order Rao-Scott design correction 0.1470 applied to the Likelihood Ratio test.				

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Type 3 Analysis of Effects				
Effect	F Value	Num DF	Den DF	Pr > F
SRSEX	98.17	1	160	<.0001
lateradult	8.21	1	160	0.0047
CITIZEN2	75.64	2	160	<.0001
race	8.93	5	160	<.0001
childhh	14.48	1	160	0.0002
rcbmi	79.75	2	160	<.0001
DSTRS12	128.28	1	160	<.0001
pfpl	23.63	1	160	<.0001
INS	28.71	1	160	<.0001

Analysis of Maximum Likelihood Estimates							
Parameter		nonasthmatic	Estimate	Standard Error	t Value	Pr > |t|	Standardized Estimate
Intercept		2 Current Asthmatic	-2.1870	0.0551	-39.72	<.0001	
SRSEX	Female	2 Current Asthmatic	0.2458	0.0248	9.91	<.0001	2.0336
lateradult	Young / Middle Aged	2 Current Asthmatic	0.0742	0.0259	2.86	0.0047	0.4570
CITIZEN2	Non-Citizen	2 Current Asthmatic	-0.3898	0.0572	-6.81	<.0001	-1.8945
CITIZEN2	US-Born Citizen	2 Current Asthmatic	0.5129	0.0417	12.29	<.0001	3.3053
race	African American	2 Current Asthmatic	0.0227	0.0678	0.34	0.7379	0.1104
race	American Indian / Alaska Native	2 Current Asthmatic	0.3480	0.1329	2.62	0.0097	1.4507
race	Asian	2 Current Asthmatic	-0.1676	0.0833	-2.01	0.0460	-0.9645
race	Latino	2 Current Asthmatic	-0.3100	0.0495	-6.27	<.0001	-2.2522
race	Multiracial / Other	2 Current Asthmatic	0.2291	0.0995	2.30	0.0226	1.0206
childhh	No Children in HH	2 Current Asthmatic	0.0954	0.0251	3.80	0.0002	0.7327
rcbmi	Obese 30.0+	2 Current Asthmatic	0.3476	0.0300	11.58	<.0001	2.2873
rcbmi	Overweight 25.0-29.99	2 Current Asthmatic	-0.0773	0.0290	-2.66	0.0086	-0.5492
DSTRS12	Yes	2 Current Asthmatic	0.3544	0.0313	11.33	<.0001	1.5918
pfpl	0-99% FPL	2 Current Asthmatic	0.1414	0.0291	4.86	<.0001	0.8763
INS	Yes	2 Current Asthmatic	0.1828	0.0341	5.36	<.0001	1.0674
NOTE: The degrees of freedom for the t tests is 160.							

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Odds Ratio Estimates				
Effect	nonasthmatic	Point Estimate	95% Confidence Limits	
SRSEX Female vs Male	2 Current Asthmatic	1.635	1.482	1.803
lateradult Young / Middle Aged vs Later Adult	2 Current Asthmatic	1.160	1.047	1.285
CITIZEN2 Non-Citizen vs Naturalized Citizen	2 Current Asthmatic	0.766	0.630	0.931
CITIZEN2 US-Born Citizen vs Naturalized Citizen	2 Current Asthmatic	1.889	1.638	2.178
race African American vs White	2 Current Asthmatic	1.156	0.994	1.344
race American Indian / Alaska Native vs White	2 Current Asthmatic	1.600	1.181	2.169
race Asian vs White	2 Current Asthmatic	0.956	0.798	1.144
race Latino vs White	2 Current Asthmatic	0.829	0.744	0.924
race Multiracial / Other vs White	2 Current Asthmatic	1.421	1.143	1.766
childhh No Children in HH vs Children in HH	2 Current Asthmatic	1.210	1.096	1.336
rcbmi Obese 30.0+ vs Not Overweight 0-24.99	2 Current Asthmatic	1.855	1.683	2.044
rcbmi Overweight 25.0-29.99 vs Not Overweight 0-24.99	2 Current Asthmatic	1.213	1.105	1.332
DSTRS12 Yes vs No	2 Current Asthmatic	2.032	1.795	2.299
pfpl 0-99% FPL vs 100% FPL and Above	2 Current Asthmatic	1.327	1.183	1.488
INS Yes vs No	2 Current Asthmatic	1.441	1.260	1.649
NOTE: The degrees of freedom in computing the confidence limits is 160.				

Association of Predicted Probabilities and Observed Responses			
Percent Concordant	63.8	Somers' D	0.301
Percent Discordant	33.7	Gamma	0.308
Percent Tied	2.5	Tau-a	0.061
Pairs	1442170800	c	0.650

PROC SURVEYLOGISTIC - CHIS.CHIS_DATA_BINOMIAL - Model B

The SURVEYLOGISTIC Procedure

	Estimated Covariance Matrix				
Parameter	**Intercept_2 Current Asthmatic**	**SRSEXFemale_2 Current Asthmatic**	**lateradultYoung / Middle Aged_2**	**CITIZEN2Non-Citizen_2 Current As**	**CITIZEN2US-Born Citizen_2 Curren**
Intercept_2 Current Asthmatic	0.003031	-0.00015	-0.00061	0.000267	-0.00073
SRSEXFemale_2 Current Asthmatic	-0.00015	0.000615	-0.00004	-0.00003	-0.00017
lateradultYoung / Middle Aged_2	-0.00061	-0.00004	0.00067	0.000047	7.614E-6
CITIZEN2Non-Citizen_2 Current As	0.000267	-0.00003	0.000047	0.003277	-0.00126
CITIZEN2US-Born Citizen_2 Curren	-0.00073	-0.00017	7.614E-6	-0.00126	0.00174
raceAfrican American_2 Current A	-0.00008	0.000219	0.000048	0.000518	-0.00043
raceAmerican Indian / Alaska Nat	0.002251	-0.00027	0.000021	-0.00044	0.000355
raceAsian_2 Current Asthmatic	-0.00086	0.000053	-0.0001	-0.00053	0.000823
raceLatino_2 Current Asthmatic	-0.00093	0.000121	-0.00018	0.000321	0.000088
raceMultiracial / Other_2 Curren	0.000389	-0.00019	0.000014	-0.00046	-0.00029
childhhNo Children in HH_2 Curre	-0.0005	0.000057	0.000228	1.326E-6	-0.00005
rcbmiObese 30.0+_2 Current Asthm	-0.00024	0.000112	0.00001	-0.00044	9.03E-6
rcbmiOverweight 25.0-29.99_2 Cur	0.000168	-0.00003	0.000036	0.000227	-8.48E-6
DSTRS12Yes_2 Current Asthmatic	0.000578	0.000032	-0.00001	-0.00017	0.000071
pfpl0-99% FPL_2 Current Asthmati	0.000198	-0.00013	-0.00003	-0.00028	0.000146
INSYes_2 Current Asthmatic	-0.00046	-0.00004	0.000124	0.000243	-0.00016

PROC SURVEYLOGISTIC - CHIS.CHIS_DATA_BINOMIAL - Model B

The SURVEYLOGISTIC Procedure

Estimated Covariance Matrix						
Parameter	**raceAfrican American_2 Current A**	**raceAmerican Indian / Alaska Nat**	**raceAsian_2 Current Asthmatic**	**raceLatino_2 Current Asthmatic**	**raceMultiracial / Other_2 Curren**	**childhhNo Children in HH_2 Curre**
Intercept_2 Current Asthmatic	-0.00008	0.002251	-0.00086	-0.00093	0.000389	-0.0005
SRSEXFemale_2 Current Asthmatic	0.000219	-0.00027	0.000053	0.000121	-0.00019	0.000057
lateradultYoung / Middle Aged_2	0.000048	0.000021	-0.0001	-0.00018	0.000014	0.000228
CITIZEN2Non-Citizen_2 Current As	0.000518	-0.00044	-0.00053	0.000321	-0.00046	1.326E-6
CITIZEN2US-Born Citizen_2 Curren	-0.00043	0.000355	0.000823	0.000088	-0.00029	-0.00005
raceAfrican American_2 Current A	0.004602	-0.00209	-0.00035	-0.00031	-0.00207	0.000164
raceAmerican Indian / Alaska Nat	-0.00209	0.017669	-0.0057	-0.00229	-0.0054	-0.00006
raceAsian_2 Current Asthmatic	-0.00035	-0.0057	0.006944	0.000362	-0.0014	0.00015
raceLatino_2 Current Asthmatic	-0.00031	-0.00229	0.000362	0.002448	-0.00074	0.000062
raceMultiracial / Other_2 Curren	-0.00207	-0.0054	-0.0014	-0.00074	0.00991	-0.00042
childhhNo Children in HH_2 Curre	0.000164	-0.00006	0.00015	0.000062	-0.00042	0.000629
rcbmiObese 30.0+_2 Current Asthm	-0.00035	-0.00015	0.000381	-0.00006	0.000063	0.000125
rcbmiOverweight 25.0-29.99_2 Cur	0.000225	-0.00061	0.000361	0.000045	0.000012	-5.04E-6
DSTRS12Yes_2 Current Asthmatic	-0.00002	0.000183	-0.00001	0.000052	-0.00016	-2.76E-6
pfpl0-99% FPL_2 Current Asthmati	-1.18E-7	-0.00005	0.000305	-0.00041	0.000087	0.000144
INSYes_2 Current Asthmatic	-0.00008	0.000072	-7.39E-6	-0.00014	0.000181	2.049E-6

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The SURVEYLOGISTIC Procedure

Estimated Covariance Matrix					
Parameter	rcbmiObese 30.0+_2 Current Asthm	rcbmiOverweight 25.0-29.99_2 Cur	DSTRS12Yes_2 Current Asthmatic	pfpl0-99% FPL_2 Current Asthmati	INSYes_2 Current Asthmatic
Intercept_2 Current Asthmatic	-0.00024	0.000168	0.000578	0.000198	-0.00046
SRSEXFemale_2 Current Asthmatic	0.000112	-0.00003	0.000032	-0.00013	-0.00004
lateradultYoung / Middle Aged_2	0.00001	0.000036	-0.00001	-0.00003	0.000124
CITIZEN2Non-Citizen_2 Current As	-0.00044	0.000227	-0.00017	-0.00028	0.000243
CITIZEN2US-Born Citizen_2 Curren	9.03E-6	-8.48E-6	0.000071	0.000146	-0.00016
raceAfrican American_2 Current A	-0.00035	0.000225	-0.00002	-1.18E-7	-0.00008
raceAmerican Indian / Alaska Nat	-0.00015	-0.00061	0.000183	-0.00005	0.000072
raceAsian_2 Current Asthmatic	0.000381	0.000361	-0.00001	0.000305	-7.39E-6
raceLatino_2 Current Asthmatic	-0.00006	0.000045	0.000052	-0.00041	-0.00014
raceMultiracial / Other_2 Curren	0.000063	0.000012	-0.00016	0.000087	0.000181
childhhNo Children in HH_2 Curre	0.000125	-5.04E-6	-2.76E-6	0.000144	2.049E-6
rcbmiObese 30.0+_2 Current Asthm	0.000901	-0.00051	-0.00002	0.000058	0.000037
rcbmiOverweight 25.0-29.99_2 Cur	-0.00051	0.000844	0.000128	0.000055	-0.00003
DSTRS12Yes_2 Current Asthmatic	-0.00002	0.000128	0.000979	-0.00011	0.000104
pfpl0-99% FPL_2 Current Asthmati	0.000058	0.000055	-0.00011	0.000846	0.000143
INSYes_2 Current Asthmatic	0.000037	-0.00003	0.000104	0.000143	0.001164

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Estimated Correlation Matrix					
Parameter	**Intercept_2 Current Asthmatic**	**SRSEXFemale_2 Current Asthmatic**	**lateradultYoung / Middle Aged_2**	**CITIZEN2Non-Citizen_2 Current As**	**CITIZEN2US-Born Citizen_2 Curren**
Intercept_2 Current Asthmatic	1.0000	-0.1112	-0.4272	0.0848	-0.3178
SRSEXFemale_2 Current Asthmatic	-0.1112	1.0000	-0.0548	-0.0190	-0.1654
lateradultYoung / Middle Aged_2	-0.4272	-0.0548	1.0000	0.0319	0.0071
CITIZEN2Non-Citizen_2 Current As	0.0848	-0.0190	0.0319	1.0000	-0.5282
CITIZEN2US-Born Citizen_2 Curren	-0.3178	-0.1654	0.0071	-0.5282	1.0000
raceAfrican American_2 Current A	-0.0209	0.1300	0.0276	0.1334	-0.1508
raceAmerican Indian / Alaska Nat	0.3076	-0.0831	0.0060	-0.0583	0.0639
raceAsian_2 Current Asthmatic	-0.1870	0.0254	-0.0475	-0.1107	0.2369
raceLatino_2 Current Asthmatic	-0.3422	0.0988	-0.1418	0.1134	0.0428
raceMultiracial / Other_2 Curren	0.0709	-0.0771	0.0054	-0.0802	-0.0699
childhhNo Children in HH_2 Curre	-0.3614	0.0921	0.3507	0.0009	-0.0479
rcbmiObese 30.0+_2 Current Asthm	-0.1425	0.1506	0.0133	-0.2589	0.0072
rcbmiOverweight 25.0-29.99_2 Cur	0.1048	-0.0467	0.0483	0.1364	-0.0070
DSTRS12Yes_2 Current Asthmatic	0.3357	0.0407	-0.0170	-0.0968	0.0543
pfpl0-99% FPL_2 Current Asthmati	0.1235	-0.1803	-0.0411	-0.1659	0.1200
INSYes_2 Current Asthmatic	-0.2438	-0.0524	0.1402	0.1245	-0.1116

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The SURVEYLOGISTIC Procedure

Estimated Correlation Matrix

Parameter	raceAfrican American_2 Current A	raceAmerican Indian / Alaska Nat	raceAsian_2 Current Asthmatic	raceLatino_2 Current Asthmatic	raceMultiracial / Other_2 Curren	childhhNo Children in HH_2 Curre
Intercept_2 Current Asthmatic	-0.0209	0.3076	-0.1870	-0.3422	0.0709	-0.3614
SRSEXFemale_2 Current Asthmatic	0.1300	-0.0831	0.0254	0.0988	-0.0771	0.0921
lateradultYoung / Middle Aged_2	0.0276	0.0060	-0.0475	-0.1418	0.0054	0.3507
CITIZEN2Non-Citizen_2 Current As	0.1334	-0.0583	-0.1107	0.1134	-0.0802	0.0009
CITIZEN2US-Born Citizen_2 Curren	-0.1508	0.0639	0.2369	0.0428	-0.0699	-0.0479
raceAfrican American_2 Current A	1.0000	-0.2316	-0.0611	-0.0915	-0.3063	0.0961
raceAmerican Indian / Alaska Nat	-0.2316	1.0000	-0.5143	-0.3475	-0.4081	-0.0191
raceAsian_2 Current Asthmatic	-0.0611	-0.5143	1.0000	0.0878	-0.1690	0.0716
raceLatino_2 Current Asthmatic	-0.0915	-0.3475	0.0878	1.0000	-0.1509	0.0502
raceMultiracial / Other_2 Curren	-0.3063	-0.4081	-0.1690	-0.1509	1.0000	-0.1690
childhhNo Children in HH_2 Curre	0.0961	-0.0191	0.0716	0.0502	-0.1690	1.0000
rcbmiObese 30.0+_2 Current Asthm	-0.1737	-0.0374	0.1521	-0.0400	0.0210	0.1658
rcbmiOverweight 25.0-29.99_2 Cur	0.1143	-0.1568	0.1492	0.0310	0.0041	-0.0069
DSTRS12Yes_2 Current Asthmatic	-0.0090	0.0439	-0.0049	0.0335	-0.0516	-0.0035
pfpl0-99% FPL_2 Current Asthmati	-0.0001	-0.0137	0.1260	-0.2858	0.0299	0.1976
INSYes_2 Current Asthmatic	-0.0353	0.0159	-0.0026	-0.0829	0.0533	0.0024

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Estimated Correlation Matrix					
Parameter	**rcbmiObese 30.0+_2 Current Asthm**	**rcbmiOverweight 25.0-29.99_2 Cur**	**DSTRS12Yes_2 Current Asthmatic**	**pfpl0-99% FPL_2 Current Asthmati**	**INSYes_2 Current Asthmatic**
Intercept_2 Current Asthmatic	-0.1425	0.1048	0.3357	0.1235	-0.2438
SRSEXFemale_2 Current Asthmatic	0.1506	-0.0467	0.0407	-0.1803	-0.0524
lateradultYoung / Middle Aged_2	0.0133	0.0483	-0.0170	-0.0411	0.1402
CITIZEN2Non-Citizen_2 Current As	-0.2589	0.1364	-0.0968	-0.1659	0.1245
CITIZEN2US-Born Citizen_2 Curren	0.0072	-0.0070	0.0543	0.1200	-0.1116
raceAfrican American_2 Current A	-0.1737	0.1143	-0.0090	-0.0001	-0.0353
raceAmerican Indian / Alaska Nat	-0.0374	-0.1568	0.0439	-0.0137	0.0159
raceAsian_2 Current Asthmatic	0.1521	0.1492	-0.0049	0.1260	-0.0026
raceLatino_2 Current Asthmatic	-0.0400	0.0310	0.0335	-0.2858	-0.0829
raceMultiracial / Other_2 Curren	0.0210	0.0041	-0.0516	0.0299	0.0533
childhhNo Children in HH_2 Curre	0.1658	-0.0069	-0.0035	0.1976	0.0024
rcbmiObese 30.0+_2 Current Asthm	1.0000	-0.5836	-0.0192	0.0660	0.0363
rcbmiOverweight 25.0-29.99_2 Cur	-0.5836	1.0000	0.1411	0.0649	-0.0312
DSTRS12Yes_2 Current Asthmatic	-0.0192	0.1411	1.0000	-0.1171	0.0972
pfpl0-99% FPL_2 Current Asthmati	0.0660	0.0649	-0.1171	1.0000	0.1441
INSYes_2 Current Asthmatic	0.0363	-0.0312	0.0972	0.1441	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	378	105E3	1220	13212	87.9	2.8	98.9	23.7	88.8