

PROC SURVEYLOGISTIC - CHIS.CHIS_DATA_BINOMIAL_BC - Model B - Census

The SURVEYLOGISTIC Procedure

Model Information		
Data Set	CHIS.CHIS_DATA_BINOMIAL_BC	
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				
pfpl	0-99% FPL	1				
	100% FPL and Above	-1				

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The SURVEYLOGISTIC Procedure

Class Level Information					
Class	Value	Design Variables			
INS	No	-1			
	Yes	1			

Variance Estimation	
Method	Jackknife
Replicate Weights	CHIS_DATA_BINOMIAL_BC
Number of Replicates	160

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

Model Fit Statistics		
Criterion	Intercept Only	Intercept and Covariates
AIC	17838929	17196235
SC	17838944	17196431
-2 Log L	17838927	17196209

R-Square	0.0235	Max-rescaled R-Square	0.0487
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Testing Global Null Hypothesis: BETA=0				
Test	F Value	Num DF	Den DF	Pr > F
Likelihood Ratio	192.05	10.5473	1687.56	<.0001
Score	52.94	12	160	<.0001
Wald	43.10	12	160	<.0001
NOTE: Second-order Rao-Scott design correction 0.1377 applied to the Likelihood Ratio test.				

Type 3 Analysis of Effects				
Effect	F Value	Num DF	Den DF	Pr > F
SRSEX	94.45	1	160	<.0001
lateradult	15.10	1	160	0.0001
CITIZEN2	79.30	2	160	<.0001
race	10.44	5	160	<.0001
childhh	15.57	1	160	0.0001

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Type 3 Analysis of Effects				
Effect	F Value	Num DF	Den DF	Pr > F
pfpl	40.64	1	160	<.0001
INS	31.27	1	160	<.0001

Analysis of Maximum Likelihood Estimates							
Parameter		nonasthmatic	Estimate	Standard Error	t Value	Pr > t	Standardized Estimate
Intercept		2 Current Asthmatic	-2.4662	0.0506	-48.73	<.0001	
SRSEX	Female	2 Current Asthmatic	0.2394	0.0246	9.72	<.0001	1.9806
lateradult	Young / Middle Aged	2 Current Asthmatic	0.1007	0.0259	3.89	0.0001	0.6203
CITIZEN2	Non-Citizen	2 Current Asthmatic	-0.4096	0.0567	-7.22	<.0001	-1.9909
CITIZEN2	US-Born Citizen	2 Current Asthmatic	0.5283	0.0420	12.57	<.0001	3.4044
race	African American	2 Current Asthmatic	0.0758	0.0658	1.15	0.2515	0.3680
race	American Indian / Alaska Native	2 Current Asthmatic	0.4319	0.1306	3.31	0.0012	1.8003
race	Asian	2 Current Asthmatic	-0.3155	0.0815	-3.87	0.0002	-1.8152
race	Latino	2 Current Asthmatic	-0.2720	0.0488	-5.57	<.0001	-1.9765
race	Multiracial / Other	2 Current Asthmatic	0.2392	0.0969	2.47	0.0146	1.0654
childhh	No Children in HH	2 Current Asthmatic	0.0984	0.0249	3.95	0.0001	0.7556
pfpl	0-99% FPL	2 Current Asthmatic	0.1872	0.0294	6.38	<.0001	1.1600
INS	Yes	2 Current Asthmatic	0.1872	0.0335	5.59	<.0001	1.0932
NOTE: The degrees of freedom for the t tests is 160.							

Odds Ratio Estimates					
Effect		nonasthmatic	Point Estimate	95% Confidence Limits	
SRSEX	Female vs Male	2 Current Asthmatic	1.614	1.464	1.779
lateradult	Young / Middle Aged vs Later Adult	2 Current Asthmatic	1.223	1.104	1.355
CITIZEN2	Non-Citizen vs Naturalized Citizen	2 Current Asthmatic	0.748	0.616	0.908
CITIZEN2	US-Born Citizen vs Naturalized Citizen	2 Current Asthmatic	1.910	1.654	2.205
race	African American vs White	2 Current Asthmatic	1.265	1.096	1.460
race	American Indian / Alaska Native vs White	2 Current Asthmatic	1.806	1.340	2.434
race	Asian vs White	2 Current Asthmatic	0.855	0.715	1.024
race	Latino vs White	2 Current Asthmatic	0.893	0.805	0.992
race	Multiracial / Other vs White	2 Current Asthmatic	1.490	1.204	1.843
childhh	No Children in HH vs Children in HH	2 Current Asthmatic	1.218	1.103	1.344
pfpl	0-99% FPL vs 100% FPL and Above	2 Current Asthmatic	1.454	1.295	1.633
INS	Yes vs No	2 Current Asthmatic	1.454	1.274	1.660
NOTE: The degrees of freedom in computing the confidence limits is 160.					

The SURVEYLOGISTIC Procedure

Association of Predicted Probabilities and Observed Responses			
Percent Concordant	58.8	Somers' D	0.246
Percent Discordant	34.2	Gamma	0.265
Percent Tied	6.9	Tau-a	0.050
Pairs	1442170800	c	0.623

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Estimated Covariance Matrix				
Parameter	Intercept_2 Current Asthmatic	SRSEXFemale_2 Current Asthmatic	lateradultYoung / Middle Aged_2	CITIZEN2Non-Citizen_2 Current As
Intercept_2 Current Asthmatic	0.002561	-0.00016	-0.00058	0.000337
SRSEXFemale_2 Current Asthmatic	-0.00016	0.000607	-0.00004	-6.73E-6
lateradultYoung / Middle Aged_2	-0.00058	-0.00004	0.000671	0.000037
CITIZEN2Non-Citizen_2 Current As	0.000337	-6.73E-6	0.000037	0.003218
CITIZEN2US-Born Citizen_2 Curren	-0.00078	-0.00017	8.163E-6	-0.00124
raceAfrican American_2 Current A	-0.00011	0.000252	0.000024	0.000411
raceAmerican Indian / Alaska Nat	0.001816	-0.00024	0.000179	-0.00046
raceAsian_2 Current Asthmatic	-0.00064	-0.00005	-0.00019	-0.00042
raceLatino_2 Current Asthmatic	-0.0009	0.00014	-0.0002	0.000314
raceMultiracial / Other_2 Curren	0.000537	-0.00016	6.397E-6	-0.00044
childhhNo Children in HH_2 Curre	-0.00049	0.000064	0.000231	5.219E-6
pfpl0-99% FPL_2 Current Asthmati	0.000279	-0.00012	-0.00004	-0.00032
INSYes_2 Current Asthmatic	-0.00048	-0.00003	0.000117	0.000242

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Estimated Covariance Matrix					
Parameter	CITIZEN2US-Born Citizen_2 Curren	raceAfrican American_2 Current A	raceAmerican Indian / Alaska Nat	raceAsian_2 Current Asthmatic	raceLatino_2 Current Asthmatic
Intercept_2 Current Asthmatic	-0.00078	-0.00011	0.001816	-0.00064	-0.0009
SRSEXFemale_2 Current Asthmatic	-0.00017	0.000252	-0.00024	-0.00005	0.00014
lateradultYoung / Middle Aged_2	8.163E-6	0.000024	0.000179	-0.00019	-0.0002
CITIZEN2Non-Citizen_2 Current As	-0.00124	0.000411	-0.00046	-0.00042	0.000314
CITIZEN2US-Born Citizen_2 Curren	0.001766	-0.00041	0.000373	0.000869	0.000041
raceAfrican American_2 Current A	-0.00041	0.004335	-0.00219	-0.00035	-0.00027
raceAmerican Indian / Alaska Nat	0.000373	-0.00219	0.017048	-0.00522	-0.00234
raceAsian_2 Current Asthmatic	0.000869	-0.00035	-0.00522	0.006638	0.00033
raceLatino_2 Current Asthmatic	0.000041	-0.00027	-0.00234	0.00033	0.002386
raceMultiracial / Other_2 Curren	-0.00035	-0.00184	-0.00519	-0.00136	-0.00067
childhhNo Children in HH_2 Curre	-0.00006	0.000146	5.863E-6	0.000073	0.000071
pfpl0-99% FPL_2 Current Asthmati	0.000132	-0.00002	-3.43E-6	0.000287	-0.00042
INSYes_2 Current Asthmatic	-0.00016	-0.00014	0.000124	0.000016	-0.00013

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Estimated Covariance Matrix				
Parameter	raceMultiracial / Other_2 Current	childhhNo Children in HH_2 Curre	pfpl0-99% FPL_2 Current Asthmati	INSYes_2 Current Asthmatic
Intercept_2 Current Asthmatic	0.000537	-0.00049	0.000279	-0.00048
SRSEXFemale_2 Current Asthmatic	-0.00016	0.000064	-0.00012	-0.00003
lateradultYoung / Middle Aged_2	6.397E-6	0.000231	-0.00004	0.000117
CITIZEN2Non-Citizen_2 Current As	-0.00044	5.219E-6	-0.00032	0.000242
CITIZEN2US-Born Citizen_2 Curren	-0.00035	-0.00006	0.000132	-0.00016
raceAfrican American_2 Current A	-0.00184	0.000146	-0.00002	-0.00014
raceAmerican Indian / Alaska Nat	-0.00519	5.863E-6	-3.43E-6	0.000124
raceAsian_2 Current Asthmatic	-0.00136	0.000073	0.000287	0.000016
raceLatino_2 Current Asthmatic	-0.00067	0.000071	-0.00042	-0.00013
raceMultiracial / Other_2 Curren	0.009393	-0.00041	0.000102	0.000156
childhhNo Children in HH_2 Curre	-0.00041	0.000622	0.000136	6.921E-6
pfpl0-99% FPL_2 Current Asthmati	0.000102	0.000136	0.000862	0.000188
INSYes_2 Current Asthmatic	0.000156	6.921E-6	0.000188	0.001121

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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
Intercept_2 Current Asthmatic	1.0000	-0.1276	-0.4395	0.1173
SRSEXFemale_2 Current Asthmatic	-0.1276	1.0000	-0.0609	-0.0048
lateradultYoung / Middle Aged_2	-0.4395	-0.0609	1.0000	0.0252
CITIZEN2Non-Citizen_2 Current As	0.1173	-0.0048	0.0252	1.0000
CITIZEN2US-Born Citizen_2 Curren	-0.3669	-0.1686	0.0075	-0.5218
raceAfrican American_2 Current A	-0.0320	0.1555	0.0143	0.1102
raceAmerican Indian / Alaska Nat	0.2748	-0.0751	0.0529	-0.0622
raceAsian_2 Current Asthmatic	-0.1547	-0.0224	-0.0909	-0.0906
raceLatino_2 Current Asthmatic	-0.3660	0.1161	-0.1568	0.1134
raceMultiracial / Other_2 Curren	0.1096	-0.0689	0.0025	-0.0803
childhhNo Children in HH_2 Curre	-0.3901	0.1042	0.3574	0.0037
pfpl0-99% FPL_2 Current Asthmati	0.1876	-0.1620	-0.0500	-0.1918
INSYes_2 Current Asthmatic	-0.2817	-0.0392	0.1349	0.1276

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Estimated Correlation Matrix					
Parameter	CITIZEN2US-Born Citizen_2 Curren	raceAfrican American_2 Current A	raceAmerican Indian / Alaska Nat	raceAsian_2 Current Asthmatic	raceLatino_2 Current Asthmatic
Intercept_2 Current Asthmatic	-0.3669	-0.0320	0.2748	-0.1547	-0.3660
SRSEXFemale_2 Current Asthmatic	-0.1686	0.1555	-0.0751	-0.0224	0.1161
lateradultYoung / Middle Aged_2	0.0075	0.0143	0.0529	-0.0909	-0.1568
CITIZEN2Non-Citizen_2 Current As	-0.5218	0.1102	-0.0622	-0.0906	0.1134
CITIZEN2US-Born Citizen_2 Curren	1.0000	-0.1498	0.0680	0.2538	0.0198
raceAfrican American_2 Current A	-0.1498	1.0000	-0.2546	-0.0653	-0.0854
raceAmerican Indian / Alaska Nat	0.0680	-0.2546	1.0000	-0.4910	-0.3676
raceAsian_2 Current Asthmatic	0.2538	-0.0653	-0.4910	1.0000	0.0828
raceLatino_2 Current Asthmatic	0.0198	-0.0854	-0.3676	0.0828	1.0000
raceMultiracial / Other_2 Curren	-0.0860	-0.2878	-0.4104	-0.1728	-0.1423
childhhNo Children in HH_2 Curre	-0.0587	0.0890	0.0018	0.0357	0.0581
pfpl0-99% FPL_2 Current Asthmati	0.1067	-0.0108	-0.0009	0.1199	-0.2929
INSYes_2 Current Asthmatic	-0.1158	-0.0648	0.0284	0.0060	-0.0805

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Estimated Correlation Matrix				
Parameter	raceMultiracial / Other_2 Curren	childhhNo Children in HH_2 Curre	pfpl0-99% FPL_2 Current Asthmati	INSYes_2 Current Asthmatic
Intercept_2 Current Asthmatic	0.1096	-0.3901	0.1876	-0.2817
SRSEXFemale_2 Current Asthmatic	-0.0689	0.1042	-0.1620	-0.0392
lateradultYoung / Middle Aged_2	0.0025	0.3574	-0.0500	0.1349
CITIZEN2Non-Citizen_2 Current As	-0.0803	0.0037	-0.1918	0.1276
CITIZEN2US-Born Citizen_2 Curren	-0.0860	-0.0587	0.1067	-0.1158
raceAfrican American_2 Current A	-0.2878	0.0890	-0.0108	-0.0648
raceAmerican Indian / Alaska Nat	-0.4104	0.0018	-0.0009	0.0284
raceAsian_2 Current Asthmatic	-0.1728	0.0357	0.1199	0.0060
raceLatino_2 Current Asthmatic	-0.1423	0.0581	-0.2929	-0.0805
raceMultiracial / Other_2 Curren	1.0000	-0.1679	0.0357	0.0482
childhhNo Children in HH_2 Curre	-0.1679	1.0000	0.1862	0.0083
pfpl0-99% FPL_2 Current Asthmati	0.0357	0.1862	1.0000	0.1909
INSYes_2 Current Asthmatic	0.0482	0.0083	0.1909	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	227	105E3	915	13363	88.1	1.7	99.1	19.9	88.7