

## PROC SURVEYLOGISTIC - CHIS.CHIS\_DATA\_FINAL - Pruned Association for Current Asthmatics

## The SURVEYLOGISTIC Procedure

Model Information		
Data Set	CHIS.CHIS_DATA_FINAL	
Response Variable	AH13A	ER/URGENT CRE VISIT FOR ASTHMA LAST 12 MOS: CURRENT ASTHMATICS
Number of Response Levels	3	
Weight Variable	frwgt0	
Model	Generalized Logit	
Optimization Technique	Newton-Raphson	

Number of Observations Read	13590
Number of Observations Used	13590
Sum of Weights Read	2765889
Sum of Weights Used	2765889

Response Profile			
Ordered Value	AH13A	Total Frequency	Total Weight
1	Inapplicable	2085	486894.3
2	No	10410	2041736.2
3	Yes	1095	237258.9

Logits modeled use AH13A='Yes' as the reference category.

Class Level Information									
Class	Value	Design Variables							
SRSEX	Female	1							
	Male	-1							
agegroup	Later Adult (65+)	1	0						
	Middle Aged (40-64)	0	1						
	Young Adult (18-39)	-1	-1						
CITIZEN2	Naturalized Citizen	1	0						
	Non-Citizen	0	1						
	US-Born Citizen	-1	-1						
famtype	Married w/ Children	-1	-1	-1					
	Married w/o Children	1	0	0					
	Single w/ Children	0	1	0					
	Single w/o Children	0	0	1					
UR_CLRT	2nd City	1	0	0					
	Suburban	0	1	0					
	Town & Rural	-1	-1	-1					
	Urban	0	0	1					

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Class Level Information											
Class	Value	Design Variables									
RBMI	Normal 18.5-24.99	-1	-1	-1							
	Obese 30.0+	1	0	0							
	Overweight 25.0-29.99	0	1	0							
	Underweight 0-18.49	0	0	1							
SMOKING	Currently Smokes	1	0								
	Never Smoked Regularly	-1	-1								
	Quit Smoking	0	1								
DSTRS12	No	-1									
	Yes	1									
POVLL	0-99% FPL	1	0	0							
	100-199% FPL	0	1	0							
	200-299% FPL	0	0	1							
	300% FPL and Above	-1	-1	-1							
FSLEV	Food Insecurity w/ Hunger	1	0	0							
	Food Insecurity w/o Hunger	0	1	0							
	Food Security	0	0	1							
	Inapplicable / >=200% FPL	-1	-1	-1							
AK4	Family Business or Farm	1	0	0	0						
	Government	-1	-1	-1	-1						
	Inapplicable	0	1	0	0						
	Private Company, Non-Profit Org	0	0	1	0						
	Self-Employed	0	0	0	1						
healthplan	Aetna	1	0	0	0	0	0	0	0	0	0
	Blue Cross	0	1	0	0	0	0	0	0	0	0
	Blue Shield	0	0	1	0	0	0	0	0	0	0
	Cigna Health Care	0	0	0	1	0	0	0	0	0	0
	Health Net	0	0	0	0	1	0	0	0	0	0
	Inapplicable	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1
	Kaiser	0	0	0	0	0	1	0	0	0	0
	Medicare/Medi-Cal	0	0	0	0	0	0	1	0	0	0
	Other	0	0	0	0	0	0	0	1	0	0
	United Healthcare	0	0	0	0	0	0	0	0	0	1

Variance Estimation	
Method	Jackknife
Replicate Weights	CHIS_DATA_FINAL
Number of Replicates	160

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

Model Fit Statistics		
Criterion	Intercept Only	Intercept and Covariates
AIC	4096528.6	3910664.4
SC	4096554.3	3911588.3
-2 Log L	4096524.6	3910520.4

Testing Global Null Hypothesis: BETA=0				
Test	F Value	Num DF	Den DF	Pr > F
Likelihood Ratio	9.80	42.1777	6748.44	<.0001
Score	5.11	70	160	<.0001
Wald	7.51	70	160	<.0001
NOTE: Second-order Rao-Scott design correction 0.6596 applied to the Likelihood Ratio test.				

Type 3 Analysis of Effects				
Effect	F Value	Num DF	Den DF	Pr > F
SRSEX	7.23	2	160	0.0010
agegroup	4.75	4	160	0.0012
CITIZEN2	0.90	4	160	0.4637
famtype	1.39	6	160	0.2229
UR_CLRT	1.57	6	160	0.1602
RBMI	1.10	6	160	0.3618
SMOKING	1.39	4	160	0.2381
DSTRS12	0.91	2	160	0.4029
POVLL	0.47	6	160	0.8268
FSLEV	1.29	4	160	0.2757
AK4	0.78	8	160	0.6195
healthplan	0.81	18	160	0.6882

**Note:** The following parameters have been set to 0, since the variables are a linear combination of other variables as shown.

<b>FSLEVFood Security_Inapplicable =</b>	-Intercept_Inapplicable + 2 * POVLL0-99% FPL_Inapplicable + 2 * POVLL100-199% FPL_Inapplicable - 2 * POVLL200-299% FPL_Inapplicable - FSLEVFood Insecurity w/ Hunger_I - FSLEVFood Insecurity w/o Hunger_
<b>FSLEVFood Security_No =</b>	-Intercept_No + 2 * POVLL0-99% FPL_No + 2 * POVLL100-199% FPL_No - 2 * POVLL200-299% FPL_No - FSLEVFood Insecurity w/ Hunger_N - FSLEVFood Insecurity w/o Hunger_

### The SURVEYLOGISTIC Procedure

Analysis of Maximum Likelihood Estimates						
Parameter		AH13A	Estimate	Standard Error	t Value	Pr >  t
Intercept		Inapplicable	0.8468	0.4375	1.94	0.0547
Intercept		No	2.0988	0.4145	5.06	<.0001
SRSEX	Female	Inapplicable	-0.3291	0.0969	-3.40	0.0009
SRSEX	Female	No	-0.1877	0.0911	-2.06	0.0410
agegroup	Later Adult (65+)	Inapplicable	0.0288	0.1640	0.18	0.8608
agegroup	Later Adult (65+)	No	0.2360	0.1736	1.36	0.1758
agegroup	Middle Aged (40-64)	Inapplicable	-0.3723	0.1203	-3.09	0.0023
agegroup	Middle Aged (40-64)	No	-0.2178	0.1007	-2.16	0.0320
CITIZEN2	Naturalized Citizen	Inapplicable	0.0246	0.1872	0.13	0.8955
CITIZEN2	Naturalized Citizen	No	0.0119	0.1751	0.07	0.9461
CITIZEN2	Non-Citizen	Inapplicable	0.0283	0.2316	0.12	0.9029
CITIZEN2	Non-Citizen	No	-0.1323	0.2292	-0.58	0.5646
famtype	Married w/o Children	Inapplicable	0.1585	0.1969	0.80	0.4222
famtype	Married w/o Children	No	0.2040	0.1739	1.17	0.2424
famtype	Single w/ Children	Inapplicable	-0.3161	0.2494	-1.27	0.2067
famtype	Single w/ Children	No	-0.00186	0.2106	-0.01	0.9930
famtype	Single w/o Children	Inapplicable	0.1161	0.1477	0.79	0.4331
famtype	Single w/o Children	No	0.00671	0.1238	0.05	0.9568
UR_CLRT	2nd City	Inapplicable	0.00235	0.1621	0.01	0.9885
UR_CLRT	2nd City	No	0.0651	0.1520	0.43	0.6692
UR_CLRT	Suburban	Inapplicable	0.0877	0.1601	0.55	0.5846
UR_CLRT	Suburban	No	0.0894	0.1452	0.62	0.5389
UR_CLRT	Urban	Inapplicable	-0.0966	0.1326	-0.73	0.4674
UR_CLRT	Urban	No	-0.2516	0.1093	-2.30	0.0226
RBMI	Obese 30.0+	Inapplicable	-0.3183	0.2626	-1.21	0.2273
RBMI	Obese 30.0+	No	-0.1876	0.2520	-0.74	0.4576
RBMI	Overweight 25.0-29.99	Inapplicable	-0.0371	0.2803	-0.13	0.8948
RBMI	Overweight 25.0-29.99	No	0.0203	0.2629	0.08	0.9386
RBMI	Underweight 0-18.49	Inapplicable	0.1779	0.6852	0.26	0.7955
RBMI	Underweight 0-18.49	No	0.0307	0.6649	0.05	0.9632
SMOKING	Currently Smokes	Inapplicable	0.1216	0.1343	0.91	0.3664
SMOKING	Currently Smokes	No	0.0420	0.1173	0.36	0.7208
SMOKING	Quit Smoking	Inapplicable	-0.0777	0.1151	-0.68	0.5006
SMOKING	Quit Smoking	No	-0.1384	0.0968	-1.43	0.1548
DSTRS12	Yes	Inapplicable	-0.1049	0.1010	-1.04	0.3004
DSTRS12	Yes	No	-0.1152	0.0853	-1.35	0.1786
POVLL	0-99% FPL	Inapplicable	0.1688	0.3383	0.50	0.6185
NOTE: The degrees of freedom for the t tests is 160.						

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Analysis of Maximum Likelihood Estimates						
Parameter		AH13A	Estimate	Standard Error	t Value	Pr >  t
POVLL	0-99% FPL	No	0.2447	0.2744	0.89	0.3739
POVLL	100-199% FPL	Inapplicable	0.1000	0.3818	0.26	0.7937
POVLL	100-199% FPL	No	0.2704	0.2957	0.91	0.3618
POVLL	200-299% FPL	Inapplicable	-0.2547	0.3784	-0.67	0.5018
POVLL	200-299% FPL	No	-0.4254	0.3060	-1.39	0.1665
FSLEV	Food Insecurity w/ Hunger	Inapplicable	-0.3889	0.3148	-1.24	0.2185
FSLEV	Food Insecurity w/ Hunger	No	-0.4715	0.2443	-1.93	0.0554
FSLEV	Food Insecurity w/o Hunger	Inapplicable	-0.1238	0.3140	-0.39	0.6939
FSLEV	Food Insecurity w/o Hunger	No	-0.2861	0.2594	-1.10	0.2718
FSLEV	Food Security	Inapplicable	0	.	.	.
FSLEV	Food Security	No	0	.	.	.
AK4	Family Business or Farm	Inapplicable	-0.0145	0.8793	-0.02	0.9868
AK4	Family Business or Farm	No	-0.2438	0.8643	-0.28	0.7783
AK4	Inapplicable	Inapplicable	-0.2591	0.2519	-1.03	0.3051
AK4	Inapplicable	No	-0.1486	0.2394	-0.62	0.5358
AK4	Private Company, Non-Profit Org	Inapplicable	0.2241	0.2693	0.83	0.4067
AK4	Private Company, Non-Profit Org	No	0.2354	0.2781	0.85	0.3986
AK4	Self-Employed	Inapplicable	-0.00154	0.3221	-0.00	0.9962
AK4	Self-Employed	No	0.1189	0.2940	0.40	0.6864
healthplan	Aetna	Inapplicable	0.2022	0.6194	0.33	0.7445
healthplan	Aetna	No	0.3384	0.5870	0.58	0.5651
healthplan	Blue Cross	Inapplicable	0.4414	0.3325	1.33	0.1862
healthplan	Blue Cross	No	0.3635	0.2930	1.24	0.2165
healthplan	Blue Shield	Inapplicable	0.2388	0.3450	0.69	0.4898
healthplan	Blue Shield	No	0.2677	0.2946	0.91	0.3649
healthplan	Cigna Health Care	Inapplicable	0.0401	0.6720	0.06	0.9525
healthplan	Cigna Health Care	No	0.3150	0.6230	0.51	0.6139
healthplan	Health Net	Inapplicable	-0.1266	0.6215	-0.20	0.8388
healthplan	Health Net	No	-0.2905	0.5849	-0.50	0.6201
healthplan	Kaiser	Inapplicable	-0.3414	0.2671	-1.28	0.2030
healthplan	Kaiser	No	-0.3569	0.2370	-1.51	0.1340
healthplan	Medicare/Medi-Cal	Inapplicable	-0.3303	0.2237	-1.48	0.1418
healthplan	Medicare/Medi-Cal	No	-0.3770	0.2051	-1.84	0.0678
healthplan	Other	Inapplicable	-0.3068	0.3326	-0.92	0.3577
healthplan	Other	No	-0.0861	0.3165	-0.27	0.7859
healthplan	United Healthcare	Inapplicable	0.1948	0.6299	0.31	0.7576
healthplan	United Healthcare	No	0.00276	0.5496	0.01	0.9960
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Odds Ratio Estimates					
Effect		AH13A	Point Estimate	95% Confidence Limits	
SRSEX	Female vs Male	Inapplicable	0.518	0.353	0.759
SRSEX	Female vs Male	No	0.687	0.479	0.985
agegroup	Later Adult (65+) vs Young Adult (18-39)	Inapplicable	0.730	0.409	1.303
agegroup	Later Adult (65+) vs Young Adult (18-39)	No	1.290	0.698	2.382
agegroup	Middle Aged (40-64) vs Young Adult (18-39)	Inapplicable	0.489	0.316	0.756
agegroup	Middle Aged (40-64) vs Young Adult (18-39)	No	0.819	0.561	1.195
CITIZEN2	Naturalized Citizen vs US-Born Citizen	Inapplicable	1.081	0.652	1.791
CITIZEN2	Naturalized Citizen vs US-Born Citizen	No	0.897	0.573	1.404
CITIZEN2	Non-Citizen vs US-Born Citizen	Inapplicable	1.085	0.545	2.157
CITIZEN2	Non-Citizen vs US-Born Citizen	No	0.777	0.395	1.526
famtype	Married w/o Children vs Married w/ Children	Inapplicable	1.124	0.614	2.058
famtype	Married w/o Children vs Married w/ Children	No	1.511	0.855	2.671
famtype	Single w/ Children vs Married w/ Children	Inapplicable	0.699	0.347	1.408
famtype	Single w/ Children vs Married w/ Children	No	1.230	0.669	2.262
famtype	Single w/o Children vs Married w/ Children	Inapplicable	1.077	0.649	1.788
famtype	Single w/o Children vs Married w/ Children	No	1.241	0.814	1.890
UR_CLRT	2nd City vs Town & Rural	Inapplicable	0.996	0.508	1.953
UR_CLRT	2nd City vs Town & Rural	No	0.968	0.527	1.781
UR_CLRT	Suburban vs Town & Rural	Inapplicable	1.085	0.575	2.045
UR_CLRT	Suburban vs Town & Rural	No	0.992	0.554	1.779
UR_CLRT	Urban vs Town & Rural	Inapplicable	0.902	0.497	1.637
UR_CLRT	Urban vs Town & Rural	No	0.706	0.422	1.180
RBMI	Obese 30.0+ vs Normal 18.5-24.99	Inapplicable	0.609	0.398	0.933
RBMI	Obese 30.0+ vs Normal 18.5-24.99	No	0.723	0.493	1.061
RBMI	Overweight 25.0-29.99 vs Normal 18.5-24.99	Inapplicable	0.807	0.505	1.288
RBMI	Overweight 25.0-29.99 vs Normal 18.5-24.99	No	0.890	0.588	1.347
RBMI	Underweight 0-18.49 vs Normal 18.5-24.99	Inapplicable	1.000	0.169	5.907
RBMI	Underweight 0-18.49 vs Normal 18.5-24.99	No	0.899	0.161	5.029
SMOKING	Currently Smokes vs Never Smoked Regularly	Inapplicable	1.180	0.768	1.814
SMOKING	Currently Smokes vs Never Smoked Regularly	No	0.947	0.642	1.397
SMOKING	Quit Smoking vs Never Smoked Regularly	Inapplicable	0.967	0.675	1.384
SMOKING	Quit Smoking vs Never Smoked Regularly	No	0.791	0.576	1.085
DSTRS12	Yes vs No	Inapplicable	0.811	0.544	1.208
DSTRS12	Yes vs No	No	0.794	0.567	1.112
POVLL	0-99% FPL vs 300% FPL and Above	Inapplicable	1.201	0.313	4.601
POVLL	0-99% FPL vs 300% FPL and Above	No	1.397	0.466	4.187
NOTE: The degrees of freedom in computing the confidence limits is 160.					

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Odds Ratio Estimates					
Effect		AH13A	Point Estimate	95% Confidence Limits	
POVLL	100-199% FPL vs 300% FPL and Above	Inapplicable	1.121	0.271	4.633
POVLL	100-199% FPL vs 300% FPL and Above	No	1.434	0.467	4.397
POVLL	200-299% FPL vs 300% FPL and Above	Inapplicable	0.786	0.430	1.438
POVLL	200-299% FPL vs 300% FPL and Above	No	0.715	0.395	1.293
FSLEV	Food Insecurity w/ Hunger vs Inapplicable / >=200% FPL	Inapplicable	0.406	0.079	2.095
FSLEV	Food Insecurity w/ Hunger vs Inapplicable / >=200% FPL	No	0.293	0.084	1.017
FSLEV	Food Insecurity w/o Hunger vs Inapplicable / >=200% FPL	Inapplicable	0.529	0.103	2.725
FSLEV	Food Insecurity w/o Hunger vs Inapplicable / >=200% FPL	No	0.352	0.098	1.268
AK4	Family Business or Farm vs Government	Inapplicable	0.936	0.100	8.803
AK4	Family Business or Farm vs Government	No	0.754	0.086	6.604
AK4	Inapplicable vs Government	Inapplicable	0.733	0.393	1.369
AK4	Inapplicable vs Government	No	0.830	0.492	1.399
AK4	Private Company, Non-Profit Org vs Government	Inapplicable	1.189	0.670	2.110
AK4	Private Company, Non-Profit Org vs Government	No	1.218	0.709	2.094
AK4	Self-Employed vs Government	Inapplicable	0.949	0.460	1.959
AK4	Self-Employed vs Government	No	1.084	0.579	2.031
healthplan Aetna	vs Inapplicable	Inapplicable	1.239	0.266	5.764
healthplan Aetna	vs Inapplicable	No	1.674	0.369	7.591
healthplan Blue Cross	vs Inapplicable	Inapplicable	1.574	0.723	3.428
healthplan Blue Cross	vs Inapplicable	No	1.717	0.799	3.687
healthplan Blue Shield	vs Inapplicable	Inapplicable	1.285	0.549	3.011
healthplan Blue Shield	vs Inapplicable	No	1.560	0.681	3.572
healthplan Cigna Health Care	vs Inapplicable	Inapplicable	1.054	0.226	4.918
healthplan Cigna Health Care	vs Inapplicable	No	1.635	0.373	7.169
healthplan Health Net	vs Inapplicable	Inapplicable	0.892	0.206	3.855
healthplan Health Net	vs Inapplicable	No	0.893	0.220	3.626
healthplan Kaiser	vs Inapplicable	Inapplicable	0.719	0.349	1.481
healthplan Kaiser	vs Inapplicable	No	0.835	0.425	1.641
healthplan Medicare/Medi-Cal	vs Inapplicable	Inapplicable	0.727	0.425	1.244
healthplan Medicare/Medi-Cal	vs Inapplicable	No	0.819	0.479	1.400
healthplan Other	vs Inapplicable	Inapplicable	0.745	0.325	1.708
healthplan Other	vs Inapplicable	No	1.095	0.495	2.422
healthplan United Healthcare	vs Inapplicable	Inapplicable	1.230	0.284	5.334
healthplan United Healthcare	vs Inapplicable	No	1.197	0.317	4.519
NOTE: The degrees of freedom in computing the confidence limits is 160.					