### PROC SURVEYLOGISTIC - CHIS.CHIS_DATA_FINAL - Basic Association

### The SURVEYLOGISTIC Procedure

| Model Information | | |
|---|---|---|
| Data Set | CHIS.CHIS_DATA_FINAL | |
| Response Variable | asthmastatus | asthmatic status |
| Number of Response Levels | 3 | |
| 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 | asthmastatus | Total Frequency | Total Weight |
| 1 | 1 Current Asthmatic | 13590 | 2765889 |
| 2 | 2 Previous Asthmatic | 4811 | 1262024 |
| 3 | 3 Non-Asthmatic | 106120 | 24218720 |

*Logits modeled use asthmastatus='1 Current Asthmatic' as the reference category.*

| Class Level Information | | | | |
|---|---|---|---|---|
| Class | Value | Design Variables | | |
| SRSEX | Female | 1 | | |
| | Male | -1 | | |
| DSTRS12 | No | -1 | | |
| | Yes | 1 | | |
| 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 |
| CITIZEN2 | Naturalized Citizen | 1 | 0 | |
| | Non-Citizen | 0 | 1 | |
| | US-Born Citizen | -1 | -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 |

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**The SURVEYLOGISTIC Procedure**

| Variance Estimation | |
|---|---|
| Method | Jackknife |
| Replicate Weights | CHIS_DATA_FINAL |
| Number of Replicates | 160 |

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

| Model Fit Statistics | | |
|---|---|---|
| Criterion | Intercept Only | Intercept and Covariates |
| AIC | 28151126 | 27096080 |
| SC | 28151156 | 27096414 |
| -2 Log L | 28151122 | 27096036 |

| Testing Global Null Hypothesis: BETA=0 | | | | |
|---|---|---|---|---|
| Test | F Value | Num DF | Den DF | Pr > F |
| Likelihood Ratio | 184.55 | 16.6029 | 2656.47 | <.0001 |
| Score | 49.28 | 20 | 160 | <.0001 |
| Wald | 50.60 | 20 | 160 | <.0001 |
| **NOTE:** Second-order Rao-Scott design correction 0.2046 applied to the Likelihood Ratio test. | | | | |

| Type 3 Analysis of Effects | | | | |
|---|---|---|---|---|
| Effect | F Value | Num DF | Den DF | Pr > F |
| SRSEX | 67.94 | 2 | 160 | <.0001 |
| DSTRS12 | 69.25 | 2 | 160 | <.0001 |
| RBMI | 28.59 | 6 | 160 | <.0001 |
| CITIZEN2 | 80.46 | 4 | 160 | <.0001 |
| POVLL | 7.49 | 6 | 160 | <.0001 |

**PROC SURVEYLOGISTIC - CHIS.CHIS_DATA_FINAL - Basic Association**

**The SURVEYLOGISTIC Procedure**

| Analysis of Maximum Likelihood Estimates | | | | | | | |
|---|---|---|---|---|---|---|---|
| Parameter | | asthmastatus | Estimate | Standard Error | t Value | Pr > \|t\| |
| Intercept | | 2 Previous Asthmatic | -0.9608 | 0.1084 | -8.87 | <.0001 |
| Intercept | | 3 Non-Asthmatic | 2.2808 | 0.0533 | 42.76 | <.0001 |
| SRSEX | Female | 2 Previous Asthmatic | -0.3941 | 0.0367 | -10.74 | <.0001 |
| SRSEX | Female | 3 Non-Asthmatic | -0.2448 | 0.0246 | -9.97 | <.0001 |
| DSTRS12 | Yes | 2 Previous Asthmatic | -0.1867 | 0.0623 | -3.00 | 0.0032 |
| DSTRS12 | Yes | 3 Non-Asthmatic | -0.3606 | 0.0308 | -11.70 | <.0001 |
| RBMI | Obese 30.0+ | 2 Previous Asthmatic | -0.2557 | 0.1009 | -2.54 | 0.0122 |
| RBMI | Obese 30.0+ | 3 Non-Asthmatic | -0.3720 | 0.0446 | -8.34 | <.0001 |
| RBMI | Overweight 25.0-29.99 | 2 Previous Asthmatic | 0.0667 | 0.0904 | 0.74 | 0.4613 |
| RBMI | Overweight 25.0-29.99 | 3 Non-Asthmatic | 0.0473 | 0.0458 | 1.03 | 0.3036 |
| RBMI | Underweight 0-18.49 | 2 Previous Asthmatic | -0.1349 | 0.2299 | -0.59 | 0.5582 |
| RBMI | Underweight 0-18.49 | 3 Non-Asthmatic | 0.1034 | 0.1047 | 0.99 | 0.3251 |
| CITIZEN2 | Naturalized Citizen | 2 Previous Asthmatic | 0.0977 | 0.0869 | 1.12 | 0.2629 |
| CITIZEN2 | Naturalized Citizen | 3 Non-Asthmatic | 0.1130 | 0.0520 | 2.17 | 0.0315 |
| CITIZEN2 | Non-Citizen | 2 Previous Asthmatic | -0.0189 | 0.1133 | -0.17 | 0.8677 |
| CITIZEN2 | Non-Citizen | 3 Non-Asthmatic | 0.5195 | 0.0589 | 8.81 | <.0001 |
| POVLL | 0-99% FPL | 2 Previous Asthmatic | -0.2544 | 0.0776 | -3.28 | 0.0013 |
| POVLL | 0-99% FPL | 3 Non-Asthmatic | -0.1650 | 0.0430 | -3.83 | 0.0002 |
| POVLL | 100-199% FPL | 2 Previous Asthmatic | -0.0888 | 0.0764 | -1.16 | 0.2468 |
| POVLL | 100-199% FPL | 3 Non-Asthmatic | 0.0551 | 0.0438 | 1.26 | 0.2100 |
| POVLL | 200-299% FPL | 2 Previous Asthmatic | 0.1844 | 0.0710 | 2.60 | 0.0103 |
| POVLL | 200-299% FPL | 3 Non-Asthmatic | -0.00926 | 0.0431 | -0.22 | 0.8300 |
| NOTE: The degrees of freedom for the t tests is 160. | | | | | | |

| Odds Ratio Estimates | | | | |
|---|---|---|---|---|
| Effect | asthmastatus | Point Estimate | 95% Confidence Limits | |
| SRSEX   Female vs Male | 2 Previous Asthmatic | 0.455 | 0.393 | 0.526 |
| SRSEX   Female vs Male | 3 Non-Asthmatic | 0.613 | 0.556 | 0.675 |
| DSTRS12  Yes vs No | 2 Previous Asthmatic | 0.688 | 0.538 | 0.880 |
| DSTRS12  Yes vs No | 3 Non-Asthmatic | 0.486 | 0.431 | 0.549 |
| RBMI    Obese 30.0+         vs Normal 18.5-24.99 | 2 Previous Asthmatic | 0.560 | 0.463 | 0.678 |
| RBMI    Obese 30.0+         vs Normal 18.5-24.99 | 3 Non-Asthmatic | 0.553 | 0.503 | 0.607 |
| RBMI    Overweight 25.0-29.99 vs Normal 18.5-24.99 | 2 Previous Asthmatic | 0.773 | 0.649 | 0.922 |
| RBMI    Overweight 25.0-29.99 vs Normal 18.5-24.99 | 3 Non-Asthmatic | 0.840 | 0.767 | 0.921 |
| RBMI    Underweight 0-18.49  vs Normal 18.5-24.99 | 2 Previous Asthmatic | 0.632 | 0.343 | 1.165 |
| NOTE: The degrees of freedom in computing the confidence limits is 160. | | | | |

**PROC SURVEYLOGISTIC - CHIS.CHIS_DATA_FINAL - Basic Association**

*The SURVEYLOGISTIC Procedure*

| Odds Ratio Estimates | | | | |
|---|---|---|---|---|
| Effect | asthmastatus | Point Estimate | 95% Confidence Limits | |
| RBMI    Underweight 0-18.49   vs Normal 18.5-24.99 | 3 Non-Asthmatic | 0.889 | 0.671 | 1.178 |
| CITIZEN2 Naturalized Citizen vs US-Born Citizen | 2 Previous Asthmatic | 1.193 | 0.953 | 1.494 |
| CITIZEN2 Naturalized Citizen vs US-Born Citizen | 3 Non-Asthmatic | 2.107 | 1.833 | 2.423 |
| CITIZEN2 Non-Citizen        vs US-Born Citizen | 2 Previous Asthmatic | 1.062 | 0.759 | 1.484 |
| CITIZEN2 Non-Citizen        vs US-Born Citizen | 3 Non-Asthmatic | 3.164 | 2.673 | 3.745 |
| POVLL    0-99% FPL    vs 300% FPL and Above | 2 Previous Asthmatic | 0.662 | 0.537 | 0.815 |
| POVLL    0-99% FPL    vs 300% FPL and Above | 3 Non-Asthmatic | 0.753 | 0.672 | 0.842 |
| POVLL    100-199% FPL vs 300% FPL and Above | 2 Previous Asthmatic | 0.781 | 0.635 | 0.960 |
| POVLL    100-199% FPL vs 300% FPL and Above | 3 Non-Asthmatic | 0.938 | 0.828 | 1.062 |
| POVLL    200-299% FPL vs 300% FPL and Above | 2 Previous Asthmatic | 1.026 | 0.857 | 1.229 |
| POVLL    200-299% FPL vs 300% FPL and Above | 3 Non-Asthmatic | 0.880 | 0.783 | 0.988 |
| NOTE: The degrees of freedom in computing the confidence limits is 160. | | | | |