

The LOGISTIC Procedure

Model Information

Data Set WORK.ANALYSIS1
Response Variable ecig_3level
Number of Response Levels 3
Model cumulative logit
Optimization Technique Fisher's scoring

Number of Observations Read 199

Number of Observations Used 182

Response Profile

Ordered Value	ecig_3level	Total Frequency
1	Current	45
2	Former	77
3	Never	60

Probabilities modeled are cumulated over the lower Ordered Values.

Note: 17 observations were deleted due to missing values for the response or explanatory variables.

Class Level Information

Class	Value	Design Variables		
ecig_health_hazard	Minor	1	0	0
	Moderate	0	1	0
	Not at all	0	0	0
	Serious	0	0	1
cig_3level	Current	1	0	
	Former	0	1	
	Never	0	0	

Model Convergence Status

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

Score Test for the Proportional Odds Assumption

Chi-Square	DF	Pr > ChiSq
14.2237	9	0.1146

Model Fit Statistics

Criterion	Intercept Only	Intercept and Covariates
AIC	395.391	387.887
SC	401.799	423.132
-2 Log L	391.391	365.887

Testing Global Null Hypothesis: BETA=0

Test	Chi-Square	DF	Pr > ChiSq
Likelihood Ratio	25.5039	9	0.0025
Score	23.6418	9	0.0049
Wald	23.4345	9	0.0053

Type 3 Analysis of Effects

Effect	DF	Wald Chi-Square	Pr > ChiSq
age	1	10.3966	0.0013
whitenonhisp	1	10.4430	0.0012
collegegrad	1	0.0712	0.7896
pregnant	1	4.5147	0.0336
cig_3level	2	0.9520	0.6213
ecig_health_hazard	3	3.1408	0.3704

Analysis of Maximum Likelihood Estimates

Parameter		DF	Estimate	Standard Error	Wald Chi-Square	Pr > ChiSq
Intercept	Current	1	0.2058	1.1359	0.0328	0.8562
Intercept	Former	1	2.2360	1.1511	3.7731	0.0521
age		1	-0.0831	0.0258	10.3966	0.0013
whitenonhisp		1	1.1840	0.3664	10.4430	0.0012
collegegrad		1	-0.1077	0.4036	0.0712	0.7896
pregnant		1	-0.7187	0.3382	4.5147	0.0336
cig_3level	Current	1	0.5693	0.7706	0.5459	0.4600
cig_3level	Former	1	0.2456	0.8450	0.0845	0.7713
ecig_health_hazard	Minor	1	-0.1092	0.3989	0.0749	0.7843
ecig_health_hazard	Moderate	1	0.2150	0.4197	0.2625	0.6084
ecig_health_hazard	Serious	1	-0.7145	0.5677	1.5841	0.2082

Odds Ratio Estimates

Effect	Point Estimate	95% Wald Confidence Limits	
age	0.920	0.875	0.968
whitenonhisp	3.267	1.593	6.700
collegegrad	0.898	0.407	1.981
pregnant	0.487	0.251	0.946
cig_3level Current vs Never	1.767	0.390	8.002
cig_3level Former vs Never	1.278	0.244	6.697
ecig_health_hazard Minor vs Not at all	0.897	0.410	1.959
ecig_health_hazard Moderate vs Not at all	1.240	0.545	2.823
ecig_health_hazard Serious vs Not at all	0.489	0.161	1.489

Association of Predicted Probabilities and Observed Responses

Percent Concordant	67.3	Somers' D	0.350
Percent Discordant	32.3	Gamma	0.352

**Association of Predicted Probabilities and
Observed Responses**

Percent Tied	0.4	Tau-a	0.229
Pairs	10785	c	0.675