

## The LOGISTIC Procedure

Model Information	
Data Set	WORK.CANCER
Response Variable	Case
Number of Response Levels	2
Model	binary logit
Optimization Technique	Fisher's scoring

Number of Observations Read	978
Number of Observations Used	978

Response Profile		
Ordered Value	Case	Total Frequency
1	1	200
2	0	778

Probability modeled is Case=1.

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

Model Fit Statistics		
Criterion	Intercept Only	Intercept and Covariates
AIC	992.863	924.221
SC	997.749	933.992
-2 Log L	990.863	920.221

Testing Global Null Hypothesis: BETA=0			
Test	Chi-Square	DF	Pr > ChiSq
Likelihood Ratio	70.6421	1	<.0001
Score	69.4797	1	<.0001
Wald	63.8477	1	<.0001

Analysis of Maximum Likelihood Estimates					
Parameter	DF	Estimate	Standard Error	Wald Chi-Square	Pr > ChiSq
Intercept	1	-2.1358	0.1413	228.4712	<.0001
AgeGP2	1	1.3886	0.1738	63.8477	<.0001

Odds Ratio Estimates			
Effect	Point Estimate	95% Wald Confidence Limits	
AgeGP2	4.009	2.852	5.636

Association of Predicted Probabilities and Observed Responses			
Percent Concordant	43.9	Somers' D	0.329
Percent Discordant	10.9	Gamma	0.601
Percent Tied	45.2	Tau-a	0.107
Pairs	155600	c	0.665

## The LOGISTIC Procedure

Model Information	
Data Set	WORK.CANCER
Response Variable	TobaccoGP2
Number of Response Levels	2
Model	binary logit
Optimization Technique	Fisher's scoring

Number of Observations Read	976
Number of Observations Used	976

Response Profile
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Ordered Value	Response Profile TobaccoGP2	Total Frequency
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Ordered Value	TobaccoGP2	Total Frequency
1	1	712
2	0	264

Probability modeled is TobaccoGP2=1.

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

Model Fit Statistics		
Criterion	Intercept Only	Intercept and Covariates
AIC	1141.475	1121.817
SC	1146.358	1131.584
-2 Log L	1139.475	1117.817

Testing Global Null Hypothesis: BETA=0			
Test	Chi-Square	DF	Pr > ChiSq
Likelihood Ratio	21.6579	1	<.0001
Score	21.2986	1	<.0001
Wald	20.9363	1	<.0001

Analysis of Maximum Likelihood Estimates					
Parameter	DF	Estimate	Standard Error	Wald Chi-Square	Pr > ChiSq
Intercept	1	0.7045	0.0924	58.1248	<.0001
AgeGP2	1	0.6874	0.1502	20.9363	<.0001

Odds Ratio Estimates			
Effect	Point Estimate	95% Wald Confidence Limits	
AgeGP2	1.989	1.481	2.669

Association of Predicted Probabilities and Observed Responses			
Percent Concordant	33.3	Somers' D	0.166
Percent Discordant	16.8	Gamma	0.331
Percent Tied	49.9	Tau-a	0.065
Pairs	187968	c	0.583

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Model Information	
Data Set	WORK.CANCER
Response Variable	Case
Number of Response Levels	2
Model	binary logit
Optimization Technique	Fisher's scoring

Number of Observations Read	976
Number of Observations Used	976

Response Profile		
Ordered Value	Case	Total Frequency
1	1	200
2	0	776

Probability modeled is Case=1.

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

Model Fit Statistics		
Criterion	Intercept Only	Intercept and Covariates
AIC	991.947	852.072

Model Fit Statistics		
Criterion	Intercept Only	Intercept and Covariates
SC	996.831	871.606
-2 Log L	989.947	844.072

Testing Global Null Hypothesis: BETA=0			
Test	Chi-Square	DF	Pr > ChiSq
Likelihood Ratio	145.8749	3	<.0001
Score	122.8314	3	<.0001
Wald	96.7857	3	<.0001

Analysis of Maximum Likelihood Estimates					
Parameter	DF	Estimate	Standard Error	Wald Chi-Square	Pr > ChiSq
Intercept	1	-4.6732	0.4780	95.5848	<.0001
TobaccoGP2	1	2.1786	0.3532	38.0464	<.0001
AgeGP2	1	1.2813	0.1792	51.1300	<.0001
AlcoholGP	1	0.8162	0.3436	5.6431	0.0175

Odds Ratio Estimates			
Effect	Point Estimate	95% Wald Confidence Limits	
TobaccoGP2	8.834	4.421	17.652
AgeGP2	3.601	2.535	5.117
AlcoholGP	2.262	1.153	4.436

Association of Predicted Probabilities and Observed Responses			
Percent Concordant	61.9	Somers' D	0.495
Percent Discordant	12.3	Gamma	0.668
Percent Tied	25.8	Tau-a	0.162
Pairs	155200	c	0.748