

## The LOGISTIC Procedure

Model Information		
Data Set	WORK.FRMGHAM2	
Response Variable	CURSMOKE	Current Cig Smoker Y/N
Number of Response Levels	2	
Model	binary logit	
Optimization Technique	Fisher's scoring	

Number of Observations Read	4434
Number of Observations Used	4415

Response Profile		
Ordered Value	CURSMOKE	Total Frequency
1	Current smoker	2174
2	Not current smoker	2241

Probability modeled is CURSMOKE='Current smoker'.

**Note:** 19 observations were deleted due to missing values for the response or explanatory variables.

Class Level Information					
Class	Value	Design Variables			
SEX	Female	0			
	Male	1			
AGE	0-35	1	0	0	0
	36-45	0	1	0	0
	46-55	0	0	1	0
	56-65	0	0	0	1
	66-75	-1	-1	-1	-1
BMI	0-18.4	1	0	0	0
	18.5-24.9	0	1	0	0
	25-29.9	0	0	1	0
	30-39.9	0	0	0	1
	40+	-1	-1	-1	-1

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

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Model Fit Statistics		
Criterion	Intercept Only	Intercept and Covariates
AIC	6121.473	5653.068
SC	6127.866	5716.996
-2 Log L	6119.473	5633.068

Testing Global Null Hypothesis: BETA=0			
Test	Chi-Square	DF	Pr > ChiSq
Likelihood Ratio	486.4047	9	<.0001
Score	464.1017	9	<.0001
Wald	422.5727	9	<.0001

Type 3 Analysis of Effects			
Effect	DF	Wald Chi-Square	Pr > ChiSq
SEX	1	206.6416	<.0001
AGE	4	136.5989	<.0001
BMI	4	134.5348	<.0001

Analysis of Maximum Likelihood Estimates						
Parameter		DF	Estimate	Standard Error	Wald Chi-Square	Pr > ChiSq
Intercept		1	-0.6178	0.1254	24.2763	<.0001
SEX	Male	1	0.9521	0.0662	206.6416	<.0001
AGE	0-35	1	0.2966	0.2106	1.9827	0.1591
AGE	36-45	1	0.5280	0.0792	44.4788	<.0001
AGE	46-55	1	0.1186	0.0790	2.2536	0.1333
AGE	56-65	1	-0.4061	0.0836	23.6248	<.0001
BMI	0-18.4	1	0.9732	0.2490	15.2801	<.0001
BMI	18.5-24.9	1	0.4425	0.1151	14.7733	0.0001
BMI	25-29.9	1	-0.2039	0.1165	3.0631	0.0801
BMI	30-39.9	1	-0.4971	0.1314	14.3152	0.0002

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Odds Ratio Estimates			
Effect	Point Estimate	95% Wald Confidence Limits	
SEX Male vs Female	2.591	2.276	2.950
AGE 0-35 vs 66-75	2.302	1.224	4.327
AGE 36-45 vs 66-75	2.901	1.958	4.297
AGE 46-55 vs 66-75	1.926	1.301	2.852
AGE 56-65 vs 66-75	1.140	0.765	1.698
BMI 0-18.4 vs 40+	5.408	1.905	15.349
BMI 18.5-24.9 vs 40+	3.181	1.317	7.684
BMI 25-29.9 vs 40+	1.666	0.689	4.033
BMI 30-39.9 vs 40+	1.243	0.507	3.047

Association of Predicted Probabilities and Observed Responses			
Percent Concordant	65.8	Somers' D	0.374
Percent Discordant	28.4	Gamma	0.397
Percent Tied	5.8	Tau-a	0.187
Pairs	4871934	c	0.687