

## 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	11627
Number of Observations Used	11575

Response Profile		
Ordered Value	CURSMOKE	Total Frequency
1	Current smoker	5014
2	Not current smoker	6561

Probability modeled is CURSMOKE='Current smoker'.

**Note:** 52 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	0
	36-45	0	1	0	0	0
	46-55	0	0	1	0	0
	56-65	0	0	0	1	0
	66-75	0	0	0	0	1
	76-85	-1	-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	15840.981	14601.343
SC	15848.337	14682.266
-2 Log L	15838.981	14579.343

Testing Global Null Hypothesis: BETA=0			
Test	Chi-Square	DF	Pr > ChiSq
Likelihood Ratio	1259.6373	10	<.0001
Score	1185.4234	10	<.0001
Wald	1069.2501	10	<.0001

Type 3 Analysis of Effects			
Effect	DF	Wald Chi-Square	Pr > ChiSq
SEX	1	314.3090	<.0001
AGE	5	588.7276	<.0001
BMI	4	312.2074	<.0001

Analysis of Maximum Likelihood Estimates						
Parameter		DF	Estimate	Standard Error	Wald Chi-Square	Pr > ChiSq
Intercept		1	-0.9790	0.0943	107.7413	<.0001
SEX	Male	1	0.7269	0.0410	314.3090	<.0001
AGE	0-35	1	0.7265	0.2184	11.0622	0.0009
AGE	36-45	1	0.9225	0.0757	148.4403	<.0001
AGE	46-55	1	0.5661	0.0709	63.7228	<.0001
AGE	56-65	1	0.0377	0.0721	0.2735	0.6010
AGE	66-75	1	-0.6356	0.0824	59.4555	<.0001
BMI	0-18.4	1	0.9289	0.1466	40.1255	<.0001
BMI	18.5-24.9	1	0.4413	0.0730	36.5043	<.0001
BMI	25-29.9	1	-0.1710	0.0740	5.3416	0.0208
BMI	30-39.9	1	-0.4215	0.0829	25.8259	<.0001

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Odds Ratio Estimates			
Effect	Point Estimate	95% Wald Confidence Limits	
SEX Male vs Female	2.069	1.909	2.242
AGE 0-35 vs 76-85	10.420	4.903	22.144
AGE 36-45 vs 76-85	12.677	7.157	22.453
AGE 46-55 vs 76-85	8.876	5.029	15.667
AGE 56-65 vs 76-85	5.233	2.962	9.243
AGE 66-75 vs 76-85	2.669	1.499	4.751
BMI 0-18.4 vs 40+	5.509	2.832	10.718
BMI 18.5-24.9 vs 40+	3.383	1.889	6.059
BMI 25-29.9 vs 40+	1.834	1.023	3.289
BMI 30-39.9 vs 40+	1.428	0.790	2.579

Association of Predicted Probabilities and Observed Responses			
Percent Concordant	66.0	Somers' D	0.371
Percent Discordant	28.9	Gamma	0.391
Percent Tied	5.2	Tau-a	0.182
Pairs	32896854	c	0.686