The LOGISTIC Procedure

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

Number of Observations Read	11627
Number of Observations Used	3013

Response Profile		
Ordered Value	DIABETES	Total Frequency
1	Does not have DM	2782
2	Has DM	231

Probability modeled is DIABETES='Has DM'.

Note: 8614 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			
LDLC	Elevated	1			
	Normal	0			
AGE	36-45	1	0	0	0
	46-55	0	0	0	0
	56-65	0	1	0	0
	66-75	0	0	1	0
	76-85	0	0	0	1
BMI	0-18.4	1	0	0	0
	18.5-24.9	0	1	0	0
	25-29.9	0	0	0	0
	30-39.9	0	0	1	0
	40+	0	0	0	1

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

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Model Fit Statistics		
Criterion	Intercept Only	Intercept and Covariates
AIC	1632.361	1593.289
SC	1638.372	1659.407
-2 Log L	1630.361	1571.289

Testing Global Null Hypothesis: BETA=0			
Test	Chi-Square	DF	Pr > ChiSq
Likelihood Ratio	59.0723	10	<.0001
Score	65.0825	10	<.0001
Wald	57.6160	10	<.0001

Type 3 Analysis of Effects			
Effect	DF	Wald Chi-Square	Pr > ChiSq
SEX	1	5.0493	0.0246
AGE	4	28.1296	<.0001
BMI	4	31.3316	<.0001
LDLC	1	0.4296	0.5122

Analysis of Maximum Likelihood Estimates						
Parameter		DF	Estimate	Standard Error	Wald Chi-Square	Pr > ChiSq
Intercept		1	-3.0039	0.3933	58.3338	<.0001
SEX	Male	1	0.3194	0.1422	5.0493	0.0246
AGE	36-45	1	-10.3615	366.8	0.0008	0.9775
AGE	56-65	1	0.5644	0.1889	8.9267	0.0028
AGE	66-75	1	0.9707	0.1900	26.1073	<.0001
AGE	76-85	1	1.0405	0.3441	9.1425	0.0025
BMI	0-18.4	1	-0.6813	0.7376	0.8531	0.3557
BMI	18.5-24.9	1	-0.2032	0.1596	1.6204	0.2030
BMI	30-39.9	1	0.5647	0.1924	8.6148	0.0033
BMI	40+	1	2.0538	0.5270	15.1861	<.0001
LDLC	Elevated	1	-0.2270	0.3463	0.4296	0.5122

The LOGISTIC Procedure

Odds Ratio Estimates		
Effect	Point Estimate	95% Wald Confidence Limits
SEX Male vs Female	1.376	1.042 1.819
AGE 36-45 vs 46-55	<0.001	<0.001 >999.999
AGE 56-65 vs 46-55	1.758	1.214 2.546
AGE 66-75 vs 46-55	2.640	1.819 3.831
AGE 76-85 vs 46-55	2.831	1.442 5.556
BMI 0-18.4 vs 25-29.9	0.506	0.119 2.148
BMI 18.5-24.9 vs 25-29.9	0.816	0.597 1.116
BMI 30-39.9 vs 25-29.9	1.759	1.206 2.564
BMI 40+ vs 25-29.9	7.797	2.775 21.905
LDLC Elevated vs Normal	0.797	0.404 1.571

Association of Predicted Probabilities and Observed Responses			
Percent Concordant	62.0	Somers' D	0.289
Percent Discordant	33.1	Gamma	0.304
Percent Tied	4.9	Tau-a	0.041
Pairs	642642	c	0.645