

The LOGISTIC Procedure

Model Information		
Data Set	HCA202.FRMGHAM	
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	3014

Response Profile		
Ordered Value	DIABETES	Total Frequency
1	0	2783
2	1	231

Probability modeled is DIABETES=0.

Note: 8613 observations were deleted due to missing values for the response or explanatory variables.

Class Level Information		
Class	Value	Design Variables
SEX	1	1
	2	-1

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

Model Fit Statistics		
Criterion	Intercept Only	Intercept and Covariates
AIC	1632.521	1574.014
SC	1638.532	1604.069
-2 Log L	1630.521	1564.014

Testing Global Null Hypothesis: BETA=0			
Test	Chi-Square	DF	Pr > ChiSq
Likelihood Ratio	66.5071	4	<.0001
Score	66.8859	4	<.0001
Wald	64.0486	4	<.0001

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Type 3 Analysis of Effects			
Effect	DF	Wald Chi-Square	Pr > ChiSq
AGE	1	37.7263	<.0001
SEX	1	2.1702	0.1407
BMI	1	23.1722	<.0001
HDLC	1	2.2599	0.1328

Analysis of Maximum Likelihood Estimates						
Parameter		DF	Estimate	Standard Error	Wald Chi-Square	Pr > ChiSq
Intercept		1	7.3105	0.7764	88.6628	<.0001
AGE		1	-0.0511	0.00832	37.7263	<.0001
SEX	1	1	-0.1080	0.0733	2.1702	0.1407
BMI		1	-0.0767	0.0159	23.1722	<.0001
HDLC		1	0.00763	0.00508	2.2599	0.1328

Odds Ratio Estimates			
Effect	Point Estimate	95% Wald Confidence Limits	
AGE	0.950	0.935	0.966
SEX 1 vs 2	0.806	0.605	1.074
BMI	0.926	0.898	0.956
HDLC	1.008	0.998	1.018

Association of Predicted Probabilities and Observed Responses			
Percent Concordant	65.6	Somers' D	0.311
Percent Discordant	34.4	Gamma	0.311
Percent Tied	0.0	Tau-a	0.044
Pairs	642873	c	0.656