

The LOGISTIC Procedure

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

Number of Observations Read	190
Number of Observations Used	190

Response Profile		
Ordered Value	hdl_hi	Total Frequency
1	0	96
2	1	94

Probability modeled is hdl_hi=1.

Class Level Information		
Class	Value	Design Variables
gender	female	0
	male	1
age_hi	0	1
	1	-1

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

Model Fit Statistics		
Criterion	Intercept Only	Intercept and Covariates
AIC	265.375	261.702
SC	268.622	274.690
-2 Log L	263.375	253.702

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Testing Global Null Hypothesis: BETA=0			
Test	Chi-Square	DF	Pr > ChiSq
Likelihood Ratio	9.6728	3	0.0216
Score	9.4938	3	0.0234
Wald	9.1337	3	0.0276

Joint Tests			
Effect	DF	Wald Chi-Square	Pr > ChiSq
age_hi	1	2.5243	0.1121
gender	1	4.8050	0.0284
gender*age_hi	1	5.4197	0.0199

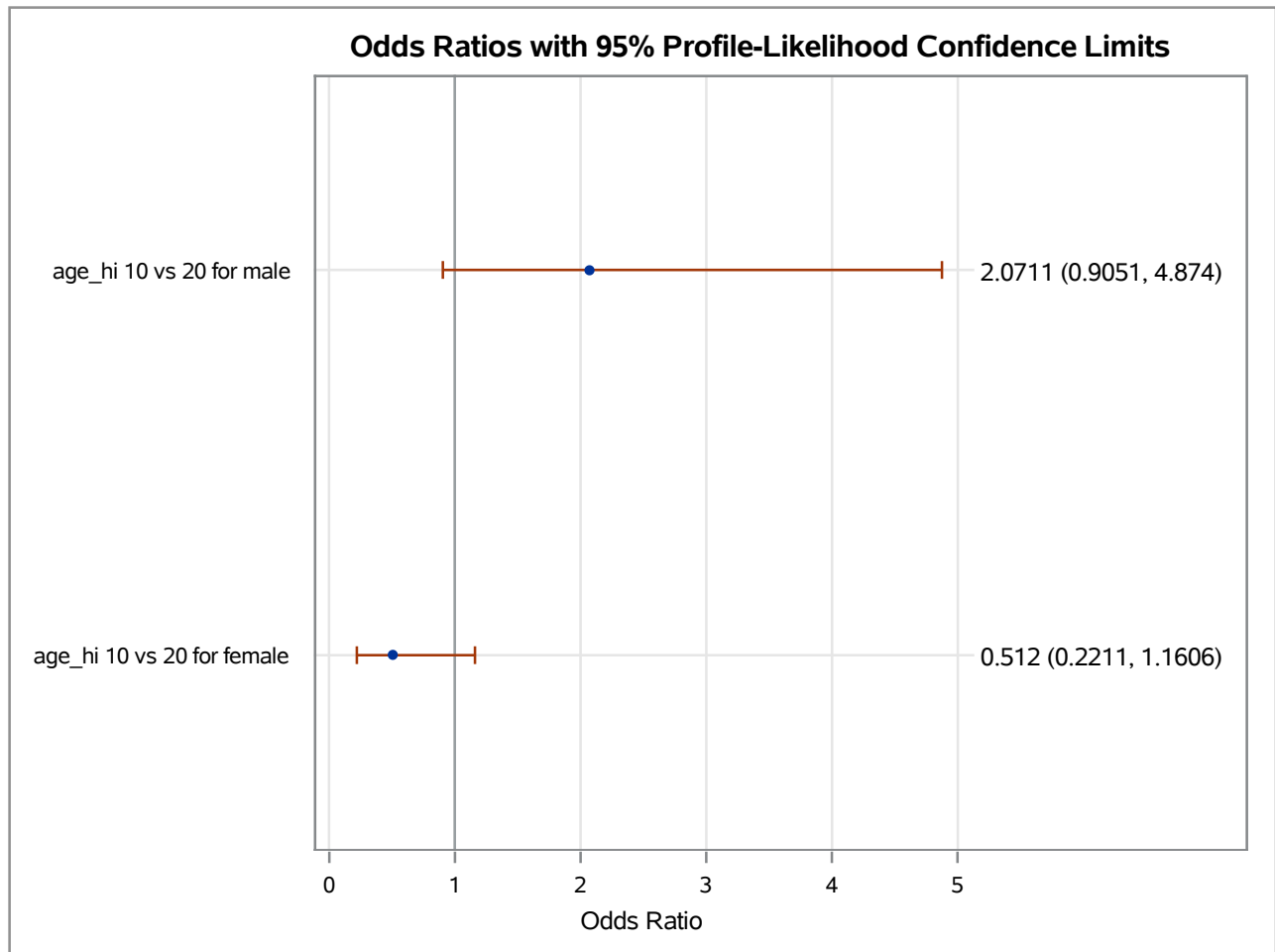
Note: Under full-rank parameterizations, Type 3 effect tests are replaced by joint tests. The joint test for an effect is a test that all the parameters associated with that effect are zero. Such joint tests might not be equivalent to Type 3 effect tests under GLM parameterization.

Analysis of Maximum Likelihood Estimates						
Parameter		DF	Estimate	Standard Error	Wald Chi-Square	Pr > ChiSq
Intercept		1	0.2939	0.2107	1.9461	0.1630
age_hi	0	1	-0.3347	0.2107	2.5243	0.1121
gender	male	1	-0.6579	0.3001	4.8050	0.0284
gender*age_hi	male 0	1	0.6987	0.3001	5.4197	0.0199

Association of Predicted Probabilities and Observed Responses			
Percent Concordant	49.9	Somers' D	0.237
Percent Discordant	26.2	Gamma	0.312
Percent Tied	24.0	Tau-a	0.119
Pairs	9024	c	0.618

Odds Ratio Estimates and Profile-Likelihood Confidence Intervals				
Label	Odds Ratio	Estimate	95% Confidence Limits	
age_hi 10 vs 20 for male	age_hi 0 vs 1 at gender=male	2.071	0.905	4.874
age_hi 10 vs 20 for female	age_hi 0 vs 1 at gender=female	0.512	0.221	1.161

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