The LOGISTIC Procedure

Testing Global Null Hypothesis: BETA=0

Test Chi-Square DF Pr > ChiSq

Likelihood Ratio 12.1527 2 0.0023

Score 10.9259 2 0.0042

Wald 8.4024 2 0.0150

NOTE: All effects have been entered into the model.

Summary of Forward Selection

Effect Number Score Variable

Step Entered DF In Chi-Square Pr > ChiSq Label

1 DRINK 1 1 6.0408 0.0140 Drinking Problem?

2 PREVIOUS 1 2 5.7046 0.0169 Accident in Previous Year?

Analysis of Maximum Likelihood Estimates

Standard Wald

Parameter DF Estimate Error Chi-Square Pr > ChiSq

Intercept 1 -2.0810 0.8292 6.2984 0.0121

DRINK 1 1.9803 0.7880 6.3152 0.0120

PREVIOUS 1 1.7678 0.7784 5.1572 0.0231

Odds Ratio Estimates

Point 95% Wald

Effect Estimate Confidence Limits

DRINK 7.245 1.546 33.949

PREVIOUS 5.858 1.274 26.938

Association of Predicted Probabilities and Observed Responses

Percent Concordant 68.2 Somers' D 0.555

Percent Discordant 12.7 Gamma 0.685

Percent Tied 19.1 Tau-a 0.283

Pairs 440 c 0.777

Problem 9.13 - Predicting Accidents Using Logistic Regression 8

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The LOGISTIC Procedure

Wald Confidence Interval for Odds Ratios

Effect Unit Estimate 95% Confidence Limits

DRINK 1.0000 7.245 1.546 33.949

PREVIOUS 1.0000 5.858 1.274 26.938