## The LOGISTIC Procedure

| Model Information | | |
|---|---|---|
| **Data Set** | WORK.FRMGHAM2 | |
| **Response Variable** | DEATH | Death indicator |
| **Number of Response Levels** | 2 | |
| **Model** | binary logit | |
| **Optimization Technique** | Fisher's scoring | |

| | |
|---|---|
| **Number of Observations Read** | 11627 |
| **Number of Observations Used** | 11627 |

| Response Profile | | |
|---|---|---|
| **Ordered Value** | **DEATH** | **Total Frequency** |
| **1** | Alive | 8100 |
| **2** | Died | 3527 |

**Probability modeled is DEATH='Died'.**

| Class Level Information | | |
|---|---|---|
| **Class** | **Value** | **Design Variables** |
| **SEX** | **Female** | 0 |
| | **Male** | 1 |

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

| Model Fit Statistics | | |
|---|---|---|
| **Criterion** | **Intercept Only** | **Intercept and Covariates** |
| **AIC** | 14272.340 | 14016.080 |
| **SC** | 14279.701 | 14030.802 |
| **-2 Log L** | 14270.340 | 14012.080 |

| Testing Global Null Hypothesis: BETA=0 | | | |
|---|---|---|---|
| **Test** | **Chi-Square** | **DF** | **Pr > ChiSq** |
| **Likelihood Ratio** | 258.2598 | 1 | <.0001 |
| **Score** | 259.5801 | 1 | <.0001 |
| **Wald** | 256.2419 | 1 | <.0001 |

## The LOGISTIC Procedure

| Type 3 Analysis of Effects | | | |
|---|---|---|---|
| Effect | DF | Wald Chi-Square | Pr > ChiSq |
| SEX | 1 | 256.2419 | <.0001 |

| Analysis of Maximum Likelihood Estimates | | | | | | |
|---|---|---|---|---|---|---|
| Parameter | | DF | Estimate | Standard Error | Wald Chi-Square | Pr > ChiSq |
| Intercept | | 1 | -1.1338 | 0.0287 | 1563.8006 | <.0001 |
| SEX | Male | 1 | 0.6532 | 0.0408 | 256.2419 | <.0001 |

| Odds Ratio Estimates | | | |
|---|---|---|---|
| Effect | Point Estimate | 95% Wald Confidence Limits | |
| SEX Male vs Female | 1.922 | 1.774 | 2.082 |

| Association of Predicted Probabilities and Observed Responses | | | |
|---|---|---|---|
| Percent Concordant | 33.6 | Somers' D | 0.161 |
| Percent Discordant | 17.5 | Gamma | 0.315 |
| Percent Tied | 49.0 | Tau-a | 0.068 |
| Pairs | 28568700 | c | 0.581 |