| Obs | fib | gamma | health |
|---|---|---|---|
| **1** | 2.52 | 38 | 0 |
| **2** | 2.46 | 36 | 0 |
| **3** | 2.29 | 36 | 0 |
| **4** | 3.15 | 36 | 0 |
| **5** | 2.88 | 30 | 0 |
| **6** | 2.29 | 31 | 0 |
| **7** | 2.99 | 36 | 0 |
| **8** | 2.38 | 37 | 1 |
| **9** | 2.56 | 31 | 0 |
| **10** | 3.22 | 38 | 0 |
| **11** | 2.35 | 29 | 0 |
| **12** | 3.53 | 46 | 1 |
| **13** | 2.65 | 46 | 0 |
| **14** | 2.15 | 31 | 0 |
| **15** | 3.32 | 35 | 0 |
| **16** | 2.23 | 37 | 0 |
| **17** | 2.19 | 33 | 0 |
| **18** | 2.21 | 37 | 0 |
| **19** | 5.06 | 37 | 1 |
| **20** | 2.68 | 34 | 0 |
| **21** | 2.09 | 44 | 1 |
| **22** | 2.54 | 28 | 0 |
| **23** | 2.18 | 31 | 0 |
| **24** | 2.67 | 39 | 0 |
| **25** | 3.41 | 37 | 0 |
| **26** | 3.15 | 39 | 0 |
| **27** | 3.34 | 32 | 1 |
| **28** | 2.60 | 38 | 0 |
| **29** | 2.28 | 36 | 0 |
| **30** | 3.93 | 32 | 1 |
| **31** | 2.60 | 41 | 0 |
| **32** | 3.34 | 30 | 0 |

## *The LOGISTIC Procedure*

| Model Information | |
|---|---|
| **Data Set** | WORK.EXAMPLE12_23 |
| **Response Variable** | health |
| **Number of Response Levels** | 2 |
| **Model** | binary logit |
| **Optimization Technique** | Fisher's scoring |

| | |
|---|---|
| **Number of Observations Read** | 32 |
| **Number of Observations Used** | 32 |

| Response Profile | | |
|---|---|---|
| **Ordered Value** | **health** | **Total Frequency** |
| **1** | 1 | 6 |
| **2** | 0 | 26 |

***Probability modeled is health=1.***

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

| Model Fit Statistics | | |
|---|---|---|
| **Criterion** | **Intercept Only** | **Intercept and Covariates** |
| **AIC** | 32.885 | 28.971 |
| **SC** | 34.351 | 33.368 |
| **-2 Log L** | 30.885 | 22.971 |

| Testing Global Null Hypothesis: BETA=0 | | | |
|---|---|---|---|
| **Test** | **Chi-Square** | **DF** | **Pr > ChiSq** |
| **Likelihood Ratio** | 7.9138 | 2 | 0.0191 |
| **Score** | 8.2067 | 2 | 0.0165 |
| **Wald** | 4.7561 | 2 | 0.0927 |

*The LOGISTIC Procedure*

| Analysis of Maximum Likelihood Estimates | | | | | |
|---|---|---|---|---|---|
| Parameter | DF | Estimate | Standard Error | Wald Chi-Square | Pr > ChiSq |
| Intercept | 1 | -12.7920 | 5.7964 | 4.8704 | 0.0273 |
| fib | 1 | 1.9104 | 0.9710 | 3.8708 | 0.0491 |
| gamma | 1 | 0.1558 | 0.1195 | 1.6982 | 0.1925 |

| Odds Ratio Estimates | | | |
|---|---|---|---|
| Effect | Point Estimate | 95% Wald Confidence Limits | |
| fib | 6.756 | 1.007 | 45.308 |
| gamma | 1.169 | 0.924 | 1.477 |

| Association of Predicted Probabilities and Observed Responses | | | |
|---|---|---|---|
| Percent Concordant | 80.1 | Somers' D | 0.609 |
| Percent Discordant | 19.2 | Gamma | 0.613 |
| Percent Tied | 0.6 | Tau-a | 0.192 |
| Pairs | 156 | c | 0.804 |