# **Proportional Hazards Analysis**

### The PHREG Procedure

| Model Information         |                         |  |  |  |  |
|---------------------------|-------------------------|--|--|--|--|
| Data Set                  | WORK.TMP0TEMPTABLEINPUT |  |  |  |  |
| <b>Dependent Variable</b> | Survival Time           |  |  |  |  |
| Censoring Variable        | Censoring               |  |  |  |  |
| Censoring Value(s)        | 0                       |  |  |  |  |
| Ties Handling             | BRESLOW                 |  |  |  |  |

Number of Observations Read 418 Number of Observations Used 276

| Summary of the Number of Event and Censored |         |          |          |  |  |  |  |
|---|---------|----------|----------|--|--|--|--|
|   | Values  |          |          |  |  |  |  |
|   | Percent |          |          |  |  |  |  |
| Total                                       | Event   | Censored | Censored |  |  |  |  |
| 276   | 111     | 165      | 59.78    |  |  |  |  |

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

| Model Fit Statistics |            |            |  |  |  |  |  |
|----------------------|------------|------------|--|--|--|--|--|
| Without Wi           |            |            |  |  |  |  |  |
| Criterion            | Covariates | Covariates |  |  |  |  |  |
| -2 LOG L             | 1100.404   | 932.796    |  |  |  |  |  |
| AIC                  | 1100.404   | 964.796    |  |  |  |  |  |
| SBC                  | 1100.404   | 1008.148   |  |  |  |  |  |

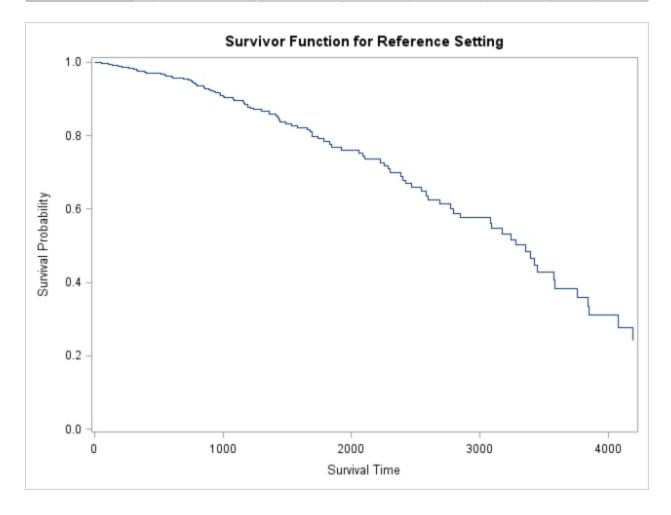
| Testing Global Null Hypothesis: BETA=0 |            |    |            |  |  |  |
|--|------------|----|------------|--|--|--|
| Test                                   | Chi-Square | DF | Pr > ChiSq |  |  |  |
| <b>Likelihood Ratio</b>                | 167.6079   | 16 | <.0001     |  |  |  |
| Score                                  | 283.1507   | 16 | <.0001     |  |  |  |
| Wald                                   | 173.9939   | 16 | <.0001     |  |  |  |

| Analysis of Maximum Likelihood Estimates |    |           |           |            |        |        |                     |       |
|--|----|-----------|-----------|------------|--------|--------|---------------------|-------|
|  |    |           |           |            |        |        | 95% Hazard<br>Ratio |       |
|  |    | Parameter | Standard  |            | Pr >   | Hazard | Confid              |       |
| Parameter                                | DF | Estimate  | Error     | Chi-Square | ChiSq  | Ratio  | Lim                 | nits  |
| Treatment                                | 1  | -0.12399  | 0.21444   | 0.3343     | 0.5631 | 0.883  | 0.580               | 1.345 |
| Age                                      | 1  | 0.02893   | 0.01159   | 6.2365     | 0.0125 | 1.029  | 1.006               | 1.053 |
| Gender                                   | 1  | -0.36545  | 0.31129   | 1.3783     | 0.2404 | 0.694  | 0.377               | 1.277 |
| Ascites                                  | 1  | 0.08572   | 0.38162   | 0.0505     | 0.8223 | 1.090  | 0.516               | 2.302 |
| Hepatomegaly                             | 1  | 0.02617   | 0.25075   | 0.0109     | 0.9169 | 1.027  | 0.628               | 1.678 |
| Spiders                                  | 1  | 0.10024   | 0.23821   | 0.1771     | 0.6739 | 1.105  | 0.693               | 1.763 |
| Edema                                    | 1  | 1.01175   | 0.39285   | 6.6326     | 0.0100 | 2.750  | 1.274               | 5.940 |
| Bilirubin                                | 1  | 0.08001   | 0.02549   | 9.8566     | 0.0017 | 1.083  | 1.031               | 1.139 |
| Cholesterol                              | 1  | 0.0004920 | 0.0004438 | 1.2289     | 0.2676 | 1.000  | 1.000               | 1.001 |

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| Analysis of Maximum Likelihood Estimates |    |            |          |            |        |        |        |            |  |
|--|----|------------|----------|------------|--------|--------|--------|------------|--|
|  |    |            |          |            |        |        |        | 95% Hazard |  |
|  |    |            |          |            |        |        | Ra     | tio        |  |
|  |    | Parameter  | Standard |            | Pr >   | Hazard | Confid | dence      |  |
| Parameter                                | DF | Estimate   | Error    | Chi-Square | ChiSq  | Ratio  | Lin    | nits       |  |
| Albumin                                  | 1  | -0.74081   | 0.30163  | 6.0319     | 0.0140 | 0.477  | 0.264  | 0.861      |  |
| Urine copper                             | 1  | 0.00250    | 0.00111  | 5.0962     | 0.0240 | 1.003  | 1.000  | 1.005      |  |
| SGOT                                     | 1  | 0.00407    | 0.00196  | 4.3165     | 0.0377 | 1.004  | 1.000  | 1.008      |  |
| Triglycerides                            | 1  | -0.0009930 | 0.00133  | 0.5555     | 0.4561 | 0.999  | 0.996  | 1.002      |  |
| Platelet count                           | 1  | 0.0009094  | 0.00116  | 0.6110     | 0.4344 | 1.001  | 0.999  | 1.003      |  |
| Prothrombin                              |    |            |          |            |        |        |        |            |  |
| time                                     | 1  | 0.23279    | 0.10558  | 4.8616     | 0.0275 | 1.262  | 1.026  | 1.552      |  |
| Histologic stage                         | 1  | 0.45361    | 0.17443  | 6.7626     | 0.0093 | 1.574  | 1.118  | 2.216      |  |



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### The PHREG Procedure

|  | Reference Set of Covariates for Plotting |              |              |              |              |              |  |  |
|--|--|--------------|--------------|--------------|--------------|--------------|--|--|
|  |  |              |              |              |              | Outdon       |  |  |
|  | Treatment                                | Age          | Gender       | Ascites      | Hepatomegaly | Spiders      |  |  |
|  | 1 5072462769                             | 40 700661222 | 0.9769115042 | 0.0609405707 | 0.5144927536 | 0.2808550725 |  |  |

| Reference Set of Covariates for Plotting |              |              |              |              |                         |  |  |
|--|--------------|--------------|--------------|--------------|-------------------------|--|--|
| Edema                                    | Bilirubin    | Cholesterol  | Alhumin      | Urine copper | SGOT                    |  |  |
|  |              |              |              |              |                         |  |  |
| 0.106884058                              | 3.3336956522 | 371.26086957 | 3.5168115942 | 100.76811594 | 124.119239 <sup>-</sup> |  |  |

| Reference Set of Covariates for Plotting |              |              |              |  |  |  |
|--|--------------|--------------|--------------|--|--|--|
| Platelet Prothrombin Histole             |              |              |              |  |  |  |
| <b>Triglycerides</b>                     | count        | time         | stage        |  |  |  |
| 124.97826087                             | 261.77173913 | 10.735507246 | 3.0398550725 |  |  |  |