**Suppl 2.** Bivariate analysis of time to death, first transplant only.

| **Variable category (vs. reference group)** | **Reference group** | **Hazard ratio** | **95% Lower CL** | **95% Upper CL** | **P value** |
| --- | --- | --- | --- | --- | --- |
| Sex |  |  |  |  |  |
| Female | Male | 0.788 | 0.380 | 1.635 | 0.5219 |
| Age group |  |  |  |  |  |
| 2-12 years | 0-2 years | 0.481 | 0.179 | 1.288 | 0.1452 |
| 12-16 years | 0-2 years | 0.596 | 0.217 | 1.637 | 0.3156 |
| 16-21 years | 0-2 years | 1.187 | 0.494 | 2.851 | 0.7011 |
| Ethnicity |  |  |  |  |  |
| White | Hispanic | 0.977 | 0.437 | 2.183 | 0.9547 |
| Other | Hispanic | 0.349 | 0.086 | 1.416 | 0.1407 |
| Diagnosis code (recategorized) |  |  |  |  |  |
| Malignancy | No malignant | 1.465 | 0.660 | 3.251 | 0.3474 |
| Cell source |  |  |  |  |  |
| PBSC | Cord | 0.747 | 0.173 | 3.224 | 0.6958 |
| Marrow | Cord | 0.350 | 0.168 | 0.730 | 0.0051 |
| Donor source |  |  |  |  |  |
| Matched related | MUD | 0.299 | 0.116 | 0.770 | 0.0124 |
| Other | MUD | 0.000 | 0.000 | 0.000 | <0.0001 |
| Disease status |  |  |  |  |  |
| CR2 | CR1 | 1.517 | 0.677 | 3.400 | 0.3116 |
| N/A | CR1 | 0.725 | 0.288 | 1.824 | 0.4947 |
| 9 | CR1 | 1.475 | 0.538 | 4.047 | 0.4504 |
| Conditioning/TBI |  |  |  |  |  |
| No | Yes | 0.753 | 0.392 | 1.447 | 0.3949 |
| Donor CMV |  |  |  |  |  |
| Positive | Negative | 0.893 | 0.457 | 1.744 | 0.7406 |
| NA | Negative | 1.973 | 0.234 | 16.660 | 0.5324 |
| CMV pair |  |  |  |  |  |
| Rec+/Don- | Rec+/Don+ | 1.104 | 0.470 | 2.595 | 0.8198 |
| Rec-/Don+ | Rec+/Don+ | 0.760 | 0.295 | 1.962 | 0.5710 |
| Rec-/Don- | Rec+/Don+ | 0.874 | 0.346 | 2.209 | 0.7767 |
| CMV serology |  |  |  |  |  |
| Positive | Negative | 1.361 | 0.688 | 2.694 | 0.3759 |

P values are obtained using a Cox proportional hazards regression model of time to death with a competing event for second transplant. Note: One subject with CMV serology = NA were removed from the analysis of CMV.