**Table 4.** Factors associated with Timing of Diuretic Weaning

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Hazard Ratio | | | **Univariate Cox Regression**  (n = 737) | ***P* Value** | **Multivariate Cox Regression**  (n = 737) | ***P* Value** |
| **Sex** (male=0; female=1) | | | 0.89 ± 0.07 | 0.12 |  |  |
| **Race** (no=0; yes=1) | Asian | | 1.00 ± 0.19 | 1.00 |  |  |
| Black | | 0.86 ± 0.07 | **0.049** |  |  |
| Native American | | 1.59 ± 1.13 | 0.51 |  |  |
| White | | 1.13 ± 0.09 | 0.11 |  |  |
| Other | | 0.98 ± 0.15 | 0.89 |  |  |
| **Ethnicity** (Hispanic: no=0; yes=1; n=735) | | | 1.02 ± 0.17 | 0.92 |  |  |
| **Median household income** ($’000s) | | | 1.00 ± 0.00 | 0.73 |  |  |
| **Public insurance** (n=0; yes=1) | | | 0.80 ± 0.06 | **0.004** | 0.79 ± 0.06 | **0.003** |
| **Gestational age** (weeks) | | | 1.06 ± 0.02 | **<0.001** | 1.05 ± 0.02 | **0.011** |
| **Birth weight** (kg; n=767) | | | 1.50 ± 0.17 | **<0.001** |  |  |
| **Birth weight percentile**  (10 percentiles; n=767) | | | 1.03 ± 0.01 | 0.07 |  |  |
| **BPD severity** | | Mild  Moderate  Severe  Unknown | Reference  0.71 ± 0.10  0.35 ± 0.05  0.62 ± 0.19 | **0.018**  **<0.001**  0.11 |  |  |
| **Age at NICU discharge**  (months) | | | 0.80 ± 0.01 | **<0.001** |  |  |
| **Age at first pulmonary visit** (months) | | | 0.82 ± 0.01 | **<0.001** | 0.91 ± 0.01 | **<0.001** |
| **Tracheostomy** (no=0; yes=1) | | | 0.27 ± 0.04 | **<0.001** | 0.55 ± 0.09 | **<0.001** |
| **Home ventilator** (no=0; yes=1) | | | 0.27 ± 0.04 | **<0.001** |  |  |
| **Home oxygen** (no=0; yes=1) | | | 0.48 ± 0.04 | **<0.001** | 0.55 ± 0.04 | **<0.001** |
| **Gastrostomy** (no=0; yes=1) | | | 0.26 ± 0.02 | **<0.001** | 0.51 ± 0.05 | **<0.001** |
| **Nissen fundoplication** (no=0; yes=1) | | | 0.32 ± 0.03 | **<0.001** |  |  |
| **Pulmonary hypertension** (no=0; yes=1) | | | 0.37 ± 0.03 | **<0.001** | 0.68 ± 0.07 | **<0.001** |
| **Outpatient pulmonary hypertension medications** (no=0; yes=1) | | | 0.31 ± 0.04 | **<0.001** |  |  |
| **Outpatient inhaled steroids** (no=0; yes=1) | | | 0.41 ± 0.04 | **<0.001** | 0.68 ± 0.07 | **<0.001** |
| **Number of diuretics** | | 1  2  3 | Reference  0.69 ± 0.05  0.23 ± 0.06 | **<0.001**  **<0.001** |  |  |
| **Potassium sparing diuretic** (no=0; yes=1) | | | 0.73 ± 0.06 | **<0.001** |  |  |
| **Loop diuretic** (no=0; yes=1) | | | 0.44 ± 0.06 | **<0.001** | 0.49 ± 0.08 | **<0.001** |
| **Weaning diuretics** (provider=0; family=1; n = 680) | | | 1.20 ± 0.14 | 0.13 |  |  |
| **Electrolyte supplementation** (% yes) | | | 0.74 ± 0.06 | **<0.001** | 1.22 ± 0.11 | **0.021** |

\*Hazard ratios generated via Cox models with shared frailty by study site. Hazard ratios less than one suggest that an independent predictor (e.g., tracheostomy) is associated with slower weaning of diuretic therapy. Multivariate model was generated by taking all univariate predictors with *p* values <0.05 and dropping *p* values >0.05 in a stepwise manner.