**eTable. Mutltivariable Analysis of Children Hospitalized with Respiratory Illness Who Were Discharged to Post-Acute Care vs. Other Dispositions**

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| --- | --- | --- |
| **Characteristic** | **Odds Ratio (95% Confidence Interval) of Discharge to Post-Acute Care1** | **P Value1** |
| **Age** | 1.05 (1.04, 1.05) | <.001 |
| **Gender** |  |  |
| Male | 1.2 (1.11, 1.3) | <.001 |
| Female | REFERENCE |  |
| **Payor** |  |  |
| Public | 1.82 (1.65, 2.02) | <.001 |
| Private | REFERENCE |  |
| Other | 1.68 (1.33, 2.13) | <.001 |
| **Complex Chronic Condition** |  |  |
| Neuromuscular | 1.6 (1.44, 1.77) | <.001 |
| Cardiovascular | 0.98 (0.88, 1.08) | 0.06 |
| Respiratory | 0.83 (0.72, 0.97) | 0.003 |
| Renal | 1.03 (0.88, 1.21) | 0.9 |
| Digestive | 1.19 (0.82, 1.73) | 0.8 |
| Hematology and immunodeficiency | 0.99 (0.84, 1.18) | 0.7 |
| Metabolic | 0.91 (0.8, 1.04) | 0.5 |
| Congenital or genetic defect | 0.92 (0.84, 1.01) | 0.05 |
| Malignancy | 0.59 (0.46, 0.76) | <.001 |
| Neonatal | 1.28 (1.12, 1.46) | 0.6 |
| **Technology Assistance** |  |  |
| Respiratory2 | 2.99 (2.58, 3.47) | <.001 |
| Digestive | 1.57 (1.08, 2.27) | 0.02 |
| Cardiovascular | 0.71 (0.53, 0.95) | 0.2 |
| Neuromuscular | 0.82 (0.7, 0.96) | 0.001 |
| Other | 0.93 (0.79, 1.08) | 0.3 |
| Renal | 0.83 (0.6, 1.15) | 0.5 |
| **Chronic Condition Count** |  |  |
| 0 | REFERENCE |  |
| 1-2 | 1.82 (1.3, 2.56) | <.001 |
| 3-4 | 7.35 (5.26, 10.27) | <.001 |
| 5-6 | 9.77 (6.92, 13.79) | <.001 |
| 7-8 | 11.53 (8.09, 16.44) | <.001 |
| 9-10 | 12.64 (8.75, 18.25) | <.001 |
| 11+ | 11.72 (8, 17.18) | <.001 |
| **Number of Medication Classes** |  |  |
| 0 | REFERENCE |  |
| 1-2 | 0.94 (0.33, 2.67) | 0.8 |
| 3-4 | 1.3 (0.48, 3.53) | 0.6 |
| 5-6 | 2.33 (0.86, 6.3) | 0.06 |
| 7-8 | 3.13 (1.16, 8.47) | 0.01 |
| 9-10 | 4.79 (1.76, 13.04) | <.001 |
| **Use of Intensive Care Unit** | 1.44 (1.31, 1.59) | <.001 |
| **Respiratory Support3** | 1.42 (1.28, 1.58) | <.001 |
| **New Tracheostomy4** | 1.91 (1.66, 2.2) | <.001 |
| **Hospital Census Region** |  |  |
| Midwest | REFERENCE |  |
| Northeast | 3.87 (0.83, 18.03) | 0.08 |
| South | 0.37 (0.1, 1.34) | 0.1 |
| West | 0.77 (0.19, 3.15) | 0.7 |

1 Odds ratios (95% confidence intervals) and p values were derived from a generalized estimating equation with fixed effects for the characteristics presented in the table and a random effect for hospital.

2 Respiratory technology here indicates ICD-9-CM codes for existing tracheostomy, present prior to acute care admission.

3 Respiratory support indicates use of BiPAP, CPAP, and/or mechanical ventilation during the acute-care hospitalization.

4 New tracheostomy indicates tracheotomy performed during the acute-care hospitalization.