**Table 1. Risk for having a concomitant bacterial infection**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | **Univariate** | | **Multivariate** | |
|  | OR | 95% CI | OR | 95% CI |
| **Demographics** |  |  |  |  |
| Age (months) | 1.06 | (1.02, 1.11) | 1.03 | (0.95, 1.1) |
| Comorbidities |  |  |  |  |
| Cardiac congenital malformation | 2.43 | (0.78, 7.18) | 1.9 | (0.52, 6.69) |
| Prematurity | 0.94 | (0.46, 1.85) | 0.85 | (0.38, 1.86) |
| Need for respiratory support at home | 2.38 | (0.46, 10.98) | 0.32 | (0.03, 3) |
| Hospital site (ref: MCH) |  |  |  |  |
| CHUSJ | **0.40** | **(0.22, 0.70)** | **0.39** | **(0.17, 0.88)** |
| CHEO | 1.81 | (0.93, 3.50) | 4 | (0.79, 23.71) |
| **Severity** |  |  |  |  |
| Needed ventilation (ref: no)\* | **2.47** | **(1.46, 4.32)** | **3.09** | **(1.42, 7.06)** |
| PRISM III score | **1.10** | **(1.02, 1.18)** | 1.11 | (0.99, 1.24) |
| **Time variables** |  |  |  |  |
| Winter season (ref: season 1) | 0.73 | (0.45, 1.19) | 1.05 | (0.44, 2.43) |

OR = odds ratio; CI = confidence interval; MCH = Montreal Children’s Hospital; CHUSJ = Centre Hospitalier Universitaire Sainte-Justine; CHEO = Children’s Hospital of Eastern Ontario; PRISM = Pediatric risk of mortality

\* Types of ventilation include CPAP, BiPAP, and mechanical ventilation