Supplemental Digital Content 1: Demographics of Patient Population

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|  | **Study Patients**  **No. (%)**  **n=877** |
| Sex  Male | 460 (52.5) |
| Age  ≤ 1 year  > 1 and ≤ 5 years  > 5 and ≤ 12 years  >12 years | 337 (38.4)  352 (40.1)  143 (16.3)  45 (5.1) |
| Race  Non-Hispanic White  Non-Hispanic Black  Hispanic  Other | 174 (19.8)  605 (69.0)  32 (3.7)  66 (7.5) |
| Asthma Severity  No asthma  Intermittent  Mild persistent  Moderate/severe  Unknown severity | 521 (59.4)  87 (9.9)  112 (12.8)  73 (8.3)  84 (9.6) |
| Pneumococcal vaccine status  None  Partial  Complete  Not applicable | 65 (7.4)  257 (29.3)  493 (56.2)  62 (7.1) |
| Fall/Winter season | 592 (67.5) |
| Temperature >38.4°Ca | 402 (46.3) |
| Percutaneous oxygen saturation <95%b | 191 (25.1) |
| Ill appearing | 146 (16.7) |
| Respiratory distress (any degree) | 393 (44.8) |
| Chest radiograph  No infiltrate  Infiltrate  No chest radiograph | 211 (24.1)  604 (68.9)  62 (7.1) |
| WBC >15,000/mm3 | 115 (35.5) |

Abbreviations: WBC, White blood cell count

aTemperature not recorded in 9 patients

bPercutaneous oxygen saturation not recorded in 115 patients