Supplemental Digital Content 1: Demographics of Patient Population

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|  | **Study Patients****No. (%)** **n=877** |
| SexMale | 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) |
| RaceNon-Hispanic White Non-Hispanic BlackHispanicOther | 174 (19.8)605 (69.0)32 (3.7)66 (7.5) |
| Asthma Severity No asthmaIntermittentMild persistentModerate/severeUnknown severity | 521 (59.4)87 (9.9)112 (12.8)73 (8.3)84 (9.6) |
| Pneumococcal vaccine status NonePartial CompleteNot 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 radiographNo infiltrateInfiltrateNo 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