**Supplemental Digital Content 2.** Patient characteristics and respiratory pathogens in infants with severe bronchiolitis

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|  | **Overall** |
| **Variable** | n=2,912 |
| Age (mo), median (IQR) | 3.2 (1.6-6.1) |
| Female sex | 1179 (40.5) |
| Race/ethnicity |  |
| Non-Hispanic white | 1147 (39.4) |
| Non-Hispanic black | 651 (22.4) |
| Hispanic | 976 (33.5) |
| Other | 138 (4.7) |
| Prematurity (gestational age <37 weeks) | 635 (21.8) |
| Clinical course |  |
| ICU admission | 491 (16.9) |
| Intubation and/or CPAP use | 206 (7.1) |
| Region |  |
| Northeast | 562 (19.3) |
| Midwest | 469 (16.1) |
| South | 1228 (42.2) |
| West | 653 (22.4) |
| Hospitalization month |  |
| November | 333 (11.4) |
| December | 572 (19.6) |
| January | 790 (27.1) |
| February | 689 (23.7) |
| March | 466 (16.0) |
| April | 62 (2.1) |
| Hospitalization year |  |
| 2007 | 153 (5.3) |
| 2008 | 566 (19.4) |
| 2009 | 651 (22.4) |
| 2010 | 526 (18.1) |
| 2011 | 25 (0.9) |
| 2012 | 326 (11.2) |
| 2013 | 501 (17.2) |
| 2014 | 164 (5.6) |
|  |  |
| Number of detected pathogens |  |
| Single infection | 1929 (66.2) |
| Dual coinfection | 704 (24.2) |
| Triple coinfection | 119 (4.1) |
| Quadruple+ coinfection | 17 (0.6) |
| No pathogen | 143 (4.9) |
| Detected pathogens\* |  |
| RSV† | 2228 (76.5) |
| RSV-A | 1415 (48.6) |
| RSV-B | 829 (28.5) |
| Rhinovirus | 693 (23.8) |
| Coronavirus‡ | 200 (6.9) |
| NL63 | 56 (1.9) |
| OC43 | 68 (2.3) |
| HKU1 | 49 (1.7) |
| 229E | 34 (1.2) |
| Adenovirus | 185 (6.4) |
| hMPV | 174 (6.0) |
| PIV§ | 74 (2.5) |
| Type 1 | 17 (0.6) |
| Type 2 | 13 (0.4) |
| Type 3 | 45 (1.5) |
| Enterovirus | 67 (2.3) |
| Human bocavirus type 1|| | 51 (1.8) |
| Influenza virus | 40 (1.4) |
| A | 24 (0.8) |
| B | 11 (0.4) |
| 2009 novel H1N1 | 5 (0.2) |
| *Mycoplasma pneumoniae* | 28 (1.0) |
| *Bordetella pertussis* | 6 (0.2) |
| Data are no. (%) of infants unless otherwise stated. Percentages may not equal 100 because of rounding. | |
| Abbreviations: CPAP, continuous positive airway pressure; hMPV, human metapneumovirus; ICU, intensive care unit; PIV, parainfluenza virus; RSV, respiratory syncytial virus | |
| \* Percentages may not equal 100 because of coinfection | |
| † 16 had coinfection of RSV-A and RSV-B | |
| ‡ 7 had coinfection of multiple coronaviruses | |
| § 1 had coinfection of multiple PIV |  |
| || Measured in 2011-2014 only |  |