

**Table S3.** Estimated incidence rates for Canadian adults hospitalized with pneumococcal CAP from 2010 to 2015 (any test performed).

| Age category<br>(years) | Annual incidence rates of pCAP <sup>1</sup> per 100,000 population (95% CI) |                        |                        |                       |                        |
|-------------------------|---|------------------------|------------------------|-----------------------|------------------------|
|                         | 2011  | 2012                   | 2013                   | 2014                  | 2015                   |
| 15-19                   | N/A   | N/A                    | N/A                    | N/A                   | 8.9 (-8.6 to 26.4)     |
| 20-29                   | N/A   | 9.4 (2.7 to 16.2)      | 6.7 (1.7 to 11.7)      | 0.9 (-0.9 to 2.6)     | 7.9 (0.7 to 15.0)      |
| 30-39                   | 13.2 (-12.7 to 39.1)  | 9.7 (3.0 to 16.4)      | 12.0 (6.5 to 17.6)     | 8.8 (3.4 to 14.2)     | 13.1 (5.3 to 20.8)     |
| 40-49                   | 41.6 (1.8 to 81.5)  | 33.4 (21.5 to 45.3)    | 16.9 (9.6 to 24.1)     | 23.7 (15.2 to 32.2)   | 23.6 (13.2 to 34.0)    |
| 50-59                   | 40.2 (12.7 to 93.2)   | 41.0 (27.5 to 54.5)    | 31.1 (21.6 to 40.6)    | 23.8 (15.4 to 32.2)   | 40.7 (27.0 to 54.3)    |
| 60-69                   | 122.7 (41.7 to 203.7)   | 85.5 (60.9 to 110.1)   | 83.1 (63.0 to 103.1)   | 55.5 (38.8 to 72.3)   | 74.4 (50.8 to 98.0)    |
| 70-79                   | 102.1 (36.5 to 240.7)   | 159.5 (107.6 to 211.3) | 118.6 (81.0 to 156.2)  | 88.2 (56.1 to 120.3)  | 112.3 (68.3 to 156.2)  |
| 80+                     | 322.9 (30.5 to 676.4)   | 329.3 (222.3 to 436.4) | 233.9 (156.6 to 311.1) | 149.5 (86.9 to 212.1) | 249.4 (152.9 to 345.9) |
| 16-49                   | 21.6 (15.9 to 27.3)   | 18.8 (13.2 to 24.4)    | 13.7 (9.8 to 17.6)     | 12.3 (8.5 to 16.0)    | 17.7 (12.2 to 23.4)    |
| 50-64                   | 56.4 (40.9 to 71.9)   | 48.5 (35.6 to 61.4)    | 48.3 (38.2 to 58.3)    | 27.6 (20.0 to 35.1)   | 48.5 (35.5 to 61.6)    |
| 65+                     | 156.6 (115.0 to 198.2)  | 185.8 (149.4 to 222.3) | 162.0 (133.8 to 190.1) | 106.0 (81.7 to 130.4) | 131.7 (100.8 to 162.6) |
| 50+                     | 104.9 (84.7 to 125.1)   | 107.4 (90.4 to 124.4)  | 99.2 (85.9 to 112.5)   | 62.7 (51.6 to 73.7)   | 86.1 (70.1 to 101.4)   |
| All ages (16+)          | 59.7 (50.3 to 69.2)   | 56.6 (48.7 to 64.6)    | 52.4 (46.1 to 58.8)    | 34.2 (28.9 to 39.4)   | 50.4 (42.5 to 58.3)    |

<sup>1</sup>CAP cases tested by at least one diagnostic test(s) for *S. pneumoniae* (sputum culture, blood culture, or urine antigen testing). Note: CIRN SOS surveillance was initiated December 1, 2010, and as such, only a limited number of cases were identified and these data was not presented. Abbreviations: Confidence intervals (CI); not applicable (N/A); pneumococcal community acquired pneumonia (pCAP).