Supplementary Material

Estimates of the Health and Economic Burden of Pneumococcal Infections Attributable to the 15-Valent Pneumococcal Conjugate Vaccine Serotypes in the US

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**Table S1** Proportions of adult populations per risk group [1]

| Age group | LR (%) | AR (%) | HR (%) |
|-----------|--------|--------|--------|
| 19–49     | 87.30  | 10.40  | 2.30   |
| 50–64     | 69.20  | 23.40  | 7.40   |
| 65–74     | 49.10  | 36.20  | 14.70  |
| 75+       | 35.30  | 42.50  | 22.20  |

Proportions of adult populations in LR, AR, and HR were calculated using the relative risk estimates and weighted by the prevalence of the healthy (LR), AR, and HR populations obtained from Weycker et al.

*AR at risk, HR high risk, LR low risk.*
Table S2 Estimates of the adult population and life table by single year of age

| Age (years) | Population size [2] | Probability of dying between ages [3] |
|------------|---------------------|--------------------------------------|
| 19         | 4,330,439           | 0.000661                             |
| 20         | 4,269,683           | 0.000750                             |
| 21         | 4,278,323           | 0.000837                             |
| 22         | 4,298,772           | 0.000915                             |
| 23         | 4,341,644           | 0.000978                             |
| 24         | 4,444,518           | 0.001029                             |
| 25         | 4,539,058           | 0.001075                             |
| 26         | 4,611,220           | 0.001120                             |
| 27         | 4,733,869           | 0.001164                             |
| 28         | 4,818,725           | 0.001209                             |
| 29         | 4,806,144           | 0.001256                             |
| 30         | 4,614,384           | 0.001306                             |
| 31         | 4,502,311           | 0.001357                             |
| 32         | 4,421,505           | 0.001414                             |
| 33         | 4,432,973           | 0.001475                             |
| 34         | 4,460,132           | 0.001538                             |
| 35         | 4,315,866           | 0.001610                             |
| 36         | 4,372,444           | 0.001686                             |
| 37         | 4,361,286           | 0.001753                             |
| 38         | 4,305,576           | 0.001809                             |
| 39         | 4,382,349           | 0.001864                             |
| 40         | 4,105,313           | 0.001930                             |
| 41         | 4,020,254           | 0.002020                             |
| 42         | 3,974,741           | 0.002139                             |
|   |        |          |
|---|--------|----------|
| 43| 3,854,040| 0.002289 |
| 44| 3,967,275| 0.002462 |
| 45| 3,837,909| 0.002654 |
| 46| 3,889,372| 0.002863 |
| 47| 4,058,038| 0.003091 |
| 48| 4,282,657| 0.003347 |
| 49| 4,329,775| 0.003638 |
| 50| 4,096,572| 0.003950 |
| 51| 4,004,343| 0.004297 |
| 52| 4,001,782| 0.004709 |
| 53| 4,068,851| 0.005186 |
| 54| 4,305,603| 0.005701 |
| 55| 4,374,565| 0.006223 |
| 56| 4,361,016| 0.006744 |
| 57| 4,342,385| 0.007281 |
| 58| 4,385,570| 0.007848 |
| 59| 4,413,855| 0.008454 |
| 60| 4,252,663| 0.009109 |
| 61| 4,215,172| 0.009795 |
| 62| 4,156,645| 0.010492 |
| 63| 3,996,088| 0.011192 |
| 64| 3,950,578| 0.011915 |
| 65| 3,774,597| 0.012691 |
| 66| 3,618,069| 0.013610 |
| 67| 3,464,437| 0.014606 |
| 68| 3,345,475| 0.015724 |
| 69| 3,252,423| 0.017004 |
|    | Value          | Percentage  |
|----|----------------|-------------|
| 70 | 3,136,704      | 0.018391    |
| 71 | 3,083,083      | 0.019831    |
| 72 | 3,191,048      | 0.021913    |
| 73 | 2,334,433      | 0.023804    |
| 74 | 2,283,164      | 0.026193    |
| 75 | 2,198,286      | 0.028692    |
| 76 | 2,222,392      | 0.031786    |
| 77 | 1,911,261      | 0.035136    |
| 78 | 1,720,817      | 0.038673    |
| 79 | 1,599,909      | 0.042747    |
| 80 | 1,475,278      | 0.047201    |
| 81 | 1,381,641      | 0.052599    |
| 82 | 1,241,341      | 0.058586    |
| 83 | 1,151,190      | 0.065124    |
| 84 | 1,067,757      | 0.073400    |
| 85 | 922,467        | 0.081636    |
| 86 | 856,646        | 0.089815    |
| 87 | 778,923        | 0.100898    |
| 88 | 703,078        | 0.113081    |
| 89 | 635,982        | 0.126406    |
| 90 | 536,447        | 0.140901    |
| 91 | 467,172        | 0.156577    |
| 92 | 394,067        | 0.173422    |
| 93 | 320,785        | 0.191399    |
| 94 | 264,277        | 0.210444    |
| 95 | 207,086        | 0.230465    |
| 96 | 157,463        | 0.251342    |
|   |   |   |
|---|---|---|
| 97 | 116,969 | 0.272927 |
| 98 | 86,150  | 0.295049  |
| 99 | 57,124  | 0.317517  |
| 100| 100,322 | 1.000000  |

References:

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3. Arias E, Xu JQ. United States life tables, 2018. National Vital Statistics Reports. 2020. [https://www.cdc.gov/nchs/data/nvsr/nvsr69/nvsr69-12-508.pdf](https://www.cdc.gov/nchs/data/nvsr/nvsr69/nvsr69-12-508.pdf). Accessed 12 July 2021.