

Pooled proportion of healthcare personnel reported as vaccinated in Hospitals reporting to NHSN, by personnel group and state, 2017-2018 influenza season.

| State          | No. of reporting facilities* | Employee Vaccination % | 95% CI for Employee Vaccination % | Licensed Independent Practitioner Vaccination % | 95% CI for Licensed Independent Practitioner Vaccination % | Adult Student/ Trainee & Volunteer Vaccination % | 95% CI for Adult Student/ Trainee & Volunteer Vaccination % | All Healthcare Personnel† Vaccination % | 95% CI for All Healthcare Personnel Vaccination % |
|----------------|------------------------------|------------------------|-----------------------------------|---|--|--|---|---|---|
| Alabama        | 89                           | 88.8                   | 88.6 - 89.0                       | 63.9  | 63.1 - 64.7  | 91.6   | 91.2 - 92.1   | 86.2                                    | 86.0 - 86.4                                       |
| Alaska         | 8                            | 78.0                   | 77.3 - 78.7                       | 42.8  | 40.7 - 44.9  | 62.1   | 60.2 - 64.0   | 71.4                                    | 70.7 - 72.0                                       |
| Arizona        | 63                           | 92.8                   | 92.6 - 93.0                       | 77.7  | 77.3 - 78.2  | 87.7   | 87.2 - 88.2   | 89.0                                    | 88.8 - 89.1                                       |
| Arkansas       | 49                           | 91.9                   | 91.7 - 92.1                       | 50.9  | 49.7 - 52.1  | 86.1   | 85.5 - 86.7   | 87.3                                    | 87.1 - 87.5                                       |
| California     | 339                          | 87.3                   | 87.3 - 87.4                       | 72.8  | 72.5 - 73.0  | 84.3   | 84.1 - 84.5   | 84.7                                    | 84.6 - 84.8                                       |
| Colorado       | 57                           | 97.8                   | 97.7 - 97.9                       | 97.3  | 97.1 - 97.4  | 96.1   | 95.7 - 96.4   | 97.5                                    | 97.4 - 97.5                                       |
| Connecticut    | 28                           | 93.5                   | 93.4 - 93.7                       | 90.7  | 90.1 - 91.1  | 96.1   | 95.7 - 96.5   | 93.4                                    | 93.3 - 93.6                                       |
| Delaware       | 8                            | 93.7                   | 93.4 - 94.0                       | 76.1  | 74.5 - 77.7  | 87.2   | 86.2 - 88.2   | 91.5                                    | 91.2 - 91.8                                       |
| D.C.           | 7                            | 97.1                   | 96.9 - 97.4                       | 95.9  | 95.1 - 96.5  | 93.9   | 92.8 - 94.9   | 96.7                                    | 96.5 - 96.9                                       |
| Florida        | 205                          | 83.8                   | 83.7 - 83.9                       | 54.7  | 54.4 - 55.0  | 86.2   | 85.9 - 86.4   | 79.6                                    | 79.5 - 79.7                                       |
| Georgia        | 103                          | 92.8                   | 92.7 - 92.9                       | 76.2  | 75.7 - 76.6  | 94.3   | 94.0 - 94.6   | 90.7                                    | 90.6 - 90.9                                       |
| Hawaii         | 16                           | 83.7                   | 83.2 - 84.2                       | 76.2  | 74.8 - 77.6  | 90.9   | 89.9 - 91.8   | 83.7                                    | 83.3 - 84.2                                       |
| Idaho          | 17                           | 97.2                   | 97.0 - 97.4                       | 63.9  | 62.5 - 65.2  | 94.8   | 94.2 - 95.4   | 92.7                                    | 92.4 - 93.0                                       |
| Illinois       | 133                          | 94.5                   | 94.4 - 94.6                       | 70.4  | 70.0 - 70.9  | 92.5   | 92.3 - 92.8   | 90.9                                    | 90.8 - 91.0                                       |
| Indiana        | 92                           | 90.7                   | 90.6 - 90.9                       | 83.2  | 82.8 - 83.6  | 91.8   | 91.5 - 92.1   | 89.6                                    | 89.5 - 89.8                                       |
| Iowa           | 38                           | 94.8                   | 94.7 - 95.0                       | 89.4  | 88.7 - 90.1  | 92.4   | 92.0 - 92.9   | 94.0                                    | 93.8 - 94.1                                       |
| Kansas         | 58                           | 96.6                   | 96.5 - 96.8                       | 82.8  | 82.0 - 83.5  | 95.2   | 94.8 - 95.5   | 94.6                                    | 94.4 - 94.7                                       |
| Kentucky       | 69                           | 93.7                   | 93.6 - 93.9                       | 65.6  | 64.8 - 66.5  | 92.2   | 91.8 - 92.6   | 90.9                                    | 90.7 - 91.0                                       |
| Louisiana      | 97                           | 90.4                   | 90.2 - 90.5                       | 70.7  | 70.1 - 71.3  | 90.0   | 89.5 - 90.5   | 87.2                                    | 87.0 - 87.3                                       |
| Maine          | 17                           | 90.3                   | 90.0 - 90.6                       | 63.8  | 61.5 - 66.1  | 82.2   | 80.9 - 83.4   | 88.4                                    | 88.1 - 88.7                                       |
| Maryland       | 48                           | 97.3                   | 97.2 - 97.4                       | 96.2  | 95.9 - 96.4  | 97.8   | 97.6 - 98.0   | 97.2                                    | 97.1 - 97.3                                       |
| Massachusetts  | 70                           | 92.5                   | 92.4 - 92.6                       | 94.1  | 93.8 - 94.3  | 95.0   | 94.8 - 95.3   | 93.0                                    | 92.9 - 93.1                                       |
| Michigan       | 99                           | 92.1                   | 92.0 - 92.2                       | 78.2  | 77.8 - 78.7  | 89.6   | 89.3 - 90.0   | 90.5                                    | 90.4 - 90.6                                       |
| Minnesota      | 52                           | 85.1                   | 84.9 - 85.3                       | 76.7  | 76.0 - 77.3  | 80.8   | 80.2 - 81.3   | 83.7                                    | 83.5 - 83.9                                       |
| Mississippi    | 62                           | 85.4                   | 85.1 - 85.7                       | 57.9  | 56.7 - 59.2  | 91.5   | 91.0 - 92.1   | 84.1                                    | 83.8 - 84.3                                       |
| Missouri       | 78                           | 96.2                   | 96.1 - 96.3                       | 81.0  | 80.5 - 81.5  | 84.0   | 83.6 - 84.4   | 92.6                                    | 92.5 - 92.7                                       |
| Montana        | 14                           | 91.4                   | 91.0 - 91.7                       | 66.9  | 64.5 - 69.2  | 79.7   | 78.1 - 81.3   | 88.9                                    | 88.5 - 89.3                                       |
| Nebraska       | 26                           | 93.6                   | 93.4 - 93.9                       | 81.7  | 80.8 - 82.6  | 77.6   | 77.0 - 78.3   | 87.9                                    | 87.7 - 88.2                                       |
| Nevada         | 25                           | 90.2                   | 89.9 - 90.5                       | 40.6  | 39.8 - 41.4  | 90.2   | 89.6 - 90.8   | 77.0                                    | 76.6 - 77.3                                       |
| New Hampshire  | 13                           | 95.4                   | 95.2 - 95.6                       | 86.2  | 84.9 - 87.5  | 95.5   | 94.9 - 96.0   | 94.8                                    | 94.6 - 95.0                                       |
| New Jersey     | 71                           | 90.9                   | 90.7 - 91.0                       | 68.8  | 68.4 - 69.3  | 88.9   | 88.5 - 89.3   | 86.7                                    | 86.6 - 86.9                                       |
| New Mexico     | 31                           | 89.0                   | 88.7 - 89.4                       | 61.9  | 60.4 - 63.4  | 91.8   | 91.2 - 92.5   | 87.0                                    | 86.7 - 87.3                                       |
| New York       | 177                          | 86.8                   | 86.7 - 86.9                       | 77.7  | 77.4 - 78.0  | 87.1   | 86.9 - 87.4   | 85.7                                    | 85.7 - 85.8                                       |
| North Carolina | 93                           | 97.1                   | 97.0 - 97.1                       | 89.1  | 88.7 - 89.4  | 88.5   | 88.1 - 88.8   | 94.8                                    | 94.7 - 94.9                                       |
| North Dakota   | 9                            | 94.7                   | 94.4 - 95.0                       | 90.8  | 89.0 - 92.5  | 94.2   | 93.4 - 94.9   | 94.5                                    | 94.2 - 94.7                                       |
| Ohio           | 138                          | 89.3                   | 89.2 - 89.4                       | 53.4  | 52.9 - 53.9  | 87.0   | 86.7 - 87.3   | 85.4                                    | 85.3 - 85.6                                       |
| Oklahoma       | 84                           | 94.8                   | 94.7 - 95.0                       | 78.6  | 77.8 - 79.3  | 94.6   | 94.3 - 95.0   | 92.8                                    | 92.6 - 92.9                                       |
| Oregon         | 35                           | 84.8                   | 84.5 - 85.0                       | 78.2  | 77.4 - 79.1  | 75.4   | 74.6 - 76.2   | 83.0                                    | 82.7 - 83.2                                       |
| Pennsylvania   | 172                          | 92.8                   | 92.7 - 92.9                       | 86.8  | 86.5 - 87.1  | 95.8   | 95.6 - 95.9   | 92.4                                    | 92.3 - 92.4                                       |
| Rhode Island   | 10                           | 90.1                   | 89.7 - 90.5                       | 97.5  | 97.1 - 97.9  | 98.8   | 98.5 - 99.1   | 92.8                                    | 92.5 - 93.1                                       |

|                      |                |                   |                    |                   |                    |                   |                    |                   |                    |
|----------------------|----------------|-------------------|--------------------|-------------------|--------------------|-------------------|--------------------|-------------------|--------------------|
| South Carolina       | 61             | 94.1              | 93.9 - 94.2        | 77.1              | 76.4 - 77.7        | 86.3              | 85.7 - 86.8        | 91.1              | 90.9 - 91.3        |
| South Dakota         | 19             | 96.7              | 96.5 - 96.9        | 89.3              | 88.0 - 90.5        | 94.3              | 93.6 - 94.9        | 95.7              | 95.4 - 95.9        |
| Tennessee            | 108            | 92.7              | 92.6 - 92.9        | 75.7              | 75.1 - 76.3        | 91.3              | 91.0 - 91.6        | 90.4              | 90.3 - 90.5        |
| Texas                | 351            | 94.0              | 93.9 - 94.1        | 70.1              | 69.8 - 70.3        | 88.7              | 88.5 - 88.9        | 89.0              | 89.0 - 89.1        |
| Utah                 | 36             | 99.0              | 98.9 - 99.1        | 88.2              | 87.6 - 88.8        | 91.6              | 91.2 - 92.1        | 95.7              | 95.6 - 95.9        |
| Vermont              | 6              | 78.9              | 78.2 - 79.6        | 77.5              | 74.0 - 80.6        | 59.9              | 57.9 - 61.8        | 76.4              | 75.7 - 77.0        |
| Virginia             | 80             | 91.6              | 91.5 - 91.8        | 79.1              | 78.6 - 79.6        | 89.0              | 88.6 - 89.4        | 89.4              | 89.2 - 89.5        |
| Washington           | 55             | 92.2              | 92.1 - 92.4        | 88.2              | 87.9 - 88.6        | 90.6              | 90.2 - 91.0        | 91.3              | 91.2 - 91.4        |
| West Virginia        | 29             | 93.4              | 93.2 - 93.6        | 72.5              | 71.3 - 73.6        | 91.8              | 91.2 - 92.4        | 91.2              | 91.0 - 91.5        |
| Wisconsin            | 73             | 96.0              | 95.9 - 96.1        | 92.1              | 91.8 - 92.5        | 96.6              | 96.4 - 96.8        | 95.6              | 95.5 - 95.7        |
| Wyoming              | 11             | 95.1              | 94.6 - 95.5        | 80.0              | 77.5 - 82.3        | 94.4              | 93.2 - 95.4        | 93.5              | 93.0 - 94.0        |
| <b>United States</b> | <b>3,629</b>   | <b>91.2</b>       | <b>91.1 - 91.2</b> | <b>75.6</b>       | <b>75.5 - 75.7</b> | <b>89.3</b>       | <b>89.2 - 89.3</b> | <b>88.7</b>       | <b>88.7 - 88.8</b> |
| <b>Range</b>         | <b>6 - 351</b> | <b>78.0- 99.0</b> | <b>--</b>          | <b>40.6- 97.5</b> | <b>--</b>          | <b>59.9- 98.8</b> | <b>--</b>          | <b>71.4- 97.5</b> | <b>--</b>          |

95% CI: 95% confidence interval for estimated vaccination percentage.

Pooled proportions for each state are calculated as the number of healthcare personnel (HCP) vaccinated at their facility plus the number who provided documentation of vaccination elsewhere, divided by the total number of HCP in that group reported as working at the facilities from October 1 through March 31, and multiplied by 100. Personnel are reported by each facility in which they work; therefore, individuals may be counted more than once.

NHSN recognizes that changes to the Centers for Medicare and Medicaid Services (CMS) payment policies and changes in state and local reporting mandates may impact the number and characteristics of healthcare facilities participating in NHSN.

\* Total number of hospitals reporting HCP influenza vaccination data to NHSN for the specified influenza season. This may include facilities that do not participate in CMS' Hospital Inpatient Quality Reporting (Hospital IQR) or Outpatient Quality Reporting (Hospital OQR) Program. The facility types that are considered are HOSP-CHLD, HOSP-GEN, HOSP-MIL, HOSP-ONC, HOSP-ORTHO, HOSP-PHE/G, HOSP-PHE/NG, HOSP-SURG, HOSP-VA, HOSP-WOM and HOSP-WOMCHILD.

† Pooled proportion vaccinated among employees, licensed independent practitioners, and adult students/trainees and volunteers combined.