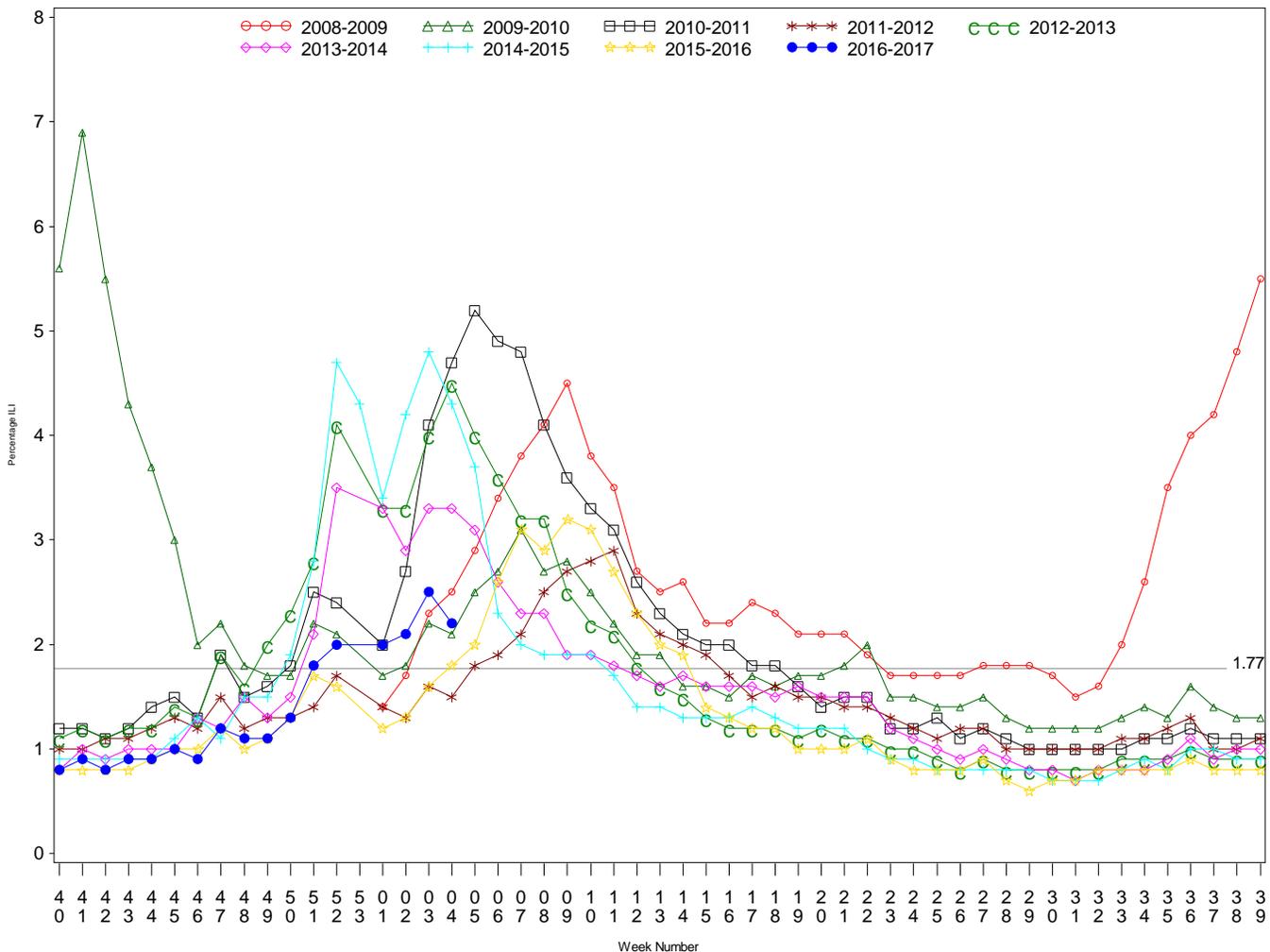




**Indian Health Service**  
 Division of Epidemiology and Disease Prevention  
**Influenza Surveillance Report**  
*IHS Influenza Awareness System (IIAS)*  
 (Week 4: 01/22/2017 – 01/28/2017)

- Influenza-like-illness (ILI) activity in IHS is 2.2%, above the IHS threshold of 1.77%
  - The majority of IHS regions are reporting elevated ILI activity
- National ILI activity reported by CDC is increasing across a majority of US states
  - CDC's ILINet ILI activity is 3.4% above the ILINet baseline (2.2%) and above the IHS threshold (1.77%).
- To date IHS has administered over 310,000 doses of influenza vaccine.
- Overall, 31% of the IHS Active Clinical population received an influenza vaccine this season.

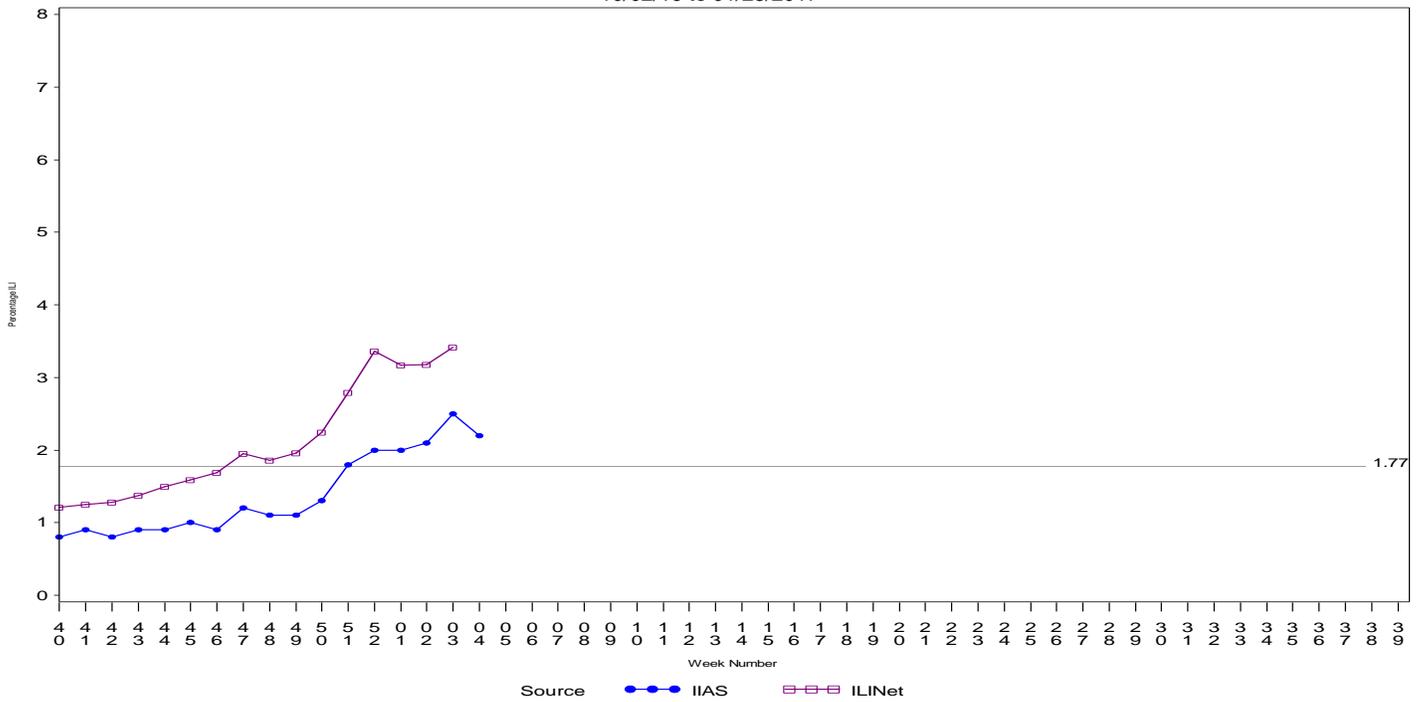
All IHS Areas  
 Influenza-Like Illness (ILI) for All Surveillance Years  
 Percentage of Visits for ILI per week  
 01/04/09 to 01/28/2017



Percent ILI visits is number of ILI visits divided by total number of daily outpatient visits.

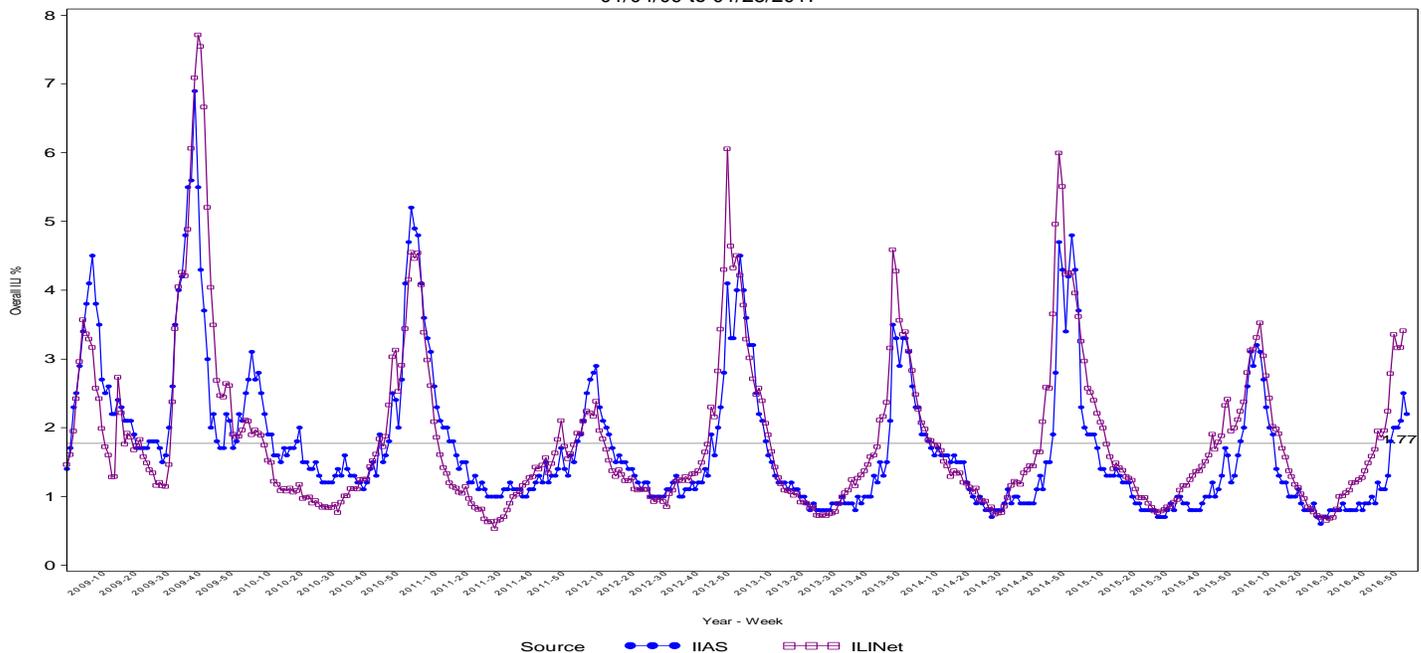
The horizontal line represents the 2016-2017 IIAS baseline. The baseline is the mean percentage of patient visits for ILI during non-Influenza weeks for the previous three seasons plus two standard deviations.

Percentage of Outpatient Visits for Influenza-Like Illness (ILI)  
 Percent ILI for Flu Year 2016 - 2017  
 IIAS vs. ILINet  
 10/02/16 to 01/28/2017



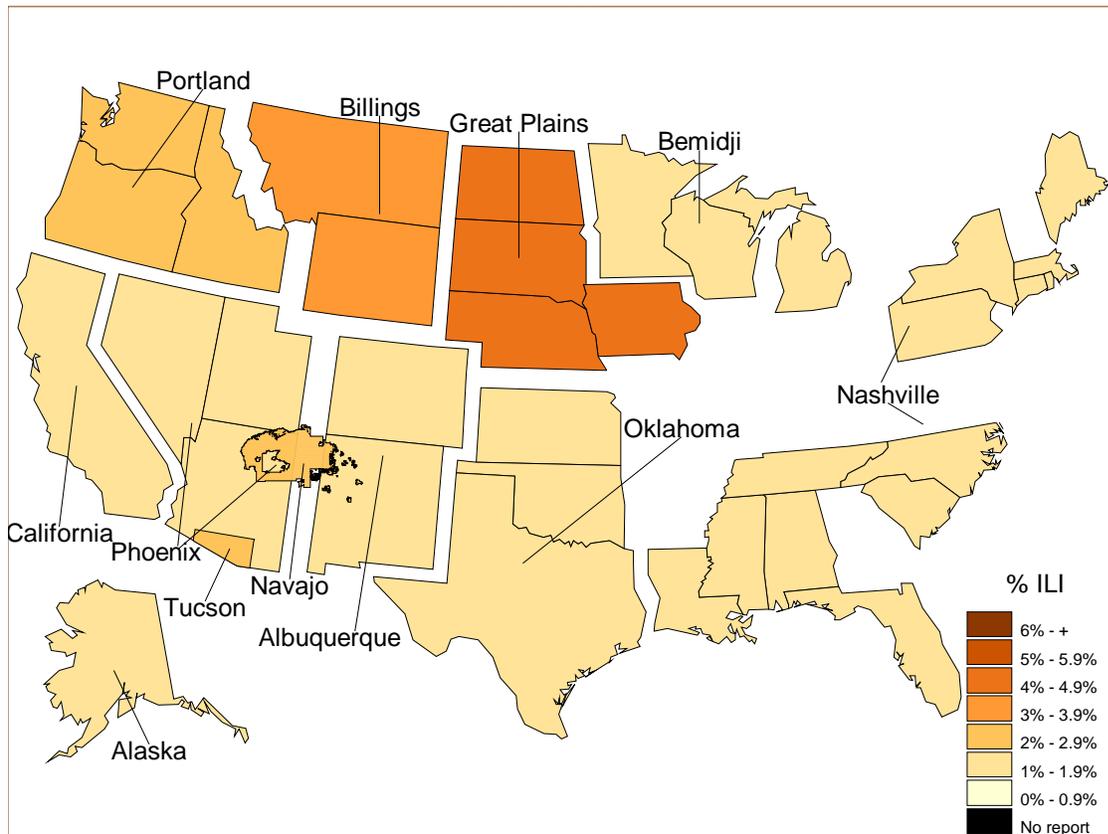
Percent ILI visits is number of ILI visits divided by total number of daily outpatient visits.  
 The horizontal line is the 2016-2017 IIAS baseline. The ILINet baseline value for 2016-2017 is 2.2.  
 Baselines are computed as the mean percentage of ILI patient visits during non-influenza weeks for the previous three seasons, plus two standard deviations.  
 Sources: ILINet - CDC Sentinel Surveillance System for Influenza-Like Illness, IIAS - IHS Influenza Awareness System

Influenza-Like Illness (ILI) All Surveillance Years - Continuous  
 Percentage of Visits for ILI per week  
 IIAS vs. ILINet  
 01/04/09 to 01/28/2017



Percent ILI visits is number of ILI visits divided by total number of daily outpatient visits.  
 The horizontal line is the 2016-2017 IIAS baseline. The ILINet baseline value for 2016-2017 is 2.2.  
 Baselines are computed as the mean percentage of ILI patient visits during non-influenza weeks for the previous three seasons, plus two standard deviations.  
 Sources: ILINet - CDC Sentinel Surveillance System for Influenza-Like Illness, IIAS - IHS Influenza Awareness System

Percentage of Influenza-Like Illness Visits by Region  
For Week: 4



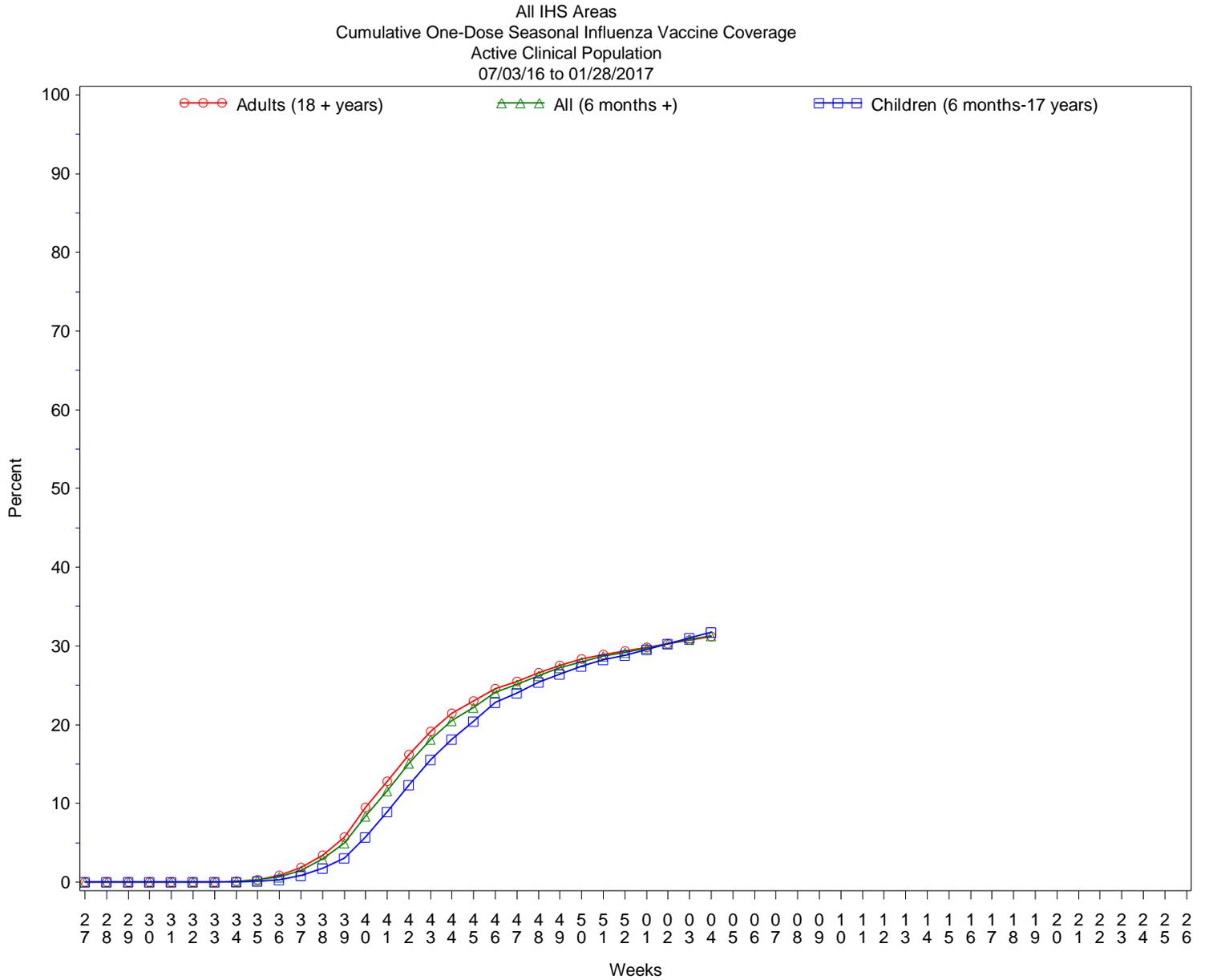
% Visits for ILI Compared to Previous Week

| IHS Areas    | % in Week 3 | % in Week 4 |
|--------------|-------------|-------------|
| NATIONAL     | 2.5         | 2.2         |
| ALASKA       | 2.5         | 1.5         |
| ALBUQUERQUE  | 1.4         | 1.7         |
| BEMIDJI      | 1.2         | 1.1         |
| BILLINGS     | 3.2         | 3.1         |
| CALIFORNIA   | 1.3         | 1.0         |
| GREAT PLAINS | 3.8         | 4.5         |
| NASHVILLE    | 2.0         | 1.8         |
| NAVAJO       | 3.1         | 2.7         |
| OKLAHOMA     | 2.2         | 1.6         |
| PHOENIX      | 2.0         | 1.6         |
| PORTLAND     | 2.7         | 2.0         |
| TUCSON       | 2.6         | 2.2         |

Percentage of ILI visits is number of ILI visits divided by total number of daily visits.

## IHS Influenza Vaccination Surveillance

- As of 01/28/2017, sites reporting to the IIAS have administered 310,770 doses (1st and 2nd) of seasonal influenza vaccine to Active Clinical patients.



## Influenza Vaccination Coverage by Age Group\*

| Age Group                    | Active Clinical Population** | Seasonal Flu Vaccine (At Least 1 Dose)*** | % Seasonal Flu (At Least 1 Dose) | Seasonal Flu Vaccine (At Least 2 Doses) | % Seasonal Flu (At Least 2 Doses) | Total #Doses Administered**** |
|------------------------------|------------------------------|---|----------------------------------|---|-----------------------------------|-------------------------------|
| 0 - 5 months                 | 4,644                        | 44  | 0.9                              | 0                                       | 0.0                               | 45                            |
| 6 - 23 months                | 22,203                       | 11,555                                    | 52.0                             | 2,649                                   | 11.9                              | 14,282                        |
| 2 - 4 years                  | 54,360                       | 15,060                                    | 27.7                             | 400                                     | 0.7                               | 15,569                        |
| 5 - 17 years                 | 204,208                      | 62,293                                    | 30.5                             | 418                                     | 0.2                               | 63,157                        |
| 18 - 49 years                | 415,749                      | 101,181                                   | 24.3                             | 563                                     | 0.1                               | 102,617                       |
| 50 - 64 years                | 173,443                      | 67,121                                    | 38.7                             | 414                                     | 0.2                               | 68,174                        |
| 65 + years                   | 99,017                       | 46,135                                    | 46.6                             | 350                                     | 0.4                               | 46,971                        |
| Children (6 months-17 years) | 280,771                      | 88,908                                    | 31.7                             | 3,467                                   | 1.2                               | 93,008                        |
| Adults (18 + years)          | 688,209                      | 214,437                                   | 31.2                             | 1,327                                   | 0.2                               | 217,762                       |
| All (6 months +)             | 968,980                      | 303,345                                   | 31.3                             | 4,794                                   | 0.5                               | 310,770                       |

\* Limited to sites that exported both doses administered and active clinical population data.

\*\* Active Clinical is defined as patients who have had at least 2 visits in the last 3 years.

\*\*\* Number of unique patients with at least 1 dose, doses deduplicated.

\*\*\*\* Total # Doses Administered = All doses administered to patients including doses not included in coverage calculation due to lack of Active Clinical Population data.

## Influenza Vaccine Doses Administered by Influenza Vaccine Type\*

| Area | INACTIV E CVX CODES* | CVX 88 FLU-NOS** | CVX 111 FLU-LAIV3 | CVX 135 FLU-HIGH | CVX 140 FLU-IIV3pf | CVX 141 FLU-IIV3 | CVX 144 FLU-DER-MAL | CVX 149 FLU-LAIV4 | CVX 150 FLU-IIV4pf | CV X 153 FLU - ccll V3 | CVX 155 FLU-RIV3 | CVX 158 IIV4 | CVX 161 IIV4pf -ped | CVX 166     | Proc 99.5 2 Vac Inf | ICD-9 V04.8 1 Vac Inf | CPT Billing Codes + | Cumulative # of Doses Seasonal Flu |
|------|----------------------|------------------|-------------------|------------------|--------------------|------------------|---------------------|-------------------|--------------------|------------------------|------------------|--------------|---------------------|-------------|---------------------|-----------------------|---------------------|------------------------------------|
| AKA  | 4                    | 282              | 0                 | 442              | 40                 | 578              | 1                   | 0                 | 5844               | 1                      | 2                | 3587         | 501                 | 21          | 0                   | 0                     | 69                  | 11372                              |
| ALB  | 1                    | 195              | 0                 | 1288             | 589                | 10305            | 1                   | 0                 | 4795               | 0                      | 6                | 2050         | 703                 | 1           | 0                   | 0                     | 89                  | 20023                              |
| BEM  | 281                  | 113              | 0                 | 434              | 27                 | 2765             | 0                   | 1                 | 3886               | 5                      | 4                | 3355         | 331                 | 46          | 0                   | 2                     | 256                 | 11506                              |
| BIL  | 5                    | 259              | 0                 | 996              | 13                 | 2250             | 0                   | 0                 | 10972              | 0                      | 1                | 1696         | 986                 | 157         | 0                   | 0                     | 124                 | 17459                              |
| CAO  | 17                   | 206              | 0                 | 1383             | 29                 | 2868             | 1                   | 7                 | 8262               | 0                      | 2                | 5313         | 1544                | 59          | 0                   | 2                     | 125                 | 19818                              |
| GPA  | 3                    | 464              | 0                 | 1054             | 149                | 12511            | 0                   | 0                 | 12459              | 12                     | 26               | 5488         | 1159                | 9           | 0                   | 0                     | 100                 | 33434                              |
| NSA  | 221                  | 358              | 0                 | 354              | 136                | 5621             | 235                 | 0                 | 4092               | 4                      | 20               | 355          | 167                 | 334         | 0                   | 0                     | 127                 | 12024                              |
| NAV  | 28                   | 371              | 1                 | 1795             | 26                 | 10009            | 9                   | 0                 | 12882              | 1                      | 1                | 42781        | 2681                | 1078        | 0                   | 0                     | 200                 | 71863                              |
| OKC  | 263                  | 2389             | 0                 | 2438             | 13                 | 28842            | 7                   | 1                 | 9441               | 1                      | 17               | 2791         | 1507                | 542         | 0                   | 0                     | 221                 | 48473                              |
| PHX  | 3                    | 535              | 0                 | 1432             | 96                 | 10432            | 20                  | 0                 | 21145              | 0                      | 20               | 633          | 2447                | 1           | 0                   | 0                     | 228                 | 36992                              |
| POR  | 10                   | 430              | 1                 | 778              | 1257               | 8174             | 12                  | 1                 | 5240               | 29                     | 22               | 3473         | 389                 | 1226        | 0                   | 0                     | 856                 | 21898                              |
| TUC  | 0                    | 56               | 0                 | 32               | 28                 | 8                | 0                   | 0                 | 6397               | 1                      | 0                | 38           | 469                 | 0           | 0                   | 0                     | 38                  | 7067                               |
| HQ   | 0                    | 2                | 0                 | 0                | 0                  | 0                | 0                   | 0                 | 0                  | 0                      | 0                | 0            | 0                   | 0           | 0                   | 0                     | 0                   | 2                                  |
|      | <b>836</b>           | <b>5660</b>      | <b>2</b>          | <b>12426</b>     | <b>2403</b>        | <b>94363</b>     | <b>286</b>          | <b>10</b>         | <b>105415</b>      | <b>54</b>              | <b>121</b>       | <b>71560</b> | <b>12884</b>        | <b>3474</b> | <b>0</b>            | <b>4</b>              | <b>2433</b>         | <b>311931</b>                      |

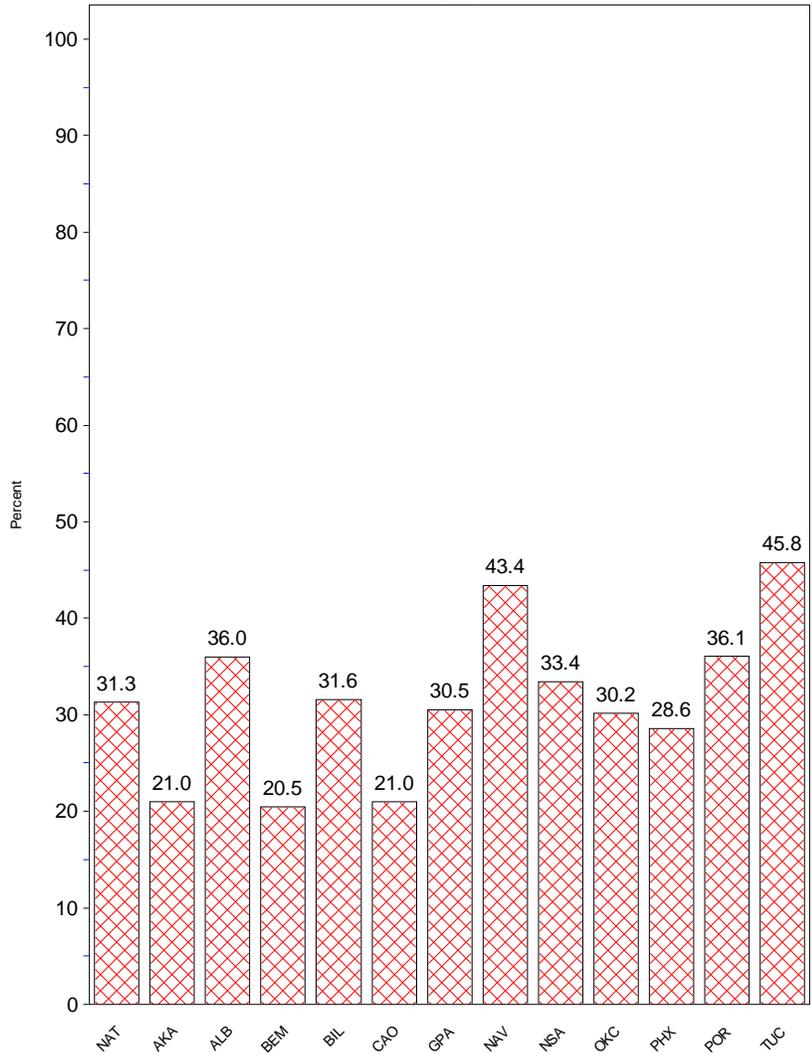
\* Inactive CVX Codes 15 (FLU-TIVhx), 16 (FLU-WHOLE), 123 (FLU-H5N1), and 151 (FLU-NasNOS) should not be used to document flu vaccines given this flu season. Doses are NOT deduplicated.

\*\* CVX Code 88 (FLU-NOS) should only be used to document flu vaccines given elsewhere when flu vaccine type is unknown.

+ CPT Flu codes include: 90654-90662, 90672-90673, 90685-90686, 90724, G0008, G8108.

^ ICD9 codes V04.8 and V06.6 are not displayed on this report and are not used in any of the influenza vaccine coverage calculations.

All IHS Areas  
Influenza Vaccine Coverage by Age Groups – All (6 mos+)  
%Seasonal Flu (At least 1 dose) for Active Clinical Population  
07/03/16 to 01/28/2017



- This report includes data from the following number of Resource and Patient Management System (RPMS) databases:

| <b>IHS Area</b> | <b># of RPMS Databases Reporting*</b> | <b># of Facilities Reporting**</b> |
|-----------------|---------------------------------------|------------------------------------|
| NATIONAL        | 159                                   | 293                                |
| ALASKA          | 7                                     | 48                                 |
| ALBUQUERQUE     | 12                                    | 16                                 |
| BEMIDJI         | 5                                     | 12                                 |
| BILLINGS        | 13                                    | 24                                 |
| CALIFORNIA      | 22                                    | 33                                 |
| GREAT PLAINS    | 18                                    | 36                                 |
| NASHVILLE       | 20                                    | 24                                 |
| NAVAJO          | 7                                     | 17                                 |
| OKLAHOMA        | 19                                    | 26                                 |
| PHOENIX         | 14                                    | 27                                 |
| PORTLAND        | 21                                    | 26                                 |
| TUCSON          | 1                                     | 4                                  |

\* Exporting databases may include data from multiple facilities.

\*\* Includes only facility categories: Hospital, Health Center, Health Station, Health Location, and Alaska Village Clinic.