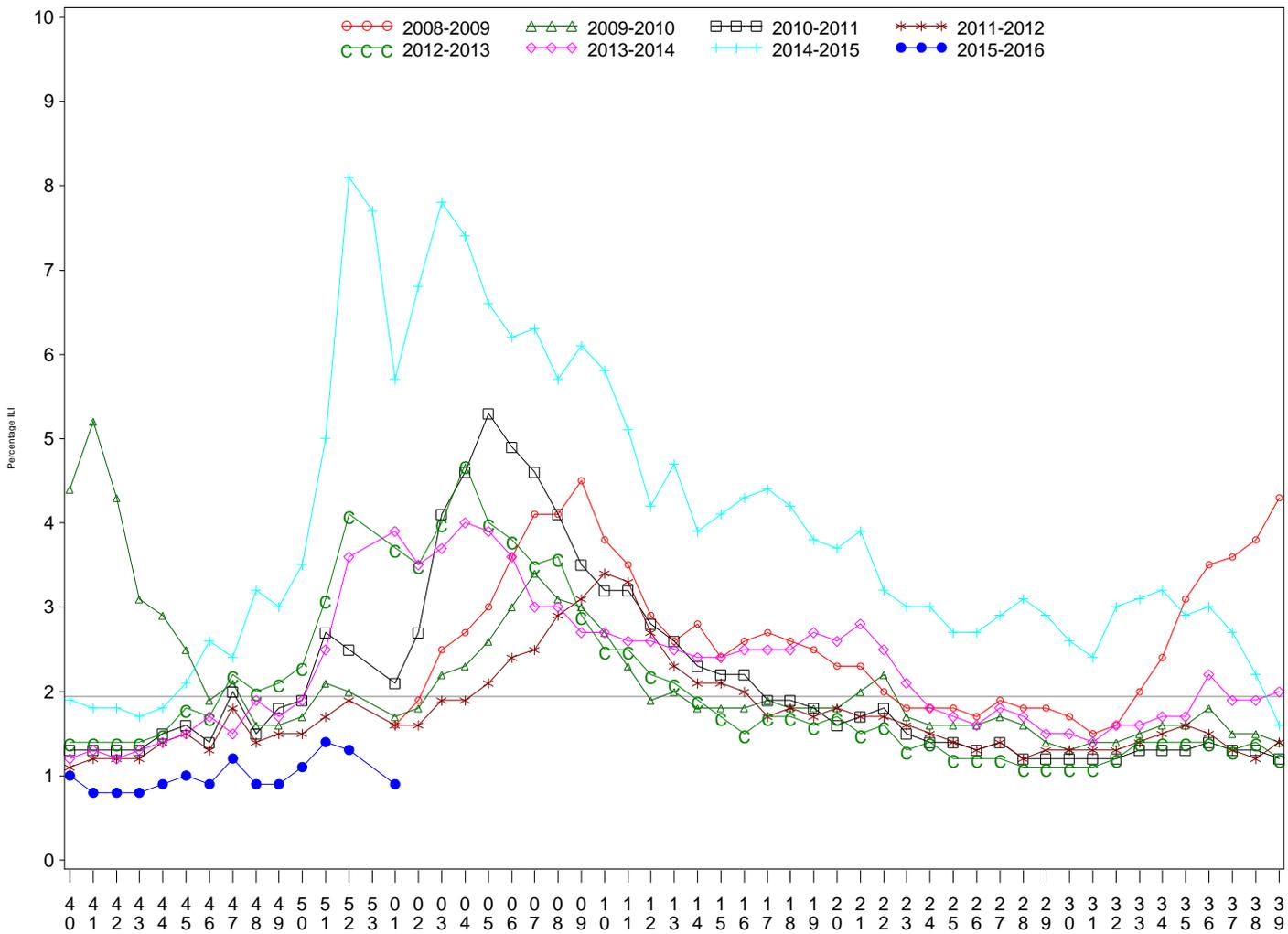




**Indian Health Service**  
 Division of Epidemiology and Disease Prevention  
**Influenza Surveillance Report**  
*IHS Influenza Awareness System (IIAS)*  
 (Week 1: 1/03/2016 – 1/09/2016)

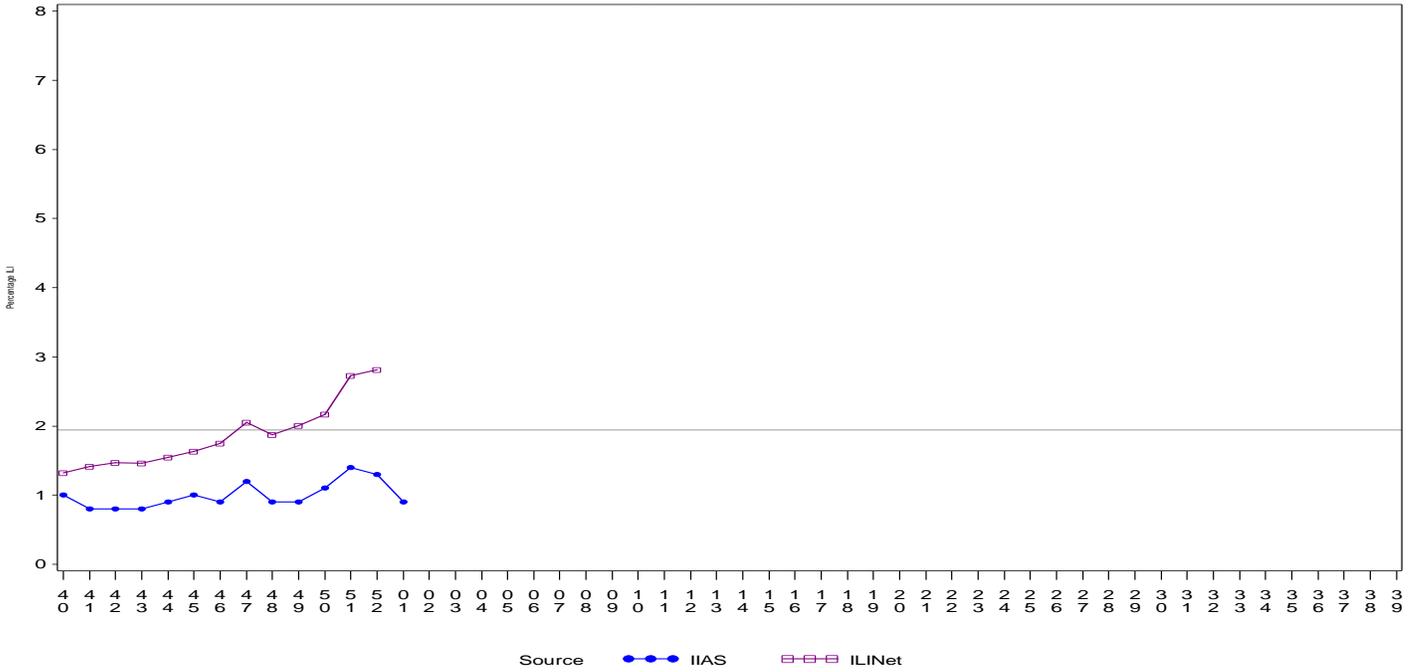
- Influenza-like-illness (ILI) activity in IHS is low, and below the national baseline.
- To date IHS has administered over 318,000 doses of influenza vaccine.
- Overall, 29% of the IHS Active Clinical population received an influenza vaccine this season.

All IHS Areas  
 Influenza-Like Illness (ILI) for All Surveillance Years  
 Percentage of Visits for ILI per week  
 01/04/09 to 01/09/16



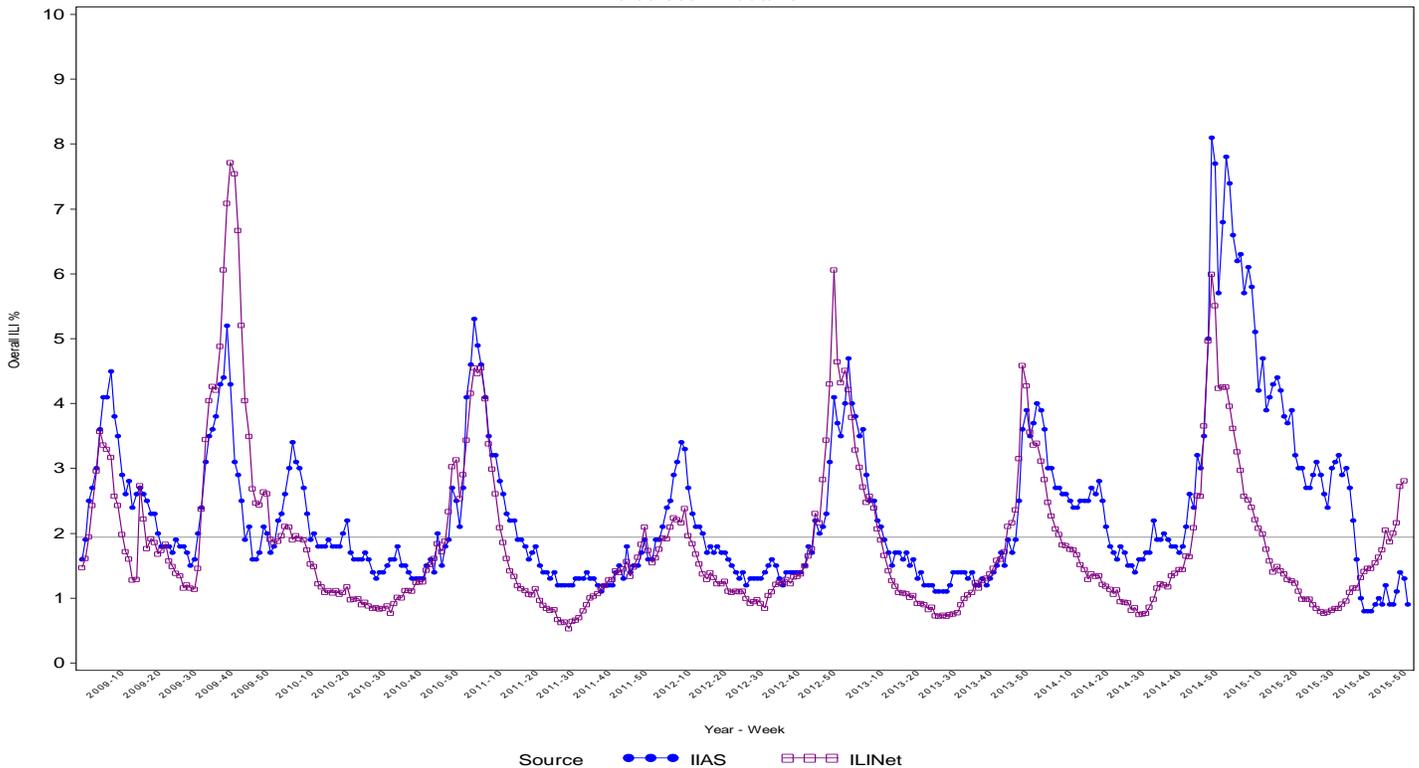
Percentage of ILI visits is number of ILI visits divided by total number of daily visits.  
 The horizontal line represents the 2014-2015 baseline. The baseline is the mean percentage of patient visits for ILI during non-influenza weeks for the previous three seasons plus two standard deviations.  
 Sources: ILINet - CDC Sentinal Surveillance System for Influenza-Like Illness, IIAS - IHS Influenza Awareness System

Proportion of Outpatient Visits for Influenza-Like Illness (ILI)  
 Percent ILI for Flu Year 2015 - 2016  
 ILINet vs. IIAS  
 10/04/15 to 1/09/16



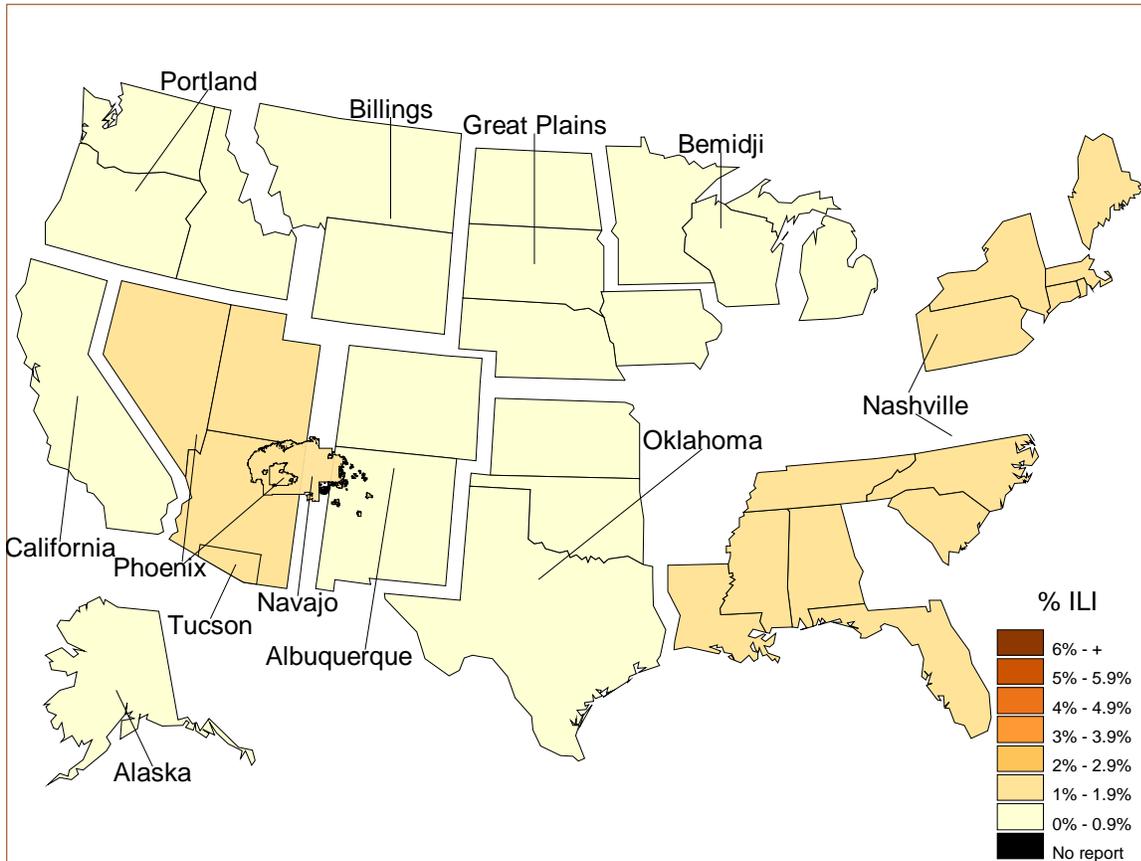
Percentage of ILI visits is number of ILI visits divided by total number of daily visits (outpatient visits).  
 The horizontal line represents the 2014-2015 baseline. The baseline is the mean percentage of patient visits for ILI during non-influenza weeks for the previous three seasons plus two standard deviations.

IIAS versus ILINet  
 Influenza-Like Illness (ILI) All Surveillance Years - Continuous  
 Percentage of Visits for ILI per week  
 01/04/09 to 1/09/16



Percentage of ILI visits is number of ILI visits divided by total number of daily visits (outpatient visits).  
 The horizontal line represents the 2014-2015 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 Influenza-Like Illness Visits by IHS Area  
For Week: 1



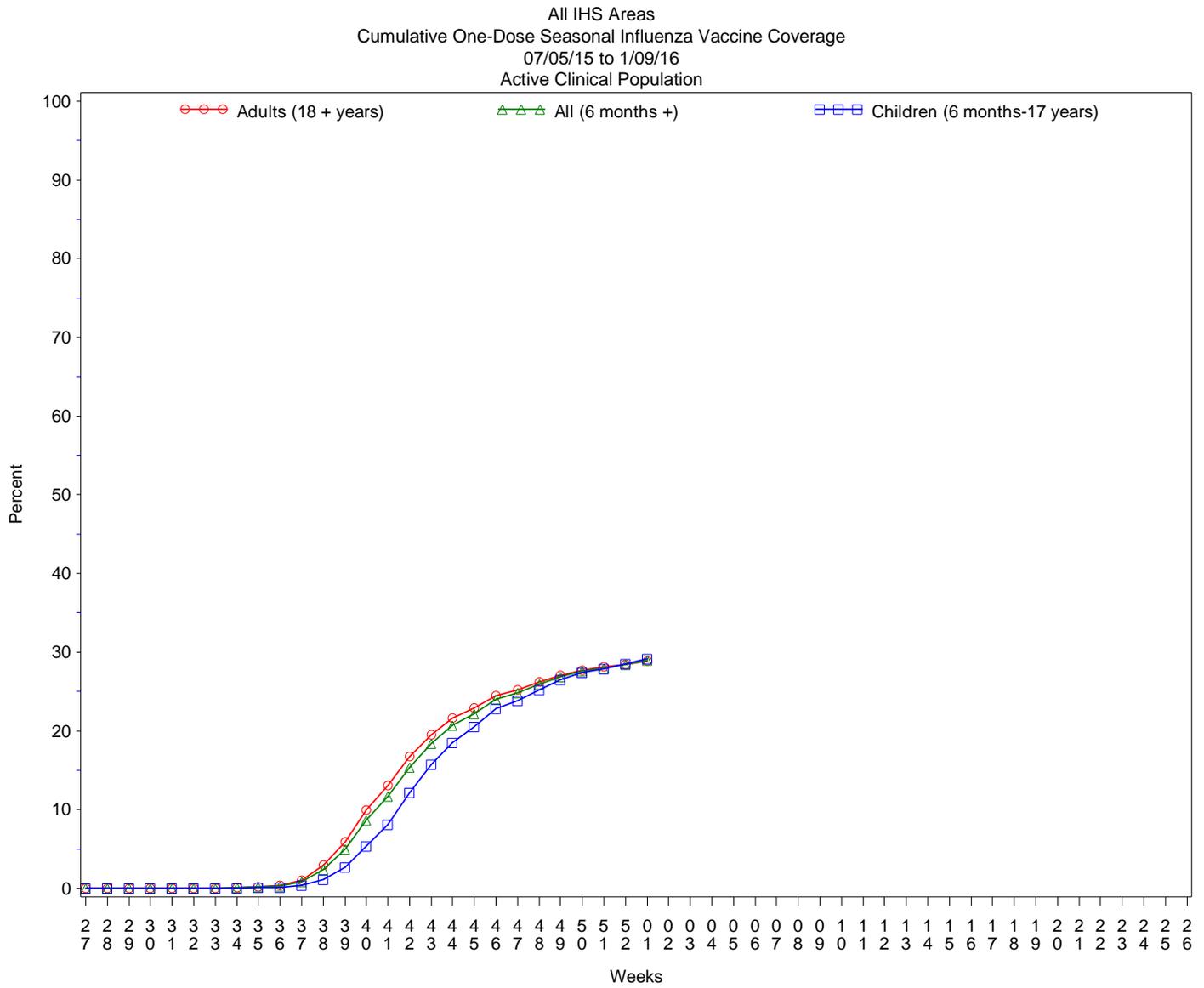
% Visits for ILI Compared to Previous Week

| IHS Areas    | % in Week 52 | % in Week 1 |
|--------------|--------------|-------------|
| NATIONAL     | 1.3          | 0.9         |
| ALASKA       | 0.9          | 0.5         |
| ALBUQUERQUE  | 0.6          | 0.5         |
| BEMIDJI      | 1.2          | 0.7         |
| BILLINGS     | 1.0          | 0.8         |
| CALIFORNIA   | 0.7          | 0.6         |
| GREAT PLAINS | 0.9          | 0.8         |
| NASHVILLE    | 2.3          | 1.0         |
| NAVAJO       | 1.6          | 1.2         |
| OKLAHOMA     | 1.1          | 0.7         |
| PHOENIX      | 1.8          | 1.0         |
| PORTLAND     | 1.0          | 0.6         |
| TUCSON       | 2.4          | 1.3         |

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

## IHS Influenza Vaccination Surveillance

- As of 1/09/2016, sites reporting to the IAS have administered 318,101 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                 | 4,867                        | 77  | 1.6                              | 31                                      | 0.6                               | 109                           |
| 6 - 23 months                | 24,121                       | 10,794                                    | 44.7                             | 1,992                                   | 8.3                               | 12,829                        |
| 2 - 4 years                  | 59,674                       | 15,046                                    | 25.2                             | 264                                     | 0.4                               | 15,407                        |
| 5 - 17 years                 | 223,721                      | 64,019                                    | 28.6                             | 410                                     | 0.2                               | 64,847                        |
| 18 - 49 years                | 464,860                      | 105,174                                   | 22.6                             | 566                                     | 0.1                               | 106,621                       |
| 50 - 64 years                | 192,789                      | 69,874                                    | 36.2                             | 428                                     | 0.2                               | 70,864                        |
| 65 + years                   | 109,057                      | 46,683                                    | 42.8                             | 406                                     | 0.4                               | 47,533                        |
| Children (6 months-17 years) | 307,516                      | 89,859                                    | 29.2                             | 2,666                                   | 0.9                               | 93,083                        |
| Adults (18 + years)          | 766,706                      | 221,731                                   | 28.9                             | 1,400                                   | 0.2                               | 225,018                       |
| All (6 months +)             | 1,074,222                    | 311,590                                   | 29.0                             | 4,066                                   | 0.4                               | 318,101                       |

\* 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 Vaccination Doses Administered by Influenza Vaccination Type\*

| Area | INACTIVE 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 | CVX 153 FLU-cclIV3 | CVX 155 FLU-RIV3 | CVX 158 IIV4 | CVX 161 IIV4pf-ped | CVX 166     | Proc 99.52 Vac Inf | ICD-9 V04.81 Vac Inf | CPT Billing Codes+ | Cumulative # of Doses Seasonal Flu |
|------|---------------------|------------------|-------------------|------------------|--------------------|------------------|---------------------|-------------------|--------------------|--------------------|------------------|--------------|--------------------|-------------|--------------------|----------------------|--------------------|------------------------------------|
| AKA  | 15                  | 220              | 3                 | 257              | 302                | 932              | 3                   | 812               | 4060               | 74                 | .                | 3609         | 355                | 21          | .                  | 4                    | 117                | 10784                              |
| ALB  | 35                  | 138              | 9                 | 1415             | 4677               | 13538            | 1                   | 2163              | 1141               | 1                  | 198              | 1381         | 708                | 9           | .                  | 11                   | 367                | 25792                              |
| BEM  | 159                 | 62               | 6                 | 337              | 400                | 5958             | 88                  | 743               | 1457               | 2                  | 2                | 780          | 242                | 2           | .                  | 65                   | 105                | 10408                              |
| BIL  | 6                   | 167              | 4                 | 1087             | 7776               | 3840             | 1                   | 1706              | 3372               | .                  | .                | 632          | 352                | 1           | .                  | 15                   | 119                | 19078                              |
| CAO  | 104                 | 253              | 6                 | 1326             | 2259               | 5147             | 9                   | 1540              | 4953               | .                  | 1                | 4363         | 505                | 34          | .                  | 16                   | 285                | 20801                              |
| GPA  | 209                 | 515              | 43                | 513              | 5000               | 14612            | 1                   | 1684              | 3651               | 1                  | 4                | 4072         | 1110               | 4           | .                  | 31                   | 90                 | 31540                              |
| NSA  | 2                   | 94               | .                 | 231              | 1377               | 6228             | 146                 | 393               | 2915               | 1                  | 9                | 254          | 70                 | 284         | .                  | 8                    | 148                | 12160                              |
| NAV  | 143                 | 261              | 2                 | 905              | 313                | 64023            | 1                   | 950               | 8695               | 1                  | 2                | 3952         | 1602               | 102         | .                  | 72                   | 576                | 81600                              |
| OKC  | 468                 | 1248             | 61                | 2000             | 1484               | 27762            | 33                  | 1486              | 3943               | 2                  | 16               | 2173         | 740                | 402         | 33                 | 40                   | 190                | 42081                              |
| PHX  | 15                  | 450              | 5                 | 1910             | 9803               | 18039            | 14                  | 2129              | 8138               | .                  | 6                | 636          | 1956               | 16          | 2                  | 42                   | 380                | 43541                              |
| POR  | 24                  | 560              | 21                | 910              | 1979               | 10476            | 3                   | 1930              | 3125               | 18                 | 9                | 2744         | 316                | 483         | .                  | 94                   | 142                | 22834                              |
| TUC  | .                   | 121              | 1                 | 30               | 5219               | 358              | 2                   | 245               | 1075               | .                  | .                | 10           | 461                | 1           | .                  | 27                   | 75                 | 7625                               |
|      | <b>1180</b>         | <b>4089</b>      | <b>161</b>        | <b>10921</b>     | <b>40589</b>       | <b>170913</b>    | <b>302</b>          | <b>15781</b>      | <b>46525</b>       | <b>100</b>         | <b>247</b>       | <b>24606</b> | <b>8417</b>        | <b>1359</b> | <b>35</b>          | <b>425</b>           | <b>2594</b>        | <b>328244</b>                      |

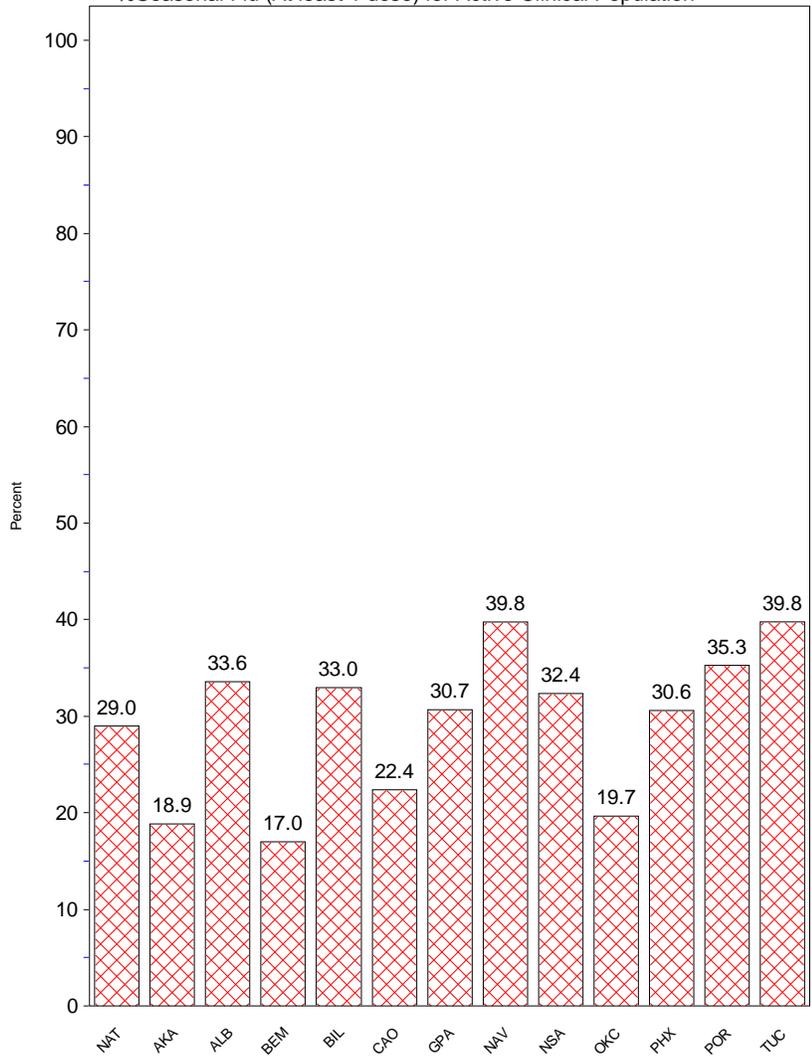
\* Inactive CVX Codes 15 (FLU-TIVhx), 16 (FLU-WHOLE), 123 (FLU-H5N1), and 151 (FLU-NasNOS) should not be used to document flu vaccines given this flu season. Doses are NOT deduplicated.

\*\* 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+)  
07/05/15 to 1/09/16  
%Seasonal Flu (At least 1 dose) for Active Clinical Population



- 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        | 161                                   | 311                                |
| ALASKA          | 11                                    | 66                                 |
| ALBUQUERQUE     | 13                                    | 22                                 |
| BEMIDJI         | 5                                     | 9                                  |
| BILLINGS        | 13                                    | 24                                 |
| CALIFORNIA      | 20                                    | 36                                 |
| GREAT PLAINS    | 17                                    | 33                                 |
| NASHVILLE       | 18                                    | 22                                 |
| NAVAJO          | 8                                     | 22                                 |
| OKLAHOMA        | 18                                    | 20                                 |
| PHOENIX         | 16                                    | 28                                 |
| PORTLAND        | 21                                    | 25                                 |
| TUCSON          | 1                                     | 4                                  |

\* Exporting databases may include data from multiple facilities.

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