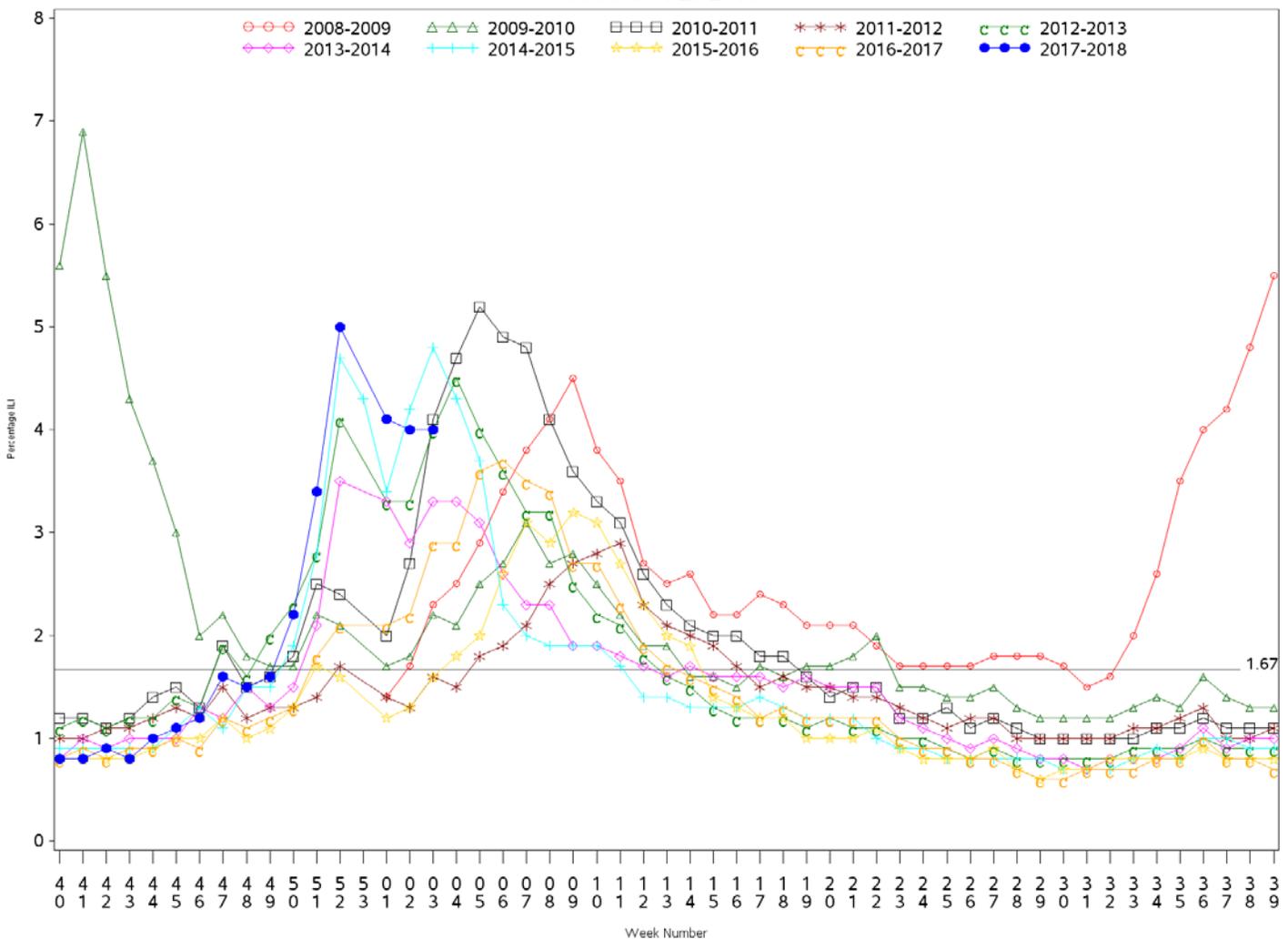




Indian Health Service
 Division of Epidemiology and Disease Prevention
Influenza Surveillance Report
IHS Influenza Awareness System (IIAS)
(Week 03: 01/14/2018 – 01/20/2018)

- Influenza-like-illness (ILI) activity in IHS is decreasing but remains elevated at 4.0%, above the IHS baseline of 1.67%
 - Eleven IHS regions are reporting elevated ILI activity
- National ILI activity reported by CDC is elevated and increasing in a majority of US states
 - CDC's ILINet ILI activity is 6.3%, above the ILINet baseline (2.2%) and the IHS baseline (1.67%).
- To date, IHS has administered over 303,000 doses of influenza vaccine.
- Overall, 31.7% of the IHS Active Clinical population received an influenza vaccine this season.

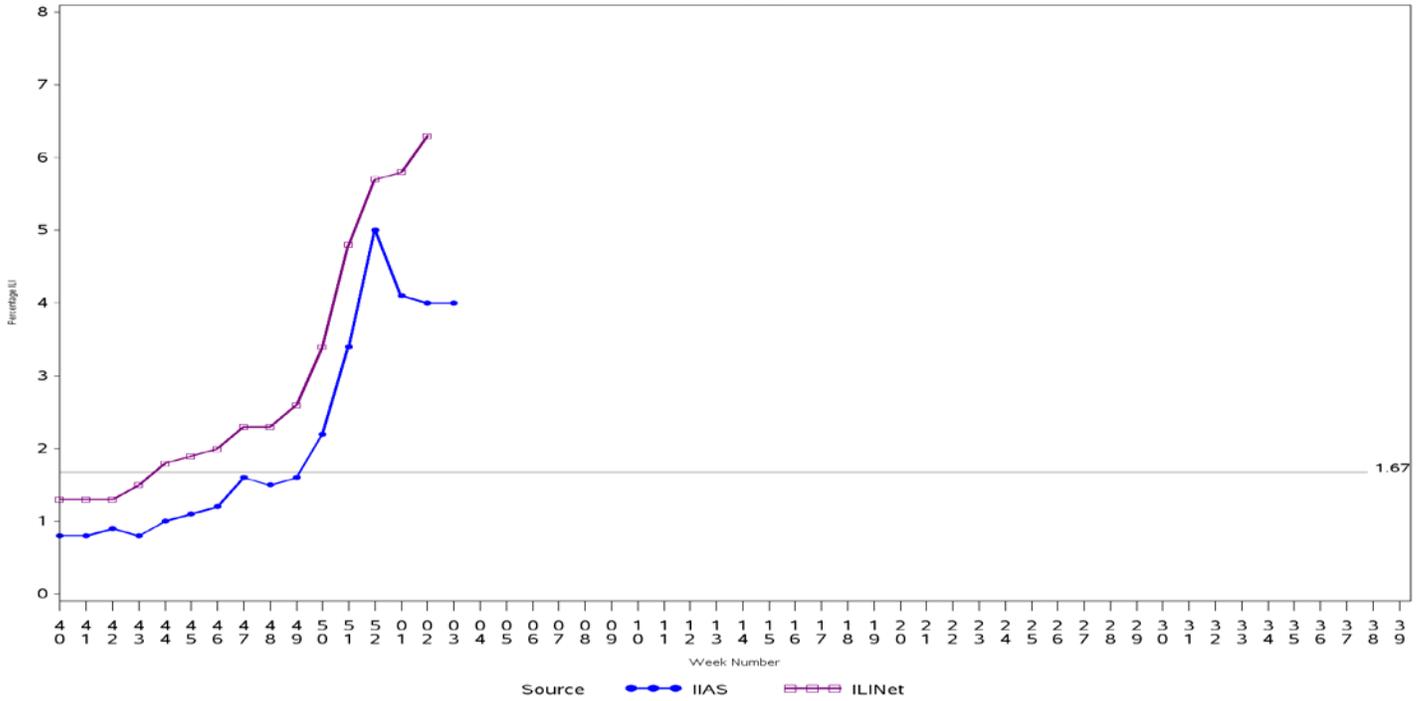
All IHS Areas
 Influenza-Like Illness (ILI) for All Surveillance Years
 Percentage of Visits for ILI per week
 01/04/09 to 01/20/2018



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

The horizontal line represents the 2017-2018 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 2017 - 2018
 IIAS vs. ILINet
 10/01/17 to 01/20/2018



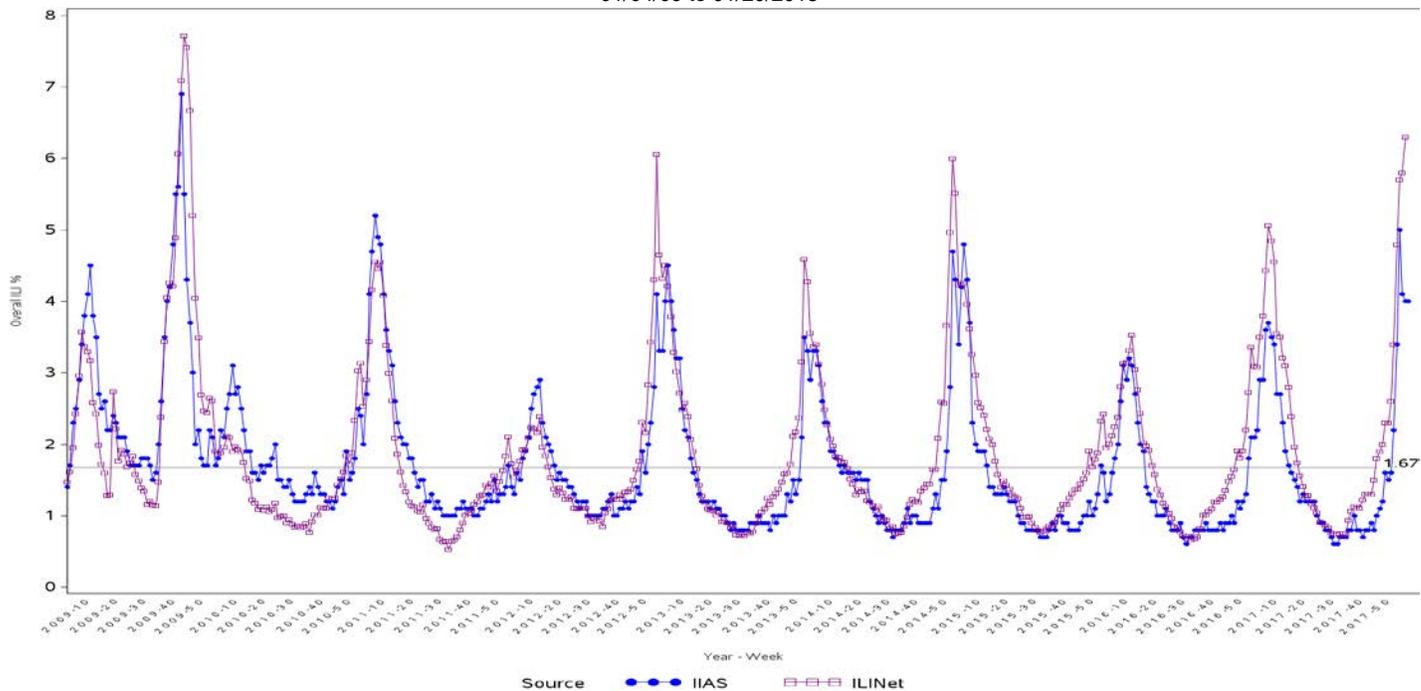
Percent ILI visits is number of ILI visits divided by total number of daily outpatient visits.

The horizontal line is the 2017-2018 IIAS baseline. The ILINet baseline value for 2017-2018 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 01/20/2018

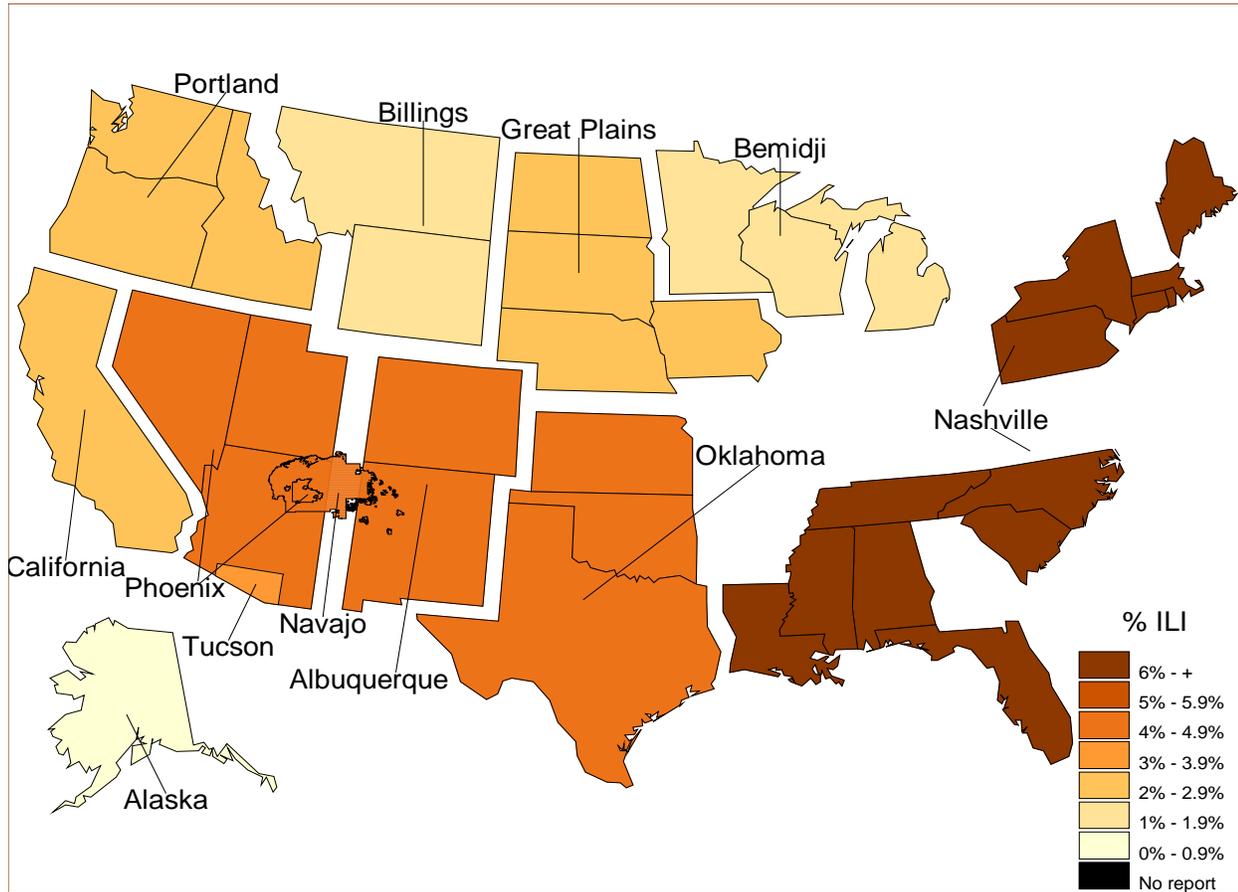


Percent ILI visits is number of ILI visits divided by total number of daily outpatient visits.

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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: 03



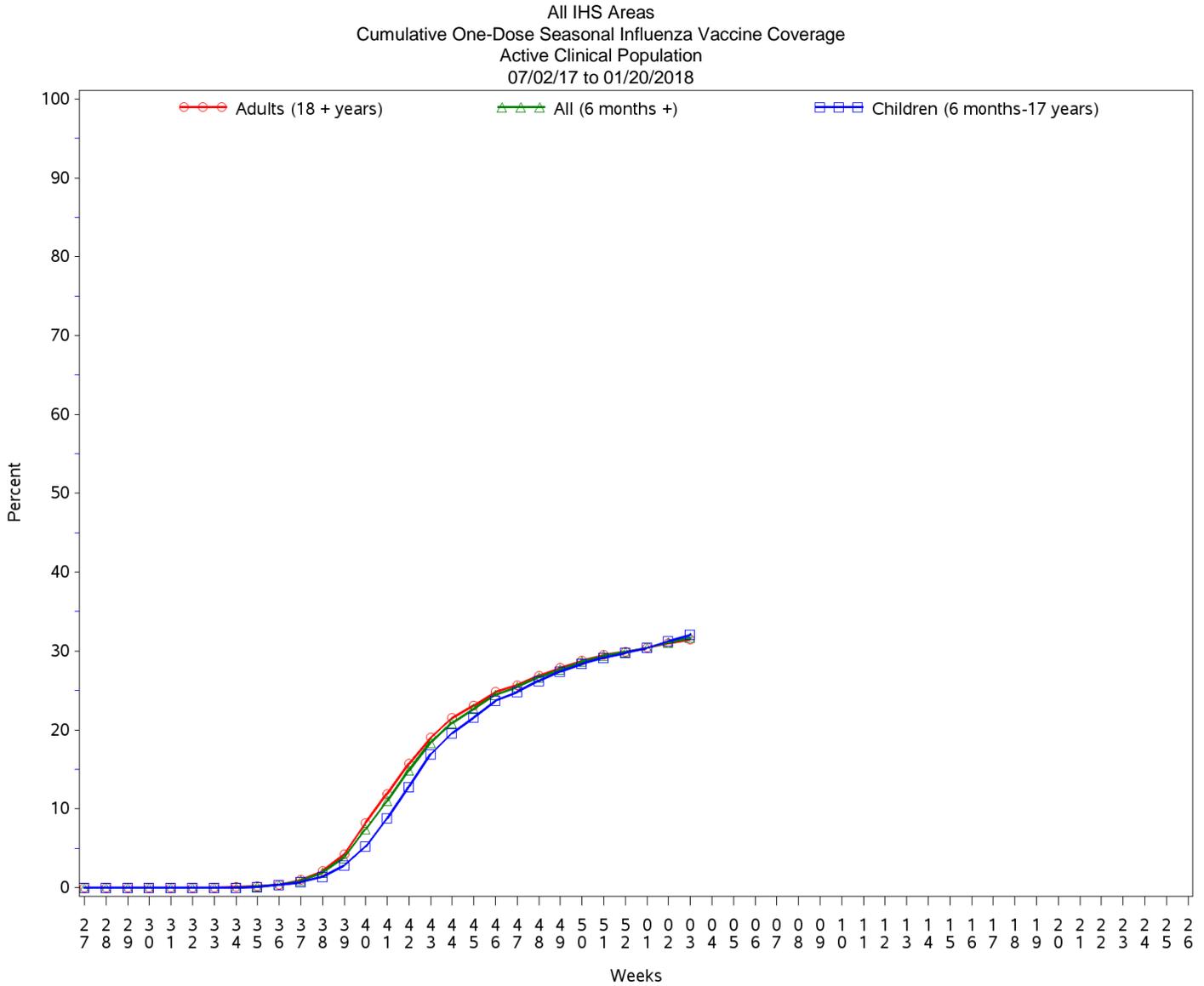
% Visits for ILI Compared to Previous Week

| IHS Areas | % in Week 02 | % in Week 03 |
|--------------|--------------|--------------|
| NATIONAL | 4.0 | 4.0 |
| ALASKA | 0.9 | 0.7 |
| ALBUQUERQUE | 5.0 | 4.9 |
| BEMIDJI | 2.9 | 1.7 |
| BILLINGS | 1.9 | 1.8 |
| CALIFORNIA | 1.8 | 2.0 |
| GREAT PLAINS | 2.2 | 2.8 |
| NASHVILLE | 6.9 | 8.5 |
| NAVAJO | 5.0 | 4.6 |
| OKLAHOMA | 4.0 | 4.8 |
| PHOENIX | 5.1 | 4.3 |
| PORTLAND | 2.7 | 2.5 |
| TUCSON | 2.9 | 3.2 |

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

IHS Influenza Vaccination Surveillance

- As of 01/20/2018, sites reporting to the IIAS have administered 303,963 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 | 4,236 | 46 | 1.1 | 0 | 0.0 | 46 |
| 6 - 23 months | 20,507 | 10,218 | 49.8 | 2,312 | 11.3 | 12,554 |
| 2 - 4 years | 51,453 | 14,412 | 28.0 | 360 | 0.7 | 14,797 |
| 5 - 17 years | 196,544 | 61,618 | 31.4 | 312 | 0.2 | 62,079 |
| 18 - 49 years | 402,835 | 97,550 | 24.2 | 481 | 0.1 | 98,332 |
| 50 - 64 years | 170,416 | 66,229 | 38.9 | 315 | 0.2 | 66,766 |
| 65 + years | 101,475 | 48,846 | 48.1 | 312 | 0.3 | 49,435 |
| Children (6 months-17 years) | 268,504 | 86,248 | 32.1 | 2,984 | 1.1 | 89,430 |
| Adults (18 + years) | 674,726 | 212,625 | 31.5 | 1,108 | 0.2 | 214,533 |
| All (6 months +) | 943,230 | 298,873 | 31.7 | 4,092 | 0.4 | 303,963 |

* 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 | Inactive CVX Codes* | CVX 88 FLU-NOS** | CVX 135 FLU-HIGH | CVX 140 FLU-IIV3pf | CVX 141 FLU-IIV3 | CVX 149 FLU-LAIV 4 | CVX 150 FLU-IIV4pf | CVX 155 FLU-RIV3 | CVX 158 FLU-IIV4 | CVX 161 IIV4pf ped | CVX 166 FLU-DERM4 | CVX 168 FLU-IIV3ad | CVX 171 FLU-ccl4pf | CVX 185 FLU-RIV4 | CVX 186 FLU-ccl4 | Proc 99.52 Vac Inf | ICD-9 V04.81 Vac Inf | CPT Billing Codes + | Cumulative # of Doses Seasonal Flu |
|------|---------------------|------------------|------------------|--------------------|------------------|--------------------|--------------------|------------------|------------------|--------------------|-------------------|--------------------|--------------------|------------------|------------------|--------------------|----------------------|---------------------|------------------------------------|
| AKA | 1 | 27 | 382 | 4 | 87 | 0 | 4,459 | 0 | 1,089 | 455 | 2 | 0 | 46 | 0 | 0 | 0 | 0 | 37 | 6,589 |
| ALB | 0 | 191 | 1,823 | 42 | 1,100 | 0 | 11,226 | 17 | 8,091 | 897 | 1,029 | 2 | 9 | 46 | 13 | 0 | 0 | 63 | 24,549 |
| BEM | 1 | 113 | 379 | 8 | 384 | 0 | 4,934 | 1 | 4,494 | 275 | 6 | 14 | 8 | 35 | 0 | 0 | 0 | 51 | 10,703 |
| BIL | 0 | 69 | 1,429 | 4 | 137 | 0 | 10,630 | 5 | 2,562 | 360 | 127 | 0 | 134 | 257 | 2 | 0 | 0 | 86 | 15,802 |
| CAO | 3 | 379 | 1,680 | 56 | 1,384 | 0 | 6,832 | 2 | 4,287 | 390 | 89 | 0 | 622 | 0 | 1 | 0 | 0 | 184 | 15,909 |
| GPA | 1 | 339 | 1,490 | 6 | 1,190 | 1 | 16,311 | 10 | 9,768 | 1,692 | 4 | 3 | 199 | 31 | 7 | 0 | 0 | 97 | 31,149 |
| NSA | 1 | 121 | 346 | 19 | 375 | 0 | 4,480 | 5 | 5,361 | 311 | 454 | 1 | 83 | 16 | 3 | 0 | 0 | 191 | 11,767 |
| NAV | 7 | 300 | 2,041 | 16 | 1,558 | 1 | 25,564 | 11 | 44,011 | 2,123 | 654 | 0 | 18 | 54 | 18 | 0 | 0 | 157 | 76,533 |
| OKC | 7 | 2,548 | 3,134 | 7 | 2,463 | 2 | 10,815 | 11 | 22,649 | 2,575 | 441 | 1 | 1,868 | 17 | 32 | 0 | 0 | 68 | 46,638 |
| PHX | 0 | 811 | 1,731 | 2 | 437 | 0 | 20,003 | 12 | 12,170 | 620 | 4 | 2 | 13 | 11 | 3 | 0 | 0 | 116 | 35,935 |
| POR | 5 | 297 | 1,481 | 301 | 440 | 0 | 7,641 | 20 | 8,425 | 594 | 911 | 67 | 948 | 271 | 15 | 0 | 0 | 168 | 21,584 |
| TUC | 0 | 31 | 33 | 20 | 1 | 0 | 7,111 | 0 | 83 | 30 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 38 | 7,347 |
| | 26 | 5,226 | 15,949 | 485 | 9,556 | 4 | 130,006 | 94 | 122,990 | 10,322 | 3,721 | 90 | 3,948 | 738 | 94 | 0 | 0 | 1,256 | 304,505 |

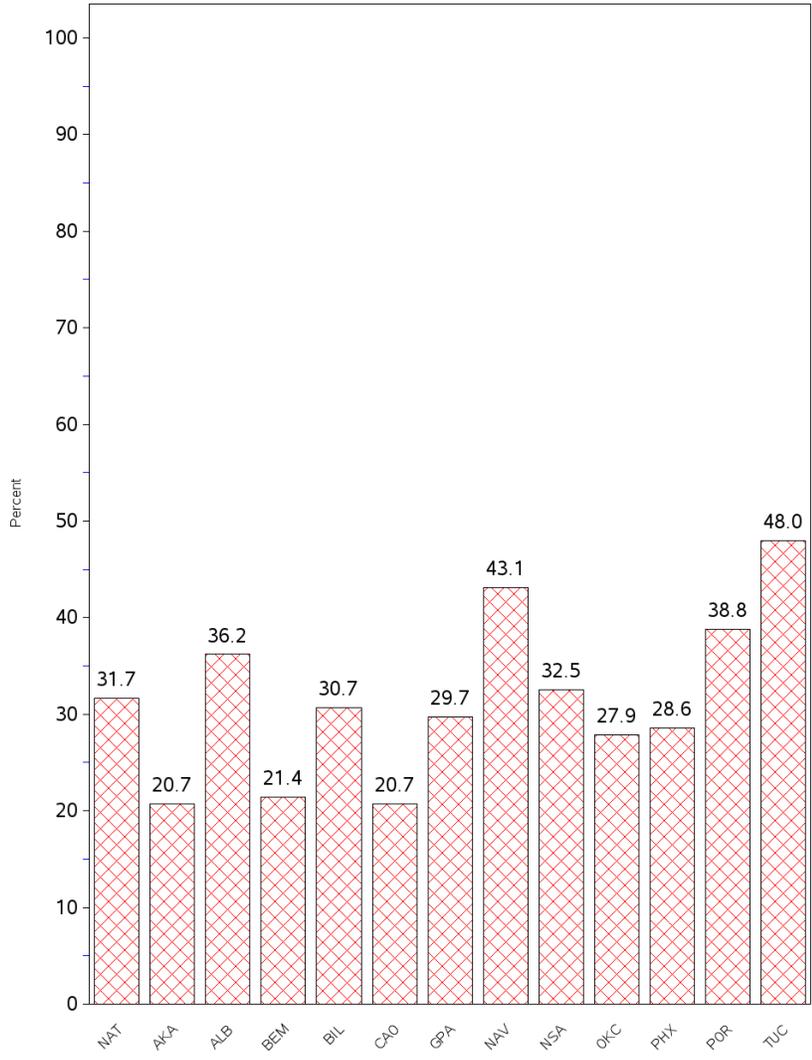
* Inactive CVX Codes 15 (FLU-TIVhx), 16 (FLU-WHOLE), 123 (FLU-H5N1), and 151 (FLU-NasNOS) should not be used to document flu vaccines given this flu season. Doses are NOT deduplicated.

** 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 months and older)
%Seasonal Flu (At least 1 dose) for Active Clinical Population
07/02/17 to 01/20/2018



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

| IHS Area | # of RPMS Databases Reporting* | # of Facilities Reporting** |
|-----------------|---------------------------------------|------------------------------------|
| NATIONAL | 139 | 258 |
| ALASKA | 5 | 46 |
| ALBUQUERQUE | 12 | 19 |
| BEMIDJI | 5 | 8 |
| BILLINGS | 11 | 20 |
| CALIFORNIA | 15 | 18 |
| GREAT PLAINS | 11 | 25 |
| NASHVILLE | 20 | 24 |
| NAVAJO | 8 | 24 |
| OKLAHOMA | 19 | 26 |
| PHOENIX | 12 | 20 |
| PORTLAND | 20 | 24 |
| 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.