# Indian Health Service
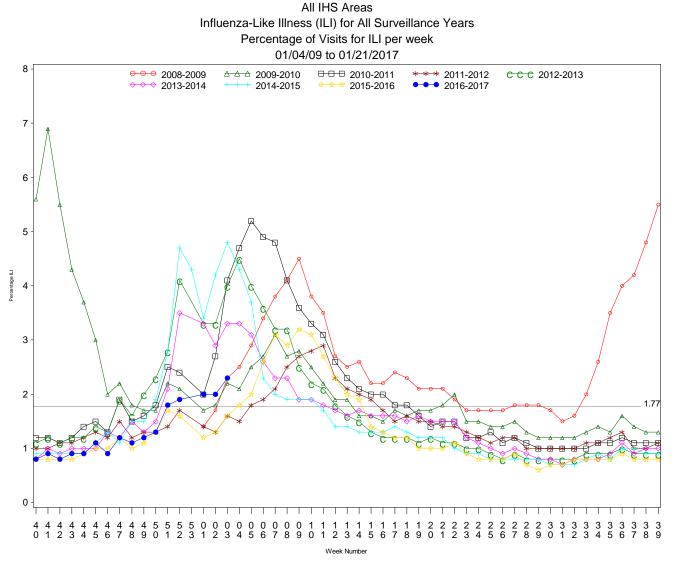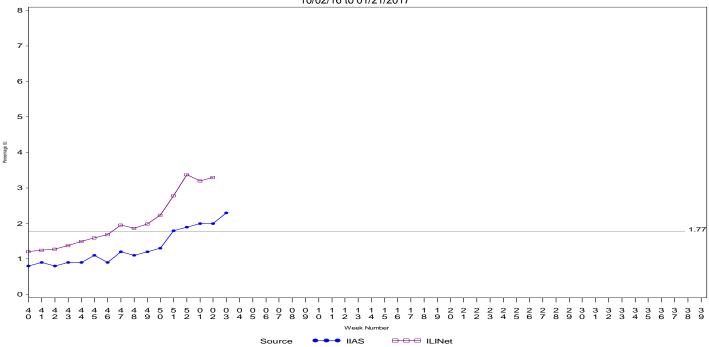## Division of Epidemiology and Disease Prevention
### Influenza Surveillance Report
*IHS Influenza Awareness System (IIAS)*
**(Week 3: 01/15/2017 – 01/21/2017)**

- Influenza-like-illness (ILI) activity in IHS is 2.3%, 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 3.3% above the ILINet baseline (2.2%) and above the IHS threshold (1.77%).
- To date IHS has administered over 299,000 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
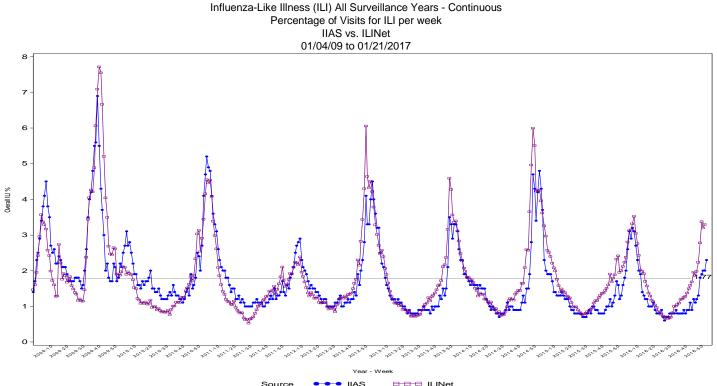01/04/09 to 01/21/2017



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 01/21/2017



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 Sentinal 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 01/21/2017



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
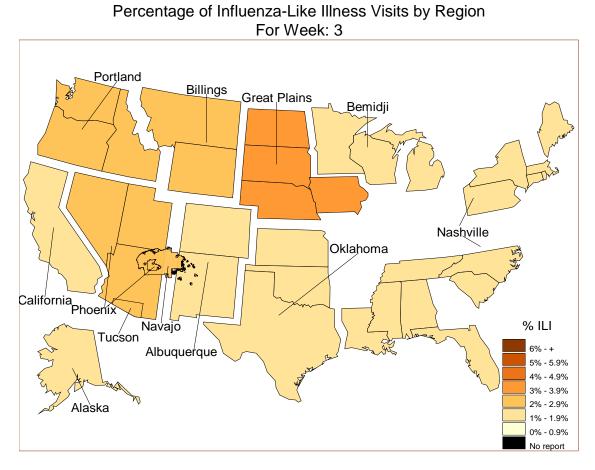
## Percentage of Influenza-Like Illness Visits by Region
## For Week: 3



**% ILI**

- 6% - +
- 5% - 5.9%
- 4% - 4.9%
- 3% - 3.9%
- 2% - 2.9%
- 1% - 1.9%
- 0% - 0.9%
- No report

## % Visits for ILI Compared to Previous Week

| IHS Areas | % in Week 2 | % in Week 3 |
|---|---|---|
| NATIONAL | 2.0 | 2.3 |
| ALASKA | 2.1 | 1.9 |
| ALBUQUERQUE | 1.3 | 1.4 |
| BEMIDJI | 1.4 | 1.1 |
| BILLINGS | 3.6 | 2.8 |
| CALIFORNIA | 1.4 | 1.3 |
| GREAT PLAINS | 2.3 | 3.6 |
| NASHVILLE | 2.2 | 1.7 |
| NAVAJO | 2.0 | 2.5 |
| OKLAHOMA | 1.4 | 1.7 |
| PHOENIX | 2.1 | 2.4 |
| PORTLAND | 2.6 | 2.5 |
| TUCSON | 0.9 | 2.2 |

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

# IHS Influenza Vaccination Surveillance

- As of 01/21/2017, sites reporting to the IIAS have administered 299,348 doses (1st and 2nd) of seasonal influenza vaccine to Active Clinical patients.

All IHS Areas
Cumulative One-Dose Seasonal Influenza Vaccine Coverage
Active Clinical Population
07/03/16 to 01/21/2017

## 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 | 4,419 | 41 | 0.9 | 0 | 0.0 | 42 |
| 6 - 23 months | 21,422 | 10,765 | 50.3 | 2,334 | 10.9 | 13,167 |
| 2 - 4 years | 52,574 | 14,078 | 26.8 | 340 | 0.6 | 14,524 |
| 5 - 17 years | 197,972 | 59,713 | 30.2 | 384 | 0.2 | 60,526 |
| 18 - 49 years | 404,232 | 97,589 | 24.1 | 509 | 0.1 | 98,953 |
| 50 - 64 years | 170,014 | 65,276 | 38.4 | 400 | 0.2 | 66,301 |
| 65 + years | 97,468 | 45,051 | 46.2 | 342 | 0.4 | 45,877 |
| Children (6 months-17 years) | 271,968 | 84,556 | 31.1 | 3,058 | 1.1 | 88,217 |
| Adults (18 + years) | 671,714 | 207,916 | 31.0 | 1,251 | 0.2 | 211,131 |
| All (6 months +) | 943,682 | 292,472 | 31.0 | 4,309 | 0.5 | 299,348 |

\* 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.

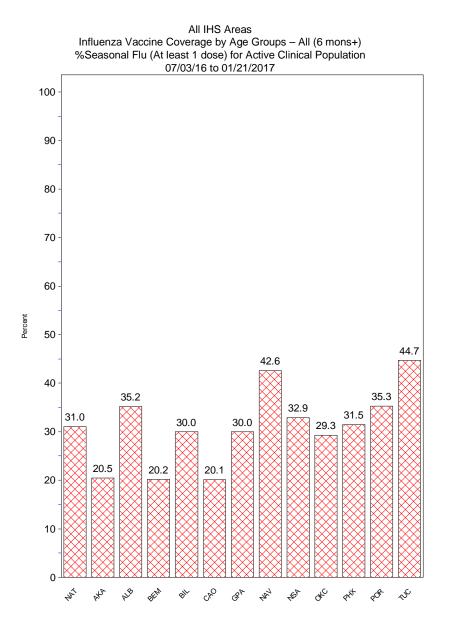## Influenza Vaccine Doses Administered by Influenza Vaccine Type*

| Area | INACTIVE CVX CODES* | CVX 88 FLU-NOS** | CVX 111 FLU-LAIV3 | CVX 135 FLU-HIGH | CVX 140 FLU-IIV3pf | CVX 141 FLU-IIV3 | CVX 144 FLU-DERMAL | CVX 149 FLU-LAIV4 | CVX 150 FLU-IIV4pf | CVX 153 FLU-ccIIV3 | 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 | 4 | 278 | 0 | 432 | 40 | 571 | 1 | 0 | 5715 | 1 | 2 | 3512 | 489 | 20 | 0 | 0 | 73 | 11138 |
| ALB | 1 | 182 | 0 | 1286 | 577 | 10074 | 1 | 0 | 4642 | 0 | 6 | 2013 | 665 | 1 | 0 | 0 | 85 | 19533 |
| BEM | 281 | 105 | 0 | 431 | 27 | 2713 | 0 | 1 | 3820 | 5 | 4 | 3345 | 310 | 46 | 0 | 2 | 254 | 11344 |
| BIL | 5 | 246 | 0 | 910 | 13 | 2159 | 0 | 0 | 10382 | 0 | 1 | 1676 | 947 | 148 | 0 | 0 | 113 | 16600 |
| CAO | 15 | 196 | 0 | 1372 | 25 | 2777 | 1 | 7 | 8118 | 0 | 2 | 4785 | 1489 | 59 | 0 | 2 | 115 | 18963 |
| GPA | 3 | 458 | 0 | 1044 | 139 | 12305 | 0 | 0 | 12203 | 12 | 26 | 5401 | 1110 | 9 | 0 | 0 | 89 | 32799 |
| NSA | 214 | 351 | 0 | 352 | 128 | 5550 | 229 | 0 | 4025 | 4 | 20 | 355 | 149 | 328 | 0 | 0 | 121 | 11826 |
| NAV | 28 | 363 | 1 | 1774 | 23 | 9884 | 9 | 0 | 12656 | 1 | 1 | 41929 | 2599 | 1079 | 0 | 0 | 195 | 70542 |
| OKC | 259 | 2200 | 0 | 2419 | 13 | 28032 | 7 | 1 | 9097 | 1 | 17 | 2634 | 1446 | 541 | 0 | 0 | 218 | 46885 |
| PHX | 3 | 515 | 0 | 1178 | 49 | 8741 | 17 | 0 | 19114 | 0 | 19 | 443 | 2209 | 1 | 0 | 0 | 229 | 32518 |
| POR | 9 | 415 | 1 | 769 | 1245 | 8017 | 12 | 1 | 5122 | 29 | 21 | 3385 | 377 | 1180 | 0 | 0 | 830 | 21413 |
| TUC | 0 | 52 | 0 | 30 | 26 | 8 | 0 | 0 | 6243 | 1 | 0 | 37 | 454 | 0 | 0 | 0 | 38 | 6889 |
| HQ | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 |
|  | 822 | 5363 | 2 | 11997 | 2305 | 90831 | 277 | 10 | 101137 | 54 | 119 | 69515 | 12244 | 3412 | 0 | 4 | 2360 | 300452 |

\* 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 mons+)**
**%Seasonal Flu (At least 1 dose) for Active Clinical Population**
**07/03/16 to 01/21/2017**



| Area | Percent |
|------|---------|
| NAT | 31.0 |
| AKA | 20.5 |
| ALB | 35.2 |
| BEM | 20.2 |
| BIL | 30.0 |
| CAO | 20.1 |
| GPA | 30.0 |
| NAV | 42.6 |
| NSA | 32.9 |
| OKC | 29.3 |
| PHX | 31.5 |
| POR | 35.3 |
| TUC | 44.7 |

- 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 | 156 | 274 |
| ALASKA | 7 | 47 |
| ALBUQUERQUE | 12 | 16 |
| BEMIDJI | 5 | 12 |
| BILLINGS | 12 | 17 |
| CALIFORNIA | 21 | 30 |
| GREAT PLAINS | 18 | 35 |
| NASHVILLE | 20 | 25 |
| NAVAJO | 7 | 17 |
| OKLAHOMA | 18 | 22 |
| PHOENIX | 13 | 23 |
| PORTLAND | 22 | 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.