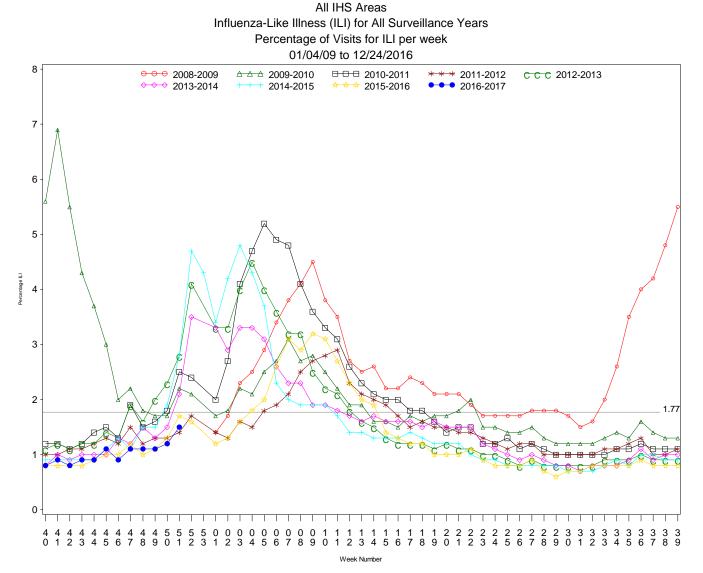


Indian Health Service Division of Epidemiology and Disease Prevention Influenza Surveillance Report IHS Influenza Awareness System (IIAS) (Week 51: 12/18/2016 - 12/24/2016)

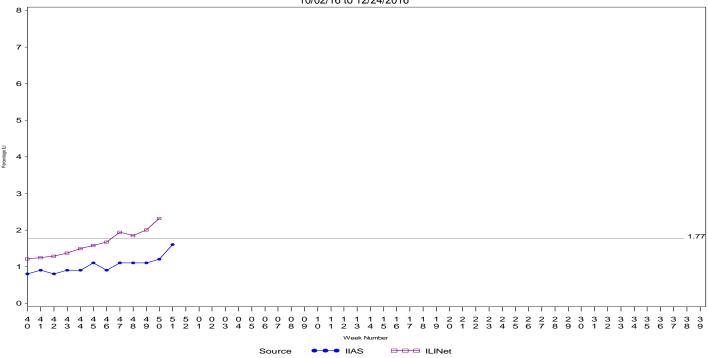
- Influenza-like-illness (ILI) activity is low but increasing across a majority of IHS Regions
 IHS ILI activity remains below the IHS threshold of 1.77%.
- National ILI activity is generally low but increasing across a majority of US states
 - CDC's ILINet ILI activity of 2.3% is just above the ILINet baseline of 2.2% and above the IHS threshold of 1.77%.
- To date IHS has administered over 271,000 doses of influenza vaccine.
- Overall, 28% of the IHS Active Clinical population received an influenza vaccine this season.



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.

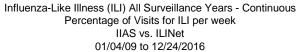
Percentage of Outpatient Visits for Influenza-Like Illness (ILI) Percent ILI for Flu Year 2016 - 2017 IIAS vs. ILINet 10/02/16 to 12/24/2016

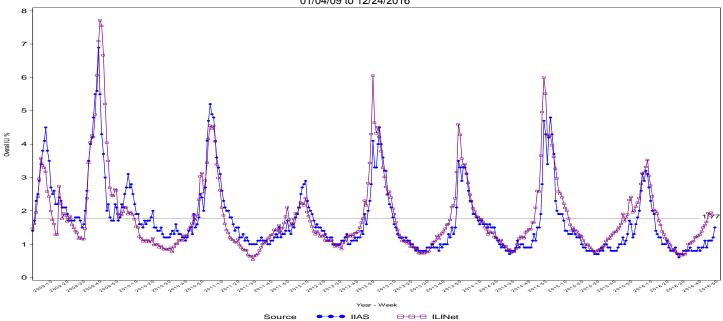


Percent ILI visits is number of ILI visits divided by total number of daily outpatient visits.

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

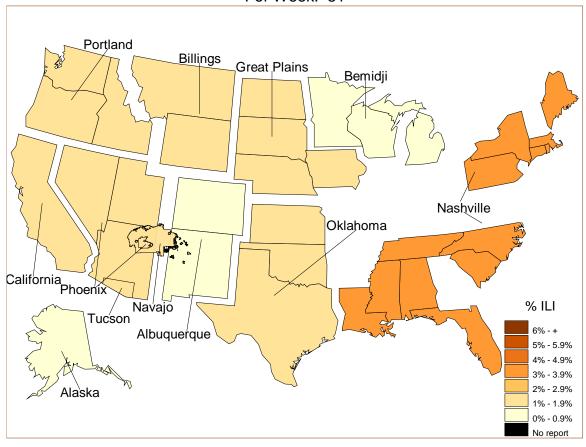




Percent ILI visits is number of ILI visits divided by total number of daily outpatient visits.

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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: 51

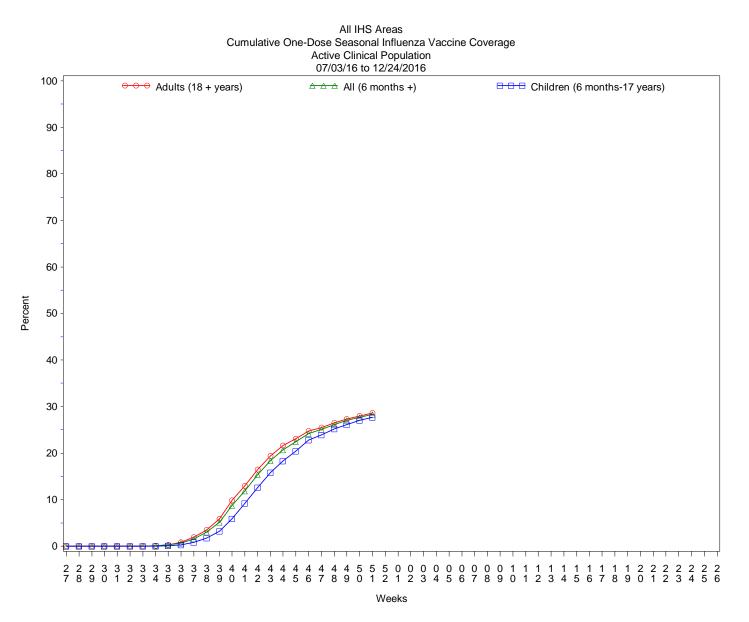
% Visits for ILI Compared to Previous Week

IHS Areas	% in Week 50	% in Week 51				
NATIONAL	1.2	1.5				
ALASKA	0.4	0.5				
ALBUQUERQUE	1.0	0.9				
BEMIDJI	1.0	0.6				
BILLINGS	1.1	1.7				
CALIFORNIA	0.7	1.0				
GREAT PLAINS	1.1	1.5				
NASHVILLE	3.5	3.8				
NAVAJO	1.3	1.4				
OKLAHOMA	0.5	1.1				
PHOENIX	1.6	1.9				
PORTLAND	1.1	1.6				
TUCSON	1.3	1.2				

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

IHS Influenza Vaccination Surveillance

• As of 12/24/2016, sites reporting to the IIAS have administered 271,554 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	4,478	35	0.8	0	0.0	36
6 - 23 months	21,304	9,003	42.3	1,413	6.6	10,522
2 - 4 years	52,297	12,109	23.2	219	0.4	12,489
5 - 17 years	196,763	53,707	27.3	318	0.2	54,799
18 - 49 years	401,242	88,337	22.0	389	0.1	89,813
50 - 64 years	168,329	59,996	35.6	326	0.2	61,093
65 + years	96,502	41,991	43.5	281	0.3	42,838
Children (6 months-17 years)	270,364	74,819	27.7	1,950	0.7	77,810
Adults (18 + years)	666,073	190,324	28.6	996	0.1	193,744
All (6 months +)	936,437	265,143	28.3	2,946	0.3	271,554

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 doses dove 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*

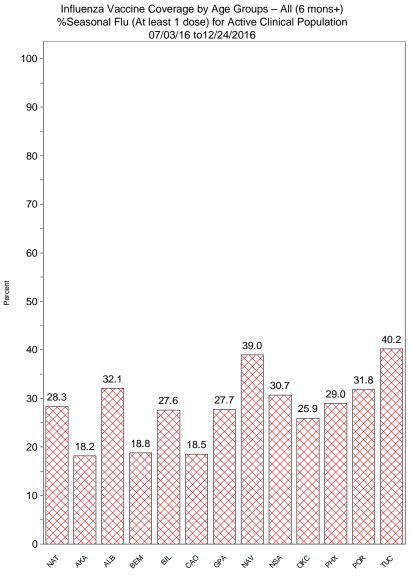
Area	INACTIV E CVX CODES*	CVX 88 FLU- NOS**	CVX 111 FLU- LAIV3	CVX 135 FLU- HIGH	CVX 140 FLU- IIV3pf	CVX 141 FLU- IIV3	CVX 144 FLU- DER MAL	CVX 149 FLU- LAIV 4	CVX 150 FLU- IIV4pf	CVX 153 FLU- ccIIV 3	CVX 155 FLU- RIV3	CVX 158 IIV4	CVX 161 IIV4pf -ped	CVX 166	Proc 99.52 Vac Inf	ICD-9 V04.8 1 Vac Inf	CPT Billing Codes+	Cumulati ve # of Dose s Seasonal Flu
AKA	3	237	0	388	36	543	1	0	5135	0	2	3072	356	19	0	0	48	9840
ALB	1	148	0	1249	513	9180	1	0	4184	0	6	1886	553	1	0	0	80	17802
BEM	260	82	0	368	9	1981	0	1	3404	5	4	3258	220	41	0	1	156	9790
BIL	5	221	0	870	12	2059	0	0	9441	0	0	1623	831	137	0	0	111	15310
CAO	8	171	0	1300	18	2479	1	7	7552	0	2	4395	1277	59	0	2	110	17381
GPA	3	388	0	1019	137	11458	0	0	11212	12	26	5082	928	9	0	0	87	30361
NSA	197	327	0	348	115	5206	213	0	3751	4	18	335	130	312	0	0	111	11067
NAV	24	284	1	1702	19	9192	8	0	11487	0	1	38300	2298	990	0	0	169	64475
OKC	253	1689	0	2333	10	24842	7	1	8014	1	13	2141	1227	530	0	0	216	41277
PHX	2	435	0	1138	26	8087	12	0	17696	0	19	389	1798	1	0	0	229	29832
POR	8	343	1	702	1133	7450	10	1	4547	28	19	2878	295	1084	0	0	747	19246
TUC	0	46	0	28	23	5	0	0	5663	1	0	34	353	0	0	0	35	6188
HQ	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
	764	4373	2	11445	2051	82482	253	10	92086	51	110	63393	10266	3183	0	3	2099	272571

* 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

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	155	274					
ALASKA	7	45					
ALBUQUERQUE	12	17					
BEMIDJI	5	12					
BILLINGS	12	20					
CALIFORNIA	21	31					
GREAT PLAINS	18	33					
NASHVILLE	19	23					
NAVAJO	7	19					
OKLAHOMA	18	22					
PHOENIX	13	23					
PORTLAND	22	25					
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.