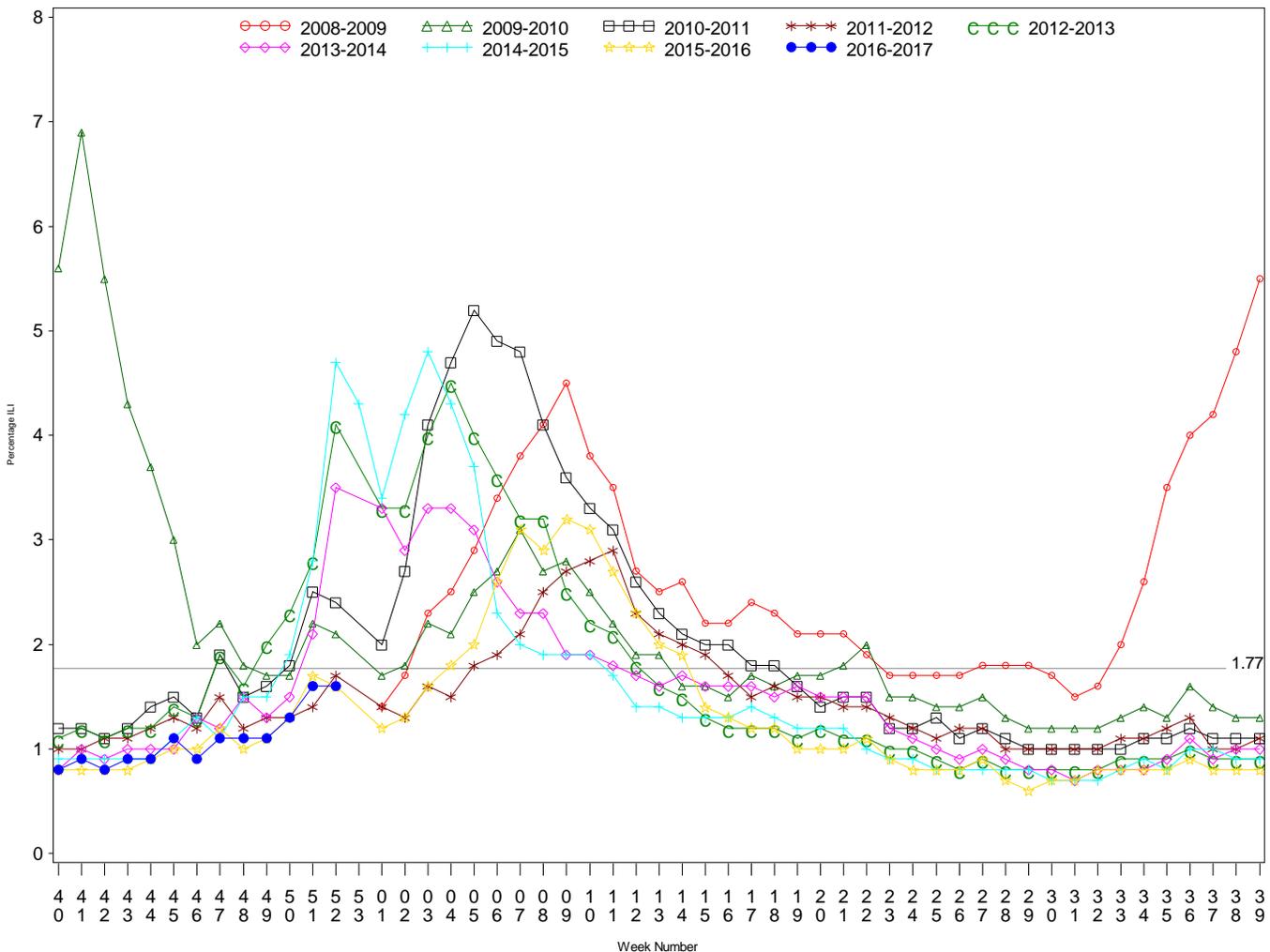




Indian Health Service
 Division of Epidemiology and Disease Prevention
Influenza Surveillance Report
IHS Influenza Awareness System (IIAS)
 (Week 52: 12/25/2016 – 12/31/2016)

- 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 2.9% is above the ILINet baseline of 2.2% and above the IHS threshold of 1.77%.
- To date IHS has administered over 276,000 doses of influenza vaccine.
- Overall, 29% of the IHS Active Clinical population received an influenza vaccine this season.

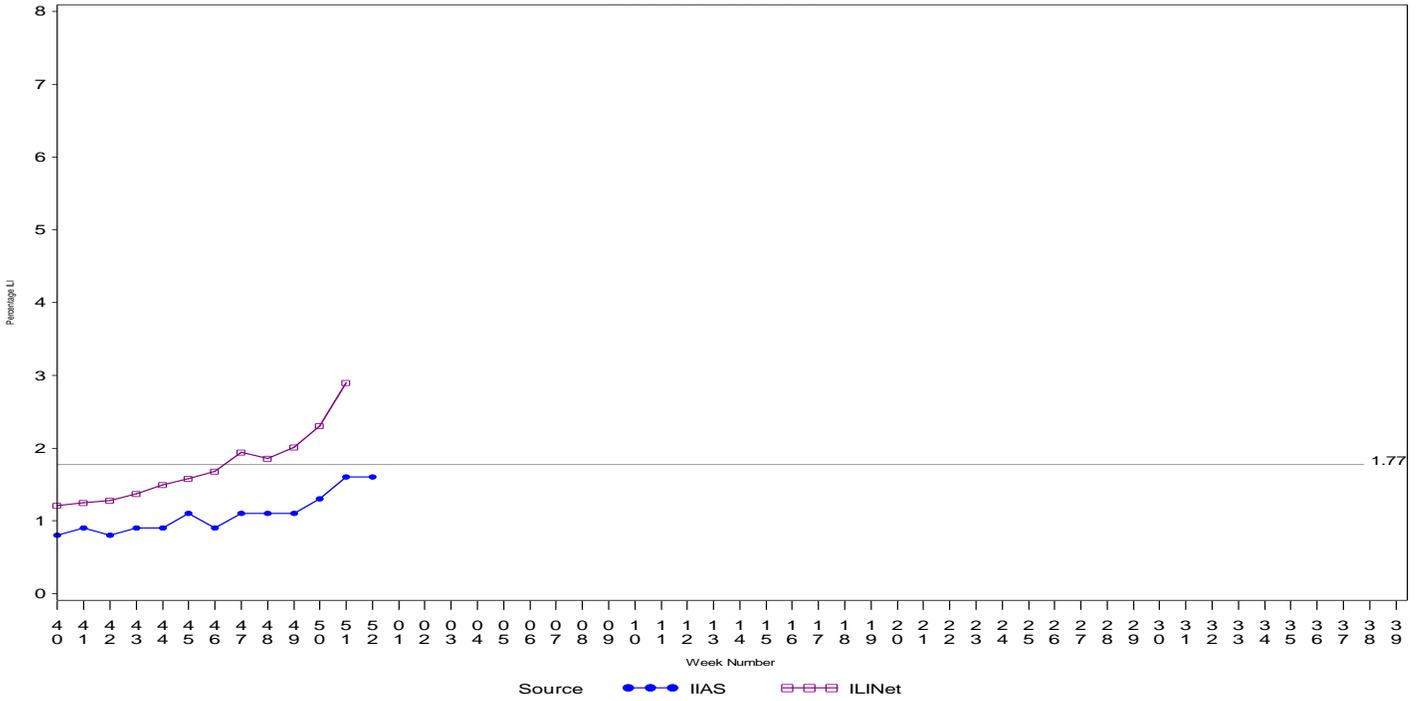
All IHS Areas
 Influenza-Like Illness (ILI) for All Surveillance Years
 Percentage of Visits for ILI per week
 01/04/09 to 12/31/2016



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

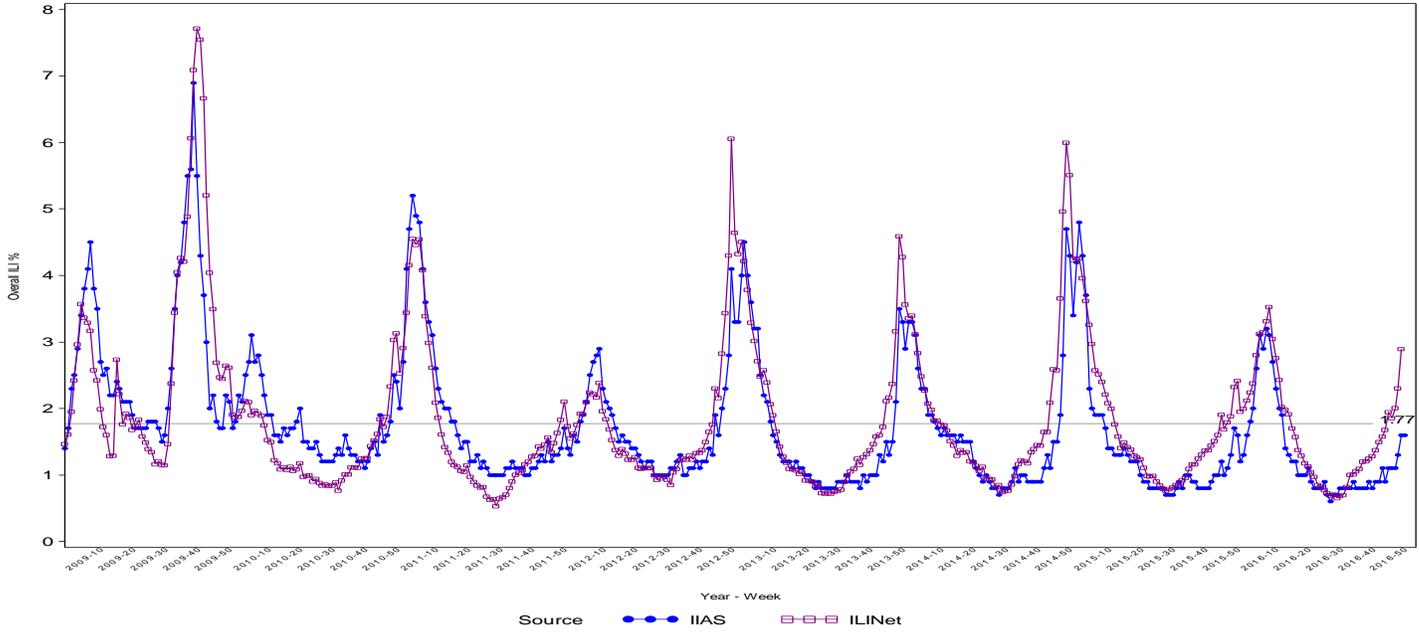
The horizontal line represents the 2016-2017 IIAS baseline. The baseline is the mean percentage of patient visits for ILI during non-Influenza weeks for the previous three seasons plus two standard deviations.

Percentage of Outpatient Visits for Influenza-Like Illness (ILI)
 Percent ILI for Flu Year 2016 - 2017
 IIAS vs. ILINet
 10/02/16 to 12/31/2016

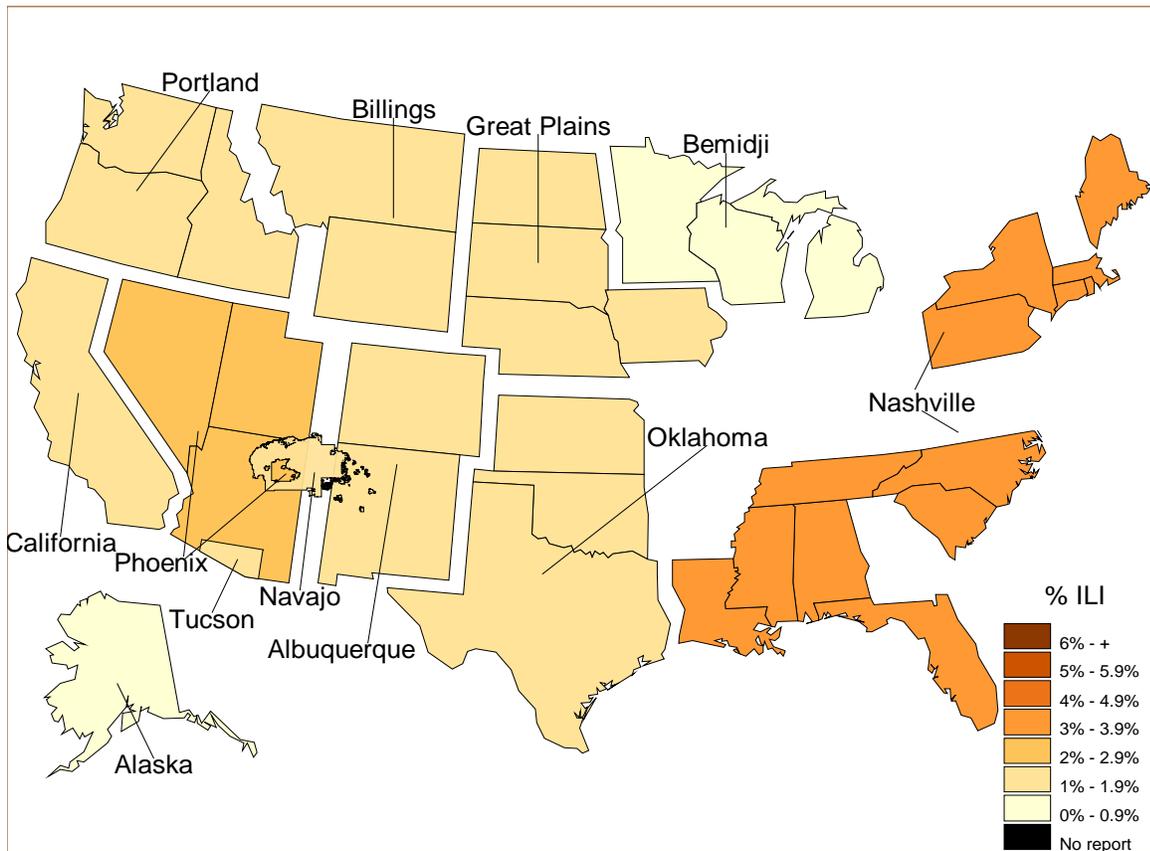


Percent ILI visits is number of ILI visits divided by total number of daily outpatient visits.
 The horizontal line is the 2016-2017 IIAS baseline. The ILINet baseline value for 2016-2017 is 2.2.
 Baselines are computed as the mean percentage of ILI patient visits during non-influenza weeks for the previous three seasons, plus two standard deviations.
 Sources: ILINet - CDC 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 12/31/2016



Percentage of Influenza-Like Illness Visits by Region
For Week: 52



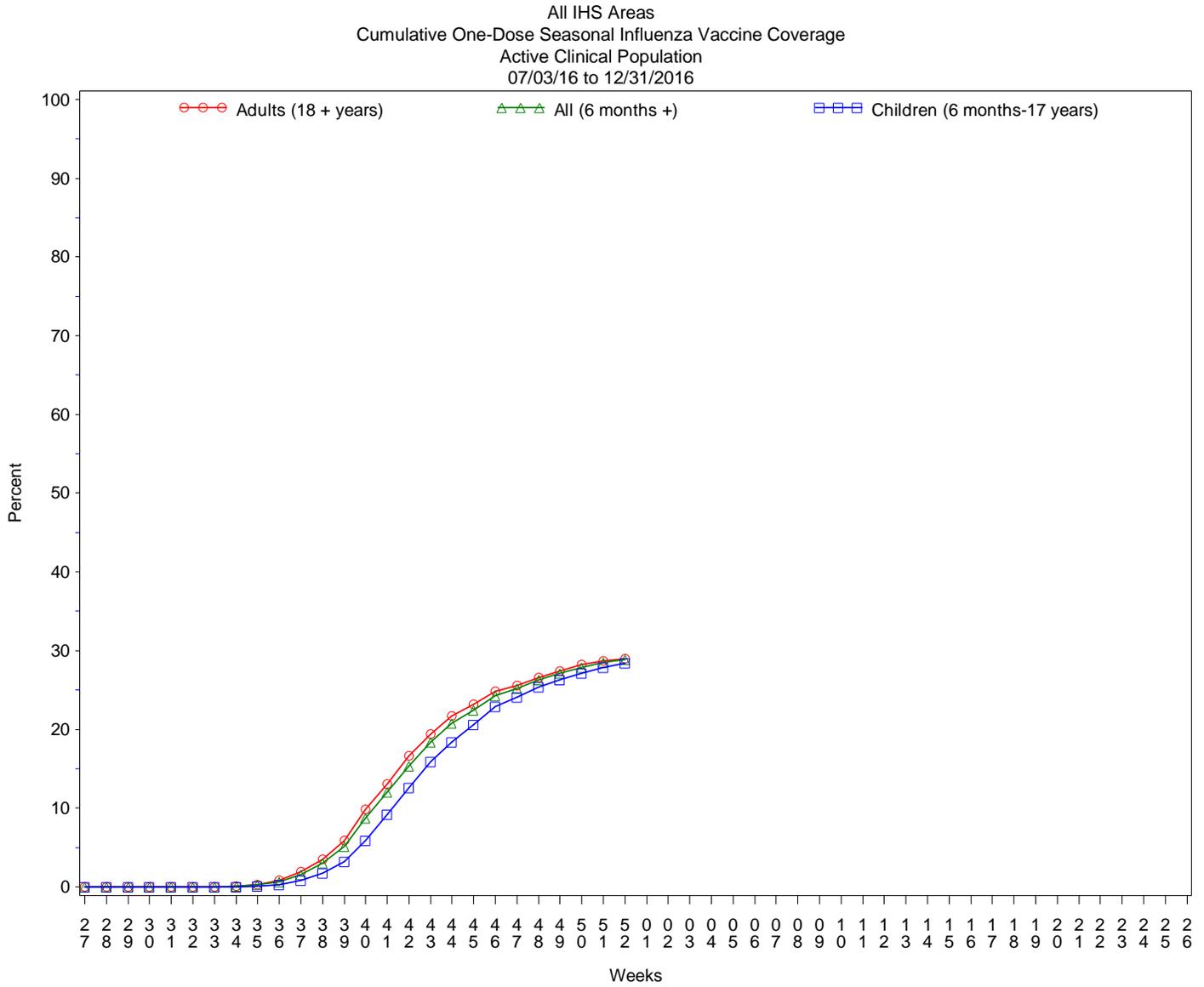
% Visits for ILI Compared to Previous Week

IHS Areas	% in Week 51	% in Week 52
NATIONAL	1.6	1.6
ALASKA	0.6	0.8
ALBUQUERQUE	1.1	1.2
BEMIDJI	0.6	0.8
BILLINGS	1.7	1.9
CALIFORNIA	1.0	1.1
GREAT PLAINS	1.6	1.6
NASHVILLE	4.0	3.8
NAVAJO	1.7	1.4
OKLAHOMA	1.3	1.1
PHOENIX	2.1	2.0
PORTLAND	1.8	1.9
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 12/31/2016, sites reporting to the IIAS have administered 276,673 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	4,398	37	0.8	0	0.0	38
6 - 23 months	21,343	9,327	43.7	1,566	7.3	10,951
2 - 4 years	52,466	12,481	23.8	240	0.5	12,815
5 - 17 years	197,398	55,199	28.0	327	0.2	55,911
18 - 49 years	402,484	90,369	22.5	402	0.1	91,549
50 - 64 years	169,096	61,142	36.2	343	0.2	62,053
65 + years	97,000	42,661	44.0	289	0.3	43,394
Children (6 months-17 years)	271,207	77,007	28.4	2,133	0.8	79,677
Adults (18 + years)	668,580	194,172	29.0	1,034	0.2	196,996
All (6 months +)	939,787	271,179	28.9	3,167	0.3	276,673

* 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-LAIV 4	CVX 150 FLU-IIV4pf	CVX 153 FLU-cclIV 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 +	Cumulative # of Doses Seasonal Flu
AKA	3	238	0	394	39	548	1	0	5152	0	2	3120	375	19	0	0	47	9938
ALB	1	158	0	1256	521	9358	1	0	4274	0	6	1907	583	1	0	0	80	18146
BEM	264	82	0	374	9	2020	0	1	3479	5	4	3272	229	41	0	1	158	9939
BIL	5	231	0	882	12	2090	0	0	9647	0	0	1631	848	141	0	0	110	15597
CAO	12	176	0	1320	20	2548	1	7	7692	0	2	4490	1296	59	0	2	111	17736
GPA	3	391	0	1029	137	11670	0	0	11386	12	26	5150	963	9	0	0	87	30863
NSA	200	329	0	349	115	5181	213	0	3816	4	18	340	131	316	0	0	113	11125
NAV	24	299	1	1720	20	9367	9	0	11829	0	1	39134	2369	1023	0	0	167	65963
OKC	254	1761	0	2361	11	25198	7	1	8175	1	13	2189	1281	531	0	0	215	41998
PHX	2	451	0	1142	27	8261	12	0	18014	0	19	404	1861	1	0	0	232	30426
POR	8	351	1	709	1142	7562	10	1	4632	28	19	2942	305	1106	0	0	756	19572
TUC	0	46	0	28	24	8	0	0	5788	1	0	34	369	0	0	0	36	6334
HQ	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
	776	4515	2	11564	2077	83811	254	10	93884	51	110	64613	10610	3247	0	3	2112	277639

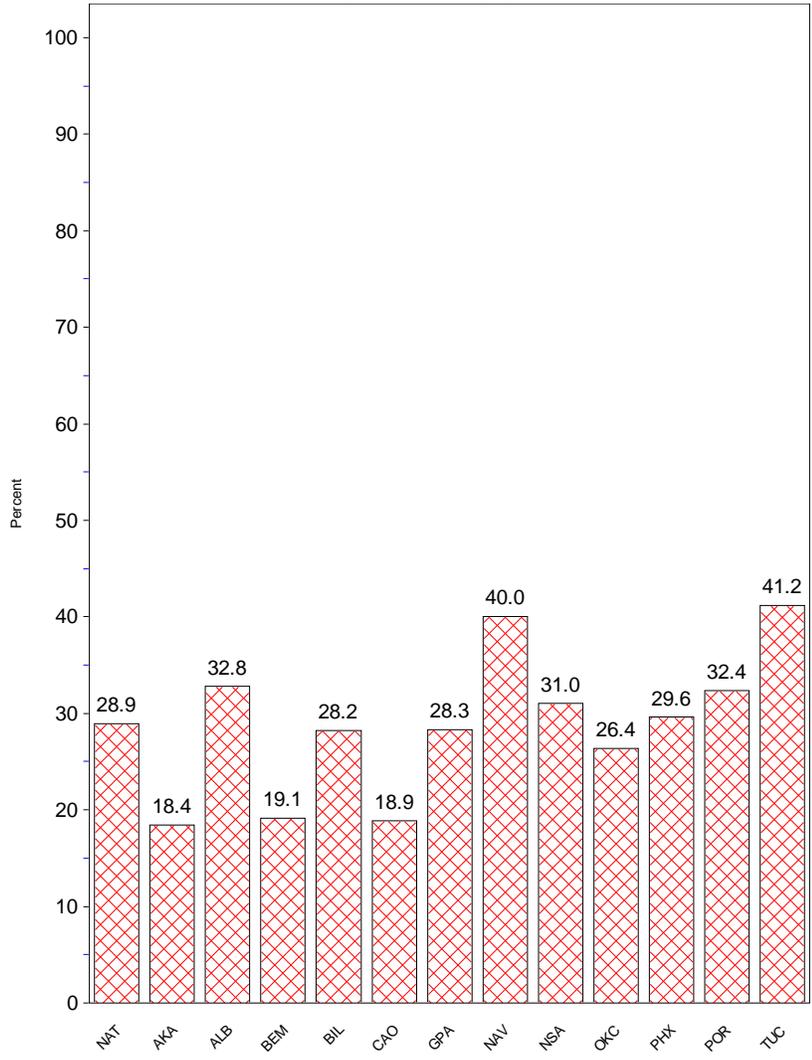
* Inactive CVX Codes 15 (FLU-TIVhx), 16 (FLU-WHOLE), 123 (FLU-H5N1), and 151 (FLU-NasNOS) should not be used to document flu vaccines given this flu season. Doses are NOT deduplicated.

** 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 12/31/2016



- 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	154	264
ALASKA	7	42
ALBUQUERQUE	12	17
BEMIDJI	5	12
BILLINGS	12	17
CALIFORNIA	21	32
GREAT PLAINS	18	29
NASHVILLE	19	23
NAVAJO	7	19
OKLAHOMA	18	22
PHOENIX	13	22
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, and Alaska Village Clinic.