

# DoD Consolidated Influenza Surveillance Report

**Week 48** (24 November 2019— 30 November 2019)



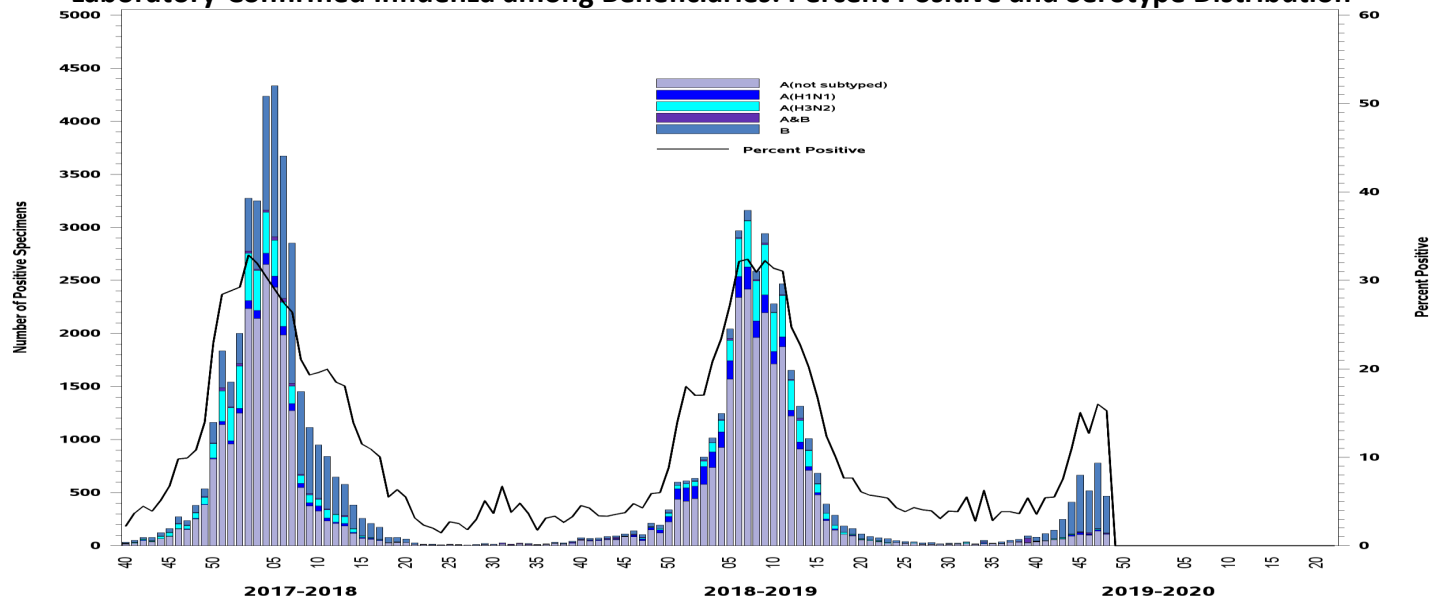
## One Page Summary: Weekly Highlights

- Laboratory-confirmed influenza cases and dispensed antiviral prescriptions among all beneficiaries remained similar to prior weeks and were at normal levels for week 48.
- Influenza-like illness (ILI) activity among active component Service Members remained low, but has been increasing slightly.
- ILI activity remained high at JB Langley-Eustis.
- The majority of laboratory-confirmed influenza cases continued to be type B in NORTHCOM and type A in all other combatant commands.
- One new laboratory-confirmed influenza hospitalization was reported for week 48 (Season total: 20).

## Influenza Surveillance Indicators (2019-2020 season)

All Beneficiaries	Total Per Week		Trend	Activity Level
Laboratory Cases	467		◀▶	Normal
Dispensed Antivirals	531		◀▶	Normal
Severity				Activity Level
Inpatient Laboratory Cases	1		◀▶	Low
Inpatient Dispensed Antivirals	15		▲	Low
Active Component				Activity Level
Laboratory Cases	76		◀▶	Low
Dispensed Antivirals	94		◀▶	Low
ILI Outpatient Visits	3%		◀▶	Low

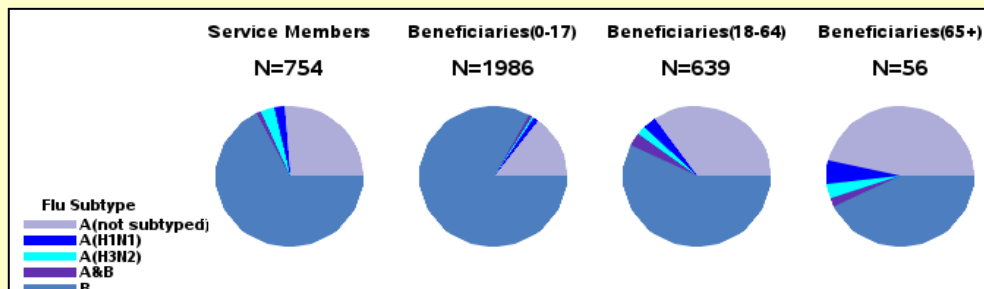
## Laboratory-Confirmed Influenza among Beneficiaries: Percent Positive and Serotype Distribution



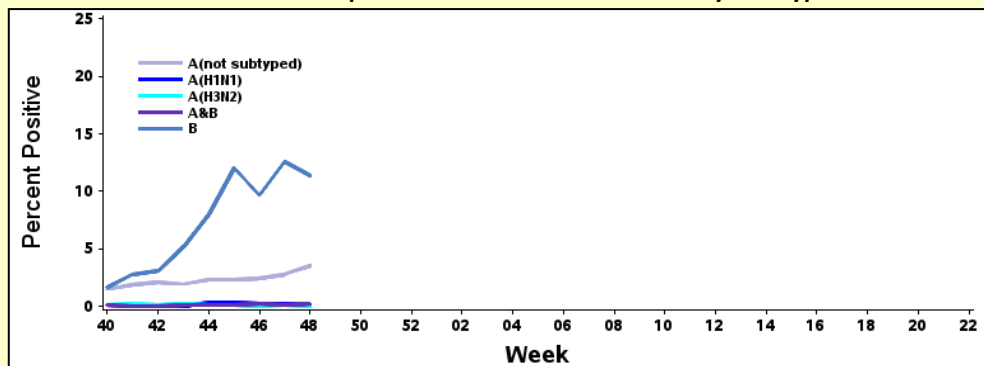
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# Laboratory-Confirmed Influenza (2019-2020 Season: Week 48)

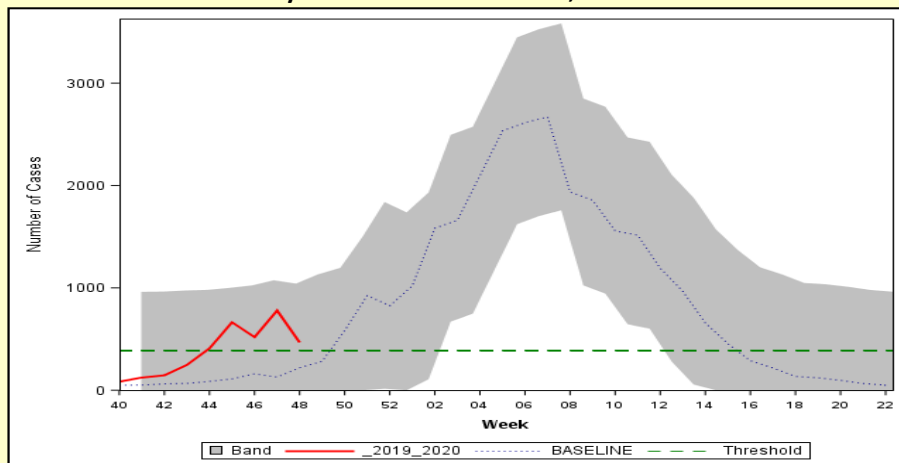
Number and Distribution of Positive Specimens, by Beneficiary Status and Serotype



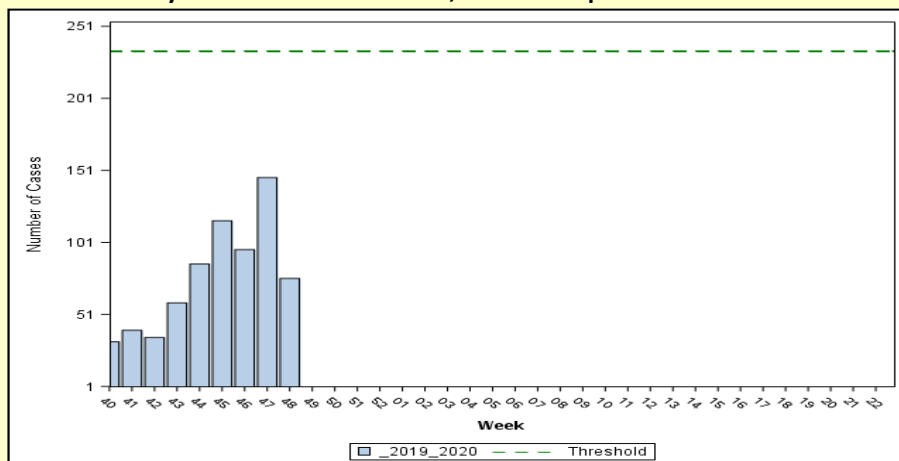
Percent of Specimens Positive for Influenza by Serotype



Laboratory-Positive Influenza Cases, All Beneficiaries



Laboratory-Positive Influenza Cases, Active Component Service Members



- Children continued to have the highest number of laboratory-confirmed influenza positive specimens at 1,986, while Service Members had the second highest count at 754.

- Overall, the majority of laboratory-confirmed influenza positive specimens continued to be type B.

- The number of laboratory-confirmed cases among all beneficiaries decreased, but remained above the threshold and baseline and within the band.
- Band indicates one standard deviation above and below seasonal baseline estimates. Threshold indicates two standard deviations above off-season average.

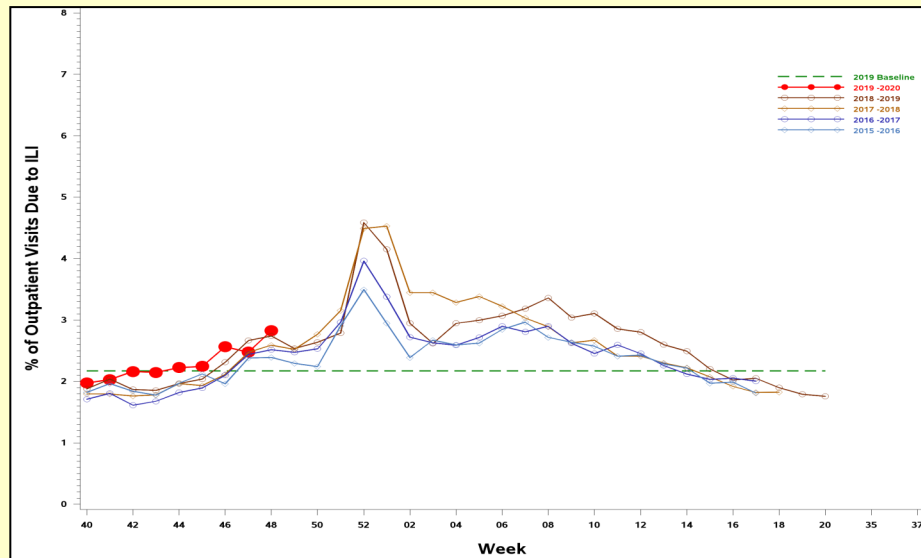
- The number of active component Service Member laboratory-confirmed cases decreased.
- Threshold indicates two standard deviations above seasonal baseline estimates.

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# ILI and Dispensed Antiviral Prescriptions (2019-2020 Season: Week 48)

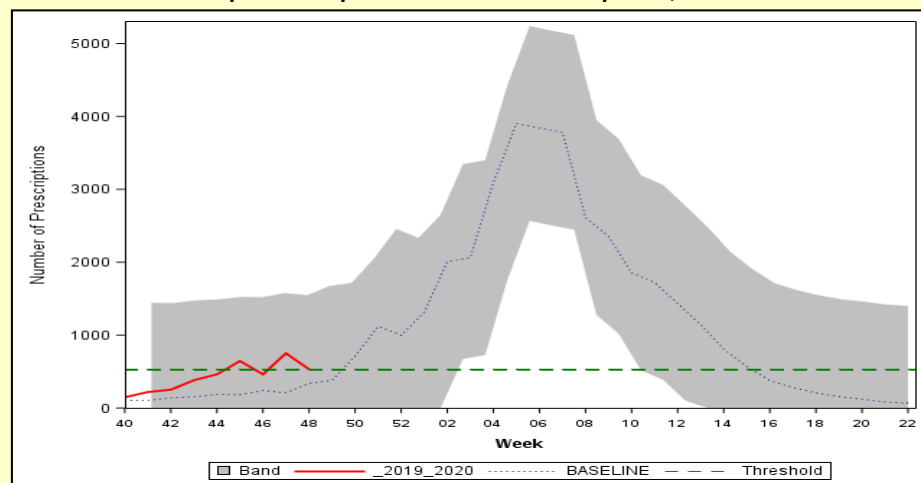
- The percent of outpatient visits due to ILI among Service Members increased and was above baseline and similar to the 2018-19 season at week 48.

**Percent of Outpatient Visits Due to ILI:**  
Service Members, 2015-2016 to 2019-2020 seasons



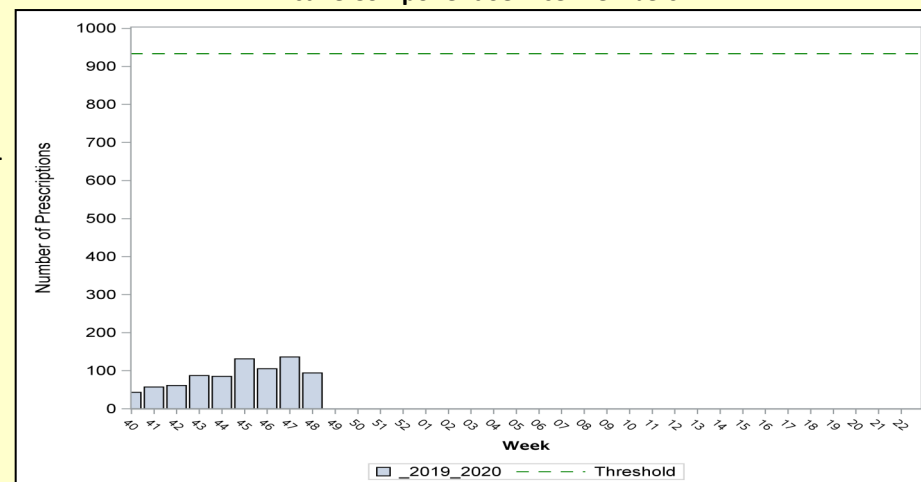
- Dispensed antiviral prescriptions among all beneficiaries decreased and was at threshold, but above baseline.
- Band indicates one standard deviation above and below seasonal baseline estimates. Threshold indicates two standard deviations above off-season average.

**Influenza-Specific Dispensed Antiviral Prescriptions, All Beneficiaries**



**Influenza-Specific Dispensed Antiviral Prescriptions:**  
Active Component Service Members

- Dispensed antiviral prescriptions among active component Service Members decreased.
- Threshold indicates two standard deviation above the overall weighted average during the season.

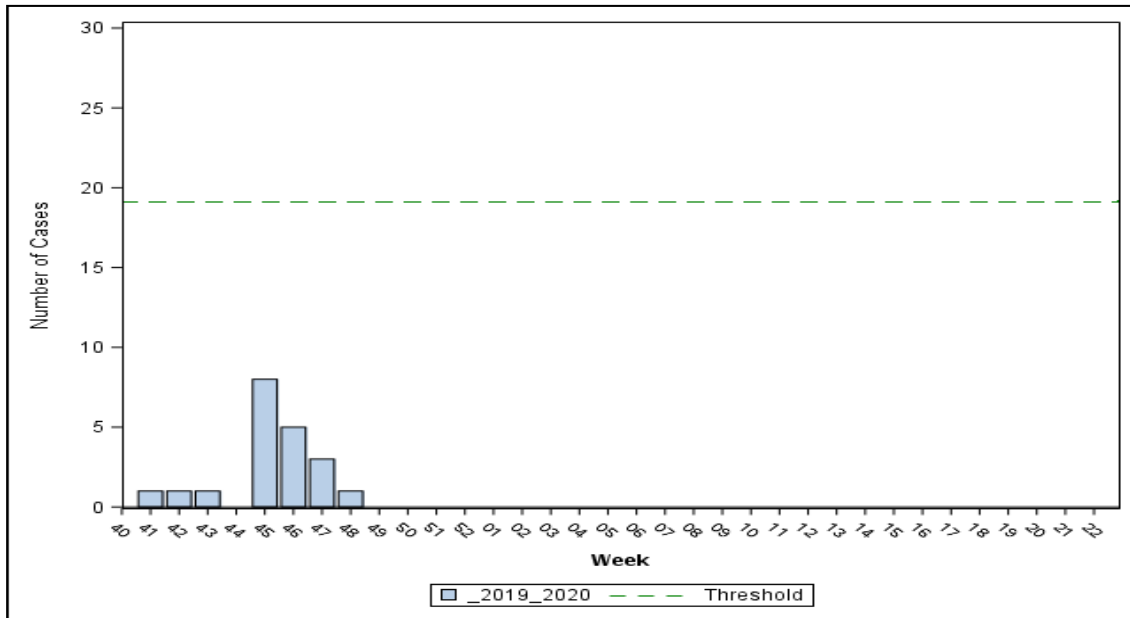


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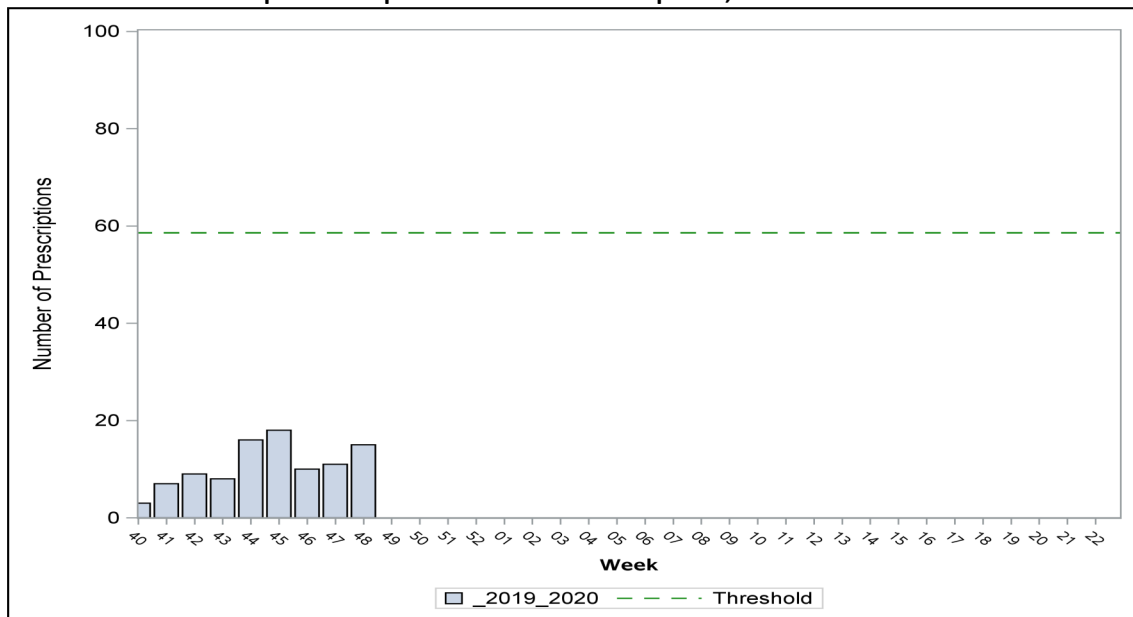
# Severity: Hospitalized Influenza Metrics (2019-2020 Season: Week 48)

- One new laboratory-confirmed influenza hospitalization was reported for week 48. The case had influenza A (not subtyped) and was a Service Member at Camp Humphreys in the Republic of Korea.
- ♦ There have been 20 laboratory-confirmed influenza hospitalizations this season (2 Service Members / 18 other beneficiaries)
- The number of inpatient dispensed antiviral prescriptions increased, but remained well below the threshold.
- Thresholds indicates one standard deviation above the overall weighted average during the season.

**Hospitalized Laboratory-Positive Influenza Cases, All Beneficiaries**



**Inpatient Dispensed Antivirals Prescriptions, All Beneficiaries**



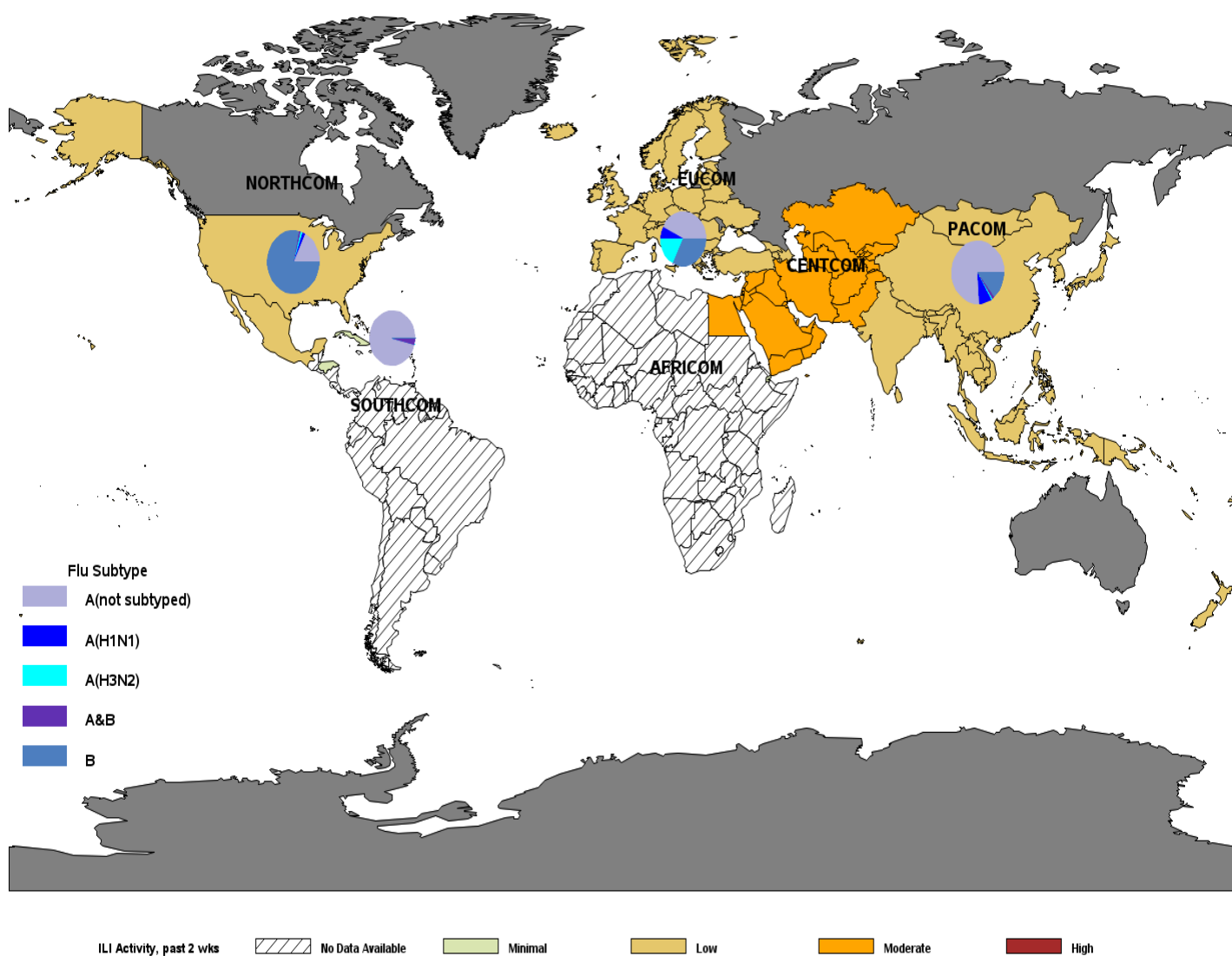
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# Influenza Activity: Geographic Combatant Command

(2019-2020 Season: Week 48)

- NORTHCOM: ILI activity remained low. The majority of positive specimens continued to be influenza B.
- EUCOM: ILI activity remained low. Among positive specimens, the majority were influenza A, with influenza A (H3N2) being the most prominent subtype among subtyped specimens.
- INDOPACOM: ILI activity remained low. The majority of positive specimens continued to be influenza A (not subtyped).
- SOUTHCOM: ILI activity remained minimal in Cuba. The majority of specimens continued to be influenza A (not subtyped).
- CENTCOM: ILI activity was moderate overall, but country level data indicated minimal to low activity.

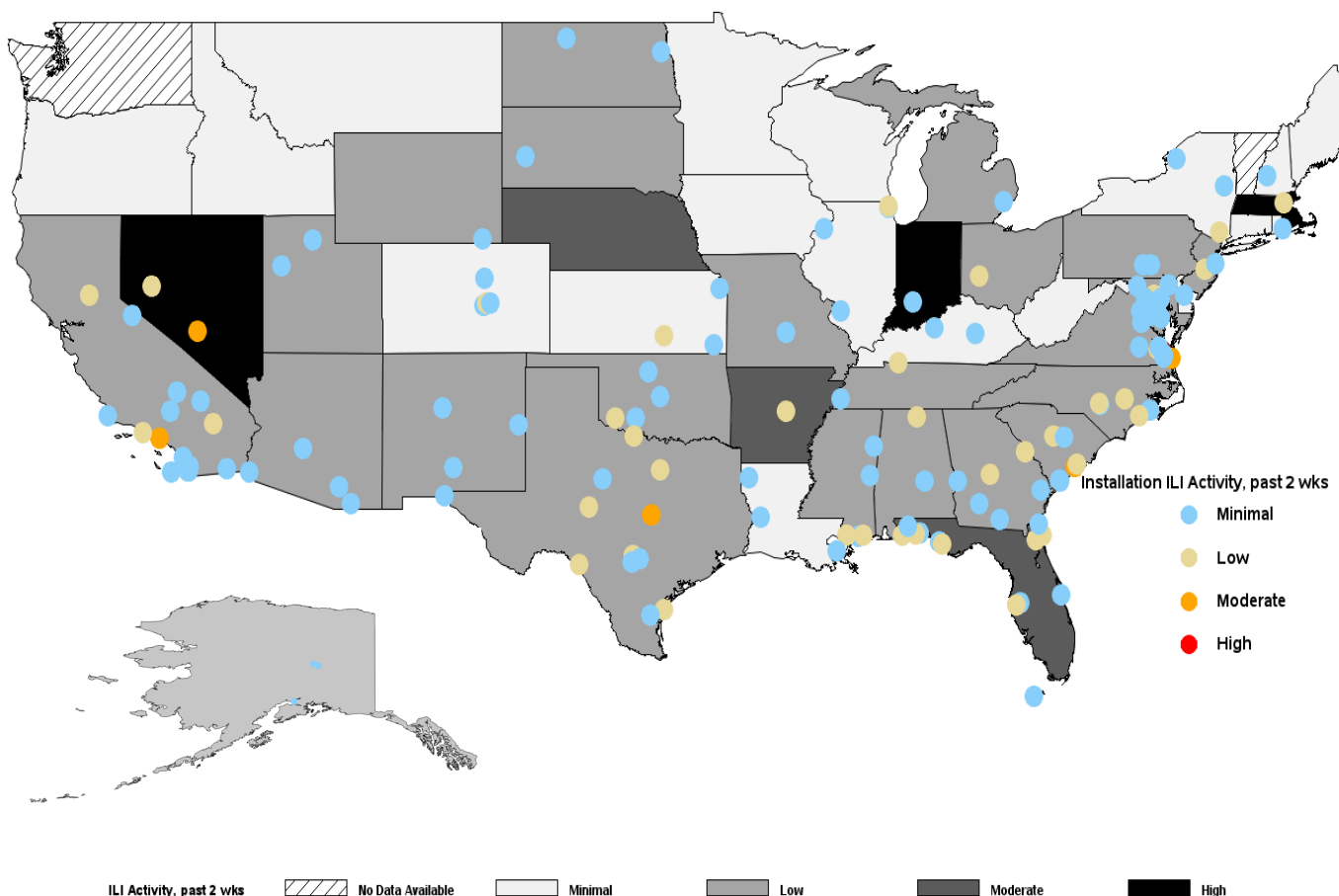
## ILI Activity (Service Members) and Laboratory-Confirmed Influenza (All Beneficiaries)



\*Locations colored in dark gray have no Service Member medical encounter data.

# Influenza Activity: NORTHCOM (2019-2020 Season: Week 48)

- The majority of installations continued to have minimal or low activity. However, activity was moderate and high at some locations.
  - JB-Langley-Eustis had high activity.
  - Fort Hood, Charleston AFB, Los Angeles AFB, NAS Oceana, and Nellis AFB all had moderate activity.
- The majority of states continued to have minimal or low ILI activity. However, Nevada, Illinois, and Massachusetts had high activity and Nebraska, Arkansas, and Florida had moderate activity.
- State level data includes both Military Treatment Facility (MTF) and outsourced care. Therefore, state activity levels may differ from the installation level data.
- Installation-level laboratory data can be found on pages 11-13 of the report.

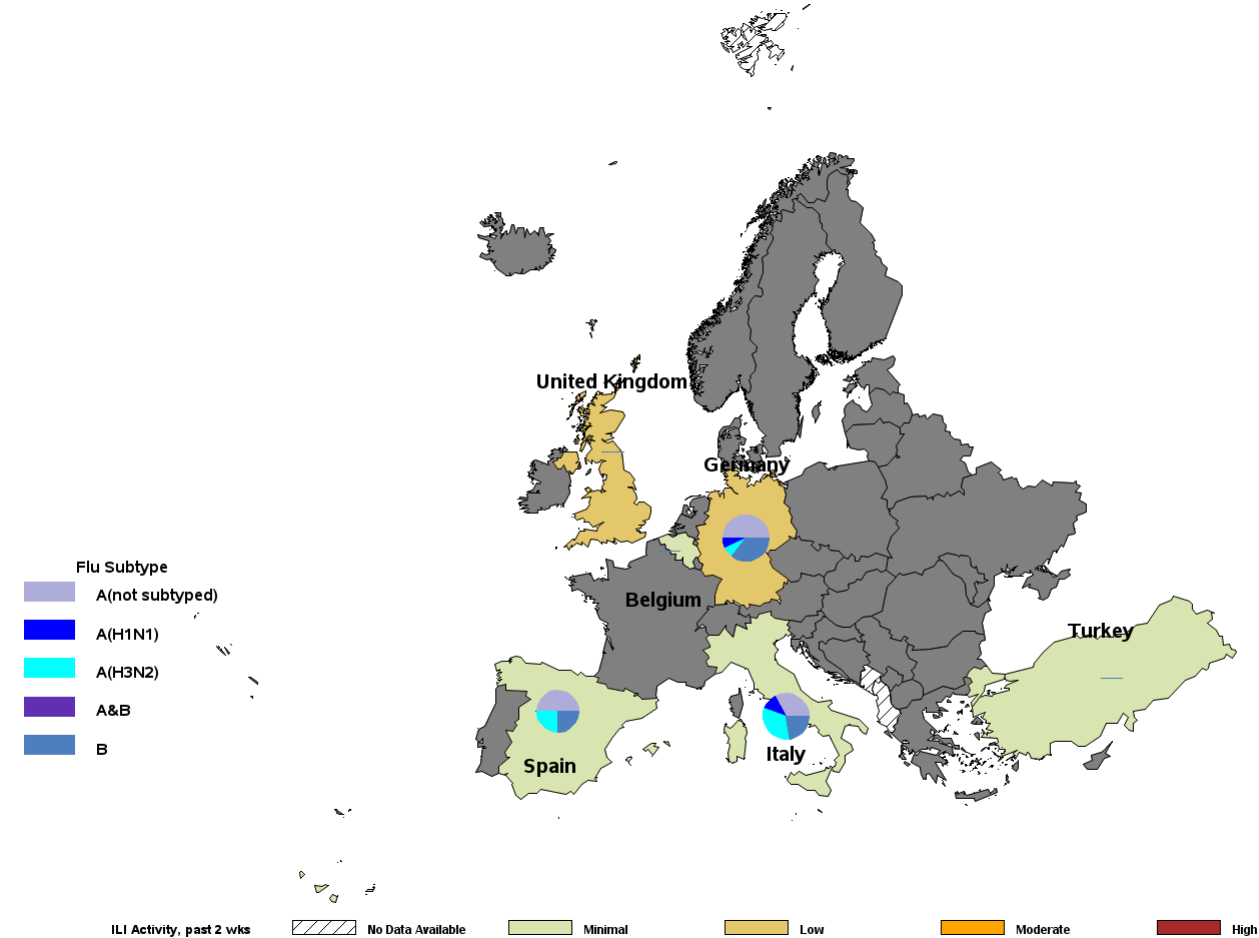


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# Influenza Activity: EUCOM (2019-2020 Season: Week 48)

- ILI activity continued to be minimal in EUCOM, except for the United Kingdom and Germany, which had low activity.
- Influenza A continued to predominate in the area.

## ILI Activity (Service Members) and Laboratory-Confirmed Influenza (All Beneficiaries)

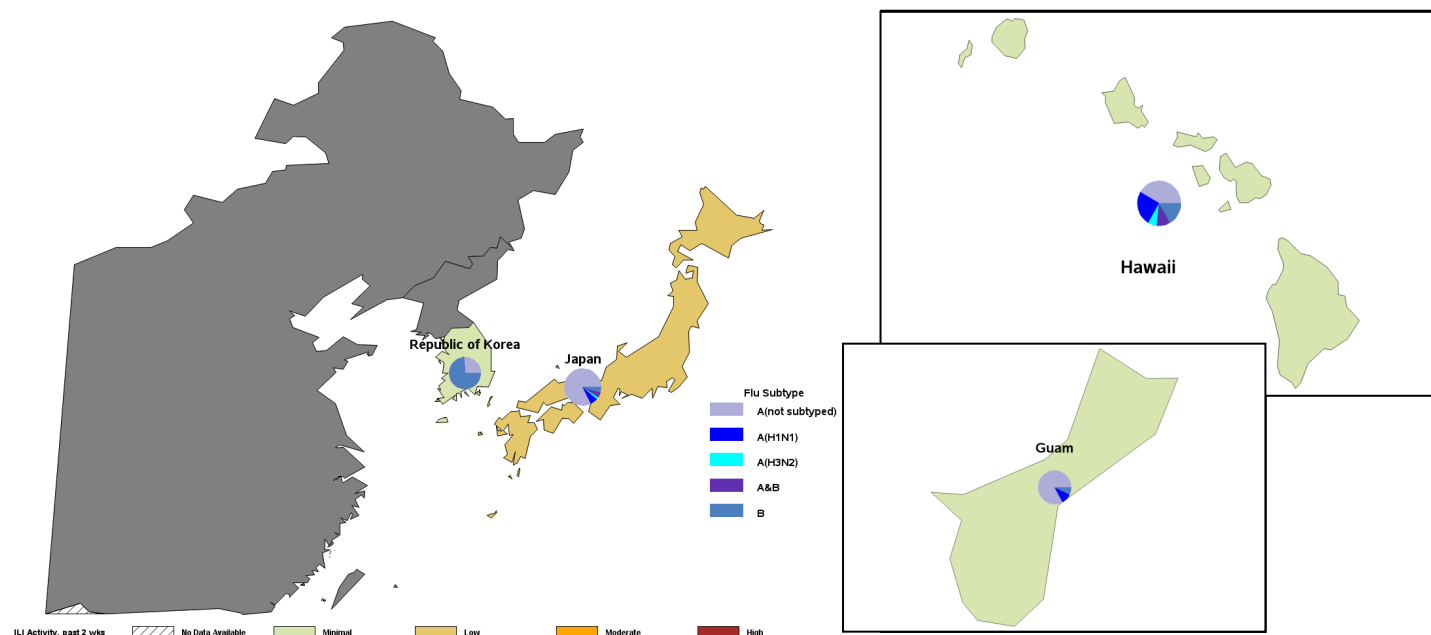


Country	Location	Service	A (not sub-typed)		A (H1N1)		A (H3N2)		A & B		B		Total positive	Total tested	% Positive	Change from last report
			2 wks	Season	2 wks	Season	2 wks	Season	2 wks	Season	2 wks	Season	2 wks	2 wks	2 wks	
Belgium	Shape	A	0	0	0	0	0	0	0	0	0	0	0	0	0	↔
Germany	Barton Barracks	A	0	0	0	0	0	0	0	0	0	0	0	0	0	↔
Germany	Landstuhl RMC	A	0	5	0	1	0	1	0	0	2	2	2	46	4	↓
Germany	Patch Barracks	A	0	0	0	0	0	0	0	0	0	0	0	0	0	↔
Germany	Ramstein AB	F	0	0	0	0	0	0	0	0	0	0	0	7	0	↔
Germany	Spangdahlem AB	F	0	0	0	0	0	0	0	0	0	0	0	0	0	↔
Germany	USAG Bavaria	A	0	0	0	0	0	0	0	0	0	0	0	6	0	↔
Germany	USAG Hohenfels/Amberg	A	0	1	0	0	0	0	0	0	2	2	2	4	50	↓
Germany	USAG Kaiserslautern	A	0	0	0	0	0	0	0	0	0	0	0	2	0	↔
Germany	USAG Katterbach	A	0	0	0	0	0	0	0	0	0	1	0	1	0	↔
Germany	USAG Wiesbaden	A	1	1	0	0	0	0	0	0	0	0	1	4	25	↑
Italy	Aviano AB	F	0	1	0	0	0	1	0	0	0	2	0	6	0	↔
Italy	NAS Sigonella	N	0	0	0	0	0	0	0	0	0	0	0	2	0	↔
Italy	NSA Naples	N	0	0	0	1	0	0	0	0	0	0	0	9	0	↔
Italy	USAG Italy	A	0	2	0	0	0	2	0	0	0	0	0	10	0	↔
Spain	NS Rota	N	0	2	0	0	0	1	0	0	1	1	1	7	14	↓
Turkey	Incirlik AB	F	0	0	0	0	0	0	0	0	0	0	0	1	0	↔
United Kingdom	RAF Alconbury	F	0	0	0	0	0	0	0	0	0	0	0	0	0	↔
United Kingdom	RAF Croughton	F	0	0	0	0	0	0	0	0	0	0	0	0	0	↔
United Kingdom	RAF Lakenheath	F	0	0	0	0	0	0	0	0	0	0	0	16	0	↔

# Influenza Activity: INDOPACOM (2019-2020 Season: Week 48)

- ILI activity remained minimal in INDOPACOM, with the exception of Japan, which had low activity.
- In the Republic of Korea, the majority of positive specimens continued to be influenza B.
- In Japan, Guam and Hawaii, the majority of positive specimens have been influenza A.

## ILI Activity (Service Members) and Laboratory-Confirmed Influenza (All Beneficiaries)



\*Locations colored in dark gray have no Service Member medical encounter data.

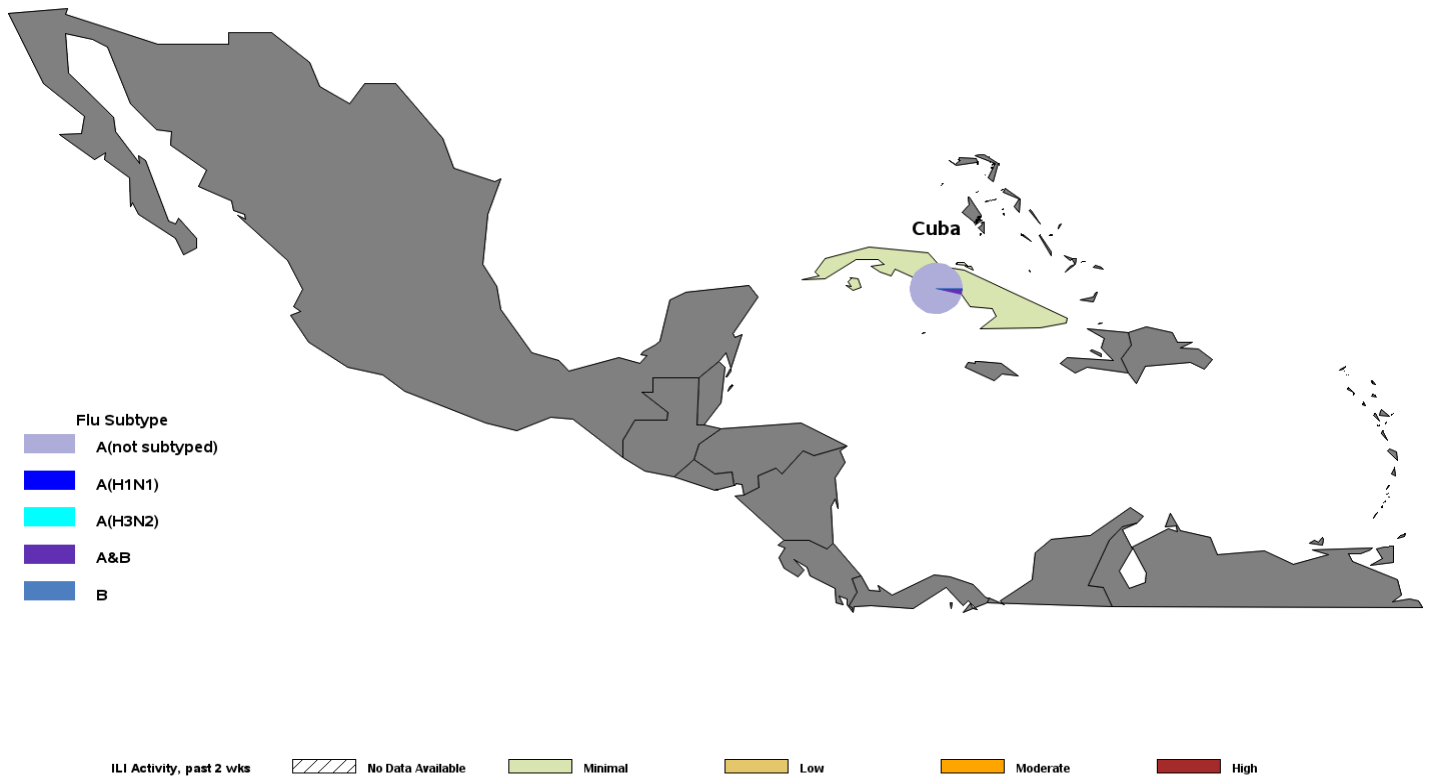
Country	Location	Service	A (not subtyped)		A (H1N1)		A (H3N2)		A & B		B		Total positive	Total tested	% Positive	Change from last report
			2 wks	Season	2 wks	Season	2 wks	Season	2 wks	Season	2 wks	Season	2 wks	2 wks	2 wks	
Guam	JB Andersen	J	17	74	0	9	0	0	0	0	0	6	17	86	20	↓
Japan	CFA Okinawa	N	0	8	0	0	0	0	0	0	0	0	0	10	0	↔
Japan	CFA Yokosuka	N	3	4	0	0	0	0	0	2	0	0	3	23	13	↑
Japan	Camp Foster	N	0	0	0	0	0	0	0	0	0	0	0	4	0	↔
Japan	Camp Fuji	N	0	0	0	0	0	0	0	0	0	0	0	0	0	↔
Japan	Camp Zama	A	1	1	0	0	0	0	0	0	0	0	1	6	17	↑
Japan	Kadena AB	F	0	3	0	2	0	1	0	0	0	0	0	12	0	↔
Japan	MCAS Futenma	N	0	0	0	0	0	0	0	0	0	0	0	0	0	↔
Japan	MCAS Iwakuni	N	4	4	0	0	0	0	0	0	0	1	4	27	15	↓
Japan	Misawa AB	F	0	0	0	0	0	0	0	0	0	1	0	12	0	↔
Japan	NAF Atsugi	N	0	0	0	0	0	0	0	0	0	0	0	3	0	↔
Japan	NB Okinawa	N	2	15	0	0	0	0	0	0	0	0	2	32	6	↓
Japan	USFA Sasebo	N	0	0	0	0	0	0	0	0	0	0	0	0	0	↔
Japan	Yokota AB	F	2	3	0	1	0	0	0	0	0	0	2	16	13	↑
Korea, Republic of	CFA Chinhae	N	0	0	0	0	0	0	0	0	0	0	0	1	0	↔
Korea, Republic of	Camp Casey	A	0	0	0	0	0	0	0	0	0	0	0	2	0	↔
Korea, Republic of	Camp Humphreys	A	0	1	0	0	0	0	0	0	0	0	0	16	0	↔
Korea, Republic of	Camp Walker	A	0	0	0	0	0	0	0	0	0	0	0	2	0	↔
Korea, Republic of	Kunsan AB	F	0	0	0	0	0	0	0	0	0	0	0	1	0	↔
Korea, Republic of	Osan AB	F	1	1	0	0	0	0	0	0	0	0	1	8	13	↓
Korea, Republic of	Yongsan Garrison	A	3	3	0	0	0	0	0	0	0	14	3	61	5	↑
United States	Camp H M Smith	N	0	0	0	0	0	0	0	0	0	0	0	0	0	↔
United States	Ft Shafter	A	2	6	3	14	1	4	1	5	2	6	9	107	8	↓
United States	JB Pearl Harbor-Hickam	J	2	13	0	0	0	0	0	0	0	1	2	21	10	↑
United States	MCB Hawaii	N	0	2	0	1	0	0	0	0	0	1	0	2	0	↔
United States	Schofield Barracks	A	0	4	0	0	0	0	0	1	1	2	1	16	6	↑



# Influenza Activity: SOUTHCOM (2019-2020 Season: Week 48)

- ILI activity remained minimal in Cuba.
- Eight of 15 specimens tested (53%) over the past 2 weeks were positive for influenza A (not subtyped); this is a decrease in the percent positive from last week's report.

## ILI Activity (Service Members) and Laboratory-Confirmed Influenza (All Beneficiaries)



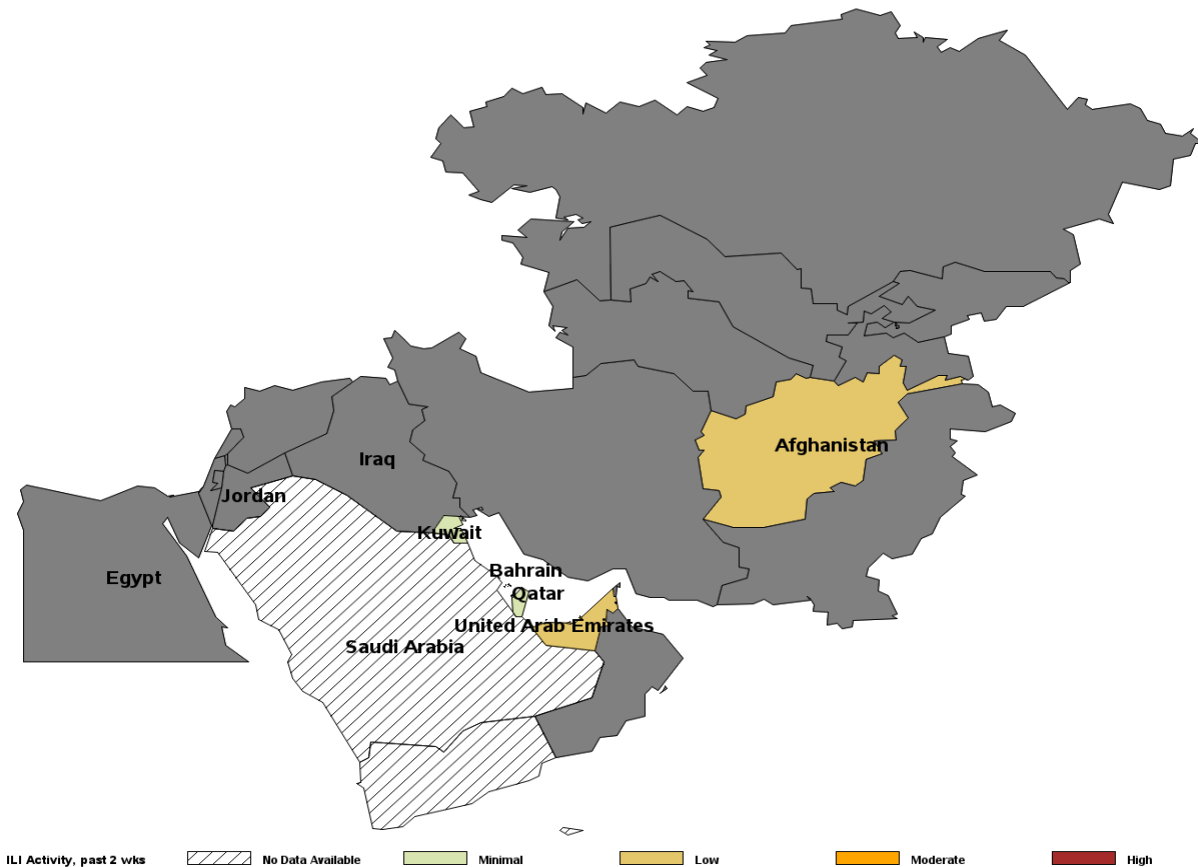
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Country	Location	Service	A (not sub-typed)		A (H1N1)		A (H3N2)		A & B		B		Total positive	Total tested	% Positive	Change from last report
			2 wks	Season	2 wks	Season	2 wks	Season	2 wks	Season	2 wks	Season	2 wks	2 wks	2 wks	
Cuba	Guantanamo Bay	N	8	28	0	0	0	0	0	1	0	0	8	15	53	↓

# Influenza Activity: CENTCOM (2019-2020 Season: Week 48)

- ILI activity was minimal in Kuwait and Qatar.
- ILI activity was low in Afghanistan and the United Arab Emirates.

## ILI Activity (Service Members)



# NORTHCOM Laboratory-Confirmed Influenza

(2019-2020 Season: Week 48)

## Laboratory-Confirmed Influenza (All Beneficiaries) by Installation Alaska through Georgia

State	Location	Service	A (not subtyped)		A (H1N1)		A (H3N2)		A & B		B		Total positive	Total tested	% Positive	Change from last report
			2 wks	Season	2 wks	Season	2 wks	Season	2 wks	Season	2 wks	Season	2 wks	Season	2 wks	
AK	Eielson AFB	F	0	0	0	0	0	0	0	0	0	0	0	9	0	↔
AK	Ft Greely	A	0	0	0	0	0	0	0	0	0	0	0	0	0	↔
AK	Ft Wainwright	A	3	6	1	1	0	0	0	0	8	8	12	87	14	↑
AK	JB Elmendorf-Richardson	J	5	9	3	3	0	0	0	0	4	10	12	98	12	↓
AL	Ft Rucker	A	1	1	0	0	0	0	0	0	16	27	17	88	19	↓
AL	Maxwell AFB	F	0	5	0	3	0	0	0	1	5	10	5	30	17	↓
AL	Redstone Arsenal	A	0	0	0	0	0	0	0	0	2	8	2	20	10	↓
AR	Little Rock AFB	F	0	0	0	0	0	0	0	0	0	0	0	7	0	↔
AZ	Davis-Monthan AFB	F	0	0	0	0	0	0	0	0	0	4	0	13	0	↔
AZ	Ft Huachuca	A	0	0	0	0	0	0	0	0	1	1	1	10	10	↑
AZ	Luke AFB	F	0	0	0	0	0	0	0	2	7	16	7	18	39	↑
AZ	MCAS Yuma	N	0	0	0	0	0	0	0	0	0	0	0	3	0	↔
CA	Beale AFB	F	1	1	0	0	0	0	0	0	1	2	2	7	29	↓
CA	Camp Pendleton	N	2	9	1	2	0	0	0	0	16	26	19	252	8	↓
CA	Edwards AFB	F	0	0	0	0	0	0	0	0	0	0	0	3	0	↔
CA	Ft Irwin	A	1	3	0	0	0	0	0	0	13	15	14	45	31	↑
CA	Los Angeles AFB	F	0	0	0	0	0	0	0	0	0	0	0	1	0	↔
CA	MBHC Eastlake	N	0	0	0	0	0	0	0	0	0	0	0	3	0	↔
CA	NAF El Centro	N	0	0	0	0	0	0	0	0	0	0	0	0	0	↔
CA	NB Coronado	N	0	0	0	0	0	0	0	0	0	0	0	4	0	↔
CA	NB San Diego	N	1	2	2	6	2	5	2	2	10	19	17	203	8	↑
CA	NV Ventura County	N	0	0	0	0	0	0	0	0	0	0	0	0	0	↔
CA	Twentynine Palms	N	5	14	0	0	0	0	0	0	31	34	36	142	25	↑
CA	Vandenberg AFB	F	0	0	0	0	0	0	0	0	0	0	0	1	0	↔
CO	Buckley AFB	F	0	0	0	0	0	0	0	0	1	3	1	6	17	↑
CO	Ft Carson	A	10	41	0	0	0	0	0	1	24	34	34	170	20	↑
CO	Peterson AFB	F	0	2	0	1	0	2	0	0	5	8	5	14	36	↑
CO	Schriever AFB	F	0	0	0	0	0	0	0	0	0	1	0	10	0	↔
CO	USAF Academy	F	0	0	0	0	1	1	0	0	0	0	1	6	17	↓
CT	NSB New London	N	1	2	0	0	0	0	0	0	2	6	3	11	27	↑
DC	JB Anacostia-Bolling	F	0	0	0	0	0	0	0	0	0	0	0	7	0	↔
DC	Pentagon	J	1	1	0	0	0	0	0	0	0	0	1	5	20	↑
DC	Washington Navy Yard	N	0	0	0	0	0	0	0	0	0	0	0	9	0	↔
DE	Dover AFB	F	0	1	0	1	0	0	0	0	0	4	0	14	0	↔
FL	Eglin AFB	J	2	10	0	0	0	1	0	0	2	5	4	61	7	↑
FL	Hurlburt Field	F	0	1	0	0	0	0	0	0	1	2	1	12	8	↓
FL	Macdill AFB	F	3	8	0	0	1	1	0	0	18	56	22	74	30	↑
FL	NAS Jacksonville	J	14	22	0	0	0	0	0	0	22	72	36	156	23	↑
FL	NAS Key West	J	0	7	0	0	0	0	0	0	0	0	0	1	0	↔
FL	NAS Pensacola	N	2	10	0	0	0	0	1	1	43	111	46	261	18	↓
FL	NAS Whiting Field	N	0	0	0	0	0	0	0	0	2	5	2	16	13	↓
FL	NS Mayport	J	1	4	0	0	0	0	0	0	5	10	6	14	43	↑
FL	Patrick AFB	F	4	8	0	0	0	0	0	1	8	14	12	47	26	↓
FL	Tyndall AFB	F	0	1	0	0	0	0	0	0	0	1	0	2	0	↔
GA	Ft Benning	A	4	7	0	0	0	0	0	2	21	29	25	254	10	↓
GA	Ft Gordon	A	2	4	0	0	0	0	0	4	16	29	18	129	14	↑
GA	Ft Stewart	A	0	4	0	0	0	0	1	1	4	7	5	103	5	↑
GA	Hunter Army Airfield	A	1	1	0	0	0	0	0	0	1	5	2	9	22	↑
GA	Moody AFB	F	1	1	1	1	0	0	0	0	0	1	2	18	11	↓
GA	NAS Albany	J	0	0	0	0	0	0	0	0	1	4	1	4	25	↓
GA	NSB Kings Bay	J	2	2	0	0	0	0	0	0	1	1	3	13	23	↓
GA	Robins AFB	F	0	0	1	2	0	0	0	0	0	0	1	3	33	↓

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# NORTHCOM Laboratory-Confirmed Influenza

(2019-2020 Season: Week 48)

## Laboratory-Confirmed Influenza (All Beneficiaries) by Installation Illinois through New York

State	Location	Service	A (not subtyped)		A (H1N1)		A (H3N2)		A & B		B		Total positive	Total tested	% Positive	Change from last report
			2 wks	Season	2 wks	Season	2 wks	Season	2 wks	Season	2 wks	Season	2 wks	2 wks	2 wks	
IL	NS Great Lakes	N	4	6	0	1	0	0	1	1	38	197	43	139	31	↓
IL	Scott AFB	F	0	1	1	1	0	0	0	1	0	2	1	19	5	↓
KS	Ft Leavenworth	A	2	5	0	0	0	0	0	0	4	4	6	35	17	↑
KS	Ft Riley	A	3	5	0	0	0	0	0	0	1	3	4	92	4	↓
KS	McConnell AFB	F	0	0	0	0	0	0	0	0	0	0	0	4	0	↔
KY	Ft Campbell	A	9	14	0	0	0	0	0	0	10	15	19	169	11	↔
KY	Ft Knox	A	0	1	0	0	0	0	0	0	0	1	0	8	0	↔
LA	Barksdale AFB	F	0	1	0	0	0	0	0	0	1	2	1	19	5	↑
LA	Ft Polk	A	2	3	0	0	0	0	0	0	12	16	14	92	15	↑
LA	NAS Belle Chase	N	0	0	0	0	0	0	0	0	0	0	0	5	0	↔
MA	Hanscom AFB	F	0	0	0	0	0	0	0	0	0	0	0	4	0	↔
MD	Aberdeen Proving Ground	A	0	3	0	0	0	0	0	0	0	3	0	8	0	↔
MD	Ft Detrick	A	1	1	0	0	0	0	0	0	2	5	3	7	43	↑
MD	Ft Meade	A	0	0	0	0	0	0	0	0	1	1	1	5	20	↓
MD	JB Andrews	F	0	4	0	0	0	1	0	0	4	7	4	76	5	↑
MD	NAS Patuxent River	N	0	1	0	0	0	0	0	0	1	1	1	11	9	↓
MD	NBHC Bancroft Hall	N	0	17	0	0	0	0	0	0	0	2	0	15	0	↔
MD	NHC Annapolis	N	2	7	0	0	0	0	0	0	0	0	2	13	15	↑
MD	NSF Indian Head	N	0	0	0	0	0	0	0	0	0	0	0	1	0	↔
MD	WRNMMC	J	1	5	0	0	0	0	1	1	10	11	12	180	7	↑
MO	Ft Leonard Wood	A	0	5	0	0	0	0	0	0	3	5	3	96	3	↓
MO	Whiteman AFB	F	0	1	0	0	0	0	0	0	0	0	0	3	0	↔
MS	Columbus AFB	F	0	0	0	0	0	0	0	0	0	0	0	2	0	↔
MS	Keesler AFB	J	2	3	0	2	0	0	0	0	40	71	42	185	23	↓
MS	NAS Meridian	N	0	0	0	0	0	0	0	0	0	2	0	4	0	↔
MS	NBHC Gulfport	N	1	2	0	0	0	0	0	0	8	14	9	27	33	↓
MT	Malmstrom AFB	F	1	1	0	0	0	0	0	0	0	2	1	6	17	↓
NC	Camp Lejeune	N	18	90	0	0	0	0	0	0	12	19	30	159	19	↓
NC	Ft Bragg	J	0	0	0	0	0	0	0	0	0	0	0	174	0	↔
NC	MCAS Cherry Point	N	1	3	0	0	0	0	0	0	3	3	4	20	20	↑
NC	Pope Army Airfield	J	0	0	0	0	0	0	0	0	0	0	0	18	0	↔
NC	Seymour Johnson AFB	J	1	1	0	0	1	1	0	0	0	0	2	19	11	↓
ND	Grand Forks AFB	F	0	0	0	0	0	0	0	0	0	0	0	3	0	↔
ND	Minot AFB	F	0	0	0	0	0	0	0	0	0	0	0	4	0	↔
NE	Offutt AFB	F	0	0	0	0	0	0	0	0	0	0	0	6	0	↔
NH	Portsmouth	N	0	0	0	0	0	0	0	0	0	1	0	2	0	↔
NJ	JB McGuire-Dix-Lakehurst	F	1	1	0	0	0	0	0	0	0	0	1	31	3	↓
NM	Cannon AFB	F	0	0	0	0	0	0	0	0	0	0	0	2	0	↔
NM	Holloman AFB	F	1	1	0	0	0	0	1	1	0	0	2	10	20	↓
NM	Kirtland AFB	F	0	0	0	0	0	2	0	0	0	0	0	7	0	↔
NM	White Sands Missile Range	A	0	0	0	0	0	0	0	0	0	2	0	1	0	↔
NV	Nellis AFB	F	9	16	0	1	1	4	0	0	73	181	83	215	39	↓
NY	Ft Drum	A	0	3	0	0	0	5	0	0	0	0	0	14	0	↔
NY	West Point	A	2	5	0	0	2	4	0	0	0	3	4	19	21	↓

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# NORTHCOM Laboratory-Confirmed Influenza

(2019-2020 Season: Week 48)

## Laboratory-Confirmed Influenza (All Beneficiaries) by Installation Ohio through Wyoming

State	Location	Service	A (not subtyped)		A (H1N1)		A (H3N2)		A & B		B		Total positive	Total tested	% Positive	Change from last report
			2 wks	Season	2 wks	Season	2 wks	Season	2 wks	Season	2 wks	Season	2 wks	2 wks	2 wks	
OH	Wright-Patterson AFB	F	2	4	2	4	0	1	0	0	2	5	6	97	6	↑
OK	Altus AFB	F	0	0	0	0	0	0	0	0	1	2	1	17	6	↓
OK	Ft Sill	A	0	0	0	0	0	0	0	0	7	10	7	61	11	↓
OK	Tinker AFB	F	0	0	0	0	0	0	0	0	0	0	0	15	0	↔
OK	Vance AFB	F	0	0	0	0	0	0	0	1	0	0	0	5	0	↔
PA	Carlisle Barracks	A	0	0	0	0	0	0	0	0	1	2	1	8	13	↓
PR	Ft Buchanan	A	0	0	0	0	0	0	0	0	1	3	1	6	17	↓
PR	NS Roosevelt Roads	N	0	2	0	0	0	0	0	0	0	0	0	0	0	↔
RI	NHC New England	N	0	0	0	0	0	0	0	0	0	0	0	10	0	↔
SC	Ft Jackson	A	3	6	0	0	0	0	0	0	17	21	20	102	20	↑
SC	JB Charleston	J	4	12	0	0	0	0	0	0	5	10	9	59	15	↓
SC	MCAS Beaufort	N	0	1	0	0	0	1	0	0	0	0	0	16	0	↔
SC	Parris Island	N	1	4	0	0	0	0	0	0	0	8	1	48	2	↓
SC	Shaw AFB	F	0	0	0	0	0	0	0	0	0	2	0	38	0	↔
SD	Ellsworth AFB	F	0	0	0	0	0	0	0	0	0	0	0	14	0	↔
TN	Ft Campbell	A	2	4	0	2	0	1	0	0	4	13	6	48	13	↑
TN	NSA Mid-South	N	0	0	0	0	0	0	0	0	0	0	0	5	0	↔
TX	Dyess AFB	F	1	2	0	0	0	0	1	2	0	0	2	21	10	↑
TX	Ft Bliss	A	3	7	2	4	0	1	0	4	16	23	21	251	8	↑
TX	Ft Hood	A	3	12	0	1	0	0	1	2	216	998	220	727	30	↓
TX	Goodfellow AFB	F	0	0	0	0	0	0	0	0	1	1	1	9	11	↓
TX	JB San Antonio	J	37	73	0	1	0	0	0	0	90	146	127	736	17	↑
TX	Laughlin AFB	F	1	1	0	0	0	0	0	0	0	0	1	10	10	↑
TX	NAS Corpus Christi	N	0	1	0	0	0	0	0	0	0	1	0	2	0	↔
TX	Sheppard AFB	F	0	1	0	0	0	0	0	0	0	0	0	57	0	↔
UT	Hill AFB	F	0	0	0	0	0	0	0	0	0	1	0	10	0	↔
VA	Ft Belvoir	J	5	6	0	0	0	0	0	0	18	27	23	211	11	↑
VA	Ft Lee	A	4	7	0	0	0	0	2	2	14	14	20	45	44	↑
VA	JB Langley-Eustis	J	4	10	0	0	0	0	0	0	6	13	10	80	13	↑
VA	JB Myer-Henderson Hall	A	0	0	0	0	0	0	0	0	2	2	2	9	22	↑
VA	MCB Quantico	N	1	1	0	0	0	0	0	0	0	1	1	57	2	↑
VA	NAS Oceana	N	0	0	0	0	0	0	0	0	2	2	2	8	25	↓
VA	NB Dam Neck	N	1	1	0	0	0	0	0	0	0	0	1	2	50	↓
VA	NS Norfolk	N	0	1	0	0	0	0	0	0	4	4	4	17	24	↓
VA	NWS Dahlgren	N	0	0	0	0	0	0	0	0	0	0	0	0	0	↔
VA	NWS Yorktown	N	0	0	0	0	0	0	0	0	4	4	4	5	80	↓
VA	Portsmouth	N	0	3	0	1	1	4	0	0	27	30	28	94	30	↓
VA	TPC Suffolk	N	0	0	0	0	0	0	0	0	0	0	0	2	0	↔
WY	FE Warren AFB	F	0	3	0	0	0	0	0	0	0	0	0	12	0	↔

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# Surveillance Programs and Data Sources

## Defense Health Agency / Armed Forces Health Surveillance Branch (AFHSB):

The Armed Forces Health Surveillance Branch (AFHSB) is the central epidemiologic resource for the U.S. Armed Forces, conducting medical surveillance to protect those who serve our nation in uniform and allies who are critical to our national security interests. The Epidemiology and Analysis Section of AFHSB, the Epi Data Center of the Navy and Marine Corps Public Health Center, and the Air Force Satellite Office in Dayton, Ohio (Wright-Patterson AFB) have compiled data for this report from the following sources below.

## Influenza-like Illness Activity:

Medical encounter and demographic data from the AFHSB's Defense Medical Surveillance System (DMSS) are used to generate portions of this report. ICD-10 codes from outpatient encounters are used to identify influenza-like illness (ILI). ILI is defined using the following codes: B97.89, H66.9, H66.90, H66.91, H66.92, H66.93, J00, J01.9, J01.90, J06.9, J09, J09.X, J09.X1, J09.X2, J09.X3, J09.X9, J10, J10.0, J10.00, J10.01, J10.08, J10.1, J10.2, J10.8, J10.81, J10.82, J10.83, J10.89, J11, J11.0, J11.00, J11.08, J11.1, J11.2, J11.8, J11.81, J11.82, J11.83, J11.89, J12.89, J12.9, J18, J18.1, J18.8, J18.9, J20.9, J40, R05, R50.9.

The percentage of all outpatient visits that have an ILI code is calculated each week for all service members, regardless of component. These data are presented weekly for the current season and compared to the four prior seasons among service members. Influenza activity levels are calculated by comparing the mean reported percent of visits due to ILI for the previous two weeks to the mean reported percent of visits due to ILI during baseline weeks (defined as non-influenza weeks (weeks 22-39) over the past 3 years). There are four influenza activity levels, minimal, low, moderate, and high. The activity level corresponds to the number of standard deviations (SD) below, at or above the mean for the current 2 week period compared to the mean of the baseline weeks. Minimal activity corresponds to an influenza percentage that is less than 2 SD above the mean. Low activity corresponds to an influenza percentage that is equal to or greater than 2 SD above the mean, but less than 4 SD above the mean. Moderate activity corresponds to an influenza percentage that is equal to or greater than 4 SD above the mean, but less than 6 SD above the mean. High activity corresponds to an influenza percentage that is equal to or greater than 6 SD above the mean.

Influenza activity levels are presented in the Combatant Command (CCMD) maps, either by Installation, state, or country.

## Influenza Positive Specimens:

Influenza lab results (HL-7 formatted data) are compiled and transmitted from the Navy and Marine Corps Public Health Center to AFHSB. Results obtained via PCR, viral culture, and rapid influenza assays are reported. Although the inclusion of rapid tests may underestimate the weekly and cumulative percent positive estimates due to false negatives, visibility of the positive rapid results provides valuable information for this surveillance report. Influenza types/subtypes are categorized as influenza A/not subtyped, influenza A(H1N1), influenza A(H3N2), influenza A and B co-infection, and influenza B. Additionally, laboratory-confirmed positive results are used to identify influenza-related hospitalization cases across the DoD.

The percent positivity is calculated by dividing the number of influenza positive specimens by the total number of specimens (positive and negative only; inconclusive results are excluded). The distributions of percent positive specimens by subtype are presented on a weekly basis for the entire influenza season. For each CCMD state, the distribution of subtypes for the previous 2 weeks are presented as pie graphs for states and countries. For installations, data are presented in tables with counts and percent positive by subtype for the past 2 weeks and for the entire season. The "change from last report" column reports the absolute difference in the percent positive from the prior week's report to the current week's report.

# Surveillance Programs and Data Sources

## Pharmacy Transactions for Dispensed Antiviral Prescriptions:

HL7-formatted pharmacy transactions are used to assess the number of dispensed influenza antiviral (AV) prescriptions. Four influenza AV medications approved by the Food and Drug Administration (FDA) are recommended by the CDC for use in the United States (US) for the 2019-2020 influenza season: oral oseltamivir (Tamiflu® or generic), inhaled zanamivir (Relenza®), and intravenous peramivir (Rapivab®), and baloxavir marboxil (Xofluza®). These prescriptions are included in this surveillance. The overall count of dispensed AV prescriptions by week is presented graphically for the influenza season. A seasonal baseline is displayed with dispensed AV prescriptions. Surveillance thresholds are displayed with the count of inpatient dispensed AV prescriptions. Additionally, counts of inpatient dispensed influenza AV prescriptions are presented weekly for the influenza season.

## Baselines, Thresholds, and Trends:

Weekly baselines used a three-year average to compare results with those from the same week during the previous three seasons. Bands for one and two standard deviations above seasonal baseline estimates are displayed to indicate when trends diverge with respect to timing or volume from those of recent seasons. The ILI, lab, and dispensed AV prescription data thresholds are calculated by adding two standard deviations to the off-season average.

Inpatient thresholds (lab and dispensed AV prescription data) are calculated by adding one standard deviation to the overall weighted average for in-season weeks. Weeks that represent at least 2% of the total season's laboratory-positive influenza cases for at least two consecutive weeks was considered to be "in-season" or influenza weeks; all other weeks are considered to be "off-season" or non-influenza weeks.

## Links to Service-Specific Influenza Reports:

Select the following links to see service-specific influenza surveillance weekly reports:

- Navy and Marine Corps Public Health Center (NMCPHC):  
<https://www.med.navy.mil/sites/nmcphc/epi-data-center/influenza/Pages/default.aspx>
- United States Air Force School of Aerospace Medicine (USAFSAM)/Defense Health Agency (DHA):  
<https://hpws.afrl.af.mil/epi-consult/influenza/ActivityUpdates.cfm>