DoD Consolidated Influenza Surveillance Report
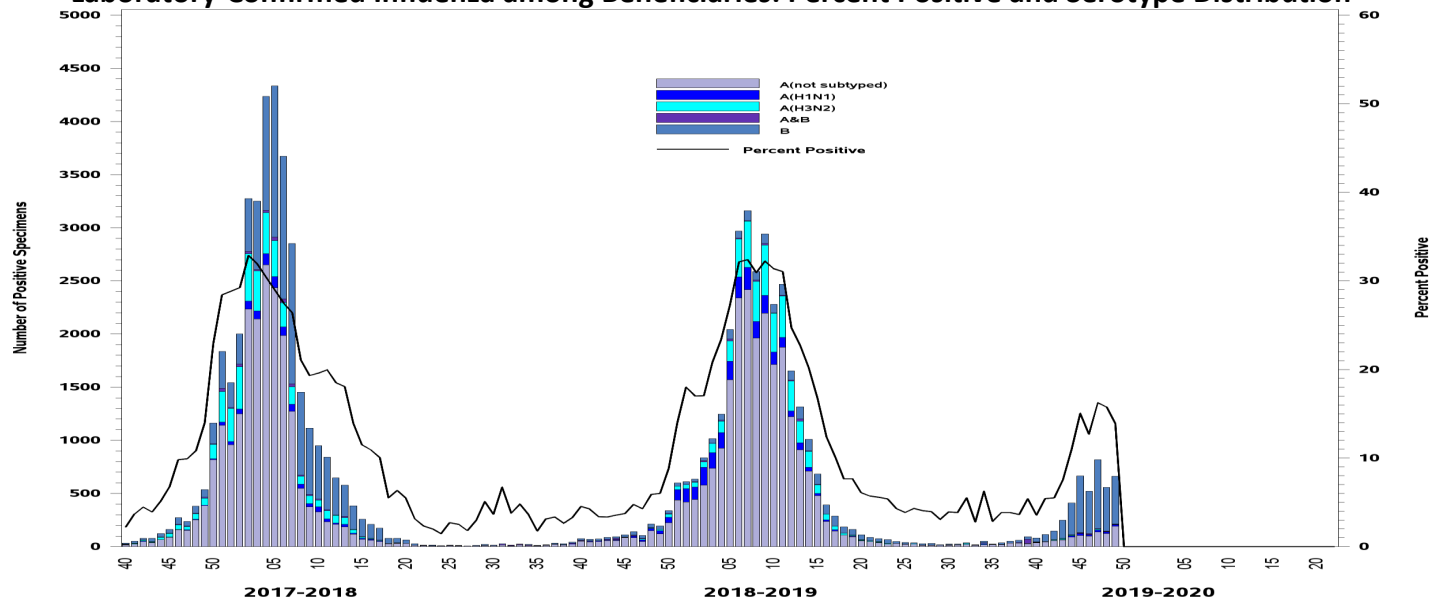## Week 49 (01 December 2019— 07 December 2019)

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 49.
- Influenza-like illness (ILI) activity among active component Service Members remained low, but continued to increase.
- Fort Hood and Los Angeles AFB both had high ILI activity.
- The majority of laboratory-confirmed influenza cases continued to be type B in NORTHCOM and type A in all other combatant commands with data.
- Three new laboratory-confirmed influenza hospitalization was reported for week 49 (Season total: 22).

Influenza Surveillance Indicators (2019-2020 season)

All Beneficiaries	Total Per Week	Trend	Activity Level
Laboratory Cases	662	◄►	Normal
Dispensed Antivirals	857	◄►	Normal

Severity			Activity Level
Inpatient Laboratory Cases	3	◄►	Low
Inpatient Dispensed Antivirals	18	▲	Low

Active Component			Activity Level
Laboratory Cases	171	◄►	Low
Dispensed Antivirals	186	◄►	Low
ILI Outpatient Visits	3%	◄►	Moderate

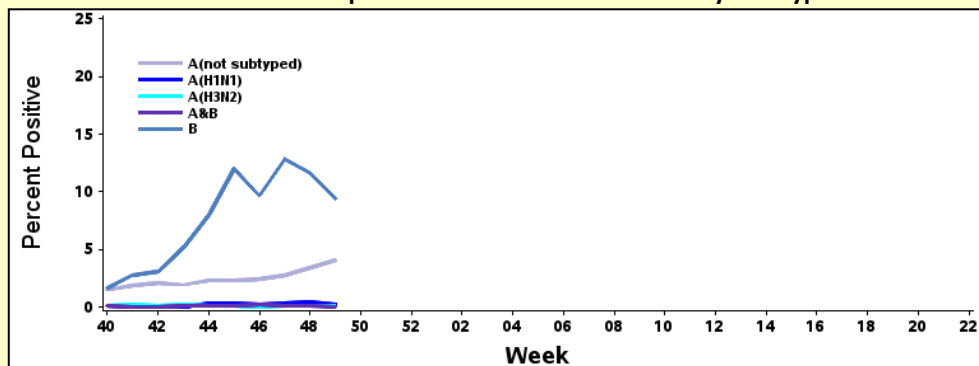### Laboratory-Confirmed Influenza among Beneficiaries: Percent Positive and Serotype Distribution

Legend:
- A(not subtyped)
- A(H1N1)
- A(H3N2)
- A&B
- B
- Percent Positive

X-axis periods: 2017-2018, 2018-2019, 2019-2020

Laboratory-Confirmed Influenza (2019-2020 Season: Week 49)

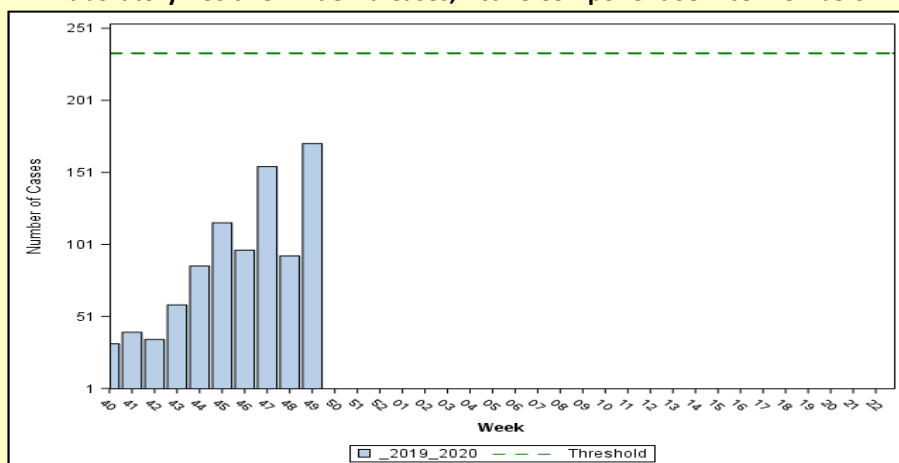## Number and Distribution of Positive Specimens, by Beneficiary Status and Serotype

- **Children continued to have the highest number of laboratory-confirmed influenza positive specimens at 2,356; Service Members had the second highest count at 974.**

Service Members N=974 | Beneficiaries(0-17) N=2356 | Beneficiaries(18-64) N=822 | Beneficiaries(65+) N=77

Flu Subtype
- A(not subtyped)
- A(H1N1)
- A(H3N2)
- A&B
- B
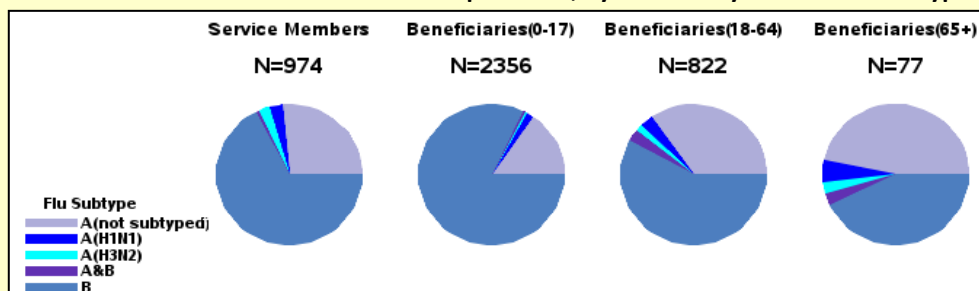
Percent of Specimens Positive for Influenza by Serotype

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

Laboratory-Positive Influenza Cases, All Beneficiaries

- **The number of laboratory-confirmed cases among all beneficiaries increased and 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.**
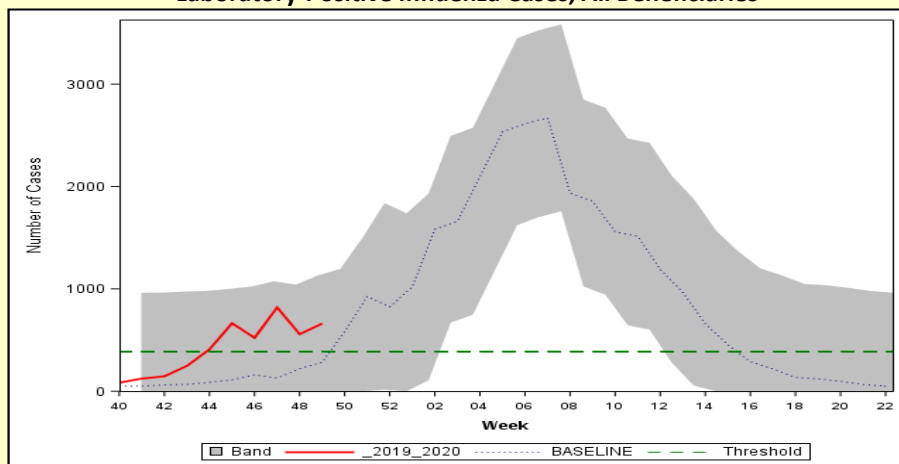
Laboratory-Positive Influenza Cases, Active Component Service Members

- **The number of active component Service Member laboratory-confirmed cases increased, but was below threshold.**

- **Threshold indicates two standard deviations above seasonal baseline estimates.**

12/11/2019

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

- **The percent of outpatient visits due to ILI among Service Members continued to increase and was above baseline and prior seasons.**

Influenza-Specific Dispensed Antiviral Prescriptions, All Beneficiaries

- **Dispensed antiviral prescriptions among all beneficiaries increased and was above threshold and baseline, but within the band.**

- **Band indicates one standard deviation above and below seasonal baseline estimates. Threshold indicates two standard deviations above off-season average.**
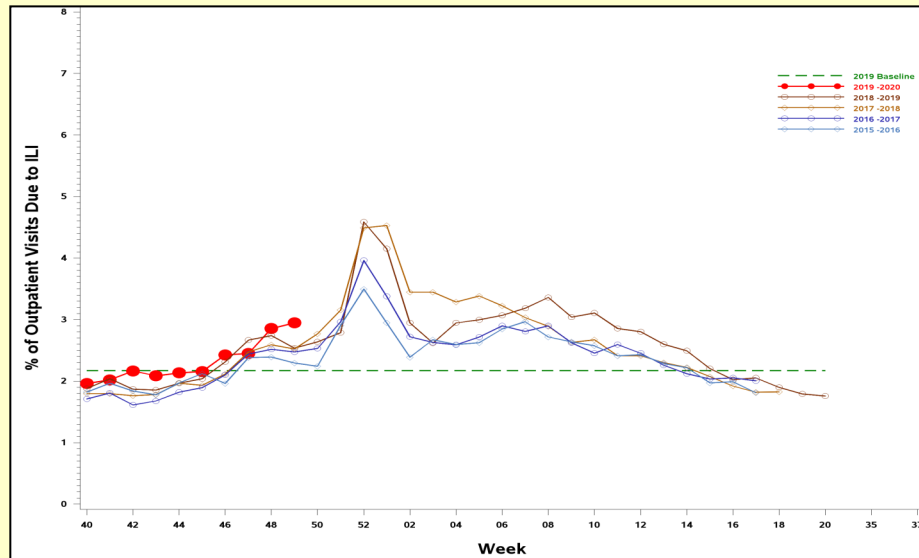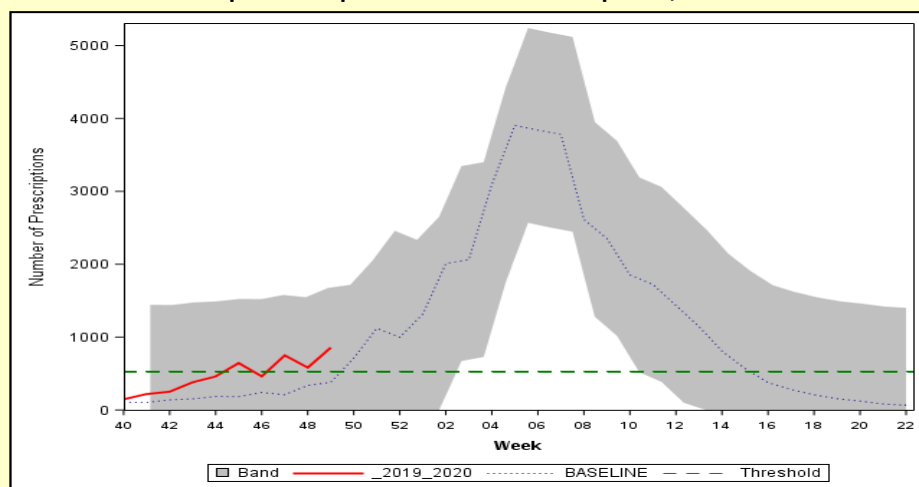
Influenza-Specific Dispensed Antiviral Prescriptions:
Active Component Service Members

- **Dispensed antiviral prescriptions among active component Service Members increased.**

- **Threshold indicates two standard deviation above the overall weighted average during the season.**
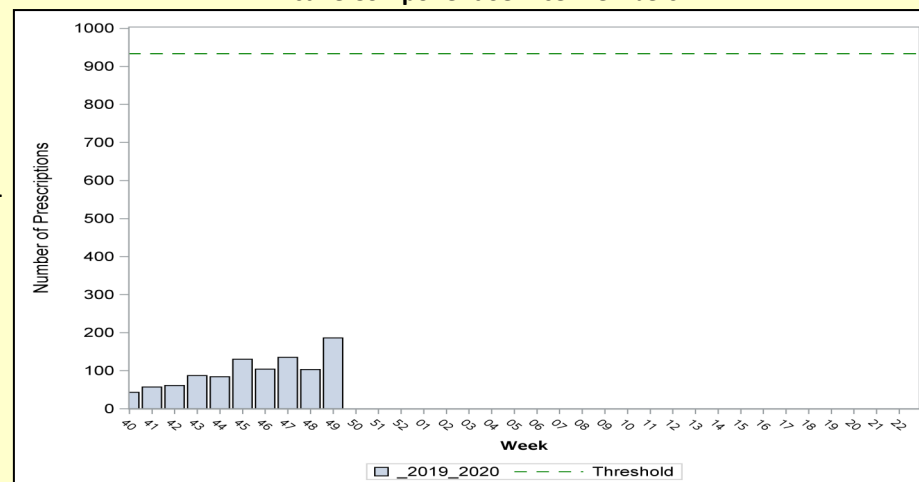
Severity: Hospitalized Influenza Metrics (2019-2020 Season: Week 49)

- Three new laboratory-confirmed influenza hospitalizations were reported for week 49; all among other beneficiaries.

  - Influenza A(H1N1) case at Fort Shafter

  - Influenza A (not subtyped) case at Camp Lejeune

  - Influenza B case at Nellis AFB

- There have been 22 laboratory-confirmed influenza hospitalizations this season (2 Service Members / 20 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
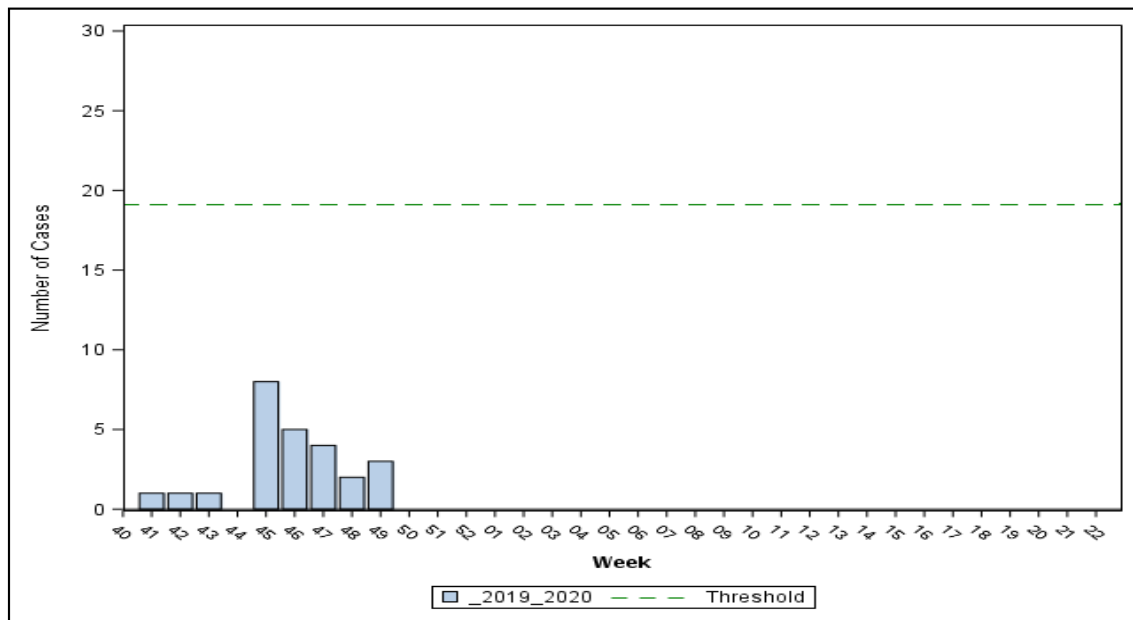
Inpatient Dispensed Antivirals Prescriptions, All Beneficiaries
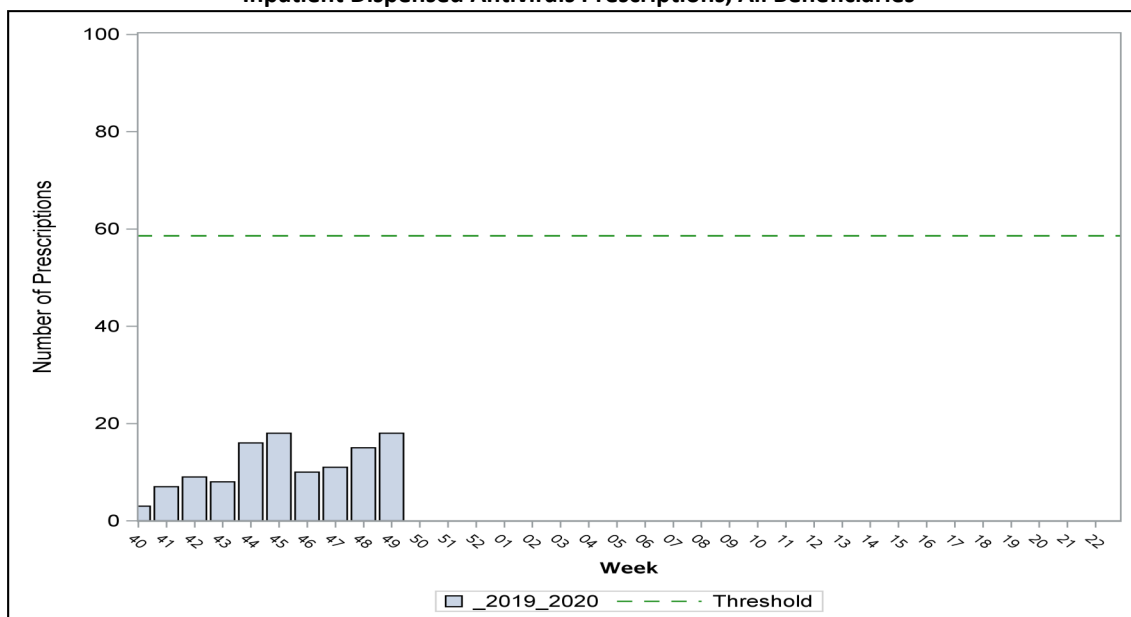
12/11/2019

Influenza Activity: Geographic Combatant Command

(2019-2020 Season: Week 49)

- NORTHCOM: ILI activity increased to moderate. 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 increased to moderate overall. 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 low.

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

Flu Subtype
- A(not subtyped)
- A(H1N1)
- A(H3N2)
- A&B
- B

ILI Activity, past 2 wks: No Data Available | Minimal | Low | Moderate | High
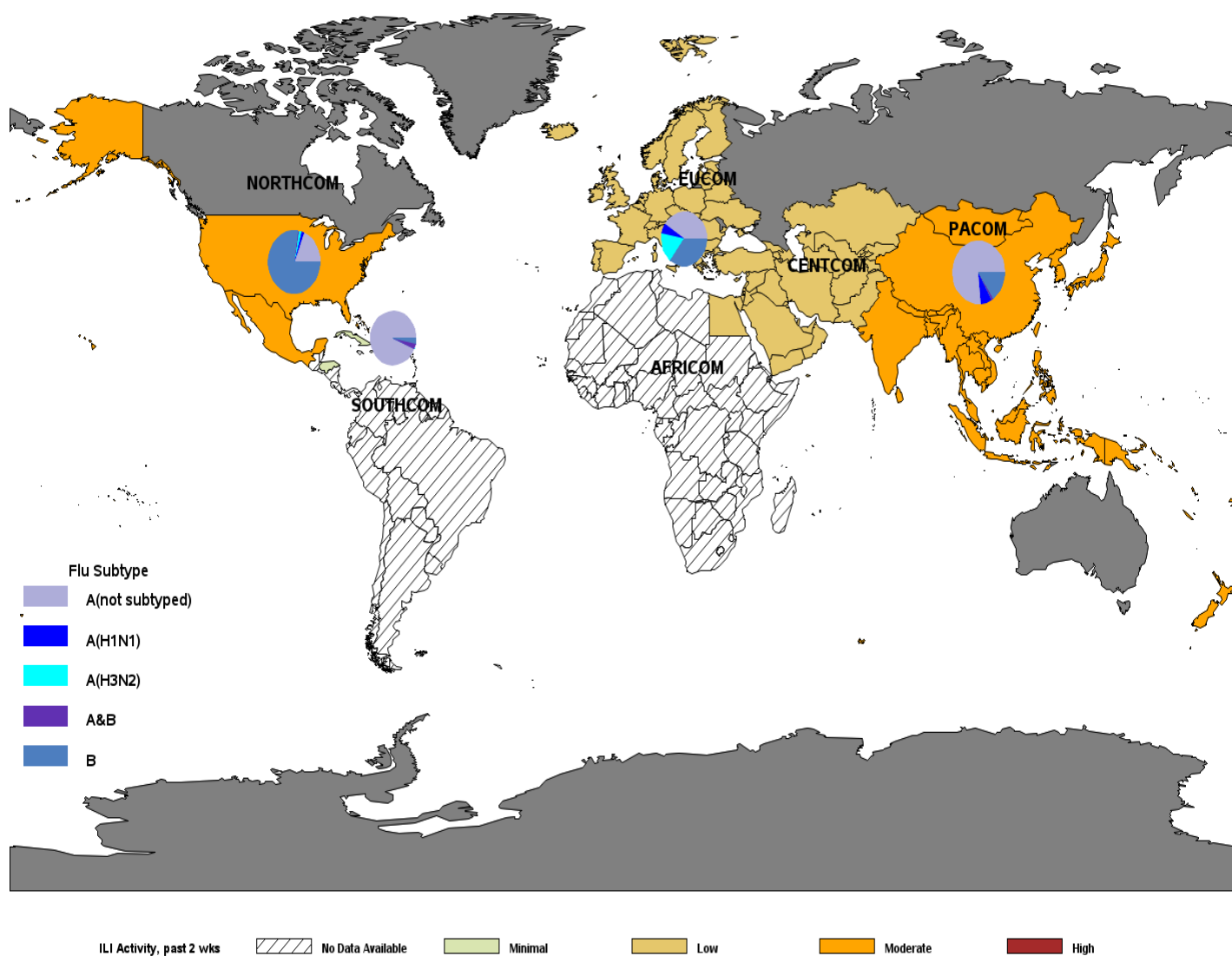
*Locations colored in dark gray have no Service Member medical encounter data.

Influenza Activity: NORTHCOM (2019-2020 Season: Week 49)

- The majority of installations continued to have minimal or low activity. However, the number of installations with moderate activity increased three-fold (n=16).

- Fort Hood and Los Angeles AFB both had high activity.

- ILI activity increased at the state level, with a majority of states having low and moderate activity. ILI activity increased to high in Michigan and Florida.

- 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.

Installation ILI Activity, past 2 wks
- Minimal
- Low
- Moderate
- High

ILI Activity, past 2 wks: No Data Available | Minimal | Low | Moderate | High

12/11/2019

Influenza Activity: EUCOM (2019-2020 Season: Week 49)

- ILI activity increased to low in all EUCOM countries with data, except Spain, which continued to have minimal activity.

- Influenza A continued to predominate in the area.

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

Flu Subtype
- A(not subtyped)
- A(H1N1)
- A(H3N2)
- A&B
- B

ILI Activity, past 2 wks: No Data Available | Minimal | Low | Moderate | High

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

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	1	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	0	2	0	47	0	↔
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	10	0	↔
Germany	Spangdahlem AB	F	0	0	0	0	0	0	0	0	0	0	0	2	0	↔
Germany	USAG Bavaria	A	0	0	0	0	0	0	0	0	1	1	1	15	7	↑
Germany	USAG Hohenfels/Amberg	A	1	2	0	0	0	0	0	0	1	2	2	8	25	↓
Germany	USAG Kaiserslautern	A	0	0	0	0	0	0	0	0	1	1	1	4	25	↑
Germany	USAG Katterbach	A	0	0	0	0	0	0	0	0	0	1	0	2	0	↔
Germany	USAG Wiesbaden	A	1	1	0	0	0	0	0	0	0	0	1	1	100	↓
Italy	Aviano AB	F	0	1	0	0	0	1	0	0	0	2	0	2	0	↔
Italy	NAS Sigonella	N	0	0	0	0	0	0	0	0	0	0	0	4	0	↔
Italy	NSA Naples	N	0	0	0	1	0	0	0	0	0	0	0	21	0	↔
Italy	USAG Italy	A	0	2	0	0	0	2	0	0	0	0	0	9	0	↔
Spain	NS Rota	N	0	2	0	0	0	1	0	0	0	1	0	4	0	↔
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	1	1	0	0	1	1	0	0	1	1	3	23	13	↑

- ILI activity remained minimal in INDOPACOM, with the exception of Japan, which had low activity.

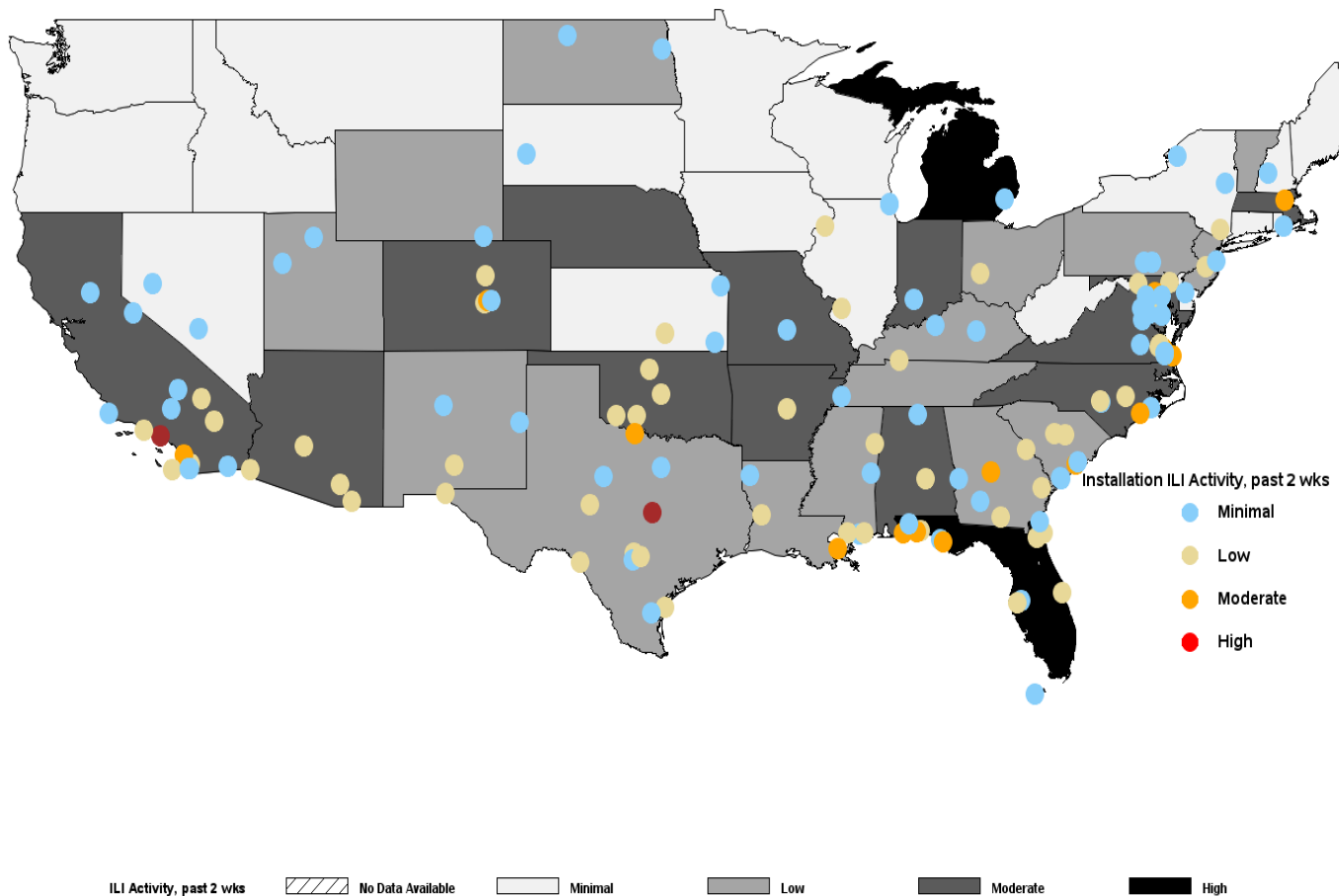- The majority of positive specimens over the past 2 weeks changed to influenza A instead of influenza B.

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

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

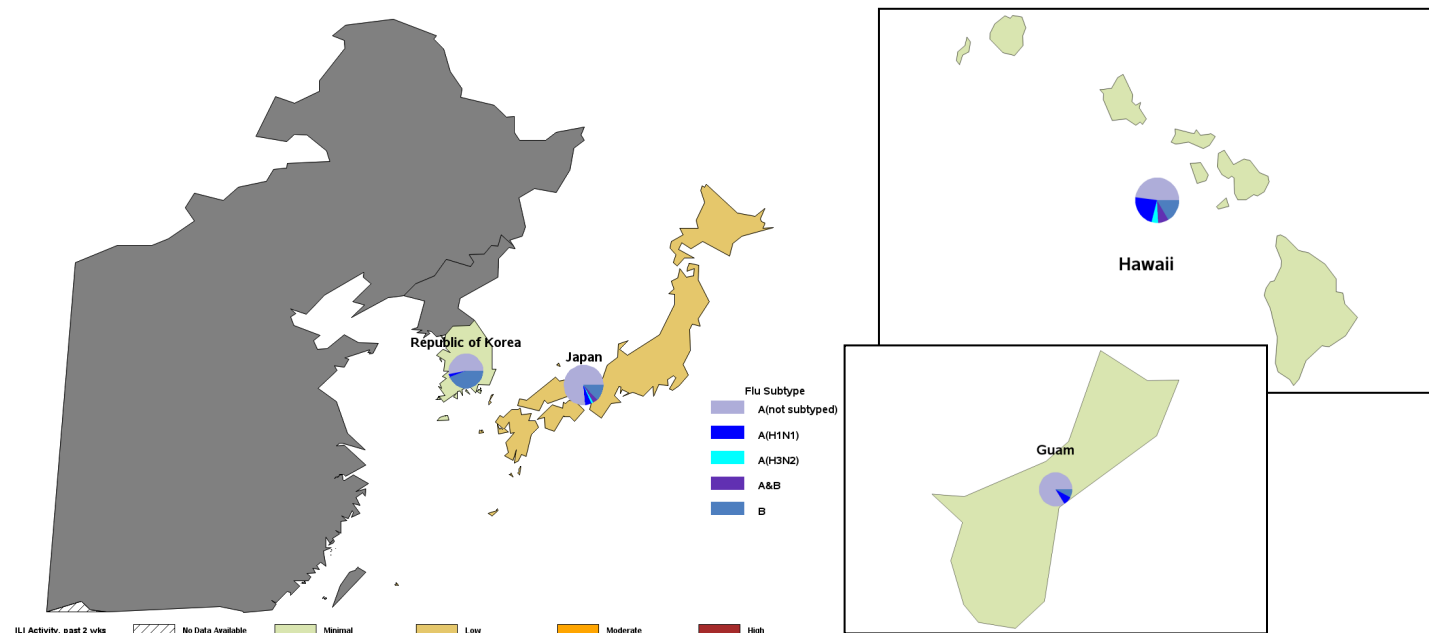| Country	Location	Service	A (not subtyped) 2 wks	A (not subtyped) Season	A (H1N1) 2 wks	A (H1N1) Season	A (H3N2) 2 wks	A (H3N2) Season	A & B 2 wks	A & B Season	B 2 wks	B Season	Total positive 2 wks	Total tested 2 wks	% Positive 2 wks	Change from last report
Guam	JB Andersen	J	23	89	0	9	0	0	0	0	2	8	25	107	23	↑
Japan	CFA Okinawa	N	2	10	0	0	0	0	0	0	3	3	5	16	31	↑
Japan	CFA Yokosuka	N	5	6	0	0	0	0	0	2	0	0	5	28	18	↓
Japan	Camp Foster	N	0	0	0	0	0	0	0	0	0	0	0	7	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	8	0	↔
Japan	MCAS Futenma	N	0	0	0	0	0	0	0	0	0	0	0	1	0	↔
Japan	MCAS Iwakuni	N	2	4	0	0	0	0	0	0	0	1	2	23	9	↓
Japan	Misawa AB	F	0	0	0	0	0	0	0	0	1	2	1	22	5	↑
Japan	NAF Atsugi	N	0	0	0	0	0	0	0	0	0	0	0	1	0	↔
Japan	NB Okinawa	N	0	15	0	0	0	0	0	0	1	1	1	41	2	↑
Japan	USFA Sasebo	N	0	0	0	0	0	0	0	0	0	0	0	0	0	↔
Japan	Yokota AB	F	1	3	0	1	0	0	0	0	0	0	1	13	8	↓
Korea, Republic of	CFA Chinhae	N	0	0	0	0	0	0	0	0	0	0	0	0	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	2	3	0	0	0	0	0	0	0	0	2	27	7	↑
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	6	7	0	1	0	0	0	0	1	1	7	20	35	↑
Korea, Republic of	Yongsan Garrison	A	8	8	0	0	0	0	0	0	0	14	8	64	13	↑
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	9	14	5	17	0	4	0	5	2	7	16	121	13	↑
United States	JB Pearl Harbor-Hickam	J	4	15	0	0	0	0	0	0	2	3	6	28	21	↑
United States	MCB Hawaii	N	2	4	0	1	0	0	0	0	0	1	2	7	29	↑
United States	Schofield Barracks	A	1	5	0	0	0	0	0	1	1	2	2	15	13	↓

- ILI activity remained minimal in Cuba.

- The majority of positive specimens continued to be Influenza A.

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

Flu Subtype
- A(not subtyped)
- A(H1N1)
- A(H3N2)
- A&B
- B

ILI Activity, past 2 wks — No Data Available — Minimal — Low — Moderate — High

*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	
Cuba	Guantanamo Bay	N	5	30	0	0	0	0	0	1	1	1	6	16	38	↓

- ILI activity remained minimal in Kuwait and Qatar and low in Afghanistan.

- ILI activity increased to moderate in the United Arab Emirates.

ILI Activity (Service Members)
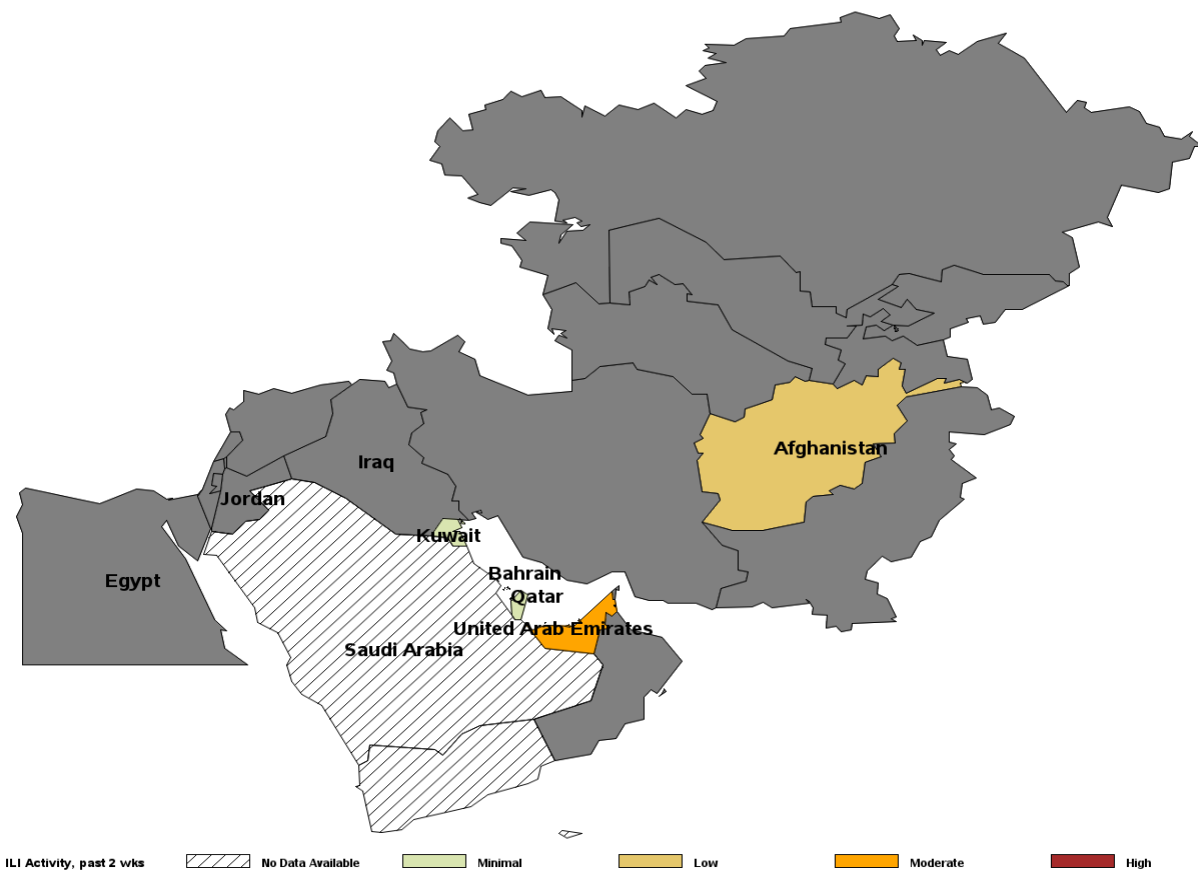
| ILI Activity, past 2 wks | No Data Available | Minimal | Low | Moderate | High |

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

NORTHCOM Laboratory-Confirmed Influenza

(2019-2020 Season: Week 49)

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	% 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	
AK	Eielson AFB	F	0	0	0	0	0	0	0	0	0	0	0	2	0	↔
AK	Ft Greely	A	0	0	0	0	0	0	0	0	0	0	0	0	0	↔
AK	Ft Wainwright	A	2	8	0	1	0	0	0	0	20	21	22	108	20	↑
AK	JB Elmendorf-Richardson	J	2	9	1	3	1	1	0	0	7	16	11	95	12	↑
AL	Ft Rucker	A	1	2	0	0	0	0	0	0	7	33	8	57	14	↔
AL	Maxwell AFB	F	2	7	1	4	0	0	0	1	2	12	5	29	17	↑
AL	Redstone Arsenal	A	0	0	0	0	0	0	0	0	3	13	3	24	13	↑
AR	Little Rock AFB	F	0	0	1	1	0	0	0	0	1	1	2	24	8	↑
AZ	Davis-Monthan AFB	F	1	1	1	1	0	0	0	0	0	4	2	23	9	↑
AZ	Ft Huachuca	A	0	0	0	0	0	0	0	0	3	3	3	15	20	↑
AZ	Luke AFB	F	1	1	0	0	0	0	0	2	6	19	7	26	27	↓
AZ	MCAS Yuma	N	0	0	0	0	0	0	0	0	0	0	0	1	0	↔
CA	Beale AFB	F	0	1	0	0	0	0	0	0	0	2	0	2	0	↔
CA	Camp Pendleton	N	7	14	1	4	1	1	0	0	27	47	36	312	12	↑
CA	Edwards AFB	F	0	0	0	0	0	0	0	0	0	0	0	1	0	↔
CA	Ft Irwin	A	0	3	0	0	0	0	0	0	14	24	14	47	30	↓
CA	Los Angeles AFB	F	0	0	0	0	0	0	0	0	0	0	0	0	0	↔
CA	MBHC Eastlake	N	0	0	0	0	0	0	0	0	0	0	0	2	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	2	0	↔
CA	NB San Diego	N	1	2	3	8	3	7	1	2	17	32	25	220	11	↓
CA	NV Ventura County	N	0	0	0	0	0	0	0	0	0	0	0	0	0	↔
CA	Twentynine Palms	N	3	14	0	0	0	0	0	0	46	67	49	156	31	↓
CA	Vandenberg AFB	F	0	0	0	0	0	0	0	0	0	0	0	2	0	↔
CO	Buckley AFB	F	1	1	0	0	0	0	0	0	1	3	2	7	29	↓
CO	Ft Carson	A	11	44	0	0	0	0	0	1	37	55	48	182	26	↓
CO	Peterson AFB	F	0	2	0	1	0	2	0	0	4	11	4	12	33	↓
CO	Schriever AFB	F	0	0	0	0	0	0	0	0	0	1	0	4	0	↔
CO	USAF Academy	F	0	0	0	0	0	1	0	0	2	2	2	8	25	↑
CT	NSB New London	N	1	2	0	0	0	0	0	0	1	6	2	11	18	↓
DC	JB Anacostia-Bolling	F	0	0	0	0	0	0	0	0	0	0	0	3	0	↔
DC	Pentagon	J	1	1	0	0	0	0	0	0	1	1	2	12	17	↓
DC	Washington Navy Yard	N	0	0	0	0	0	0	0	0	0	0	0	6	0	↔
DE	Dover AFB	F	0	1	0	1	0	0	0	0	2	6	2	12	17	↑
FL	Eglin AFB	J	5	13	2	3	0	1	0	0	3	8	10	97	10	↑
FL	Hurlburt Field	F	0	1	0	0	0	0	0	0	1	3	1	7	14	↑
FL	Macdill AFB	F	0	8	0	0	0	1	0	0	9	57	9	60	15	↓
FL	NAS Jacksonville	J	13	29	0	0	0	0	0	0	25	88	38	148	26	↑
FL	NAS Key West	J	0	7	0	0	0	0	0	0	0	0	0	3	0	↔
FL	NAS Pensacola	N	2	11	0	0	0	0	1	1	24	122	27	206	13	↓
FL	NAS Whiting Field	N	0	0	0	0	0	0	0	0	0	5	0	12	0	↔
FL	NS Mayport	J	2	6	0	0	0	0	0	0	4	11	6	13	46	↓
FL	Patrick AFB	F	3	10	0	0	0	0	0	1	6	18	9	62	15	↓
FL	Tyndall AFB	F	1	2	0	0	0	0	0	0	0	1	1	6	17	↑
GA	Ft Benning	A	5	11	0	0	0	0	2	4	21	43	28	267	10	↑
GA	Ft Gordon	A	3	6	0	0	0	0	0	4	18	38	21	158	13	↔
GA	Ft Stewart	A	0	4	0	0	0	0	0	1	13	20	13	108	12	↑
GA	Hunter Army Airfield	A	3	3	0	0	0	0	0	0	1	5	4	14	29	↑
GA	Moody AFB	F	0	1	0	1	0	0	0	0	1	2	1	24	4	↓
GA	NAS Albany	J	0	0	0	0	0	0	0	0	1	5	1	2	50	↑
GA	NSB Kings Bay	J	3	3	0	0	0	0	0	0	0	1	3	19	16	↓
GA	Robins AFB	F	0	0	0	2	0	0	0	0	0	0	0	2	0	↔

NORTHCOM Laboratory-Confirmed Influenza

(2019-2020 Season: Week 49)

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
			2 wks	Season	2 wks	Season	2 wks	Season	2 wks	Season	2 wks	Season	2 wks	2 wks	2 wks	last report
IL	NS Great Lakes	N	4	8	0	1	0	0	1	1	12	201	17	159	11	↓
IL	Scott AFB	F	0	1	0	1	0	0	0	1	0	2	0	18	0	↔
KS	Ft Leavenworth	A	9	12	0	0	0	0	0	0	7	9	16	66	24	↓
KS	Ft Riley	A	4	8	0	0	0	0	0	0	7	10	11	116	9	↑
KS	Mcconnell AFB	F	0	0	0	0	0	0	0	0	0	0	0	5	0	↔
KY	Ft Campbell	A	7	17	0	0	0	0	0	0	12	22	19	213	9	↓
KY	Ft Knox	A	1	2	0	0	0	0	0	0	1	2	2	9	22	↑
LA	Barksdale AFB	F	1	2	0	0	0	0	0	0	1	2	2	16	13	↓
LA	Ft Polk	A	1	4	0	0	0	0	0	0	10	20	11	86	13	↓
LA	NAS Belle Chase	N	0	0	0	0	0	0	0	0	1	1	1	6	17	↑
MA	Hanscom AFB	F	0	0	0	0	0	0	0	0	0	0	0	3	0	↔
MD	Aberdeen Proving Ground	A	0	3	0	0	0	0	0	0	1	4	1	6	17	↑
MD	Ft Detrick	A	1	1	0	0	0	0	0	0	3	6	4	19	21	↓
MD	Ft Meade	A	0	0	0	0	0	0	0	0	1	2	1	11	9	↑
MD	JB Andrews	F	0	4	0	0	0	1	0	0	11	16	11	92	12	↑
MD	NAS Patuxent River	N	0	1	0	0	0	0	0	0	0	1	0	12	0	↔
MD	NBHC Bancroft Hall	N	2	19	0	0	0	0	0	0	2	4	4	19	21	↑
MD	NHC Annapolis	N	1	7	0	0	0	0	0	0	0	0	1	6	17	↓
MD	NSF Indian Head	N	0	0	0	0	0	0	0	0	0	0	0	3	0	↔
MD	WRNMMC	J	3	7	0	0	0	0	0	1	16	21	19	194	10	↑
MO	Ft Leonard Wood	A	1	6	0	0	1	1	0	0	0	6	2	72	3	↓
MO	Whiteman AFB	F	0	1	0	0	0	0	0	0	1	1	1	8	13	↑
MS	Columbus AFB	F	0	0	0	0	0	0	0	0	2	2	2	4	50	↑
MS	Keesler AFB	J	1	3	0	2	0	0	0	0	20	78	21	175	12	↓
MS	NAS Meridian	N	1	1	0	0	0	0	0	0	0	2	1	5	20	↑
MS	NBHC Gulfport	N	0	2	0	0	0	0	0	0	2	16	2	7	29	↓
MT	Malmstrom AFB	F	0	1	0	0	0	0	0	0	0	2	0	3	0	↔
NC	Camp Lejeune	N	16	100	0	0	0	0	1	1	19	31	36	171	21	↑
NC	Ft Bragg	J	0	0	0	0	0	0	0	0	0	0	0	210	0	↔
NC	MCAS Cherry Point	N	0	3	0	0	0	0	0	0	4	4	4	22	18	↓
NC	Pope Army Airfield	J	0	0	0	0	0	0	0	0	0	0	0	20	0	↔
NC	Seymour Johnson AFB	J	0	1	0	0	0	1	0	0	0	0	0	8	0	↔
ND	Grand Forks AFB	F	0	0	0	0	0	0	0	0	0	0	0	2	0	↔
ND	Minot AFB	F	0	0	0	0	0	0	0	0	0	0	0	5	0	↔
NE	Offutt AFB	F	0	0	0	0	0	0	0	0	0	0	0	3	0	↔
NH	Portsmouth	N	0	0	0	0	0	0	0	0	0	1	0	0	0	↔
NJ	JB McGuire-Dix-Lakehurst	F	0	1	0	0	0	0	0	0	0	0	0	16	0	↔
NM	Cannon AFB	F	0	0	0	0	0	0	0	0	0	0	0	2	0	↔
NM	Holloman AFB	F	0	1	0	0	0	0	0	1	0	0	0	8	0	↔
NM	Kirtland AFB	F	0	0	0	0	0	2	0	0	1	1	1	10	10	↑
NM	White Sands Missile Range	A	0	0	0	0	0	0	0	0	0	2	0	1	0	↔
NV	Nellis AFB	F	3	17	1	4	0	4	0	0	42	228	46	149	31	↓
NY	Ft Drum	A	0	3	0	0	0	5	0	0	0	0	0	13	0	↔
NY	West Point	A	1	6	1	1	0	4	0	0	0	3	2	22	9	↓

12/11/2019

NORTHCOM Laboratory-Confirmed Influenza

(2019-2020 Season: Week 49)

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

State	Location	Service	A (not subtyped)		A (H1N1)		A (H3N2)		A & B		B		Total	Total	% 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	5	3	6	0	1	0	0	4	7	9	113	8	↓
OK	Altus AFB	F	0	0	0	0	0	0	0	0	0	2	0	6	0	↔
OK	Ft Sill	A	1	1	0	0	0	0	0	0	4	12	5	72	7	↑
OK	Tinker AFB	F	0	0	0	0	0	0	0	0	1	1	1	36	3	↑
OK	Vance AFB	F	1	1	0	0	0	0	0	1	0	0	1	6	17	↑
PA	Carlisle Barracks	A	0	0	0	0	0	0	0	0	0	2	0	4	0	↔
PR	Ft Buchanan	A	0	0	0	0	0	0	0	0	1	4	1	14	7	↑
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	7	11	0	0	0	0	0	0	25	36	32	137	23	↓
SC	JB Charleston	J	1	13	0	0	0	0	0	0	3	13	4	64	6	↑
SC	MCAS Beaufort	N	1	2	0	0	0	1	0	0	2	2	3	18	17	↑
SC	Parris Island	N	0	4	0	0	0	0	0	0	0	8	0	46	0	↔
SC	Shaw AFB	F	2	2	0	0	0	0	0	0	0	2	2	29	7	↑
SD	Ellsworth AFB	F	0	0	0	0	0	0	0	0	0	0	0	16	0	↔
TN	Ft Campbell	A	5	7	0	2	0	1	0	0	9	21	14	56	25	↓
TN	NSA Mid-South	N	0	0	0	0	0	0	0	0	0	0	0	6	0	↔
TX	Dyess AFB	F	1	3	0	0	0	0	1	2	3	3	5	22	23	↑
TX	Ft Bliss	A	6	12	0	4	0	1	0	4	24	37	30	324	9	↓
TX	Ft Hood	A	6	18	0	1	0	0	1	2	91	1029	98	563	17	↓
TX	Goodfellow AFB	F	0	0	0	0	0	0	0	0	2	3	2	13	15	↑
TX	JB San Antonio	J	58	112	6	7	0	0	0	0	84	197	148	789	19	↓
TX	Laughlin AFB	F	1	1	0	0	0	0	0	0	1	1	2	10	20	↓
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	20	0	↔
UT	Hill AFB	F	0	0	0	0	0	0	0	0	0	1	0	6	0	↔
VA	Ft Belvoir	J	7	13	0	0	0	0	0	0	32	47	39	233	17	↓
VA	Ft Lee	A	2	8	0	0	0	0	1	2	9	15	12	39	31	↓
VA	JB Langley-Eustis	J	2	11	1	1	0	0	0	0	4	16	7	61	11	↓
VA	JB Myer-Henderson Hall	A	1	1	0	0	0	0	0	0	3	4	4	12	33	↑
VA	MCB Quantico	N	2	2	0	0	0	0	0	0	1	2	3	67	4	↑
VA	NAS Oceana	N	0	0	0	0	0	0	0	0	2	3	2	10	20	↔
VA	NB Dam Neck	N	0	1	0	0	0	0	0	0	0	0	0	0	0	↔
VA	NS Norfolk	N	0	1	0	0	0	0	0	0	2	5	2	12	17	↑
VA	NWS Dahlgren	N	0	0	0	0	0	0	0	0	0	0	0	1	0	↔
VA	NWS Yorktown	N	0	0	0	0	0	0	0	0	1	5	1	1	100	↑
VA	Portsmouth	N	4	7	1	2	0	4	0	0	25	49	30	109	28	↓
VA	TPC Suffolk	N	0	0	0	0	0	0	0	0	4	4	4	7	57	↑
WY	FE Warren AFB	F	0	3	0	0	0	0	0	0	0	0	0	8	0	↔

12/11/2019

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