

# DoD Consolidated Influenza Surveillance Report

Week 51 (15 December 2019— 21 December 2019)



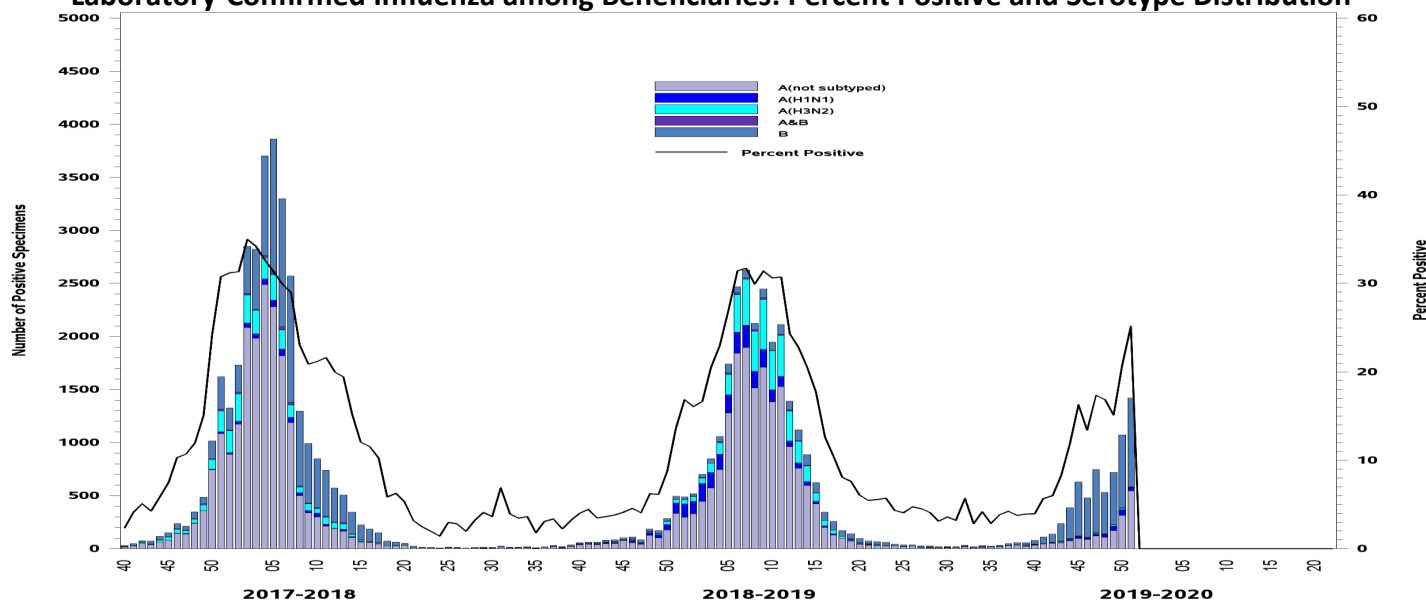
## One Page Summary: Weekly Highlights

- Laboratory-confirmed influenza cases and dispensed antiviral prescriptions among all beneficiaries continued to increase.
- Among active component Service Members laboratory-confirmed influenza cases increased to elevated levels and Influenza-like illness (ILI) activity remained moderate.
- Keesler AFB had high ILI activity during week 51.
- The majority of laboratory-confirmed influenza cases continued to be type B in NORTHCOM and type A in all other combatant commands with data.
- Four new laboratory-confirmed influenza hospitalization was reported for week 50 (Season total: 33).

## Influenza Surveillance Indicators (2019-2020 season)

All Beneficiaries	Total Per Week		Trend	Activity Level
Laboratory Cases	1425		▲	Normal
Dispensed Antivirals	1989		▲	Normal
Severity				Activity Level
Inpatient Laboratory Cases	4		◀▶	Low
Inpatient Dispensed Antivirals	25		▲	Low
Active Component				Activity Level
Laboratory Cases	258		▲	Elevated
Dispensed Antivirals	329		▲	Low
ILI Outpatient Visits	3%		◀▶	Moderate

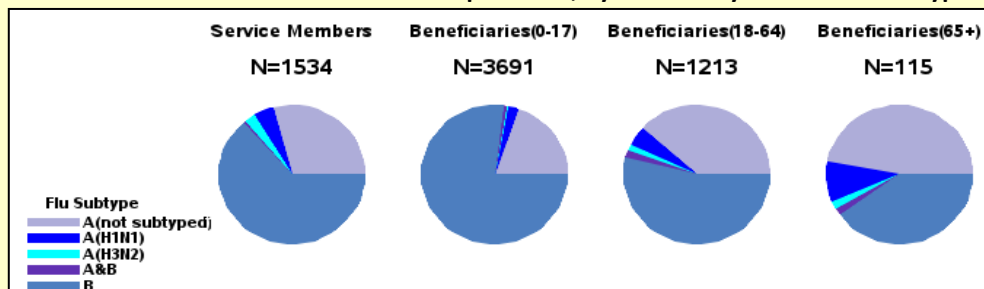
## Laboratory-Confirmed Influenza among Beneficiaries: Percent Positive and Serotype Distribution



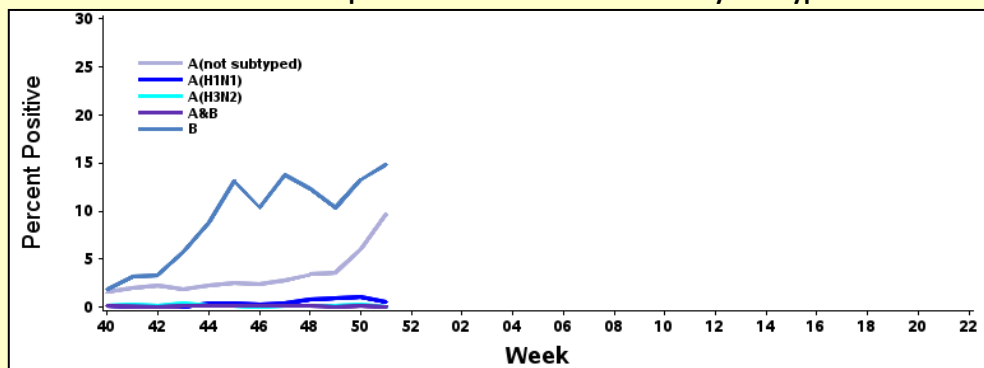
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# Laboratory-Confirmed Influenza (2019-2020 Season: Week 51)

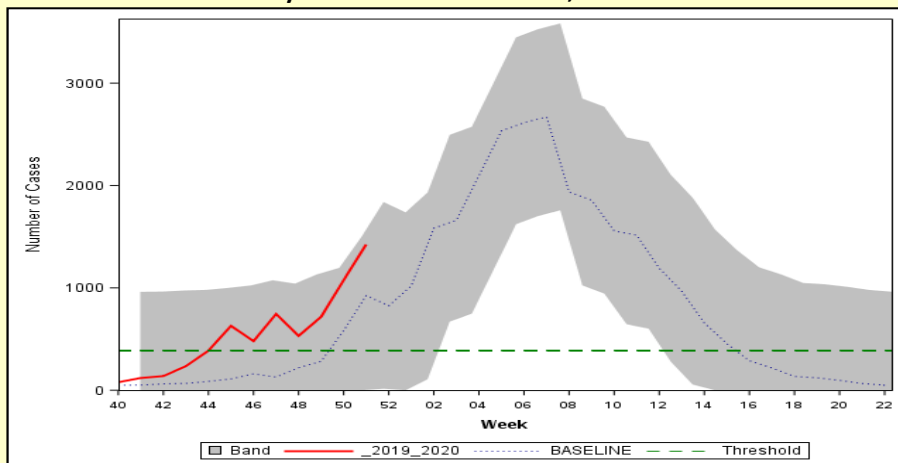
Number and Distribution of Positive Specimens, by Beneficiary Status and Serotype



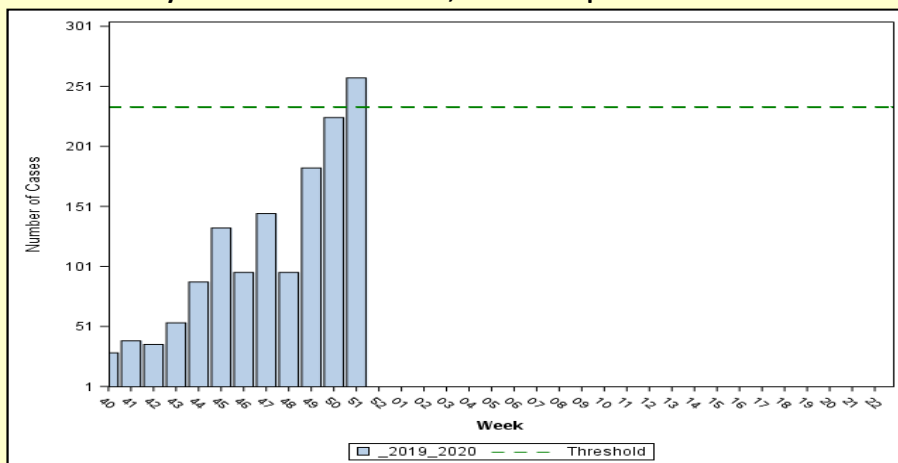
Percent of Specimens Positive for Influenza by Serotype



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 3,691; Service Members had the second highest count at 1,534.

- Overall, the majority of laboratory-confirmed influenza positive specimens continued to be type B, however, the percent of specimens positive for influenza A (not subtyped) continued to increase.

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

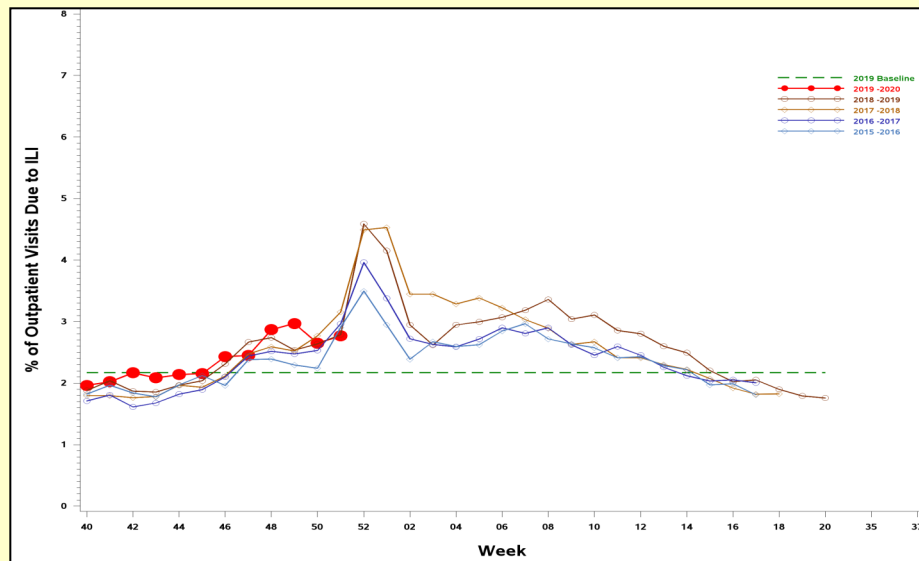
- The number of active component Service Member laboratory-confirmed cases continued to increase and went above the threshold this week.
- Threshold indicates two standard deviations above seasonal baseline estimates.

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# ILI and Dispensed Antiviral Prescriptions (2019-2020 Season: Week 51)

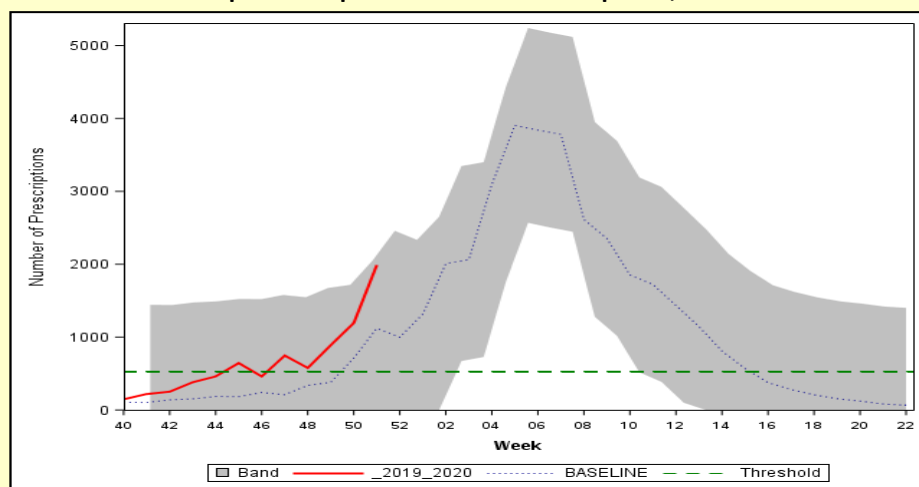
- The percent of outpatient visits due to ILI among Service Members increased and remained above baseline, but similar to previous seasons.

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



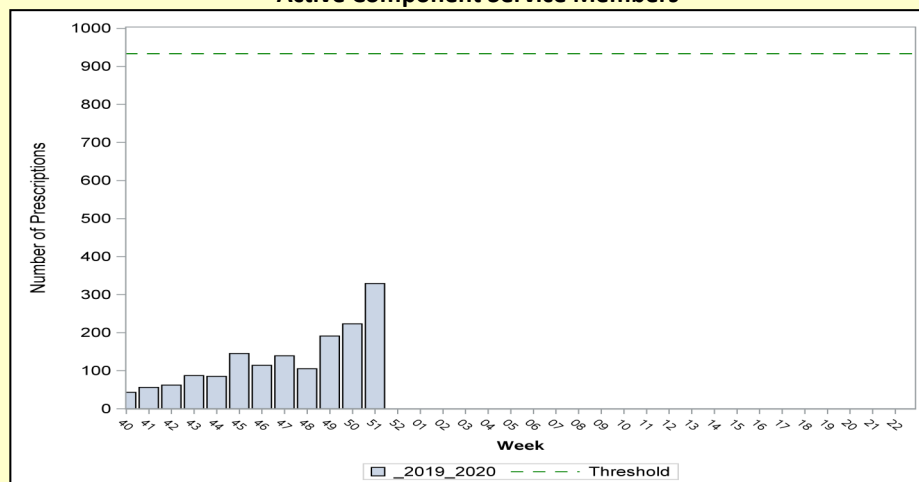
- Dispensed antiviral prescriptions among all beneficiaries continued to increase and remained above threshold and baseline, but just within the band.
- Band indicates one standard deviation above and below seasonal baseline estimates. Threshold indicates two standard deviations above off-season average.

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



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

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

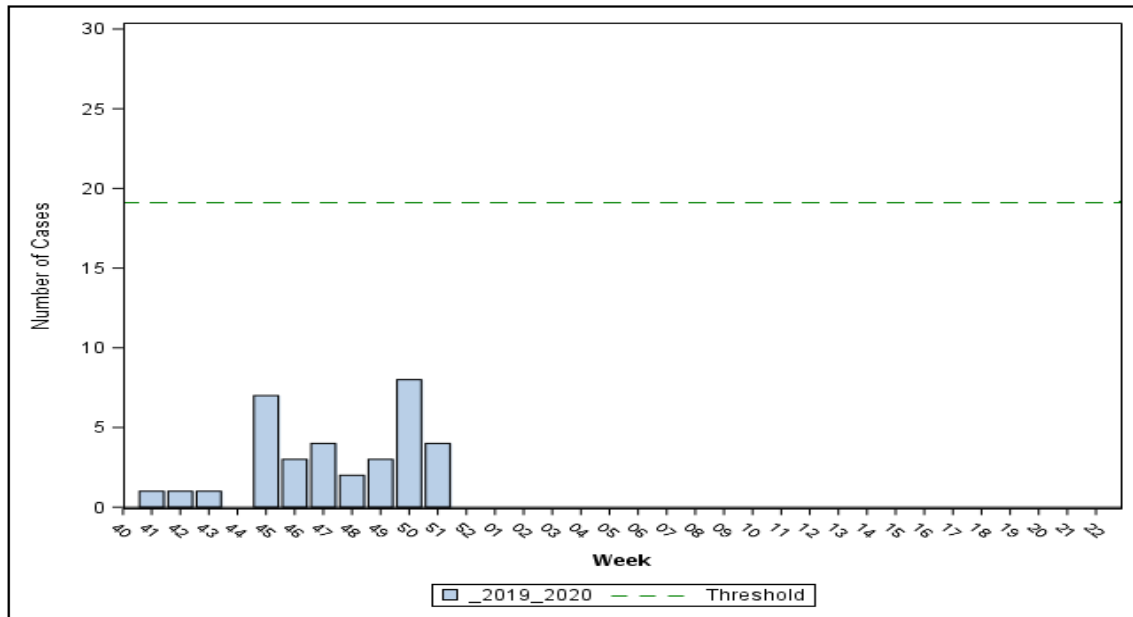


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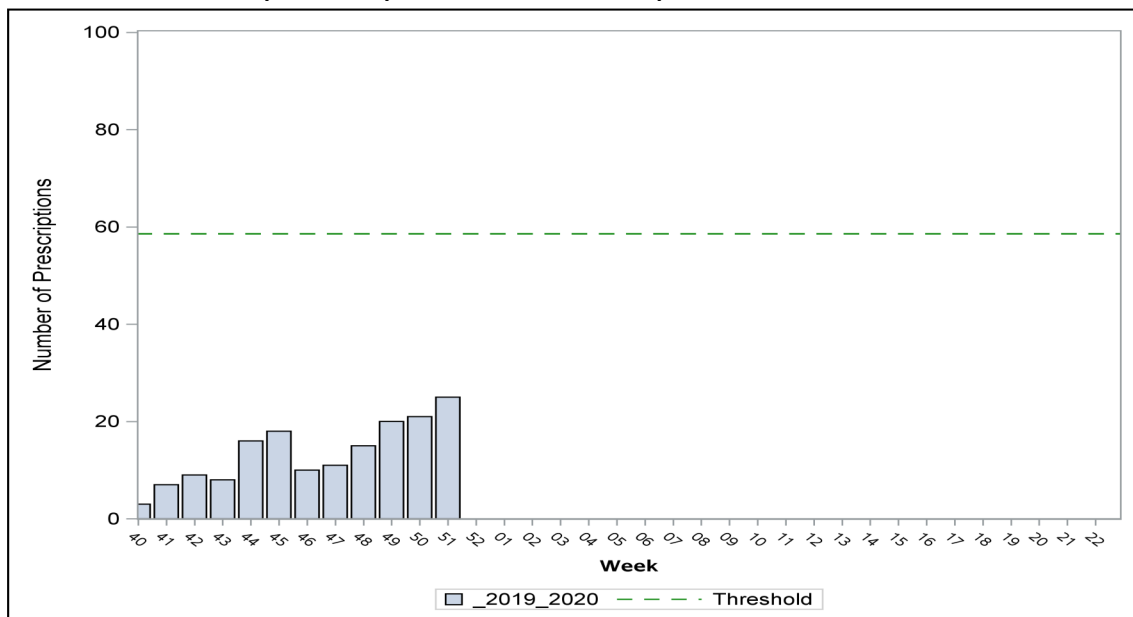
# Severity: Hospitalized Influenza Metrics (2019-2020 Season: Week 51)

- Four new laboratory-confirmed influenza hospitalizations were reported for week 51; all among other beneficiaries (BN)
  - One influenza A (not subtyped) hospitalized case at Keesler AFB
  - Three influenza A (H1N1) hospitalized cases at Ft Hood, Nellis AFB, and Ft Shafter
- ♦ There have been 33 laboratory-confirmed influenza hospitalizations this season (5 Service Members / 28 BN)
- The number of inpatient dispensed antiviral prescriptions increased.
- 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**



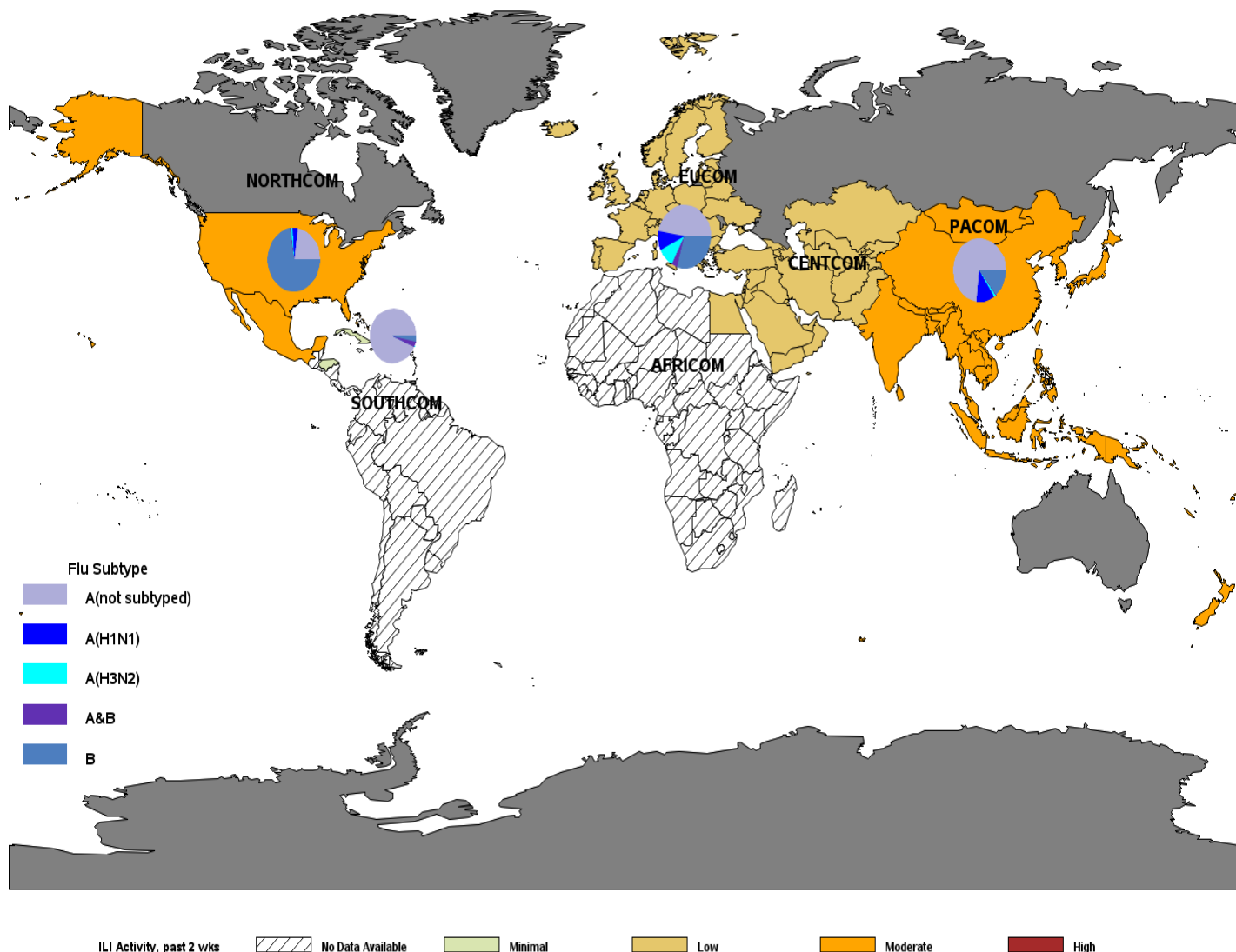
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# Influenza Activity: Geographic Combatant Command

(2019-2020 Season: Week 51)

- NORTHCOM: ILI activity remained moderate. The majority of positive specimens continued to be influenza B, but influenza A continued to increase.
- EUCOM: ILI activity remained low. Among positive specimens, the majority were influenza A.
- INDOPACOM: ILI activity remained moderate. 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 overall, however Afghanistan continued to have high activity.

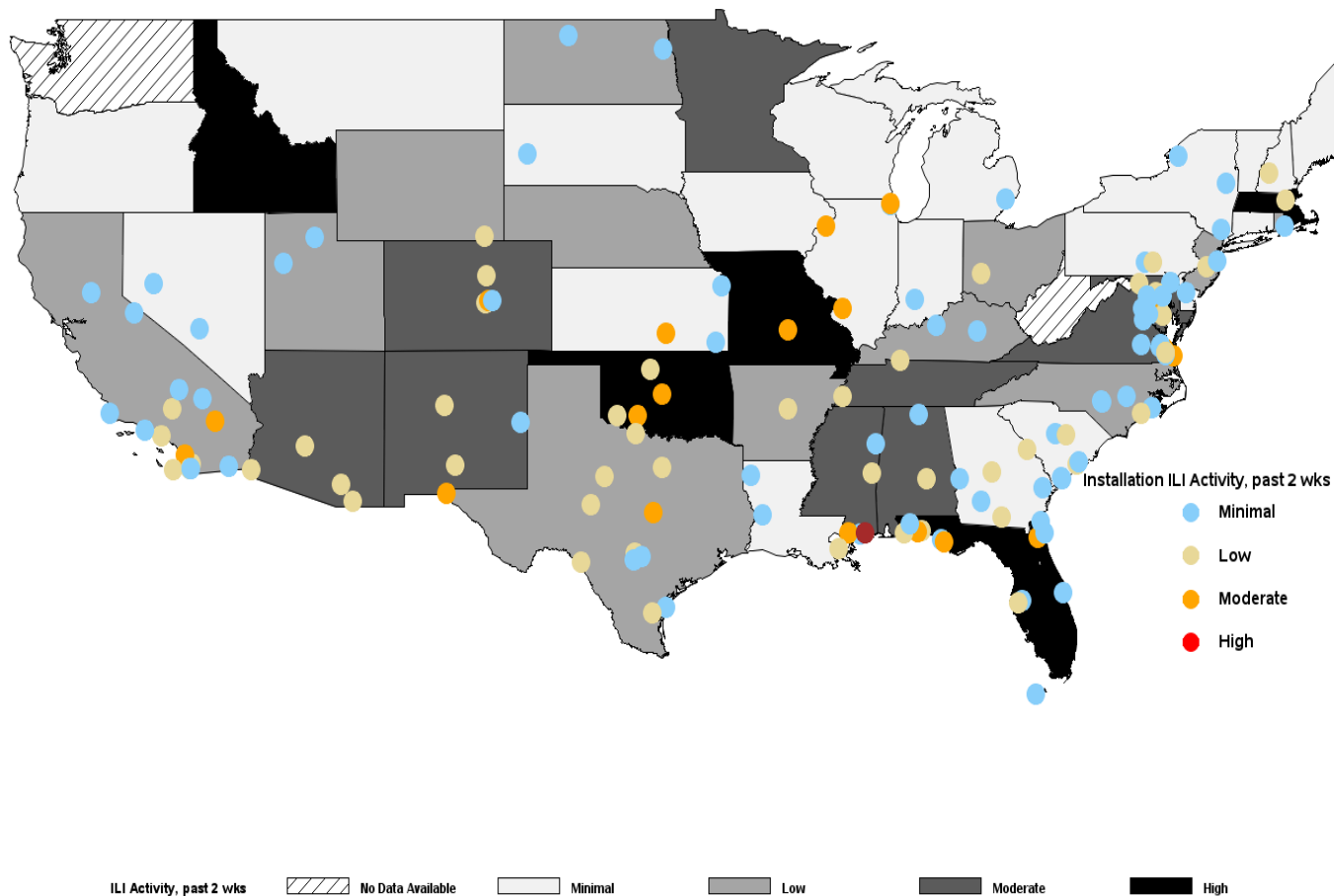
## ILI Activity (Service Members) and Laboratory-Confirmed Influenza (All Beneficiaries)



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

# Influenza Activity: NORTHCOM (2019-2020 Season: Week 51)

- The majority of installations continued to have minimal or low ILI activity. However, 23 installations had moderate activity.
- Keesler AFB had high activity.
- At the state level, the majority of states continued to have low and moderate activity. However, Idaho, Oklahoma, Missouri, Florida, and Massachusetts all continued to have high ILI 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.

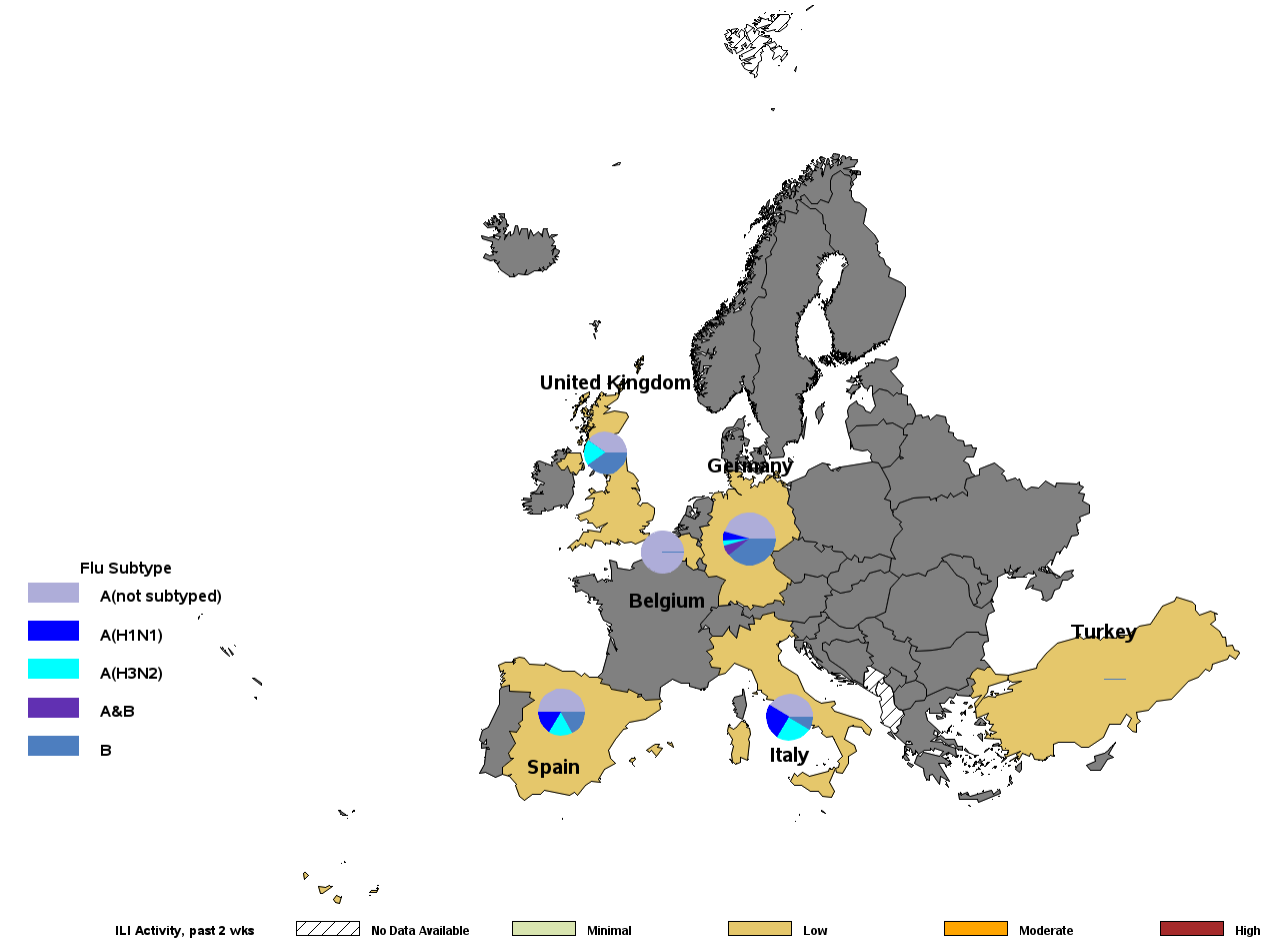


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# Influenza Activity: EUCOM (2019-2020 Season: Week 51)

- ILI activity was low in all EUCOM countries with data.
- The majority of positive specimens in the past 2 weeks were influenza A.

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



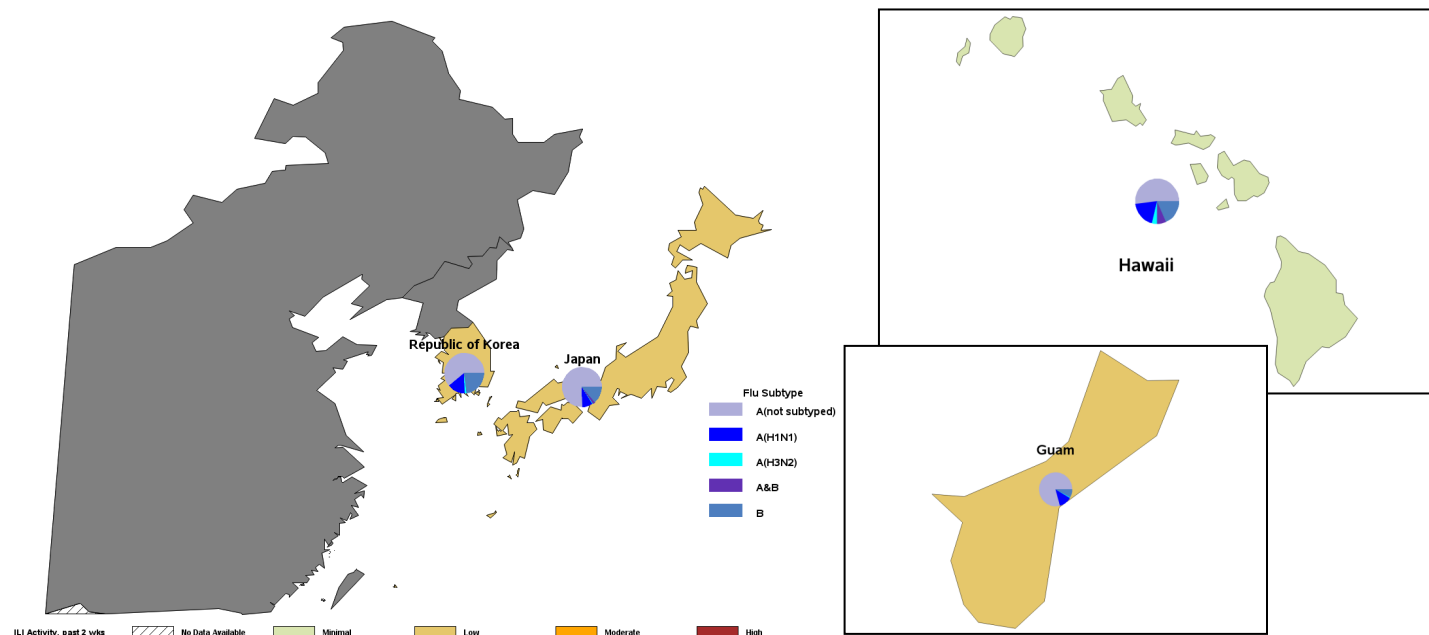
\*Locations colored in dark gray have no Service Member medical encounter data.

Country	Location	Service	A (not 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	2	2	0	0	0	0	0	0	0	0	2	2	100	↑
Germany	Barton Barracks	A	0	0	0	0	0	0	0	0	0	0	0	0	0	↔
Germany	Landstuhl RMC	A	4	7	0	1	0	1	2	2	3	5	9	48	19	↑
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	2	2	2	13	15	↓
Germany	Spangdahlem AB	F	1	1	0	0	0	0	0	0	1	1	2	4	50	↑
Germany	USAG Bavaria	A	1	1	1	1	0	0	0	0	0	1	2	14	14	↑
Germany	USAG Hohenfels/Amberg	A	0	2	0	0	0	0	0	0	0	2	0	4	0	↔
Germany	USAG Kaiserslautern	A	1	1	0	0	0	0	0	0	0	1	1	6	17	↑
Germany	USAG Katterbach	A	1	1	0	0	0	0	0	0	0	1	1	2	50	↑
Germany	USAG Wiesbaden	A	1	2	0	0	0	0	0	0	0	0	1	4	25	↓
Italy	Aviano AB	F	0	0	0	0	0	1	0	0	0	1	0	8	0	↔
Italy	NAS Sigonella	N	0	0	0	0	0	0	0	0	0	0	0	9	0	↔
Italy	NSA Naples	N	5	5	0	2	0	0	0	0	0	0	5	34	15	↓
Italy	USAG Italy	A	0	0	1	1	0	2	0	0	0	0	1	19	5	↓
Spain	NS Rota	N	2	3	1	1	0	1	0	0	0	1	3	21	14	↓
Turkey	Incirlık 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	1	0	↔
United Kingdom	RAF Lakenheath	F	2	2	0	0	0	1	0	0	1	2	3	34	9	↑

# Influenza Activity: INDOPACOM (2019-2020 Season: Week 51)

- ILI activity remained minimal in Hawaii, but was low in Japan, Guam, and the Republic of Korea.
- The majority of positive specimens over the past 2 weeks continued to be influenza A.
- Among subtyped specimens, the majority have been influenza A (H1N1) for the season.

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



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

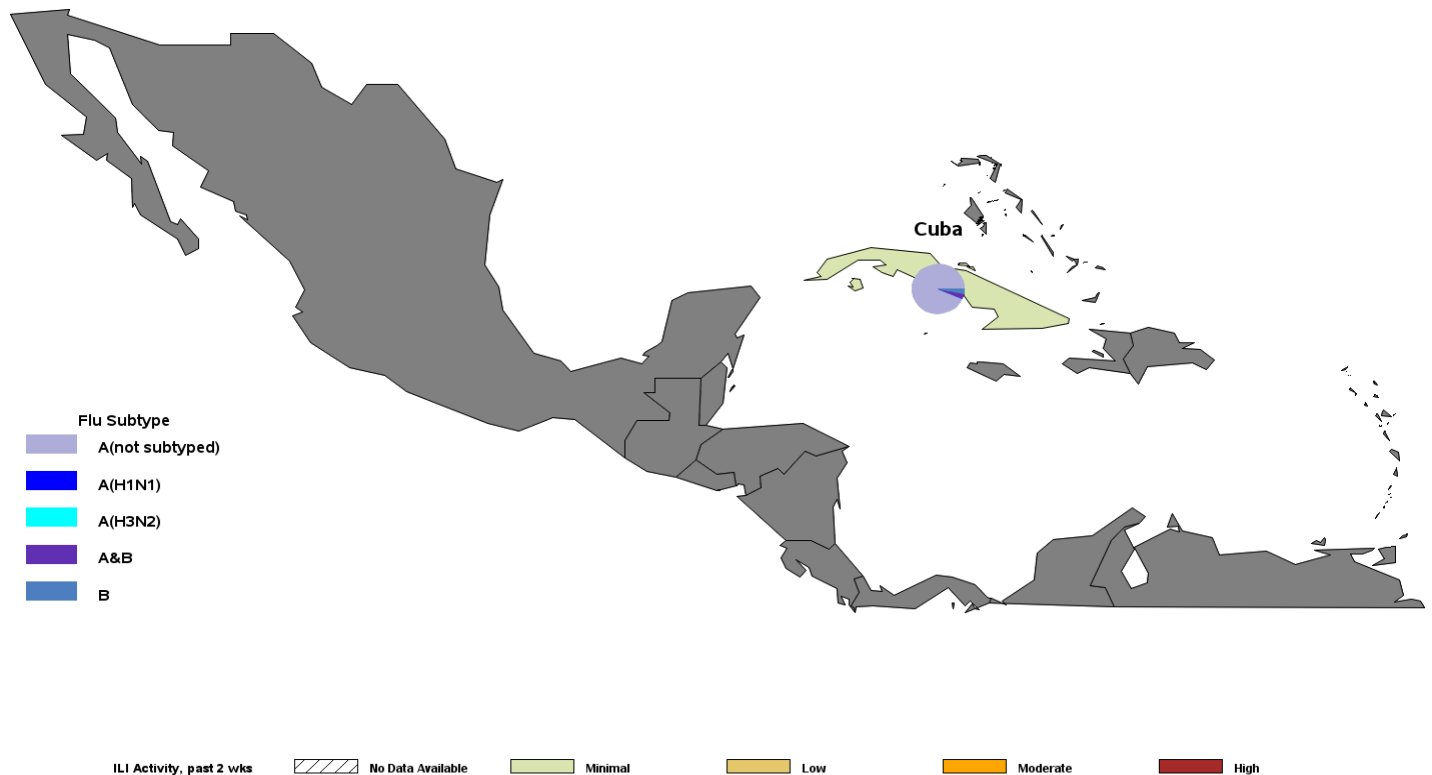
Country	Location	Service	A (not sub-typed)		A (H1N1)		A (H3N2)		A & B		B		Total positive	Total tested	% Positive	Change from last report
			2 wks	Season	2 wks	Season	2 wks	Season	2 wks	Season	2 wks	Season	2 wks	2 wks	2 wks	
Guam	JB Andersen	J	6	84	0	13	0	1	0	0	0	8	6	80	8	↓
Japan	CFA Okinawa	N	3	13	0	0	0	0	0	0	3	6	6	32	19	↓
Japan	CFA Yokosuka	N	24	30	0	0	0	0	1	2	1	1	26	56	46	↑
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	2	0	↔
Japan	Camp Zama	A	4	5	0	0	0	0	0	0	1	1	5	19	26	↓
Japan	Kadena AB	F	0	1	0	2	0	1	0	0	1	1	1	7	14	↑
Japan	MCAS Futenma	N	0	0	0	0	0	0	0	0	0	0	0	1	0	↔
Japan	MCAS Iwakuni	N	3	7	0	0	0	0	0	0	0	1	3	26	12	↓
Japan	Misawa AB	F	5	5	0	0	0	0	0	0	0	2	5	19	26	↑
Japan	NAF Atsugi	N	0	0	0	0	0	0	0	0	0	0	0	2	0	↔
Japan	NB Okinawa	N	1	16	0	0	0	0	0	0	2	3	3	35	9	↓
Japan	USFA Sasebo	N	0	0	0	0	0	0	0	0	0	0	0	2	0	↔
Japan	Yokota AB	F	12	12	1	8	0	0	0	0	0	1	13	45	29	↑
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	0	0	↔
Korea, Republic of	Camp Humphreys	A	1	4	0	0	0	0	0	0	0	0	1	22	5	↑
Korea, Republic of	Camp Walker	A	10	10	0	0	0	0	0	0	0	0	10	25	40	↑
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	14	15	4	11	1	1	0	0	2	3	21	57	37	↔
Korea, Republic of	Yongsan Garrison	A	8	16	0	0	0	0	0	0	0	14	8	56	14	↑
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	23	2	19	0	4	1	6	2	10	14	105	13	↑
United States	JB Pearl Harbor-Hickam	J	7	18	0	0	0	0	0	0	2	4	9	24	38	↓
United States	MCB Hawaii	N	1	4	0	1	0	0	0	0	0	1	1	12	8	↑
United States	Schofield Barracks	A	4	9	0	0	0	0	0	1	2	4	6	30	20	↑



# Influenza Activity: SOUTHCOM (2019-2020 Season: Week 51)

- 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)



\*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	
Cuba	Guantanamo Bay	N	0	30	0	0	0	0	0	1	0	1	0	6	0	↔

# Influenza Activity: CENTCOM (2019-2020 Season: Week 51)

- ILI activity remained high in Afghanistan.
- ILI activity remained minimal to low in other CENTCOM countries with data.

## ILI Activity (Service Members)



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

# NORTHCOM Laboratory-Confirmed Influenza

(2019-2020 Season: Week 51)

## 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	2 wks	2 wks	
AK	Eielson AFB	F	0	0	0	0	0	0	0	0	1	2	1	9	11	↑
AK	Ft Greely	A	0	0	0	0	0	0	0	0	0	0	0	0	0	↔
AK	Ft Wainwright	A	10	17	0	1	0	0	0	0	7	26	17	99	17	↑
AK	JB Elmendorf-Richardson	J	6	12	0	3	0	1	0	0	30	44	36	119	30	↑
AL	Ft Rucker	A	2	4	0	0	0	0	0	0	16	51	18	67	27	↓
AL	Maxwell AFB	F	3	7	0	4	0	0	0	1	7	18	10	32	31	↑
AL	Redstone Arsenal	A	0	0	0	0	0	0	0	0	3	13	3	22	14	↑
AR	Little Rock AFB	F	0	0	2	3	0	0	0	0	1	2	3	17	18	↓
AZ	Davis-Monthan AFB	F	0	0	0	1	0	0	0	0	3	7	3	13	23	↑
AZ	Ft Huachuca	A	1	1	0	0	0	0	0	0	2	5	3	17	18	↑
AZ	Luke AFB	F	0	1	1	1	0	0	0	2	12	30	13	31	42	↓
AZ	MCAS Yuma	N	0	0	0	0	0	0	0	0	4	4	4	12	33	↑
CA	Beale AFB	F	3	4	0	0	0	0	0	0	1	3	4	15	27	↑
CA	Camp Pendleton	N	32	46	7	11	9	11	1	1	45	91	94	282	33	↓
CA	Edwards AFB	F	0	0	0	0	0	0	0	0	0	0	0	0	0	↔
CA	Ft Irwin	A	0	3	0	0	0	0	0	0	28	53	28	89	31	↑
CA	Los Angeles AFB	F	0	0	0	0	0	0	0	0	1	1	1	3	33	↓
CA	MBHC Eastlake	N	0	0	2	2	0	0	0	0	1	1	3	8	38	↓
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	2	4	10	18	3	10	0	2	29	64	44	289	15	↑
CA	NV Ventura County	N	0	0	0	0	0	0	0	0	0	0	0	0	0	↔
CA	Twentynine Palms	N	9	23	0	0	0	0	0	0	47	118	56	198	28	↑
CA	Vandenberg AFB	F	0	0	0	0	0	0	0	0	0	0	0	5	0	↔
CO	Buckley AFB	F	2	3	0	0	0	0	0	0	3	6	5	14	36	↓
CO	Ft Carson	A	12	57	0	0	0	0	0	1	99	159	111	330	34	↑
CO	Peterson AFB	F	3	4	0	1	0	2	0	0	4	11	7	17	41	↑
CO	Schriever AFB	F	1	1	0	0	0	0	0	0	1	2	2	5	40	↑
CO	USAF Academy	F	6	6	0	0	0	1	0	0	17	19	23	42	55	↓
CT	NSB New London	N	0	2	0	0	0	0	0	0	1	7	1	18	6	↑
DC	JB Anacostia-Bolling	F	0	0	0	0	0	0	0	0	4	4	4	9	44	↑
DC	Pentagon	J	3	4	0	0	0	0	0	0	1	2	4	16	25	↓
DC	Washington Navy Yard	N	0	0	0	0	0	0	0	0	0	0	0	4	0	↔
DE	Dover AFB	F	0	0	0	1	0	0	0	0	4	9	4	17	24	↓
FL	Eglin AFB	J	12	23	0	3	0	1	0	0	13	21	25	101	25	↑
FL	Hurlburt Field	F	1	2	0	0	0	0	0	0	2	5	3	18	17	↔
FL	Macdill AFB	F	10	17	0	0	0	1	0	0	15	72	25	91	27	↑
FL	NAS Jacksonville	J	50	79	0	0	0	0	0	0	27	114	77	233	33	↔
FL	NAS Key West	J	1	8	0	0	0	0	0	0	0	0	1	2	50	↑
FL	NAS Pensacola	N	22	33	0	0	0	0	0	1	27	150	49	236	21	↑
FL	NAS Whiting Field	N	1	1	0	0	0	0	0	0	0	5	1	14	7	↑
FL	NS Mayport	J	14	20	0	0	0	0	0	0	11	22	25	54	46	↑
FL	Patrick AFB	F	3	13	0	0	0	0	0	1	8	26	11	44	25	↑
FL	Tyndall AFB	F	0	1	0	0	0	0	0	1	2	2	2	6	33	↑
GA	Ft Benning	A	58	69	0	0	0	2	1	5	55	99	114	404	28	↑
GA	Ft Gordon	A	13	19	0	0	0	0	0	2	26	64	39	188	21	↑
GA	Ft Stewart	A	8	11	0	0	0	0	1	2	29	55	38	145	26	↓
GA	Hunter Army Airfield	A	1	4	0	0	0	0	0	0	2	9	3	26	12	↑
GA	Moody AFB	F	1	1	5	7	0	0	0	0	3	5	9	32	28	↓
GA	NAS Albany	J	1	1	0	0	0	0	0	0	7	12	8	19	42	↑
GA	NSB Kings Bay	J	2	5	0	0	0	0	0	0	2	3	4	20	20	↑
GA	Robins AFB	F	0	0	7	9	0	0	0	0	1	1	8	11	73	↑

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# NORTHCOM Laboratory-Confirmed Influenza

(2019-2020 Season: Week 51)

## 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	8	16	0	1	0	0	0	1	5	205	13	154	8	↓
IL	Scott AFB	F	0	0	2	4	0	0	0	1	0	1	2	22	9	↓
KS	Ft Leavenworth	A	11	23	0	0	0	0	0	0	5	14	16	76	21	↓
KS	Ft Riley	A	3	11	0	0	0	0	0	0	15	26	18	154	12	↑
KS	McConnell AFB	F	0	0	0	0	0	0	0	0	0	0	0	12	0	↔
KY	Ft Campbell	A	24	41	0	0	0	0	0	0	36	58	60	306	20	↑
KY	Ft Knox	A	7	9	0	0	0	0	0	0	1	3	8	17	47	↑
LA	Barksdale AFB	F	2	4	0	0	0	0	0	0	0	2	2	37	5	↓
LA	Ft Polk	A	6	10	0	0	0	0	0	0	14	34	20	68	29	↑
LA	NAS Belle Chase	N	0	0	0	0	0	0	0	0	0	1	0	6	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	1	5	1	12	8	↑
MD	Ft Detrick	A	1	2	0	0	0	0	0	0	6	12	7	23	30	↑
MD	Ft Meade	A	2	2	0	0	0	0	0	0	3	5	5	21	24	↑
MD	JB Andrews	F	8	12	0	0	0	1	1	1	36	52	45	174	26	↓
MD	NAS Patuxent River	N	1	2	0	0	0	0	0	0	1	2	2	24	8	↓
MD	NBHC Bancroft Hall	N	1	20	0	0	0	0	0	0	0	5	1	7	14	↑
MD	NHC Annapolis	N	2	9	0	0	0	0	0	0	2	2	4	17	24	↑
MD	NSF Indian Head	N	0	0	0	0	0	0	0	0	2	2	2	4	50	↑
MD	WRNMMC	J	24	32	1	1	0	0	1	1	41	66	66	324	20	↑
MO	Ft Leonard Wood	A	7	12	0	0	0	1	0	0	6	13	13	101	13	↑
MO	Whiteman AFB	F	0	1	0	0	0	0	0	0	0	1	0	13	0	↔
MS	Columbus AFB	F	1	1	0	0	0	0	0	0	0	2	1	7	14	↑
MS	Keesler AFB	J	6	9	0	2	0	0	0	0	37	117	43	191	23	↓
MS	NAS Meridian	N	0	1	0	0	0	0	0	0	0	2	0	4	0	↔
MS	NBHC Gulfport	N	0	2	0	0	0	0	0	0	2	18	2	10	20	↓
MT	Malmstrom AFB	F	0	1	0	0	0	0	0	0	0	2	0	0	0	↔
NC	Camp Lejeune	N	36	137	0	1	0	0	0	0	21	52	57	228	25	↑
NC	Ft Bragg	J	1	1	0	0	0	0	0	0	0	0	1	205	0	↑
NC	MCAS Cherry Point	N	0	3	0	0	0	0	0	0	8	12	8	32	25	↓
NC	Pope Army Airfield	J	0	0	0	0	0	0	0	0	0	0	0	28	0	↔
NC	Seymour Johnson AFB	J	0	1	0	0	0	1	0	0	1	1	1	14	7	↓
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	1	1	7	11	0	0	0	0	0	1	8	16	50	↓
NH	Portsmouth	N	0	0	0	0	0	0	0	0	0	1	0	4	0	↔
NJ	JB McGuire-Dix-Lakehurst	F	1	2	0	0	0	0	0	0	2	2	3	22	14	↑
NM	Cannon AFB	F	0	0	0	0	0	0	0	0	0	0	0	0	0	↔
NM	Holloman AFB	F	0	1	0	0	0	0	0	1	5	5	5	17	29	↑
NM	Kirtland AFB	F	2	2	0	0	0	2	0	0	5	6	7	16	44	↑
NM	White Sands Missile Range	A	0	0	0	0	0	0	0	0	1	2	1	2	50	↓
NV	Nellis AFB	F	11	20	1	5	0	4	0	0	9	170	21	91	23	↑
NY	Ft Drum	A	1	2	0	0	0	5	0	0	5	8	6	26	23	↑
NY	West Point	A	2	4	2	4	0	4	0	0	6	9	10	27	37	↓

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# NORTHCOM Laboratory-Confirmed Influenza

(2019-2020 Season: Week 51)

## 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	0	0	7	13	0	1	1	1	15	22	23	101	23	↑
OK	Altus AFB	F	0	0	0	0	0	0	0	0	0	2	0	11	0	↔
OK	Ft Sill	A	8	9	0	0	0	0	0	0	16	28	24	113	21	↑
OK	Tinker AFB	F	0	0	0	0	0	0	0	0	6	7	6	33	18	↑
OK	Vance AFB	F	0	0	2	3	0	0	0	1	2	2	4	10	40	↔
PA	Carlisle Barracks	A	0	0	0	0	0	0	0	0	0	2	0	3	0	↔
PR	Ft Buchanan	A	0	0	0	0	0	0	0	0	3	7	3	15	20	↑
PR	NS Roosevelt Roads	N	0	2	0	0	0	0	0	0	0	0	0	1	0	↔
RI	NHC New England	N	0	0	0	0	0	0	0	0	0	0	0	5	0	↔
SC	Ft Jackson	A	17	28	0	0	0	0	0	0	20	58	37	164	23	↑
SC	JB Charleston	J	6	19	1	1	0	0	0	0	13	26	20	82	24	↓
SC	MCAS Beaufort	N	2	4	0	1	0	1	0	0	2	4	4	21	19	↑
SC	Parris Island	N	0	4	0	0	0	0	0	0	10	18	10	45	22	↑
SC	Shaw AFB	F	2	2	0	1	0	1	0	0	16	18	18	56	32	↑
SD	Ellsworth AFB	F	0	0	0	0	0	0	0	0	0	0	0	13	0	↔
TN	Ft Campbell	A	12	17	0	2	0	1	0	0	22	38	34	124	27	↑
TN	NSA Mid-South	N	2	2	0	0	0	0	0	0	1	1	3	11	27	↑
TX	Dyess AFB	F	0	3	0	0	0	0	2	2	5	5	2	34	6	↓
TX	Ft Bliss	A	41	42	2	9	1	5	0	1	71	101	115	582	20	↑
TX	Ft Hood	A	37	54	4	5	0	0	0	2	41	1058	82	483	17	↑
TX	Goodfellow AFB	F	0	0	0	0	0	0	0	0	5	8	5	25	20	↓
TX	JB San Antonio	J	105	207	7	19	0	1	3	5	153	336	268	964	28	↑
TX	Laughlin AFB	F	0	0	0	1	0	0	0	0	1	2	1	16	6	↑
TX	NAS Corpus Christi	N	0	1	0	0	0	0	0	0	0	1	0	1	0	↔
TX	Sheppard AFB	F	3	4	2	2	0	0	0	0	9	9	14	64	22	↓
UT	Hill AFB	F	0	0	0	0	0	0	0	0	0	1	0	5	0	↔
VA	Ft Belvoir	J	17	30	0	0	0	0	0	0	101	148	118	430	27	↑
VA	Ft Lee	A	3	9	0	0	0	0	0	2	15	28	18	94	19	↓
VA	JB Langley-Eustis	J	6	16	1	3	1	1	0	0	26	42	34	120	28	↓
VA	JB Little Creek-Ft Story	J	0	0	0	0	0	0	0	0	0	0	0	2	0	↔
VA	JB Myer-Henderson Hall	A	0	1	0	0	0	0	0	0	4	8	4	18	22	↑
VA	MCB Quantico	N	1	3	0	0	0	0	0	0	10	12	11	53	21	↑
VA	NAS Oceana	N	0	0	0	0	0	0	0	0	1	2	1	8	13	↑
VA	NB Dam Neck	N	0	0	0	0	0	0	0	0	1	1	1	4	25	↑
VA	NS Norfolk	N	0	0	0	0	0	0	0	0	1	2	1	9	11	↓
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	4	1	6	17	↑
VA	Portsmouth	N	0	2	2	7	0	4	0	0	39	77	41	120	34	↓
VA	TPC Suffolk	N	0	0	0	0	0	0	0	0	3	4	3	6	50	↑
WY	FE Warren AFB	F	1	4	0	0	0	0	0	0	1	1	2	24	8	↑

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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>