

Influenza Situation Report: 2017-2018 Season

Department of the Navy

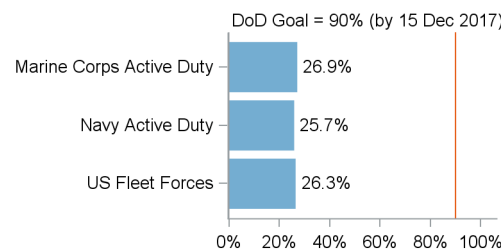


Week 41 (08 Oct - 14 Oct 2017)

Weekly Highlights:

- * Influenza activity in the DON is **normal** and within expected values. Laboratory, AV and ILI indicators are all at baseline levels.
- * Severity indicators are **normal** and within expected values, with no inpatient laboratory-positive cases and two dispensed antivirals from an inpatient setting identified during Week 41.
- * The percentage of outpatient ILI is **below** the surveillance threshold.
- * NH Jacksonville had the most laboratory-positive cases (n=5), while the largest percentage of ILI visits was at James A Lovell FHCC (5.3%).

Active Duty Vaccination Rates, 10 Oct 2017

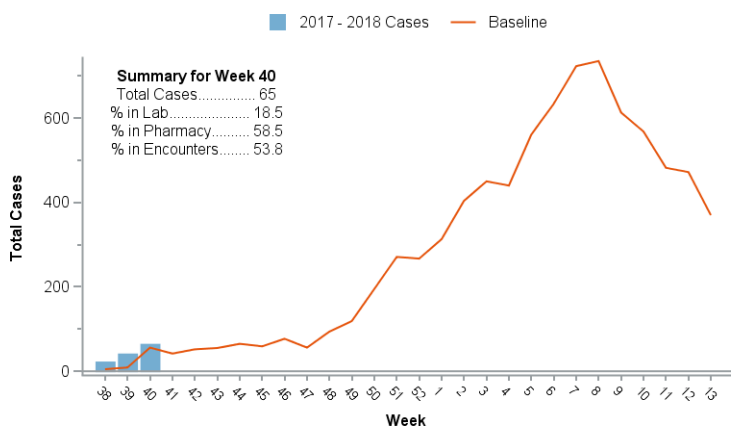


Influenza Surveillance Indicators

OVERVIEW				Trend	Baseline Comparison
Laboratory Cases	N	17		↑	Normal
Dispensed Antivirals	N	22		↓	Normal
ILI Outpatient Visits	%	3.1		↔	Below (Threshold)
SEVERITY				Trend	Baseline Comparison
Inpatient Laboratory Cases	N	0		↔	Normal
Inpatient Dispensed Antivirals	N	2		↓	Normal
ACTIVE DUTY AND RECRUITS				Trend	Baseline Comparison
Active Duty Laboratory Cases	N	3		↓	NA
Active Duty Dispensed Antivirals	N	3		↓	NA
Recruit Laboratory Cases	N	0		↔	NA
Recruit Dispensed Antivirals	N	0		↓	NA

Overall Burden (Data Lagged, Week 40)

DON Total Influenza Cases from Laboratory, Pharmacy and Encounter Data



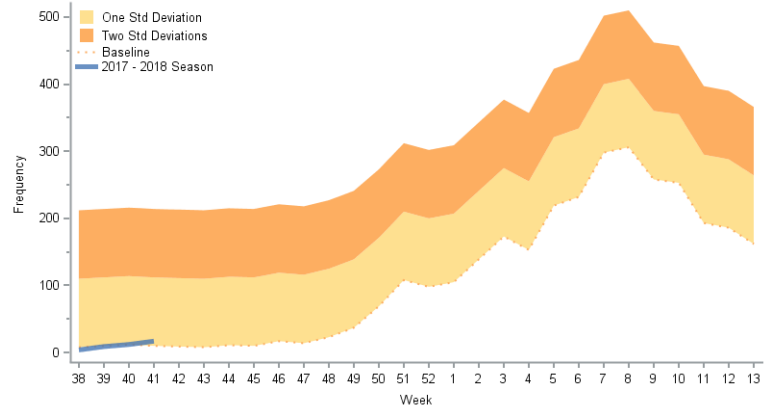
Supporting Surveillance

- * **DOD Global Laboratory-based Influenza Surveillance (USAFSAM).**
Week 40 highlights:
 - * Overall number of specimens that tested positive for influenza is low.
 - * One positive influenza specimen: influenza A(H1N1).
 - * Access the full report [here](#).
- * **Operational Infectious Diseases (OID) Weekly Surveillance Report (NHRC).**
12OCT2017 report highlights:
 - * Elevated FRI rates at MCRD San Diego due to influenza A/H3
 - * All cases among unvaccinated recruits.
 - * Access the most recent OID report [here](#).

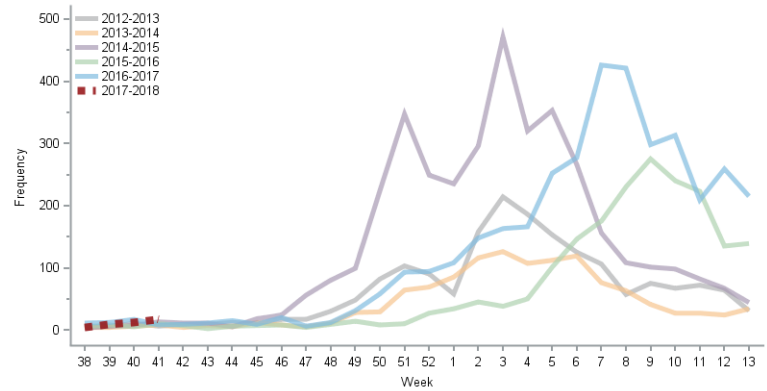
Laboratory Surveillance

- * **Burden:** Laboratory cases (n=17) are at baseline levels. For the third week in a row the number of cases increased slightly over the prior week.
- * **Specimens:** Overall percent positivity is 5.6%, with 52.9% of cases identified as influenza Type B.
- * **Severity :** No inpatient laboratory-positive cases were reported.
- * **Age:** Children aged 5-17 years had the highest rate of laboratory-positive influenza cases. One case was identified among children aged 0-4 years, those 5-17 years had six cases.
- * **Location:** NH Jacksonville had five cases, NH Camp Pendleton had two cases, NH Pensacola had two cases, and eight other facilities had one case each.

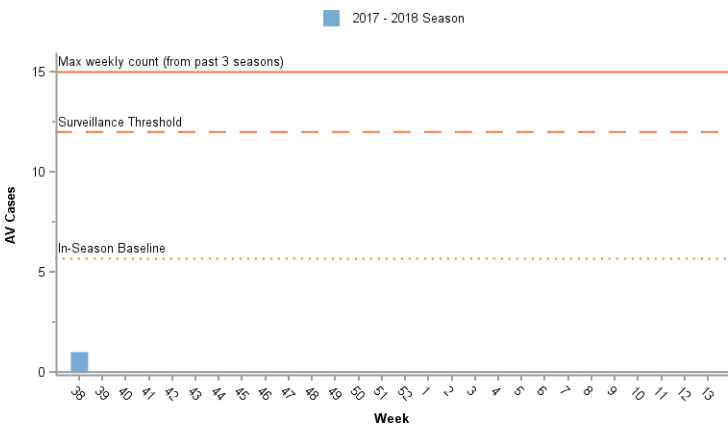
DON Laboratory-Positive Influenza Cases and Seasonal Baseline, 2017-2018 Season



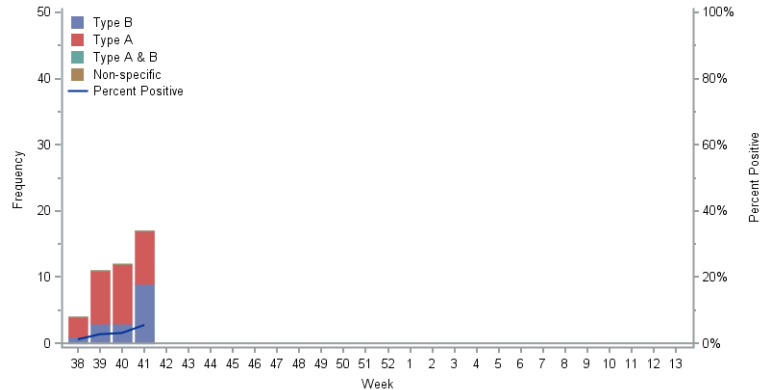
DON Laboratory-Positive, Seasonal Comparison, 2013-2017



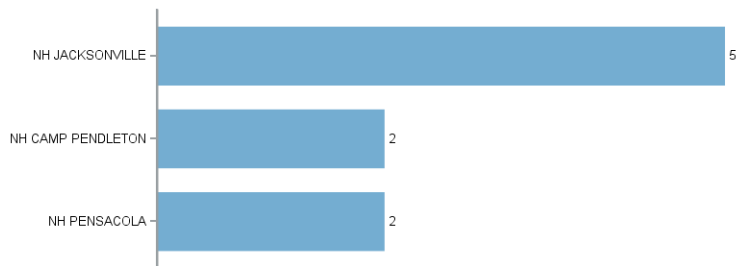
DON Inpatient Laboratory Cases (Severity)



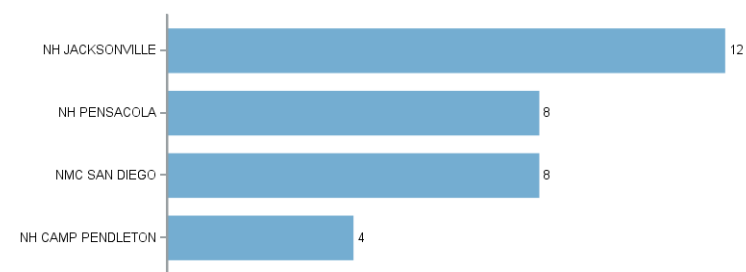
DON Laboratory-Positive Influenza Specimens, by Type



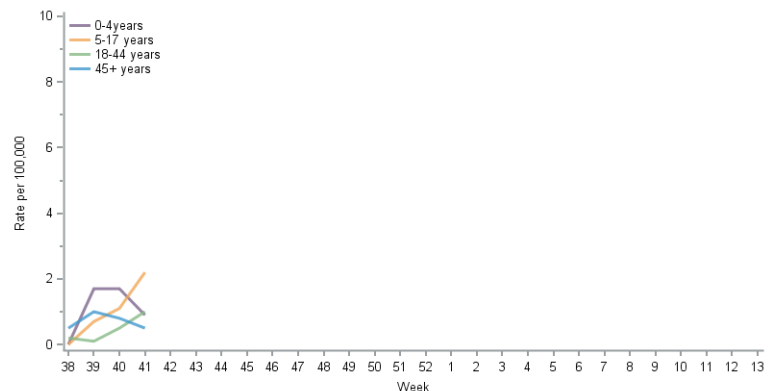
Top MTFs , Laboratory-Positive Cases, Week 41



Top MTFs , Laboratory-Positive Cases, 2017-2018 Season



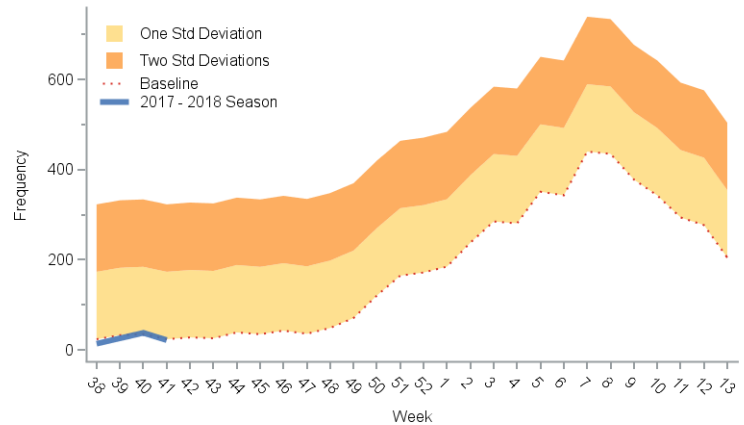
DON Laboratory-Positive Case Rates by Age Group



Antiviral Surveillance

- * **Burden:** Dispensed AVs (n=22) are decreasing from the prior week and at baseline levels.
- * **Severity:** Two inpatient AVs were dispensed this week among retirees.
- * **Types:** 95.5% of influenza AVs dispensed were Oseltamivir.
- * **Location:** NH Pensacola (n=16), NH Jacksonville (n=15), NMC San Diego (n=15), AMC Tripler-Shafter (n=7), and Walter Reed National Military Medical Center (n=7) have the highest number of dispensed AVs so far this season.

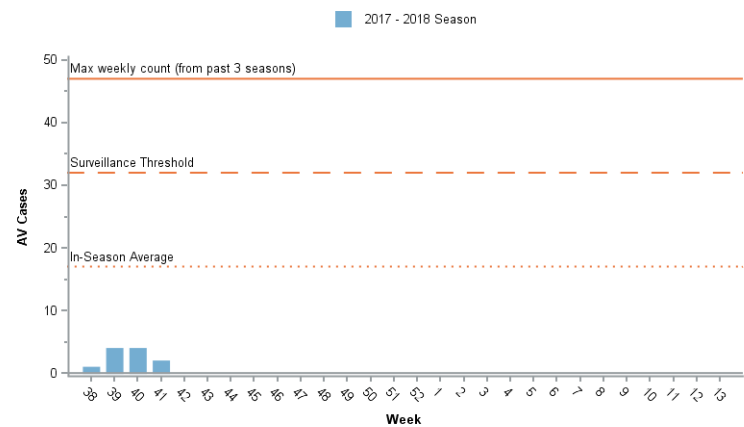
DON Influenza Specific Antiviral Prescriptions and Seasonal Baseline, 2017-2018 Season



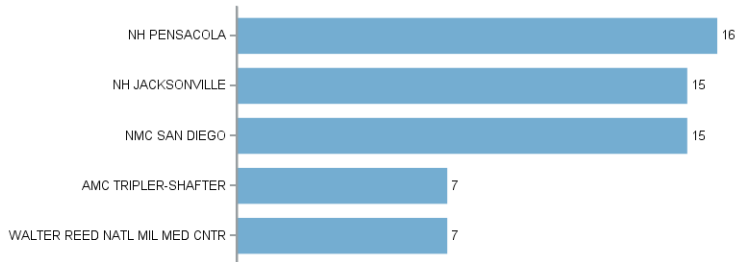
Antiviral Medications Dispensed to DON Beneficiaries, n (%)

	Oseltamivir	Amantadine	Total
Week 39	25 (96.2%)	1 (3.8%)	26
Week 40	35 (92.1%)	3 (7.9%)	38
Week 41	21 (95.5%)	1 (4.5%)	22
Season	107 (95.5%)	5 (4.5%)	112

DON Inpatient Dispensed Antivirals (Severity)



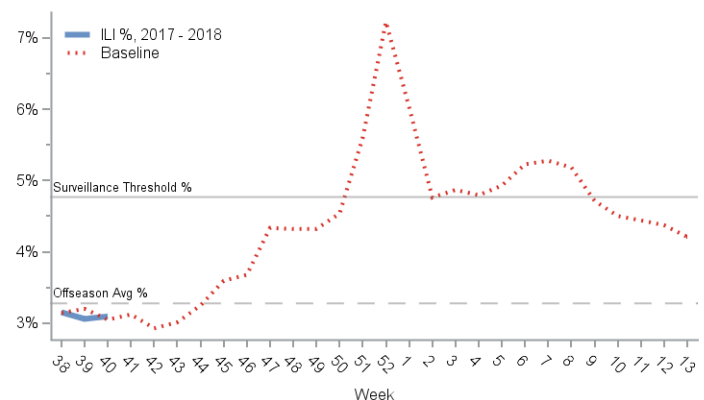
Top MTFs, Dispensed Antivirals, Season



Influenza-Like Illness (Data Lagged, Week 40)

- * **All outpatient:** The percentage of outpatient medical encounters due to ILI was the same from the week prior at 3.1%. The ILI % is comparable to the seasonal baseline and below the surveillance threshold.
- * **Location:** ILI activity was the highest at James A Lovell FHCC (5.3%), followed by NMC San Diego (4.2%), NH Corpus Christi (4.2%) and NH Beaufort (4.2%).

Outpatient Medical Encounters due to ILI, Week 40



*Data lagged by one week.

Top DON MTFs , Percentage of Outpatient ILI, Week 40



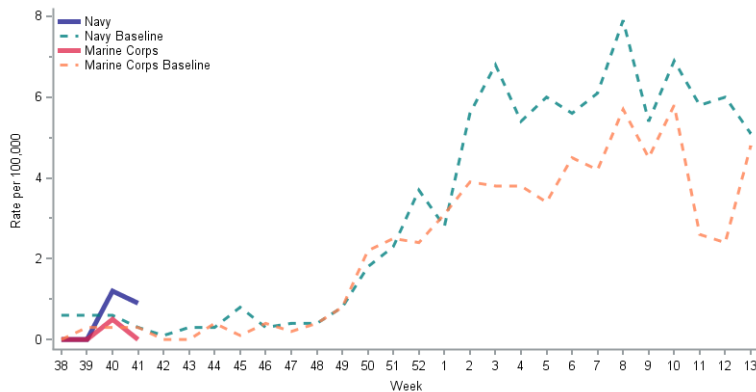
*Data lagged by one week.

Active Duty and Recruits

- * **AD Laboratory cases:** Three laboratory-positive cases among Sailors.
- * **AD Dispensed Antivirals:** Two AVs dispensed among Sailors and one AV dispensed to a Marine.
- * **Recruits:** No laboratory-positive cases; no dispensed AVs.
- * **Location:** Laboratory-positive cases for AD Sailors at NH Camp Pendleton, NH Sigonella, and NHC Charleston (one each). AVs dispensed at NH Naples, NH Sigonella, and NHC Cherry Point (one each).
- * **Vaccination Status:** No vaccination records among the three laboratory-positive AD cases.

Data Sources: HL7-formatted CHCS chemistry, microbiology and pharmacy databases, MRRS and ITS.

Laboratory-Positive Cases Among Active Duty Service Members, 2017-2018



Summary of Active Duty and Recruit Cases

	Laboratory		Dispensed AVs	
	Week 41	Season	Week 41	Season
Total Cases	3	9	3	28
Navy AD	3	7	2	19
Marine Corps AD	0	1	1	7
Navy Recruit	0	0	0	0
Marine Corps Recruit	0	1	0	2

In the News

- * This week a study was published in *Influenza and Other Respiratory Viruses* analyzing flu trends in the Veterans Affairs (VA) hospital systems from the 2011-2016. [Details](#)
- * OPNAV guidance on 2017-2018 Navy influenza vaccination and reporting policy has been released (NAVADMIN 241/17). [Details](#)

Medical Event Reports (MER)

MERs for Influenza-Associated Hospitalizations

	MER	Match to Surveillance Data	
	N	N	%
Week 41	0	-	-
Season	6	1	16.7%

*Indicates MERs that matched to cases from laboratory or pharmacy surveillance data. Datasource: DRSi

Bacterial Coinfections

- * **Summary:** 8.2% laboratory-positive influenza cases had a bacterial coinfection identified this season.
- * **Upper-respiratory:** Four upper respiratory infections have been identified, all *Streptococcus*.
- * **Lower-respiratory:** No lower respiratory infections have been identified.

Data Sources: HL7-formatted CHCS chemistry and microbiology databases

Bacterial Coinfections as a Percent of Laboratory Cases

	Coinfections			Lab Cases w/ Coinfection
	Upper (N)	Lower (N)	Total Resp (N)	%
Current Season	4	0	4	8.2%
Baseline	0	1	1	0.7%

Methods and Data Sources

The Influenza SITREP methods can be found [here](#).

- * HL7 formatted CHCS data from microbiology and chemistry data are available from 2004 to present. HL7 formatted CHCS data from pharmacy databases are available from 2006 to present.
- * Data from NH Oak Harbor, NH Bremerton or Fairchild not captured due to transition to MHS GENESIS.
- * Laboratory-positive and AV baselines are calculated as a weighted average of the 2014-2015, 2015-2016 and 2016-2017 seasons.
- * ILI threshold is calculated based on the off-season percentage outpatient visits for the past three seasons 2014-2015, 2015-2016 and 2016-2017 seasons, plus two standard deviations.
- * The "Overall Burden" and ILI figures are lagged one week due to encounter data availability.
- * All figures prepared by the EpiData Center on 18 Oct 2017.