

Influenza Situation Report: 2022 - 2023 Season

Department of the Navy

DCPH-P
Defense Centers for Public Health - Portsmouth



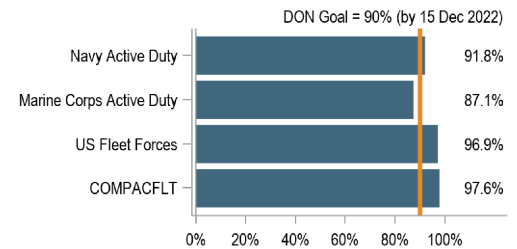
Week 31 (30 July 2023 - 5 August 2023)

Weekly Highlights

- Overall influenza activity in the DON for Week 29 is **low**.*
- Laboratory-positive cases, dispensed antivirals, and percent of outpatient visits for ILI are **low**. The trend has remained the same over the prior two weeks.
- A total of 178 influenza laboratory tests were performed during Week 31, 31.2% lower than baseline (N=259).
- Since Week 37 (12 September 2022), 1.3% of DON laboratory-positive influenza cases were identified with a COVID-19 coinfection.

*Note: Overall activity is delayed to reflect the approximate two week MHS GENESIS data lag.

Active Duty Vaccination Rates, 31 JUL 2023



Influenza Surveillance Indicators

Overview

				Trend	Activity Level
Laboratory Cases	N	1		◀▶	Low
Dispensed Antivirals	N	0		▼	Low
ILI Outpatient Visits	%	2.4		◀▶	Low

Severity

Inpatient Laboratory Cases	N	0		◀▶	Low
Inpatient Dispensed Antivirals	N	0		◀▶	Low

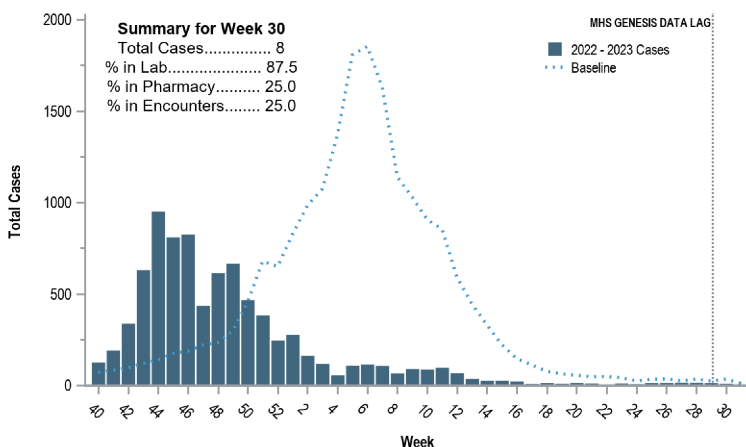
Active Duty and Recruits

Active Duty Laboratory Cases	N	1		◀▶	Low
Active Duty Dispensed Antivirals	N	0		◀▶	Low
Recruit Laboratory Cases	N	0		◀▶	Low
Recruit Dispensed Antivirals	N	0		◀▶	Low

*Note: MHS GENESIS laboratory data may be delayed by up to two weeks.

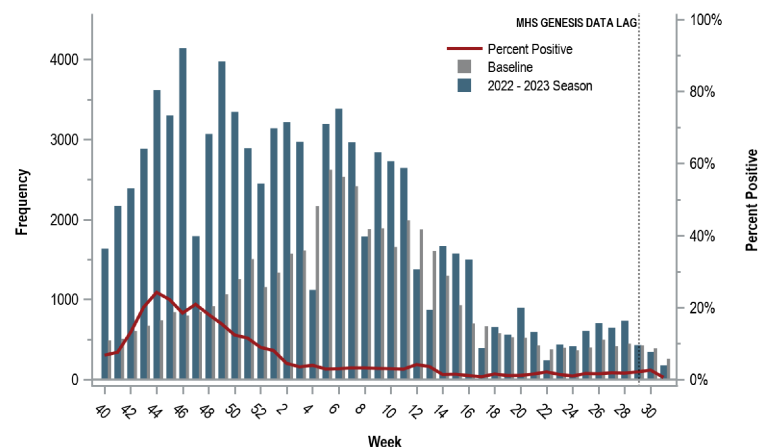
Overall Burden (Data Lagged, Week 30)

DON Total Influenza Cases from Laboratory, Pharmacy and Encounter Data



Laboratory Testing

DON Frequency of Influenza Testing from Laboratory Data

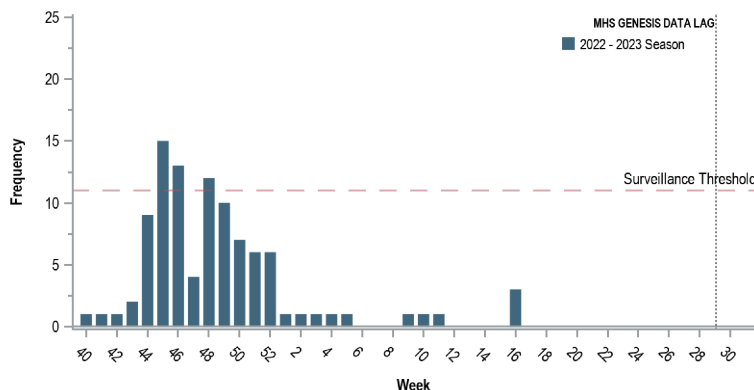


Laboratory Surveillance

- **Burden:** Laboratory-positive influenza cases (N=1) are below the seasonal threshold.
- **Specimens:** Overall percent positivity is 0.6%, with 100.0% of cases identified as influenza A.
- **Severity:** No inpatient laboratory-positive cases were identified.
- **Age:** Adults ages 18-44 had the highest rate of laboratory-positive influenza cases at 0.1 cases per 100,000 persons.
- **Location:** NH Guam-Agana (N=1) had the highest number of laboratory-positive cases for the week.

Data sources: CHCS and MHS GENESIS laboratory databases. The total population used to calculate rates are from MHS Mart (M2) eligibility records.

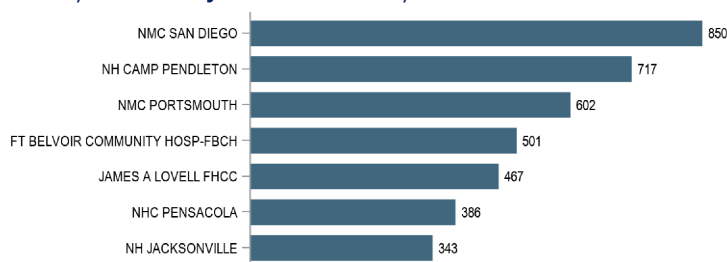
DON Inpatient Laboratory Cases (Severity)



Top MTFs, Laboratory-Positive Cases, Week 31

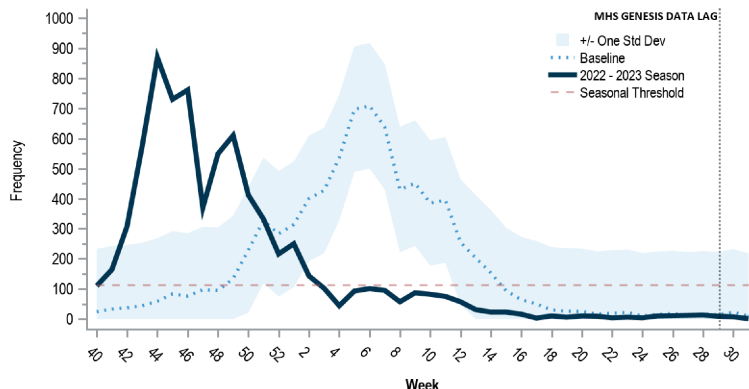


Top MTFs, Laboratory-Positive Cases, 2022 - 2023 Season*

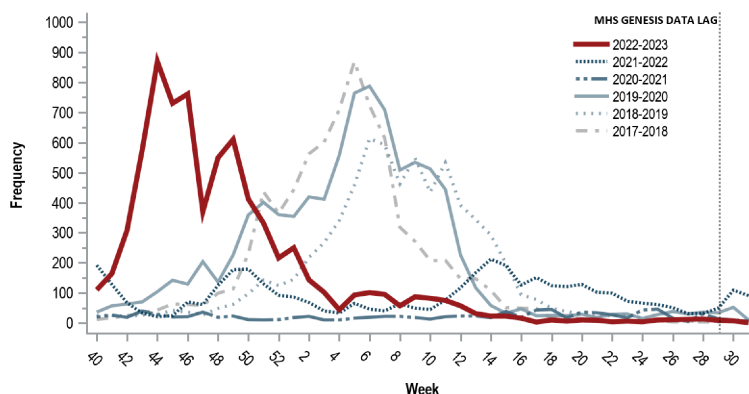


*Note: Season counts are since Week 37.

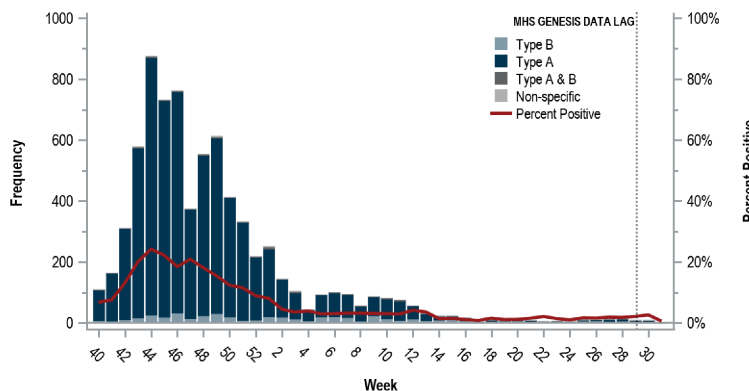
DON Laboratory-Positive Influenza Cases and Seasonal Baseline, 2022 - 2023 Season



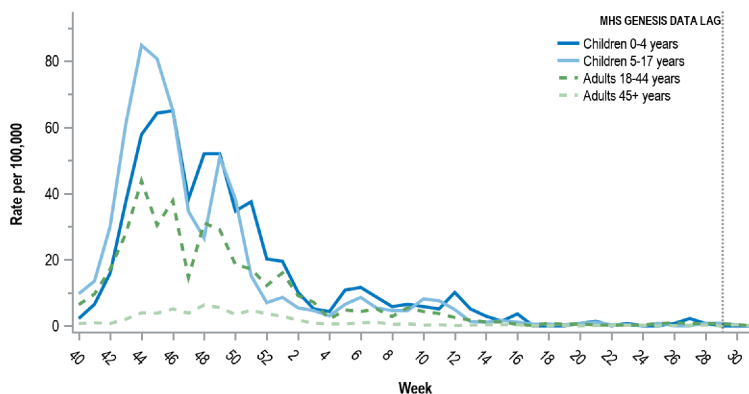
DON Laboratory-Positive Cases Seasonal Comparison, 2017-2023 Seasons



DON Laboratory-Positive Influenza Specimens, by Type



DON Laboratory-Positive Case Rates by Age Group



Antiviral Surveillance

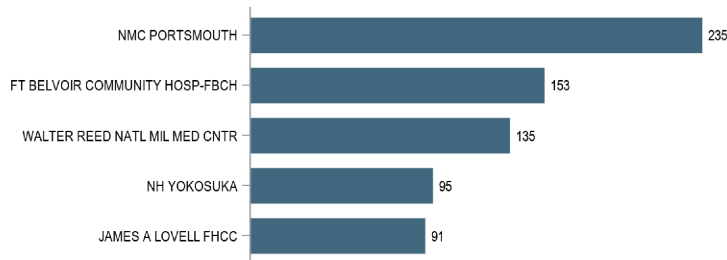
- **Burden:** No AVs were dispensed this week.
- **Severity:** No inpatient dispensed AVs were identified.
- **Types:** No AVs were dispensed this week.
- **Location:** No AVs were dispensed this week.

Data sources: CHCS pharmacy databases.

Top MTFs, Dispensed Antivirals, Week 31

No AVs were dispensed this week.

Top MTFs, Dispensed Antivirals, 2022 - 2023 Season*



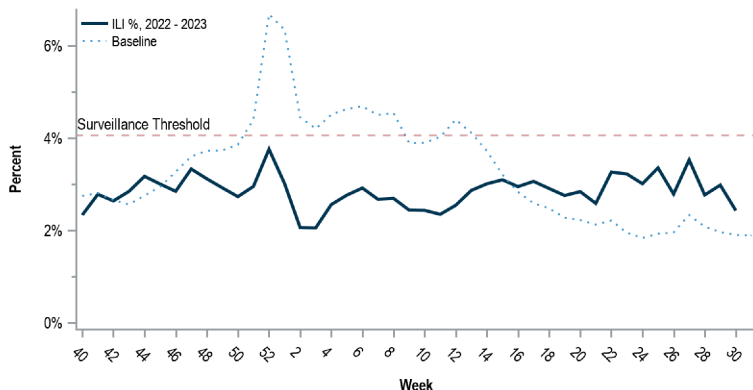
* Note: Season counts are since Week 37.

Influenza-Like Illness (Data Lagged, Week 30)

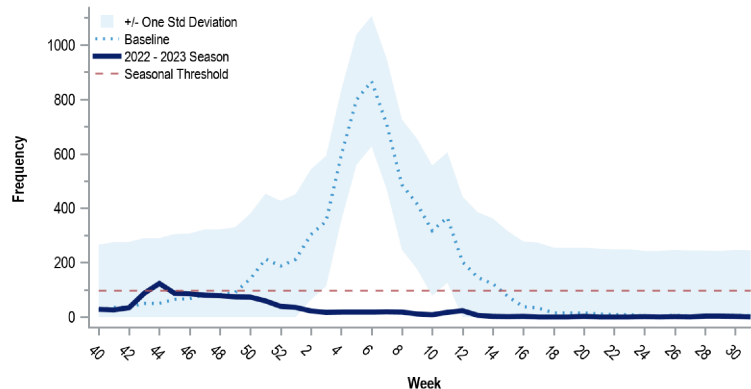
- **All outpatient:** Influenza-like illness (ILI) activity is low. The percentage of outpatient medical encounters due to ILI was 2.4% in Week 30, below the surveillance threshold of 4.1%.
- **Note:** ILI activity is used to indicate the burden of ILI on health care resources.

Data source: CAPER.

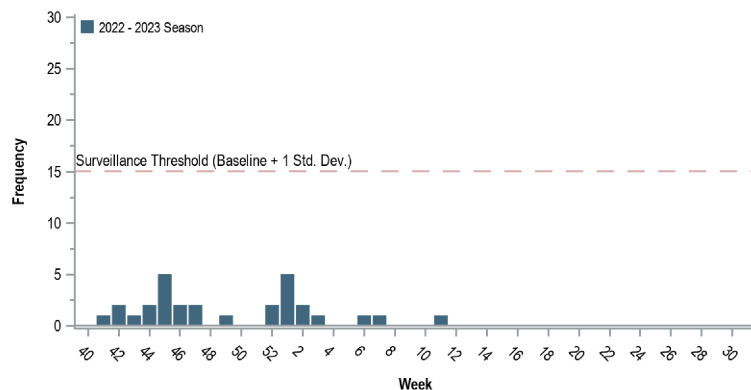
Outpatient Medical Encounters due to ILI, Week 30



DON Influenza Specific Antiviral Prescriptions and Seasonal Baseline, 2022 - 2023 Season



DON Inpatient Dispensed Antivirals (Severity)

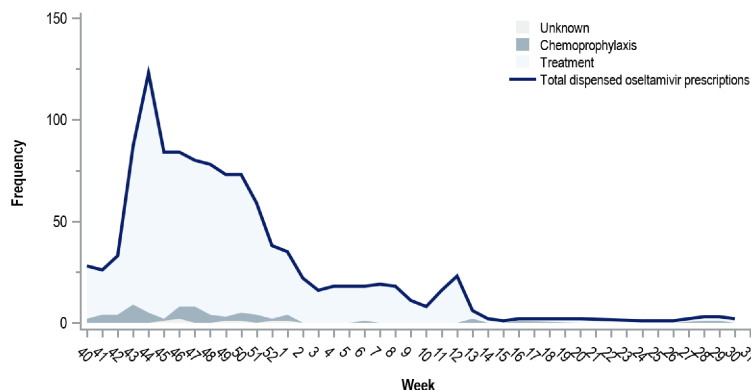


Outpatient Antiviral Prophylaxis

- **Treatment:** No AVs were dispensed this week.
- **Prophylaxis:** No AVs were dispensed this week.

Data source: CHCS pharmacy databases.

Outpatient Antiviral Prophylaxis Prescriptions

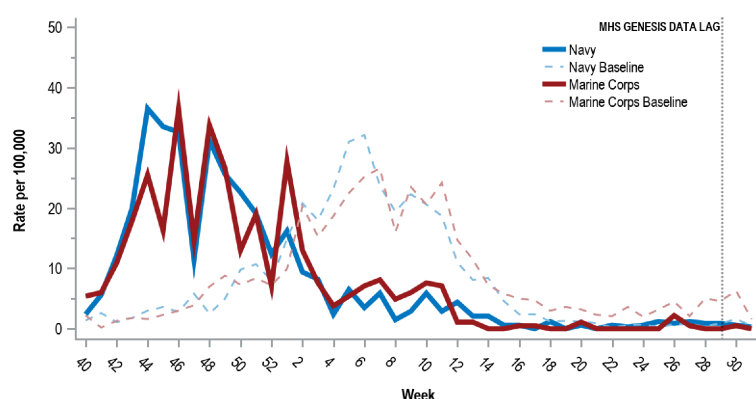


DON Active Duty and Recruits

- **AD Laboratory Cases:** One laboratory-positive cases among AD Sailors. No laboratory-positive cases were identified among AD Marines.
- **AD Dispensed Antivirals:** No dispensed AVs were identified among AD sailors or Marines.
- **Recruits:** No laboratory-positive cases or dispensed AVs were identified among recruits.
- **Location (AD):** Laboratory-positive cases among AD Sailors or Marines occurred most frequently at NH Guam-Agana (N=1).
- **Location (Recruits):** No laboratory-positive cases occurred among recruit Sailors or Marines.
- **Vaccination Status:** One AD laboratory-positive case (100.0%) had a vaccination record more than 14-days prior to infection.

Data Sources: CHCS and MHS Genesis laboratory databases, CHCS pharmacy databases, and ITS data.

Laboratory-Positive Cases Among DON Active Duty Service Members, 2022 - 2023 Season*



DON Active Duty and Recruit Cases*

	Laboratory		Dispensed AVs	
	Week 31	Season	Week 31	Season
Total Cases	1	2,315	0	359
Navy AD	1	1,222	0	247
Marine Corps AD	0	642	0	71
Navy Recruit	0	306	0	36
Marine Corps Recruit	0	145	0	5

*Note: Season counts are since Week 37.

In the News

- The CDC reported two cases of a variant flu virus in Michigan, which they say were acquired from pigs at two separate agricultural fairs. [Details.](#)

Methods and Data Sources

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

- Pharmacy and encounter analysis does not include data from facilities that have transitioned to MHS GENESIS.
- CAPER encounter data and ITS immunizations data are available from 2001 to present.
- CHCS microbiology and chemistry data are available from 2004 to present. CHCS pharmacy data are available from 2006 to present.
- MHS GENESIS laboratory and microbiology data are available from 2017 to present.
- **MHS GENESIS laboratory data is delayed about two weeks; previous data are updated as received. This may cause underreporting within graphs and tables using MHS GENESIS laboratory data.**
- The "Overall Burden" and ILI figures are lagged one week due to encounter data availability.
- Baselines are calculated as an average of the 2017-2018, 2018-2019, and 2019-2020 seasons.
- Encounter data rely on ICD codes to be properly identified and accurately reported. Therefore, missing ICD codes can result in encounters being undercounted.
- ILI encounters are defined as those where an ILI ICD-10-CM code, per AFHSB, is found in any diagnostic position. The ICD-10-CM codes in the AFHSB definition include: 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
- ILI threshold is calculated based on the off-season percentage outpatient visits for the 2017-2018, 2018-2019, and 2019-2020 seasons, plus two standard deviations.
- Prepared by the EpiData Center on 10AUG23.

