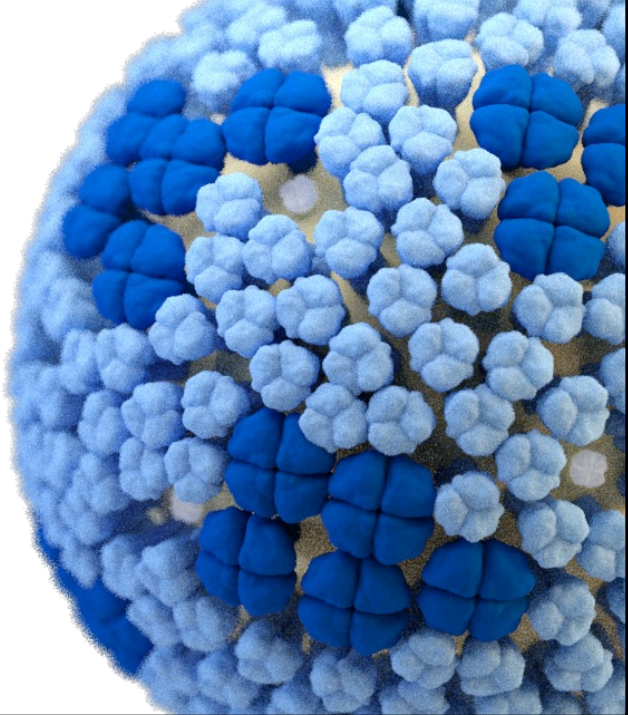



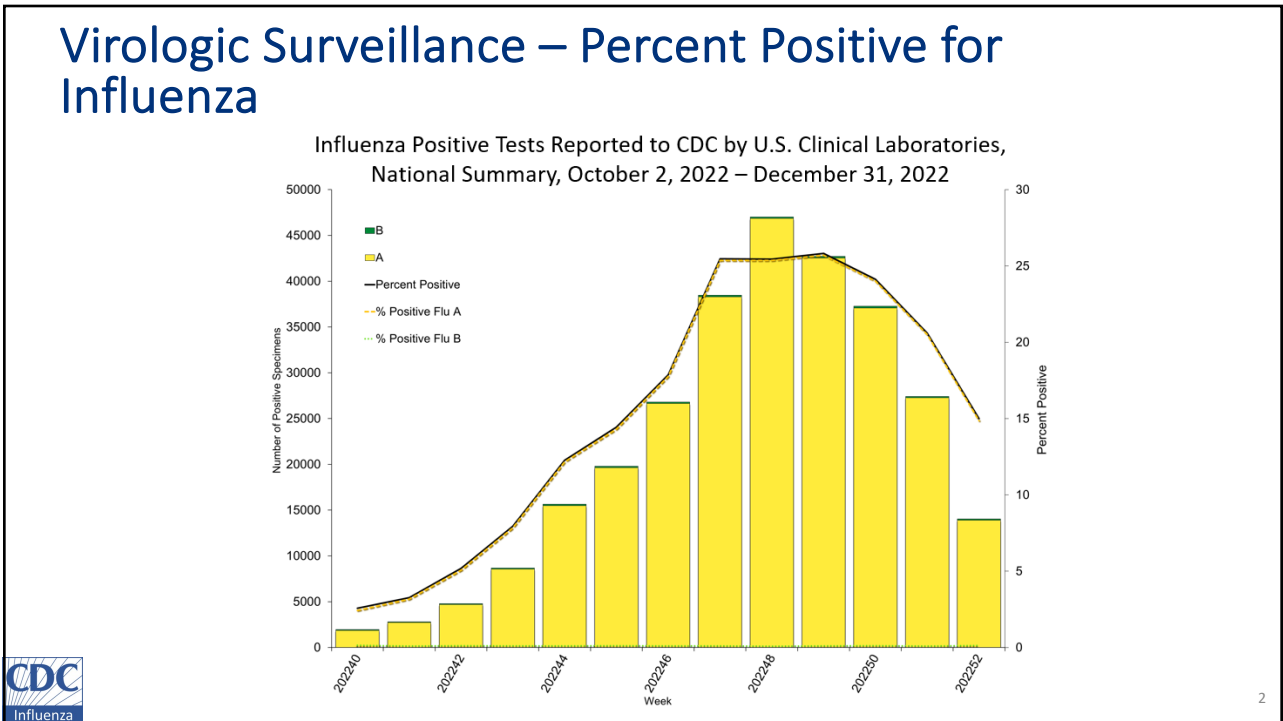
INFLUENZA ACTIVITY UPDATE: 2022-2023 Influenza Season

January 12, 2023

Alicia Budd, MPH
Influenza Division, CDC



1



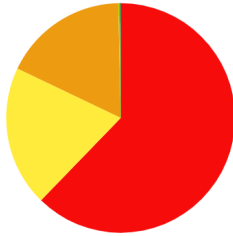
2

Virologic Surveillance – Virus Characteristics



Influenza Positive Tests Reported to CDC by Public Health Laboratories, National Summary, 2022-23 Season, week ending Dec 31, 2022. Reported by U.S. WHOINFLUENZA Collaborating Laboratories and ILINet

- A (H1)
- A (Unable to Subtype)
- A (H3)
- A (H1N1)pdm09
- A (Subtyping not Performed)
- B (Lineage Unspecified)
- H3N2v
- B (Victoria Lineage)
- B (Yamagata Lineage)
- No Data/Small Data Sample



- 99.7% influenza A
 - 78% H3
 - 22% H1
- 0.3% influenza B
 - 100% Victoria lineage

Viruses Collected in the U.S. since May 1, 2022

Virus	Genetic Characterization		Antigenic Characterization	
	Number Tested	Clade/Subclade	Number Tested	Similarity to vaccine reference virus
A/H1	368	1.6% - 6B.1A.5a.1	89	98% similar to cell-grown
		98.4% - 6B.1A.5a.2		98% similar to egg-grown
A/H3	1,094	99.9% - 3C.2a1b.2a.2	60	100% similar to cell-grown
		0.1% - 3C.2a1b.2a.1		97% similar to egg-grown
B/Victoria	19	5.3% - V1A.3	11	100% similar to cell-grown
		94.7% - V1A.3a.2		100% similar to egg-grown

Antiviral Susceptibility

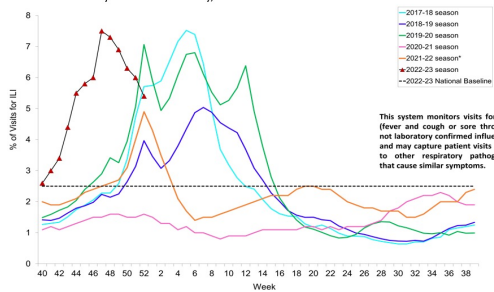
Viruses Collected since 10/2/22

- Oseltamivir, Peramivir, Zanamivir – 895 tested, 0 resistant
- Baloxavir – 871 tested, 0 resistant



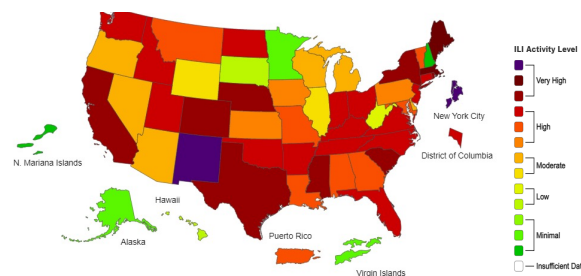
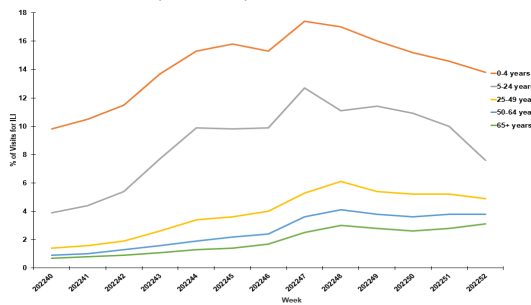
Outpatient Respiratory Illness

Percentage of Outpatient Visits for Respiratory Illness Reported by The U.S. Outpatient Influenza-like Illness Surveillance Network (ILINet), Weekly National Summary, 2022-2023* and Selected Previous Seasons

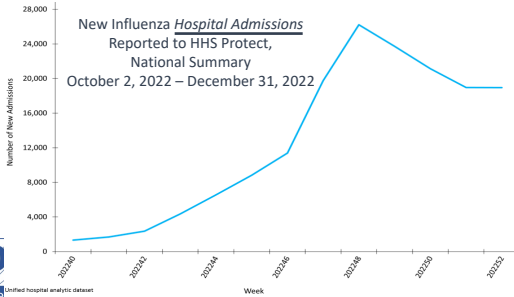
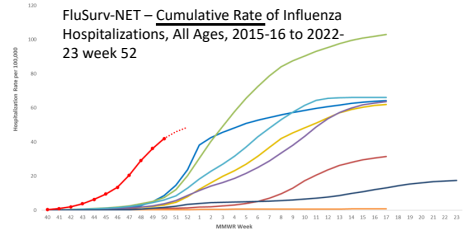
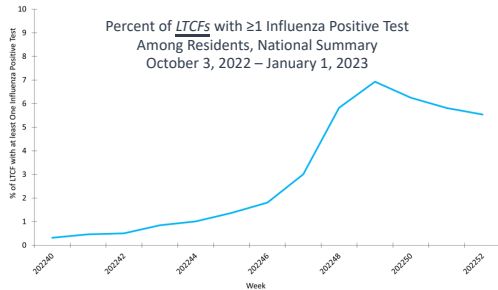


This system monitors visits for ILI (fever and cough or sore throat), not laboratory confirmed influenza and may capture patients' visits due to other respiratory pathogens that cause similar symptoms.

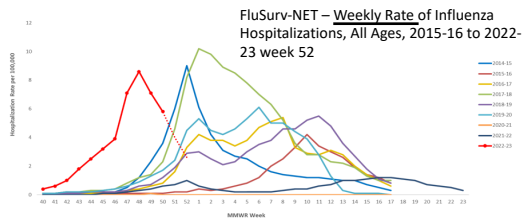
Percentage of Outpatient Visits for Respiratory Illness by Age Group Reported by the U.S. Outpatient Influenza-like Illness Surveillance Network (ILINet), Weekly National Summary, October 2, 2022-December 31, 2022*



Long-term Care Facilities (LTCF) and Hospitals



*In this figure, weekly rates for all seasons prior to the 2022-23 season reflect end-of-season rates. For the 2022-23 season, rates for recent hospital admissions are subject to reporting delays and are shown as a dashed line for the current season. As hospitalization data are received each week, prior case counts and rates are updated accordingly.

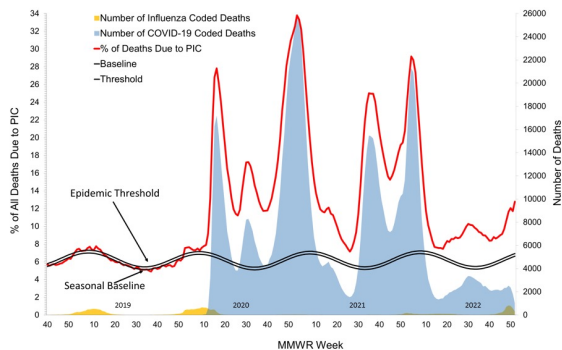


*In this figure, weekly rates for all seasons prior to the 2022-23 season reflect end-of-season rates. For the 2022-23 season, rates for recent hospital admissions are subject to reporting delays and are shown as a dashed line for the current season. As hospitalization data are received each week, prior case counts and rates are updated accordingly.

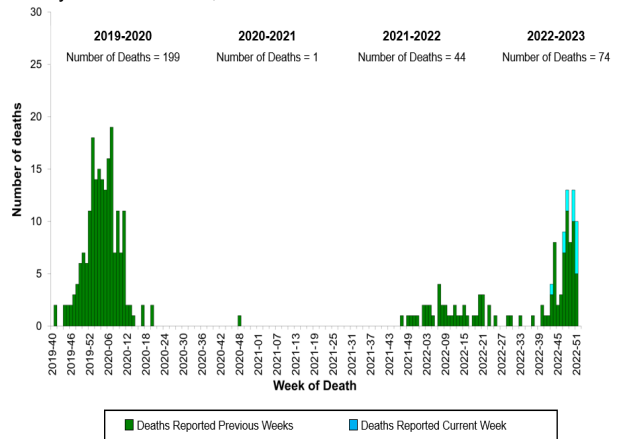


Mortality

Pneumonia, Influenza, and COVID-19 Mortality from the National Center for Health Statistics Mortality Surveillance System
Data as of January 5, 2023

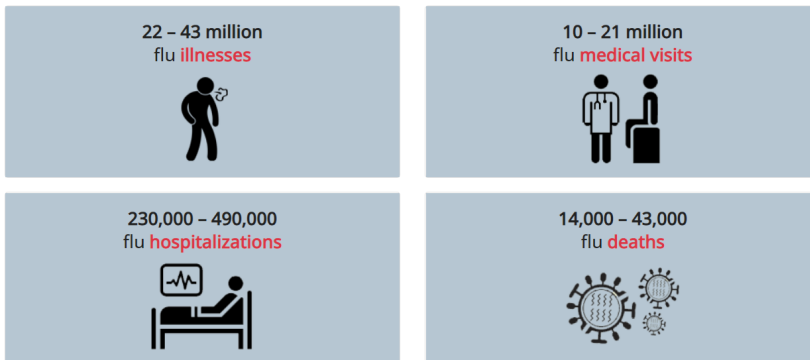


Influenza-Associated Pediatric Deaths by Week of Death, 2019-2020 season to 2022-2023 season

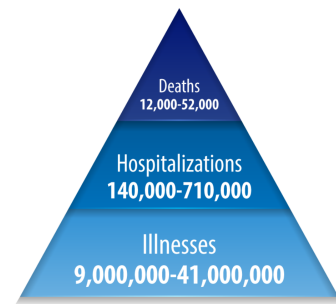


Preliminary In-Season Burden Estimates, 2022-23

CDC estimates* that, from October 1, 2022 through December 31, 2022, there have been:



Estimated Range of Annual Burden of Flu in the U.S. from 2010 – 2020



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Summary

- Influenza activity remains high but is declining in most areas of the country.
 - H3N2 remains the predominant virus.
 - H1 is also circulating but to a lesser degree.
 - Very little influenza B virus circulation.
- This wave of activity has likely peaked...
 - ...but will we see a second wave?
- Key indicators used to classify severity indicate a moderately severe flu season so far...
 - ...but the season is ongoing and this may change.



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Questions?
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For more information, contact CDC
1-800-CDC-INFO (232-4636)
TTY: 1-888-232-6348 www.cdc.gov

The findings and conclusions in this report are those of the authors and do not necessarily represent the official position of the Centers for Disease Control and Prevention.

