



National Center for Immunization & Respiratory Diseases



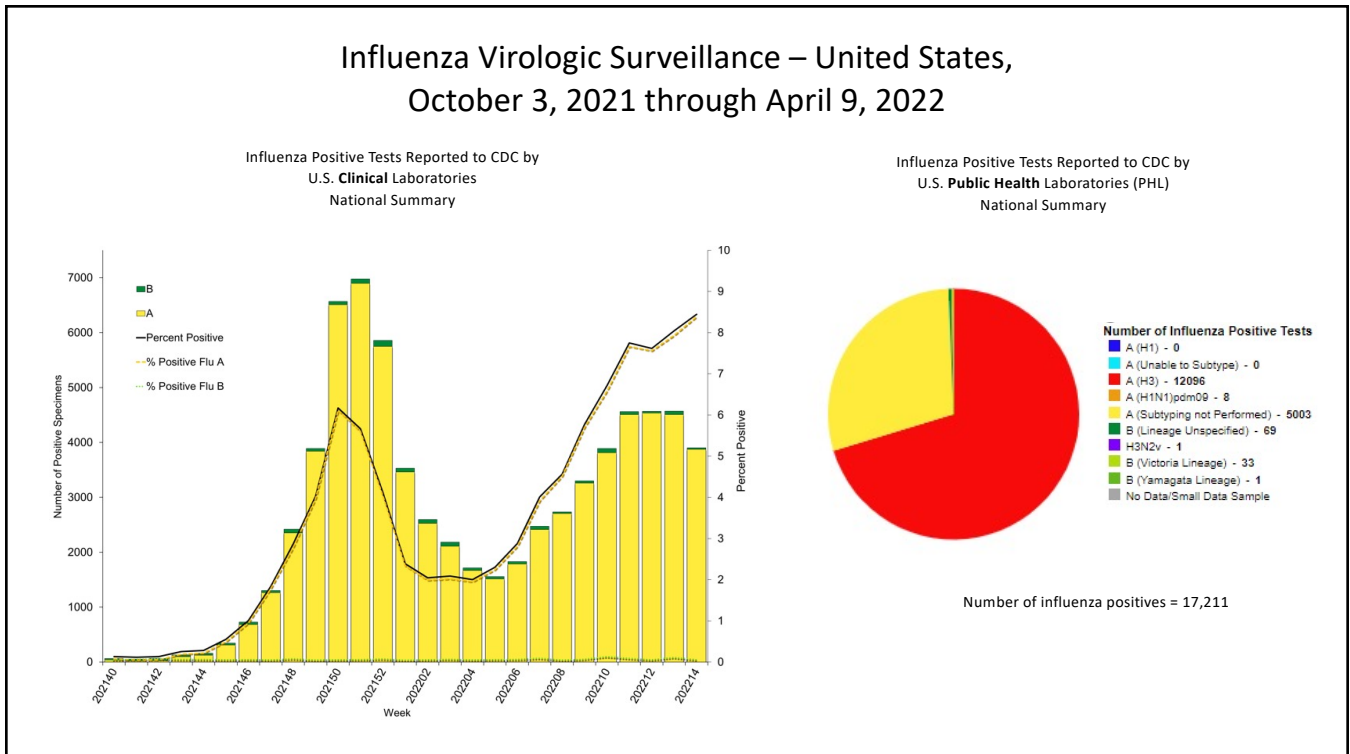
Influenza Activity in the United States 2021 – 2022 Season

Data through the week ending April 9 (week 14)



<https://www.cdc.gov/flu/weekly/index.htm>

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Influenza Virologic Surveillance – United States, October 3, 2021, through April 9, 2022

Virus Subtype or Lineage	Genetic Characterization			
	Total No. of Subtype/Lineage Tested	HA Clade	Number (% of subtype/lineage tested)	HA Subclade
A/H1	4	6B.1A	4 (100%)	5a.1 5a.2
A/H3	993	3C.2a1b	993(100%)	1a 1b 2a 2a.1 2a.2
B/Victoria	23	3C.3a V1A	0 23 (100%)	3a V1A V1A.1 V1A.3 V1A.3a V1A.3a.1 V1A.3a.2
B/Yamagata	0	Y3	0	

Antigenic Characterization

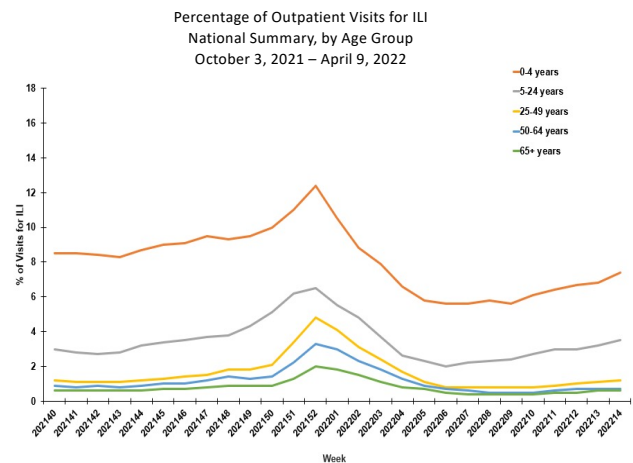
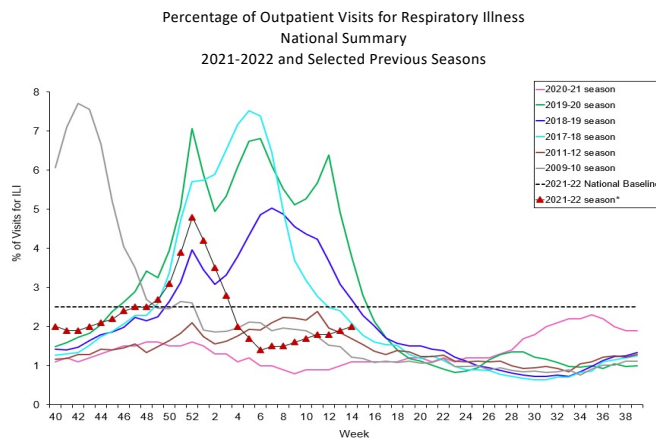
Virus	Number Tested	Number (%) antigenically similar to vaccine reference virus
A/H3N2	74	4 (5%) similar to cell-grown reference virus 19 (26%) similar to egg-grown reference virus
A/H1N1	3	2 (67%) similar to cell-grown reference virus 2 (67%) similar to egg-grown reference virus
B/Victoria	15	11 (73%) similar to cell-grown reference virus 11 (73%) similar to egg-grown reference virus
B/Yamagata	0	

Antiviral Resistance

- Oseltamivir, Peramivir, Zanamivir
 - 833 tested
 - None with reduced inhibition
- Baloxavir
 - 819 tested
 - 1 A/H3 with decreased susceptibility

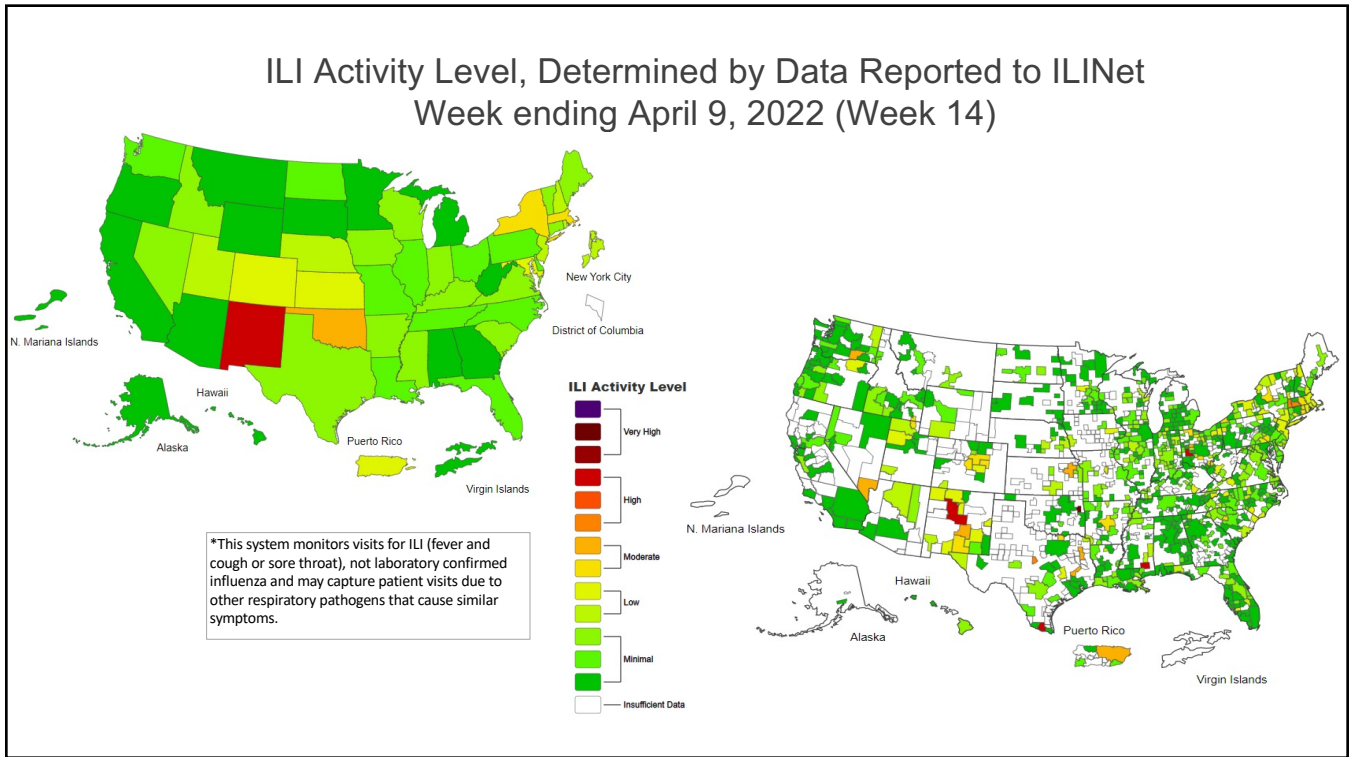
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Outpatient Visits for Respiratory Illness, Reported by the U.S. Outpatient Influenza-like Illness Surveillance Network (ILINet)

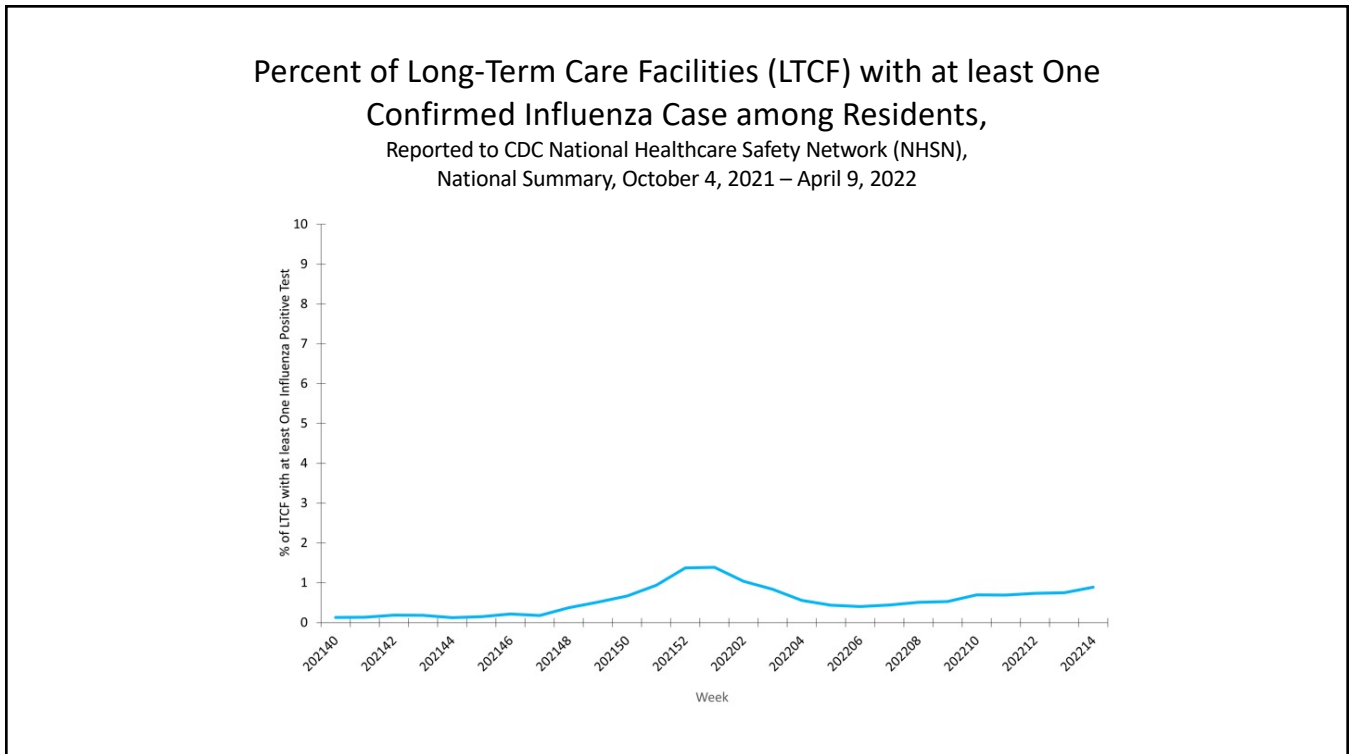


*This system monitors visits for respiratory illness that includes fever plus cough or sore throat (referred to as ILI) not laboratory confirmed influenza, and may capture patient visits due to other respiratory pathogens that cause similar symptoms.

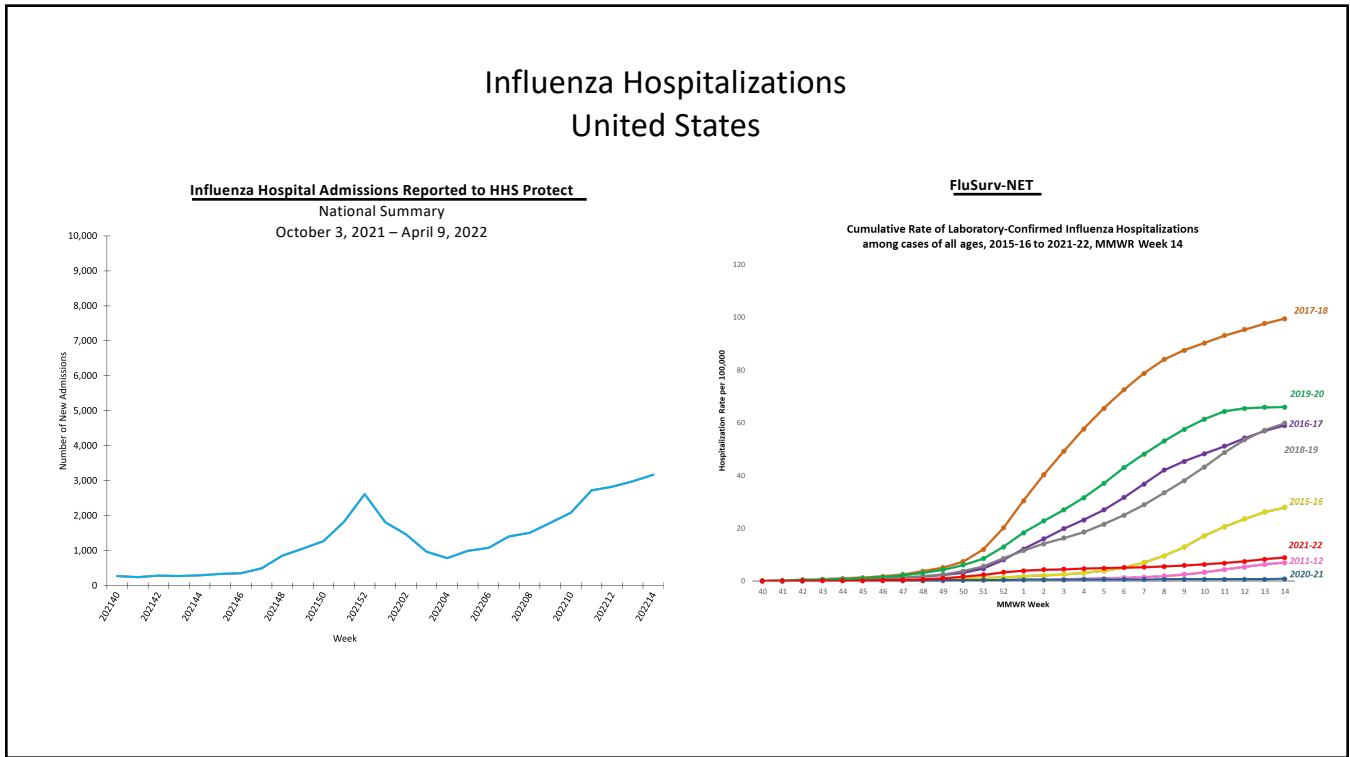
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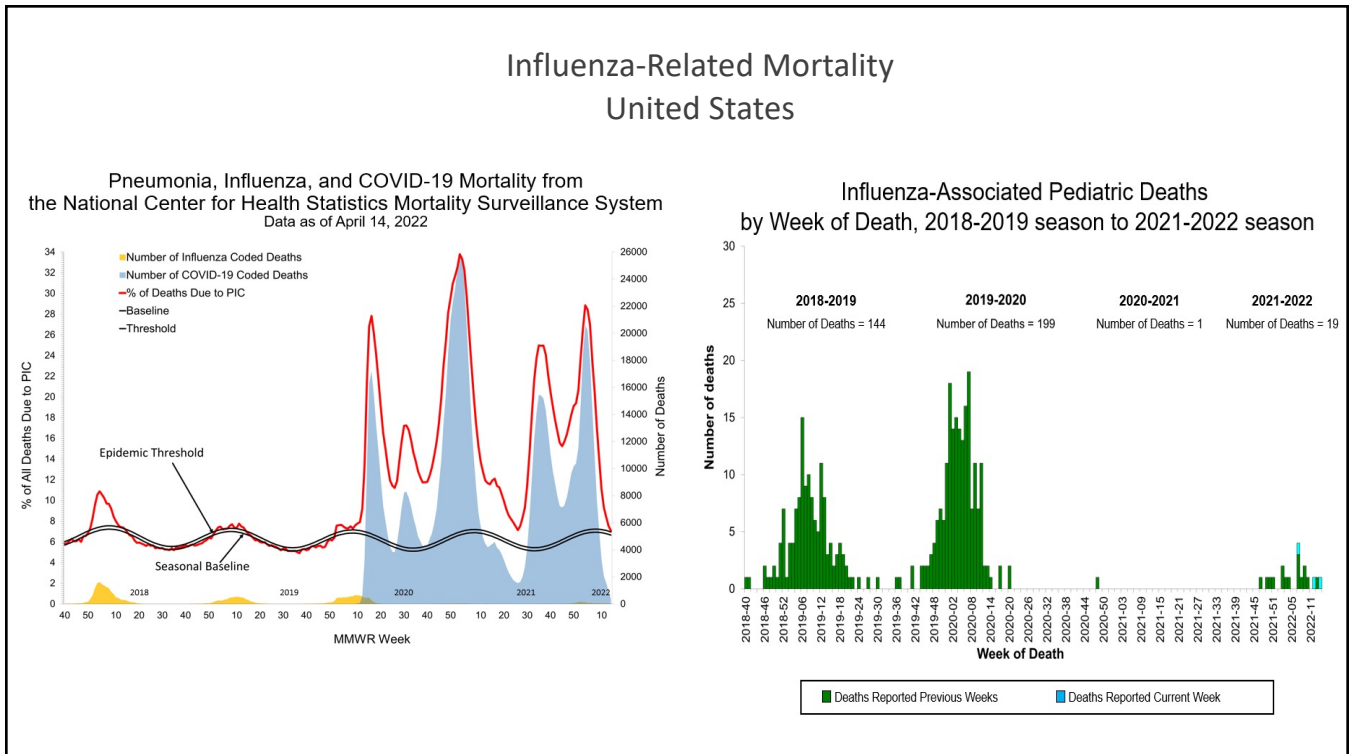
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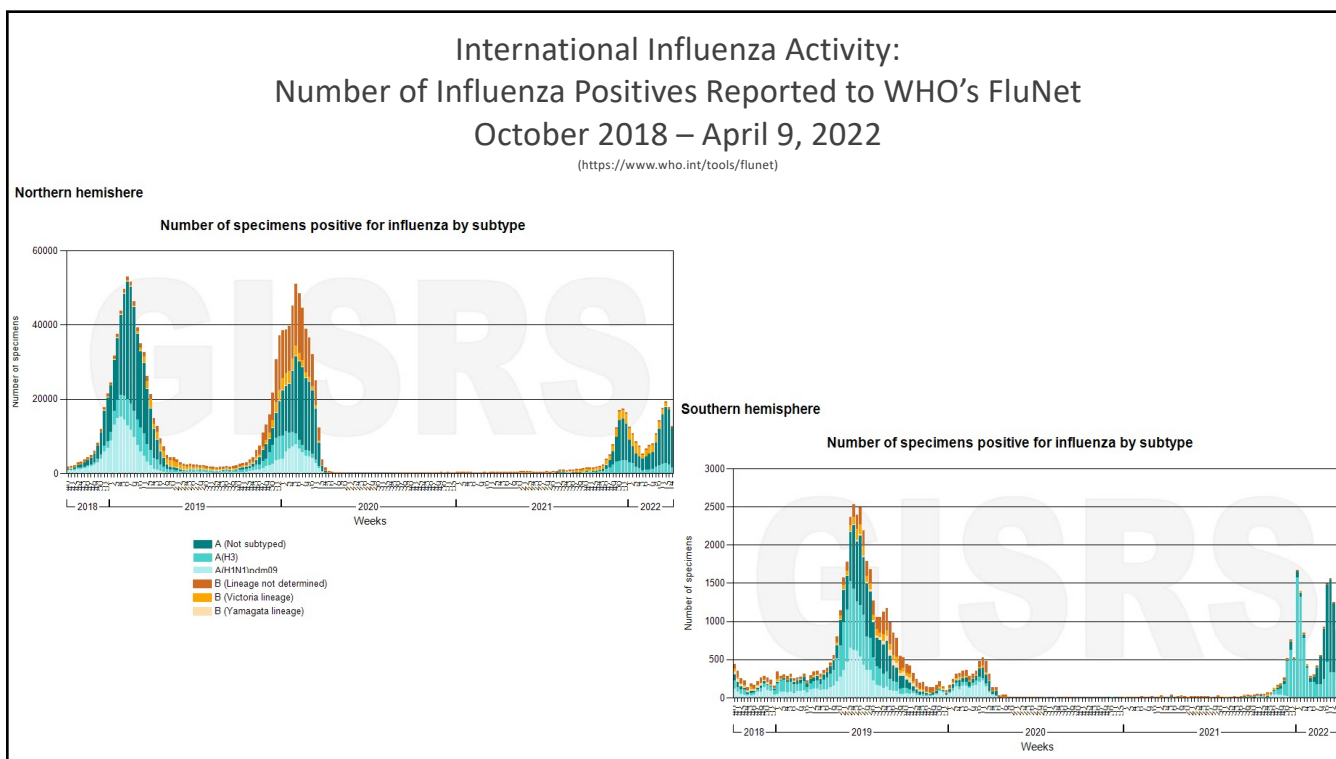
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Highly Pathogenic Avian Influenza (HPAI) A(H5N1): U.S. Status as of April 18, 2022

- Continued detections of HPAI H5N1 in birds
 - Wild birds - 32 states
 - Commercial poultry and backyard flocks – 29 states
- No human cases in the U.S.

• More information

- CDC: <https://www.cdc.gov/flu/avianflu/avian-flu-summary.htm>
- USDA: <https://www.aphis.usda.gov/aphis/ourfocus/animalhealth/animal-disease-information/avian/avian-influenza/2022-hpai>

2022 H5N1 Highly Pathogenic Avian Influenza, United States

H5N1 Detections 4/18/2022 9:29 AM
 Type ● Confirmed Outbreak ● Wild Bird Detection Last Data Refresh

Data source: USDA APHIS

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Summary

- Seasonal influenza activity in the U.S. is increasing.
- It is an unusual time of year for flu activity to increase.
- Activity remains low compared to pre-COVID influenza seasons.

Burden Estimates	2021-22 Estimate	2010-2020 Range
Illnesses	at least 4.3 million	9 million to 41 million
Hospitalizations	at least 42,000	140,000 to 710,000
Deaths	at least 2,500	12,000 to 52,000

- Vast majority of flu viruses circulating are influenza A/H3N2.
- HPAI H5 outbreak is continuing (expanding) in birds in the U.S. but no human cases have been identified at this time
 - Risk to those exposed to poultry and wild birds may be increased as the outbreaks continue
 - Risk to general public is low

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Additional Information

Influenza Activity

- FluView
 - <https://www.cdc.gov/flu/weekly/index>
- FluView Interactive
 - <https://www.cdc.gov/flu/weekly/fluviewinteractive.htm>
- WHO's FluNet
 - <https://www.who.int/tools/flunet>

Other Respiratory Virus Activity

- COVID Data Tracker Weekly Review
 - <https://www.cdc.gov/coronavirus/2019-ncov/covid-data/covidview/index.html>
- COVID Data Tracker
 - <https://covid.cdc.gov/covid-data-tracker/#datatracker-home>
- National Respiratory Virus Surveillance System (NREVSS)
 - <https://www.cdc.gov/surveillance/nrevss/index.html>

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