



Respiratory Viruses

Groups Most Impacted—Hospitalizations

Provides an update on how COVID-19, influenza, and RSV hospitalizations are affecting different groups.

Groups Most Impacted Update:

- The percentage of all emergency department visits with a discharge diagnosis of COVID is highest among adults 65+ and children under two years; visits due to RSV are highest among children under 4 years; influenza visits are highest among school aged children (5-17 years).
- Rates of COVID-19-associated hospitalizations are elevated for infants and young children and highest among older adults. RSV-associated hospitalization rates are elevated among children under 4 years and are increasing among adults 65+. Rates of influenza-associated hospitalizations continue to increase and adults 65+ have the highest rate. Unadjusted influenza hospitalization rates are highest in non-Hispanic Black persons compared with other racial and ethnic groups.
- Nationally, the percent of deaths due to respiratory viruses (COVID-19, influenza, and RSV combined) is highest among adults 65+, driven by deaths in COVID-19.

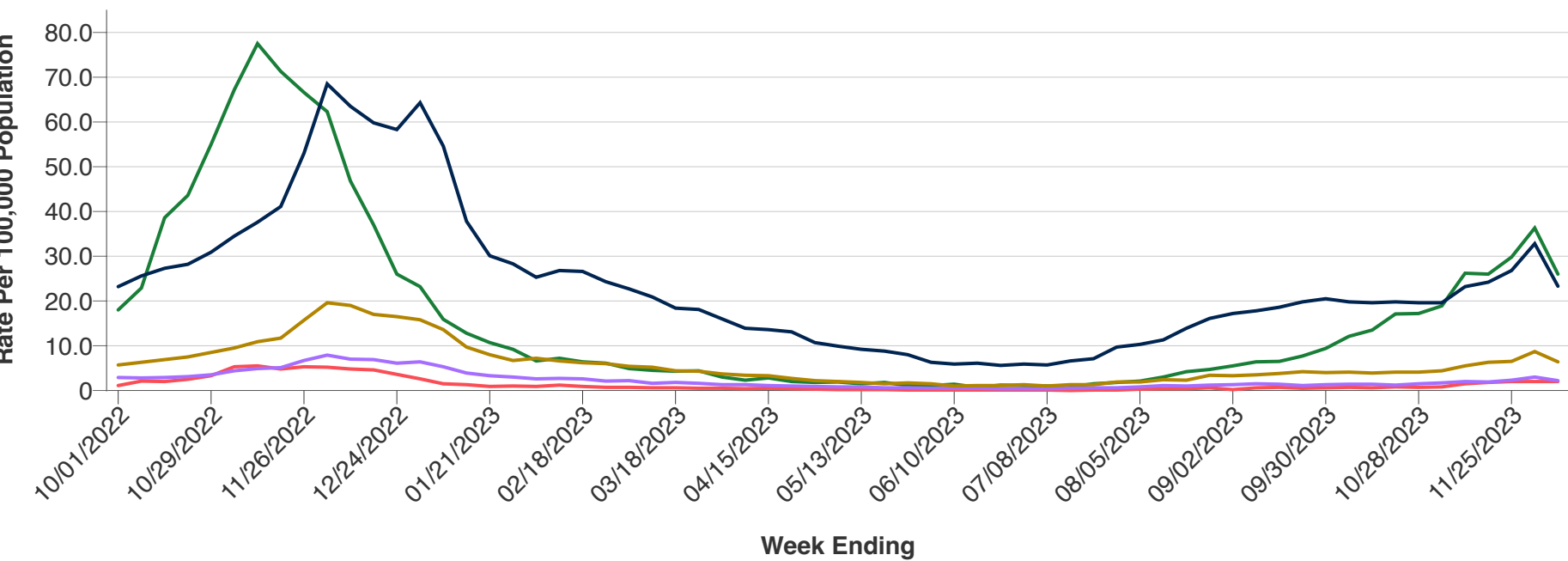
Reported on Friday, December 15th, 2023.

Hospitalization Rates for Viral Respiratory Illness, by Age

Weekly hospitalization rates for COVID-19, influenza, and RSV per 100,000 population.

Respiratory Illness

Combined



Age Group

0-4 years

5-17 years

18-49 years

50-64 years

65+ years

Data presented through: 12/09/2023; Data as of: 12/14/2023

Data Table					
Week Ending	0-4 years	5-17 years	18-49 years	50-64 years	65+ years
10/01/2022	18.0	1.1	2.9	5.7	23.2
10/08/2022	22.9	2.1	2.8	6.3	25.6
10/15/2022	38.6	2.0	2.9	6.9	27.3
10/22/2022	43.6	2.5	3.1	7.5	28.2
10/29/2022	55.0	3.3	3.5	8.5	30.9
11/05/2022	67.2	5.3	4.4	9.5	34.5
11/12/2022	77.5	5.5	4.9	10.9	37.6
11/19/2022	71.3	4.8	5.1	11.7	41.1
11/26/2022	66.6	5.3	6.7	15.7	53.0
12/03/2022	62.3	5.2	7.9	19.6	68.5
12/10/2022	46.8	4.8	7.0	19.0	63.5
12/17/2022	37.0	4.6	6.9	17.0	59.8
12/24/2022	26.0	3.6	6.1	16.5	58.3
12/31/2022	23.2	2.6	6.4	15.8	64.3
01/07/2023	15.9	1.5	5.3	13.6	54.6
01/14/2023	12.8	1.3	3.9	9.7	37.8
01/21/2023	10.7	0.9	3.3	8.0	30.1
01/28/2023	9.2	1.0	3.0	6.7	28.3
02/04/2023	6.6	0.9	2.6	7.2	25.3
02/11/2023	7.2	1.2	2.7	6.6	26.8
02/18/2023	6.4	0.9	2.6	6.2	26.6
02/25/2023	6.1	0.7	2.1	6.0	24.3
03/04/2023	4.9	0.7	2.2	5.4	22.7
03/11/2023	4.5	0.6	1.6	5.2	20.9
03/18/2023	4.3	0.6	1.8	4.4	18.4
03/25/2023	4.4	0.5	1.6	4.3	18.1
04/01/2023	3.0	0.5	1.3	3.7	16.0
04/08/2023	2.3	0.4	1.3	3.4	13.9
04/15/2023	2.8	0.5	1.1	3.3	13.6
04/22/2023	2.0	0.4	1.0	2.7	13.1
04/29/2023	1.8	0.3	0.9	2.2	10.7
05/06/2023	1.9	0.2	0.8	2.0	9.9
05/13/2023	1.5	0.2	0.8	1.8	9.2
05/20/2023	1.8	0.2	0.6	1.5	8.8
05/27/2023	1.1	0.1	0.6	1.7	8.0
06/03/2023	1.1	0.1	0.5	1.5	6.3
06/10/2023	1.4	0.1	0.5	1.0	5.9
06/17/2023	0.7	0.1	0.5	1.1	6.1
06/24/2023	1.2	0.1	0.4	1.1	5.6
07/01/2023	1.1	0.1	0.4	1.3	5.9
07/08/2023	1.0	0.1	0.4	1.0	5.7
07/15/2023	0.8	0.0	0.5	1.3	6.6
07/22/2023	1.5	0.1	0.6	1.3	7.1

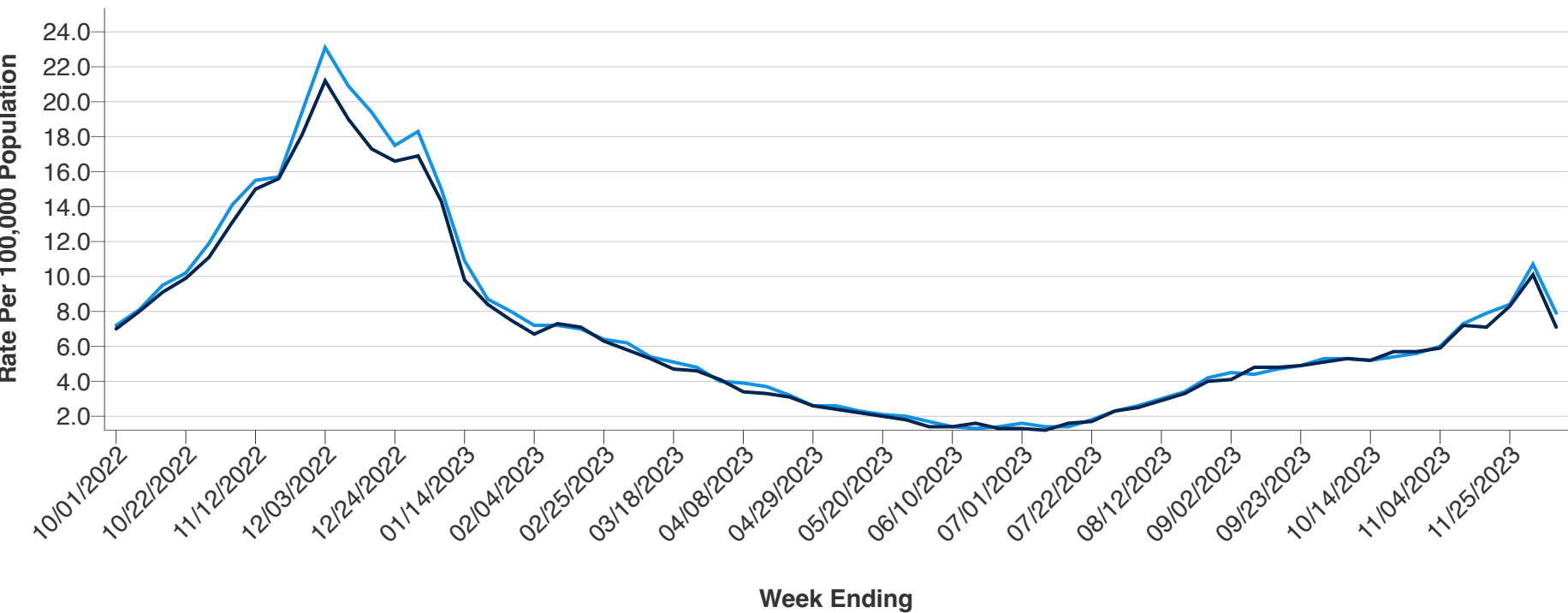
Week Ending	0-4 years	5-17 years	18-49 years	50-64 years	65+ years
07/29/2023	1.8	0.1	0.6	1.9	9.7
08/05/2023	2.1	0.3	0.8	1.9	10.3
08/12/2023	3.0	0.4	1.1	2.4	11.3
08/19/2023	4.2	0.4	1.0	2.3	13.9
08/26/2023	4.7	0.6	1.2	3.4	16.1
09/02/2023	5.5	0.2	1.3	3.3	17.2
09/09/2023	6.4	0.6	1.5	3.5	17.8
09/16/2023	6.5	0.7	1.4	3.8	18.6
09/23/2023	7.7	0.5	1.1	4.2	19.8
09/30/2023	9.4	0.6	1.3	4.0	20.5
10/07/2023	12.1	0.7	1.4	4.1	19.8
10/14/2023	13.5	0.6	1.4	3.9	19.6
10/21/2023	17.1	0.8	1.2	4.1	19.8
10/28/2023	17.2	0.7	1.5	4.1	19.6
11/04/2023	18.9	0.8	1.7	4.4	19.6
11/11/2023	26.2	1.5	2.0	5.5	23.2
11/18/2023	26.0	1.8	1.9	6.3	24.2
11/25/2023	29.8	2.0	2.3	6.5	26.8
12/02/2023	36.3	2.0	3.0	8.7	32.8
12/09/2023	26.0	2.0	2.2	6.4	23.3

Hospitalization Rates for Viral Respiratory Illness, by Sex

Weekly hospitalization rates for COVID-19, influenza, and RSV per 100,000 population.

Respiratory Illness

Combined ▾



Sex

● Female

● Male

Data presented through: 12/09/2023; Data as of: 12/14/2023

[Dataset on data.cdc.gov](#) | [Link to Dataset](#)

Data Table			
Week Ending	Female	Male	
10/01/2022	7.2	7.0	
10/08/2022	8.1	8.0	
10/15/2022	9.5	9.1	
10/22/2022	10.2	9.9	
10/29/2022	11.9	11.1	
11/05/2022	14.1	13.1	
11/12/2022	15.5	15.0	
11/19/2022	15.7	15.6	
11/26/2022	19.4	18.1	
12/03/2022	23.1	21.2	
12/10/2022	20.9	19.0	
12/17/2022	19.4	17.3	
12/24/2022	17.5	16.6	
12/31/2022	18.3	16.9	
01/07/2023	15.0	14.3	
01/14/2023	10.9	9.8	
01/21/2023	8.7	8.4	
01/28/2023	8.0	7.5	
02/04/2023	7.2	6.7	
02/11/2023	7.2	7.3	
02/18/2023	7.0	7.1	
02/25/2023	6.4	6.3	
03/04/2023	6.2	5.8	
03/11/2023	5.4	5.3	
03/18/2023	5.1	4.7	
03/25/2023	4.8	4.6	
04/01/2023	4.0	4.1	
04/08/2023	3.9	3.4	
04/15/2023	3.7	3.3	
04/22/2023	3.2	3.1	
04/29/2023	2.6	2.6	
05/06/2023	2.6	2.4	
05/13/2023	2.3	2.2	
05/20/2023	2.1	2.0	
05/27/2023	2.0	1.8	
06/03/2023	1.7	1.4	
06/10/2023	1.4	1.4	
06/17/2023	1.3	1.6	
06/24/2023	1.4	1.3	
07/01/2023	1.6	1.3	
07/08/2023	1.4	1.2	
07/15/2023	1.4	1.6	
07/22/2023	1.8	1.7	

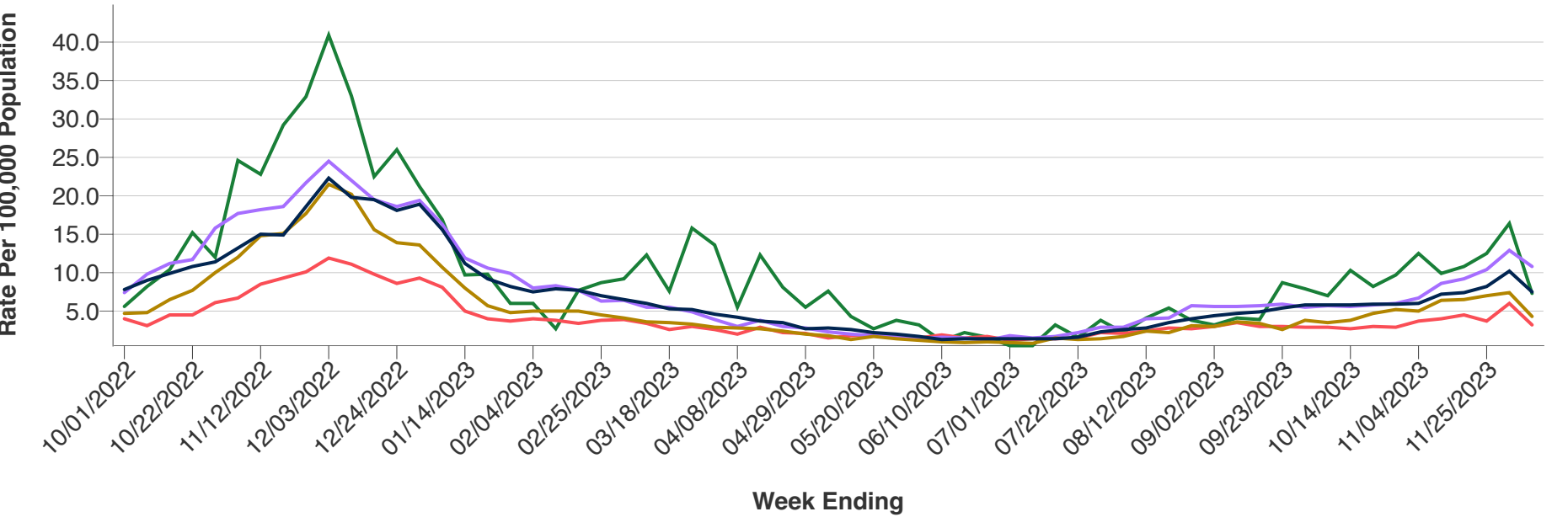
Week Ending	Female	Male
07/29/2023	2.3	2.3
08/05/2023	2.6	2.5
08/12/2023	3.0	2.9
08/19/2023	3.4	3.3
08/26/2023	4.2	4.0
09/02/2023	4.5	4.1
09/09/2023	4.4	4.8
09/16/2023	4.7	4.8
09/23/2023	4.9	4.9
09/30/2023	5.3	5.1
10/07/2023	5.3	5.3
10/14/2023	5.2	5.2
10/21/2023	5.4	5.7
10/28/2023	5.6	5.7
11/04/2023	6.0	5.9
11/11/2023	7.3	7.2
11/18/2023	7.9	7.1
11/25/2023	8.4	8.3
12/02/2023	10.7	10.1
12/09/2023	7.9	7.1

Hospitalization Rates for Viral Respiratory Illness, by Race and Ethnicity

Weekly hospitalization rates for COVID-19, influenza, and RSV per 100,000 population.

Respiratory Illness

Combined ▾



Race and Ethnicity

AI/AN, NH

Asian, PI, NH

Black, NH

Hispanic

White, NH

NH = non-Hispanic, AI/AN = American Indian/Alaska Native, PI = Pacific Islander

Data presented through: 12/09/2023; Data as of: 12/14/2023

Data Table					
Week Ending	AI/AN, NH	Asian, PI, NH	Black, NH	Hispanic	White, NH
10/01/2022	5.6	4.0	7.4	4.7	7.8
10/08/2022	8.2	3.1	9.8	4.8	9.0
10/15/2022	10.4	4.5	11.2	6.5	9.9
10/22/2022	15.2	4.5	11.7	7.7	10.8
10/29/2022	12.0	6.1	15.8	10.0	11.4
11/05/2022	24.6	6.7	17.7	12.0	13.2
11/12/2022	22.8	8.5	18.2	14.8	15.0
11/19/2022	29.2	9.3	18.6	15.1	14.9
11/26/2022	32.9	10.1	21.7	17.7	18.6
12/03/2022	40.9	11.9	24.5	21.5	22.3
12/10/2022	33.0	11.1	22.0	20.2	19.8
12/17/2022	22.5	9.8	19.5	15.6	19.5
12/24/2022	26.0	8.6	18.6	13.9	18.1
12/31/2022	21.2	9.3	19.4	13.6	18.9
01/07/2023	16.9	8.1	16.3	10.7	15.6
01/14/2023	9.7	5.0	11.9	8.0	11.2
01/21/2023	9.8	4.0	10.6	5.7	9.2
01/28/2023	6.0	3.7	9.9	4.8	8.2
02/04/2023	6.0	4.0	8.0	5.0	7.5
02/11/2023	2.7	3.8	8.3	5.0	7.9
02/18/2023	7.7	3.4	7.7	5.0	7.7
02/25/2023	8.7	3.8	6.3	4.5	7.0
03/04/2023	9.2	3.9	6.4	4.1	6.5
03/11/2023	12.3	3.4	5.5	3.6	6.0
03/18/2023	7.6	2.6	5.5	3.5	5.3
03/25/2023	15.8	3.0	4.9	3.3	5.2
04/01/2023	13.6	2.6	3.9	2.9	4.6
04/08/2023	5.5	2.0	3.0	2.8	4.2
04/15/2023	12.3	2.9	3.8	2.7	3.7
04/22/2023	8.1	2.2	3.0	2.4	3.5
04/29/2023	5.5	2.1	2.8	2.0	2.7
05/06/2023	7.6	1.5	2.3	1.8	2.8
05/13/2023	4.3	1.8	2.0	1.3	2.6
05/20/2023	2.7	1.9	1.8	1.7	2.2
05/27/2023	3.8	1.7	1.8	1.4	2.0
06/03/2023	3.2	1.5	1.4	1.2	1.7
06/10/2023	1.1	1.9	1.6	1.0	1.3
06/17/2023	2.2	1.5	1.5	0.9	1.4
06/24/2023	1.6	1.7	1.2	1.0	1.4
07/01/2023	0.5	1.2	1.8	0.9	1.4
07/08/2023	0.5	1.4	1.5	0.8	1.4
07/15/2023	3.2	1.4	1.7	1.5	1.4

Week Ending	AI/AN, NH	Asian, PI, NH	Black, NH	Hispanic	White, NH
07/22/2023	1.6	1.5	2.2	1.3	1.6
07/29/2023	3.8	2.2	2.9	1.4	2.3
08/05/2023	2.2	2.1	2.9	1.7	2.6
08/12/2023	4.1	2.4	4.0	2.4	2.8
08/19/2023	5.4	2.8	4.1	2.2	3.5
08/26/2023	3.8	2.7	5.7	3.1	4.0
09/02/2023	3.2	3.0	5.6	3.0	4.4
09/09/2023	4.1	3.5	5.6	3.6	4.7
09/16/2023	3.9	3.0	5.7	3.4	4.9
09/23/2023	8.7	3.0	5.9	2.6	5.4
09/30/2023	7.9	2.9	5.5	3.8	5.8
10/07/2023	7.0	2.9	5.7	3.5	5.8
10/14/2023	10.3	2.7	5.6	3.8	5.8
10/21/2023	8.2	3.0	5.8	4.7	5.9
10/28/2023	9.7	2.9	6.0	5.2	5.9
11/04/2023	12.5	3.7	6.7	5.0	6.0
11/11/2023	9.9	4.0	8.6	6.4	7.2
11/18/2023	10.8	4.5	9.2	6.5	7.4
11/25/2023	12.5	3.7	10.4	7.0	8.2
12/02/2023	16.4	6.0	12.9	7.4	10.2
12/09/2023	7.3	3.2	10.8	4.3	7.5

Data Notes: Hospitalizations



- **SOURCE:** Respiratory Virus Hospitalization Surveillance Network (RESP-NET).
- Combined is the sum of COVID-19, influenza, and respiratory syncytial virus (RSV) hospitalization rates.
- Additional information, including the surveillance catchment area, is available at <https://www.cdc.gov/surveillance/resp-net/dashboard.html>.
- Data are preliminary and subject to change as more data become available. In particular, case counts and rates for recent hospital admissions are subject to lag.
- Incidence rates of COVID-19- and respiratory syncytial virus (RSV)-associated hospitalizations (per 100,000) are calculated using the National Center for Health statistics (NCHS) vintage 2020 bridged-race postcensal population estimates for the counties included in the surveillance area, while incidence rates of influenza-associated hospitalizations (per 100,000) are calculated using U.S. Census vintage 2022 unbridged-race postcensal population estimates for the counties or county-equivalents included the surveillance area.
- COVID-19 and respiratory syncytial virus (RSV) surveillance are currently conducted year-round. For influenza, the surveillance period begins October 1 and ends April 30 of each year.
- FluSurv-NET surveillance for the 2023-24 season began on October 1, 2023.
- Rates are likely to be underestimated as some COVID-19-, influenza-, and respiratory syncytial virus (RSV)-associated hospitalizations might be missed because of undertesting, differing provider or facility testing practices, and diagnostic test sensitivity. Rates presented do not adjust for testing practices which may differ by pathogen, age, race and ethnicity, and other demographic criteria.
- The NCHS bridged-race population estimates or U.S. Census unbridged-race postcensal population estimates used as denominators for race provide data for children ages 0–1 year. To calculate rates of hospitalization among children ages <6 months and 6 months to <12 months, the population estimate for children ages 0–1 year is halved.

- Black, White, American Indian/Alaska Native, and Asian/Pacific Islander people were categorized as non-Hispanic; Hispanic people could be of any race. If Hispanic ethnicity was unknown, non-Hispanic ethnicity was assumed. Rates presented by race and ethnicity are calculated using records with known race. Those with missing or unknown race are excluded from race-specific estimates but are included in overall estimates.

Explore deeper data

Respiratory Virus Hospitalizations Dashboard

COVID-19 Hospitalizations Dashboard

Influenza Hospitalizations Dashboard

RSV Hospitalizations Dashboard



PREVIOUS

Groups Most Impacted: Emergency Department Visits

NEXT

Groups Most Impacted: Deaths

