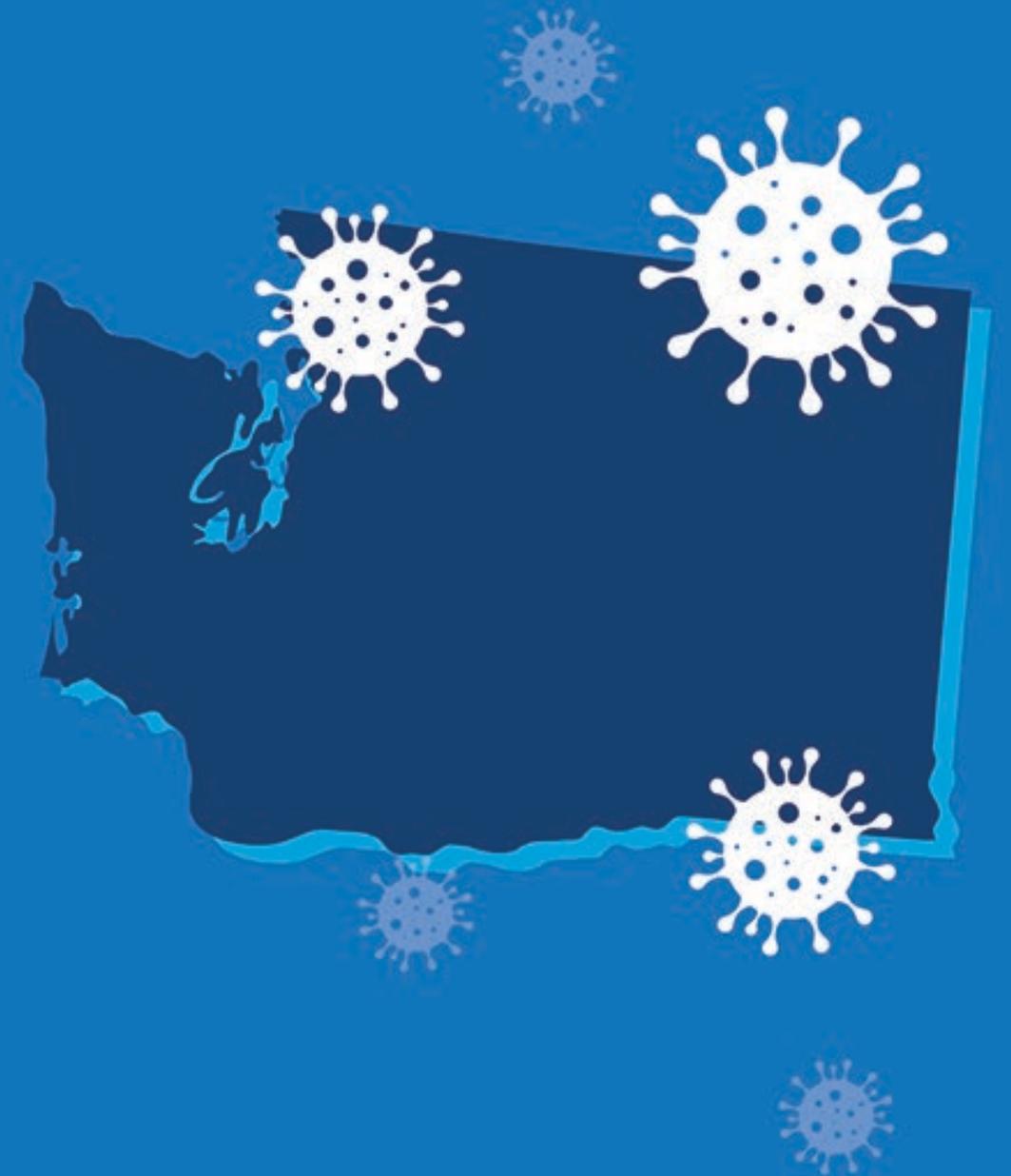


Criteria 5

The vaccine containing this antigen prevents disease(s) that has significant morbidity and/or mortality in at least some subset of the population.



COVID-19 Cases in Children Aged 0-17 in Washington State



Lora Davis, DVM, MPH

BIOGRAPHY

Started at DOH in November 2020

Team lead for Surveillance/Special Projects and Data Requests

20 YEARS EXPERIENCE IN PUBLIC HEALTH

- Global Health Consultant
- CDC - Center for Global Health & National Center for Zoonotic and Emerging Infectious Diseases
- WSDA – Surveillance for Highly Pathogenic Avian Influenza

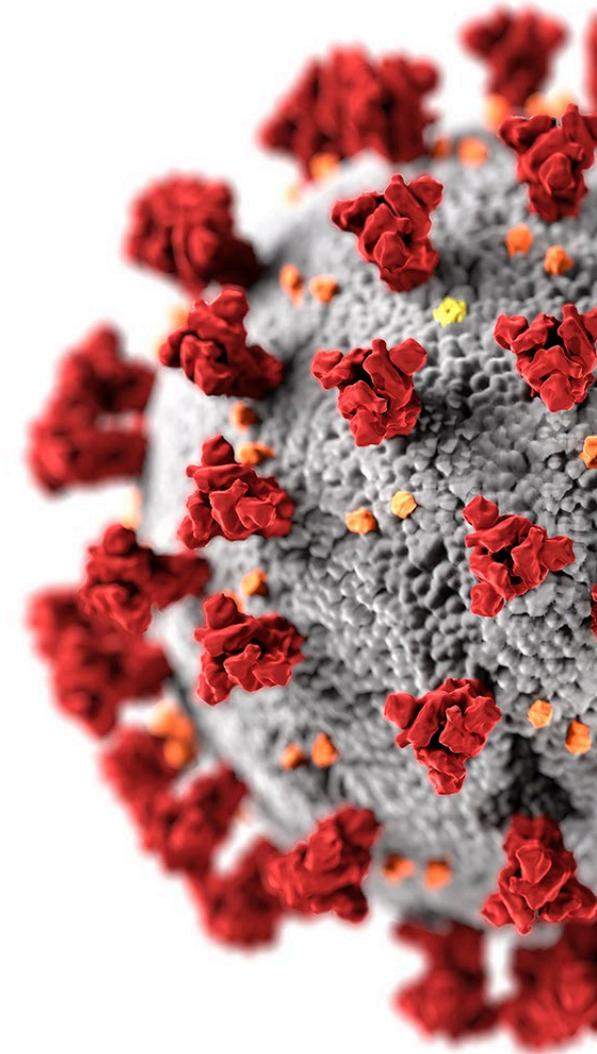
EDUCATION

- Master of Public Health, general epidemiology | University of Washington
- Doctor of Veterinary Medicine | Texas A&M University



Burden of COVID-19 in Children 0-17 Years, Washington State

- As of January 15, 2022: **221,390 pediatric COVID-19 cases**, representing 19% of all cases.
- **1 in 5 cases were in children** younger than 17 years of age since the *beginning of the pandemic*
- **1 in 4 cases were in children** younger than 17 years of age in the month of *January 2022*
- As of December 31, 2021, **93 confirmed cases of MIS-C** (Multisystem Inflammatory Syndrome in Children) have been reported in Washington



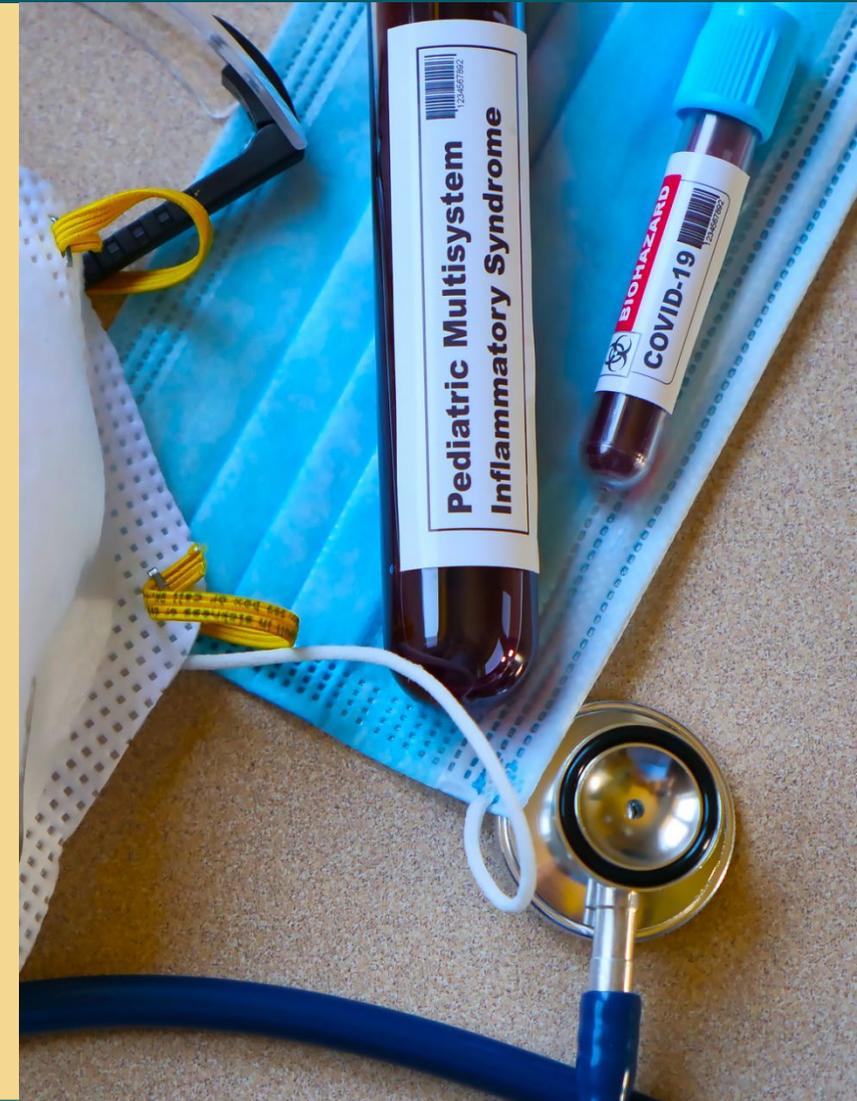
Multisystem Inflammatory Syndrome in Children (MIS-C)



- MIS-C is a condition where different body parts (organs) become inflamed after a COVID-19 infection. The heart, lungs, kidneys, brain, skin, eyes, or gastrointestinal organs can be affected.
- To be considered an MIS-C case a child must be less than 21 years of age and must either have had a positive COVID-19 test or a recent exposure to someone that had COVID-19.
- MIS-C is a serious condition that requires hospitalization.
- Most children diagnosed with this condition improve with medical care, but the condition can be fatal.

National MIS-C Data, February 2020 – January 3, 2022

- 6,431 cases of MIS-C have been reported in the United States
- 55 children in the U.S. with MIS-C have died
- Half of U.S. children with MIS-C were between the ages of 5 and 13 years
- Where race/ethnicity information was available, 59% of the children with MIS-were Hispanic/Latino or Black, Non-Hispanic
- 61% of reported patients were male



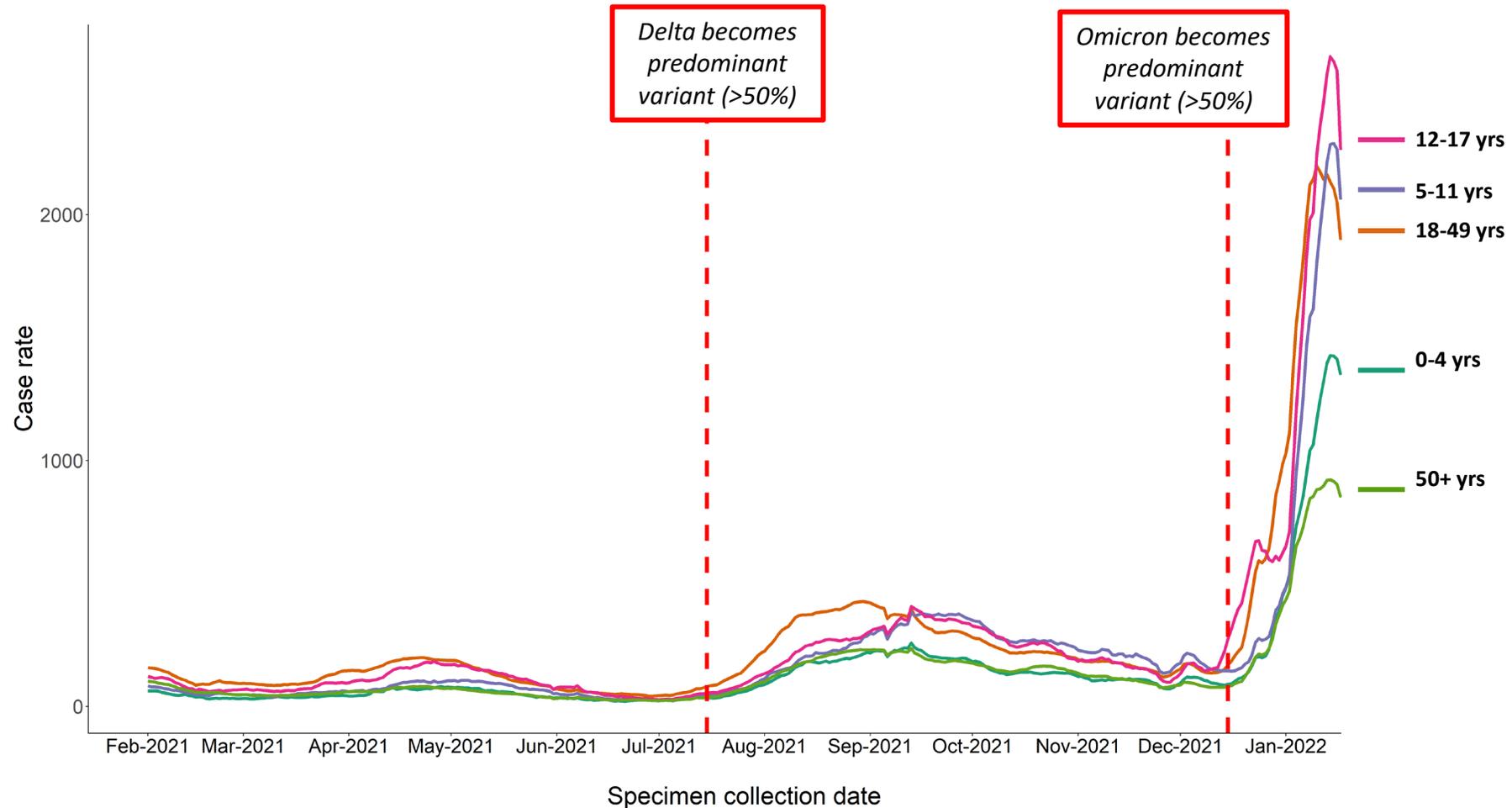
Washington MIS-C Data, February 2020 – December 2021

- The average hospital stay was 7 days (range 2 – 38 days)
- None of these children have died
- None of these children had received any COVID-19 vaccine doses

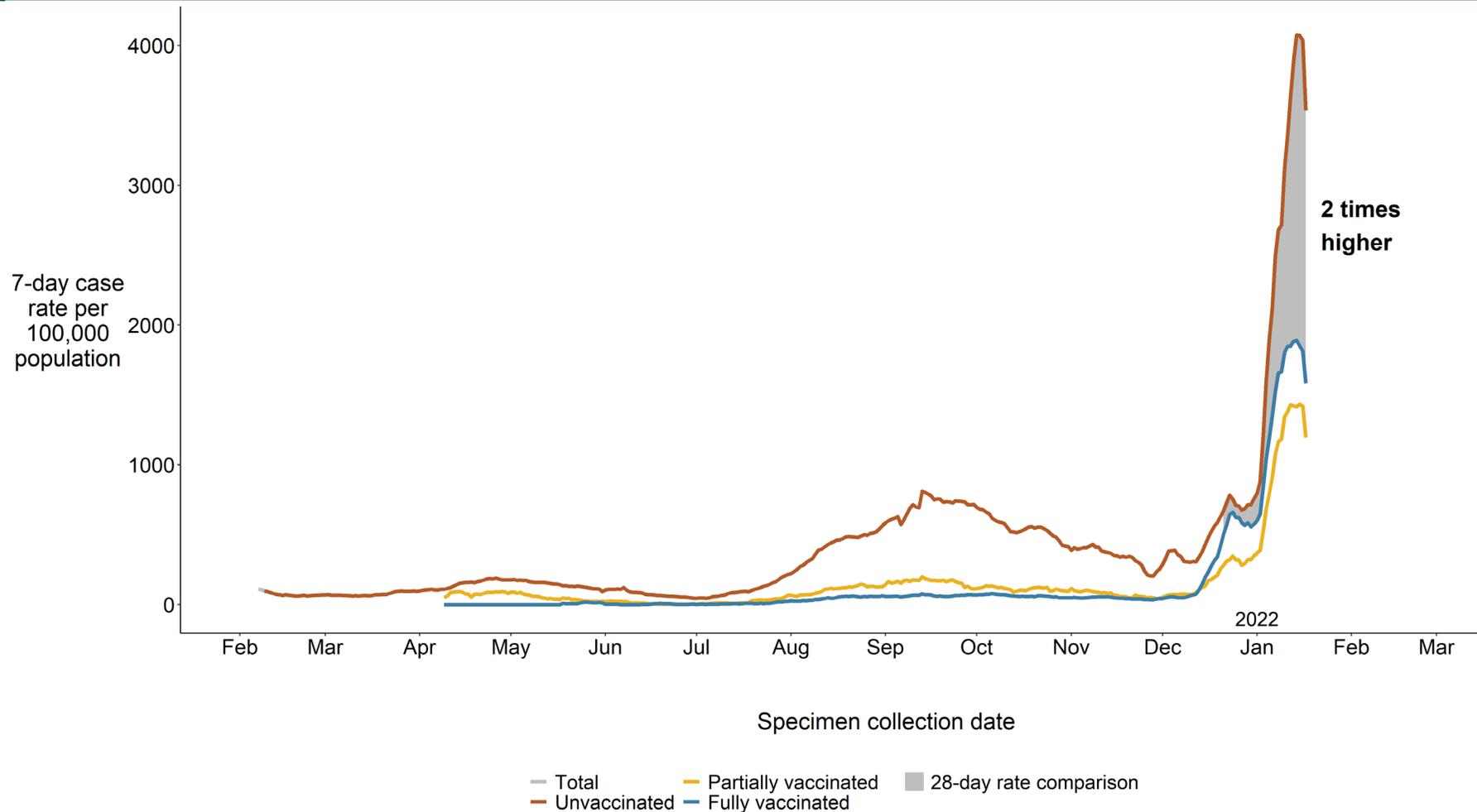
Patient age range	Number of reported cases of MIS-C (percent)		
	2020	2021	Total
0-9 years	19 (54.3%)	37 (63.8%)	56 (60.2%)
10-20 years	16 (45.7%)	21 (36.2%)	37 (39.8%)
Total	35 (100.0%)	58 (100.0%)	93 (100.0%)

Patient sex at birth	Number of reported cases of MIS-C (percent)		
	2020	2021	Total
Female	15 (42.9%)	27 (46.6%)	42 (45.2%)
Male	20 (57.1%)	31 (53.4%)	51 (54.8%)
Total	35 (100.0%)	58 (100.0%)	93 (100.0%)

7-Day Case Rates by Age Group, WA State February 2021 – January 2022



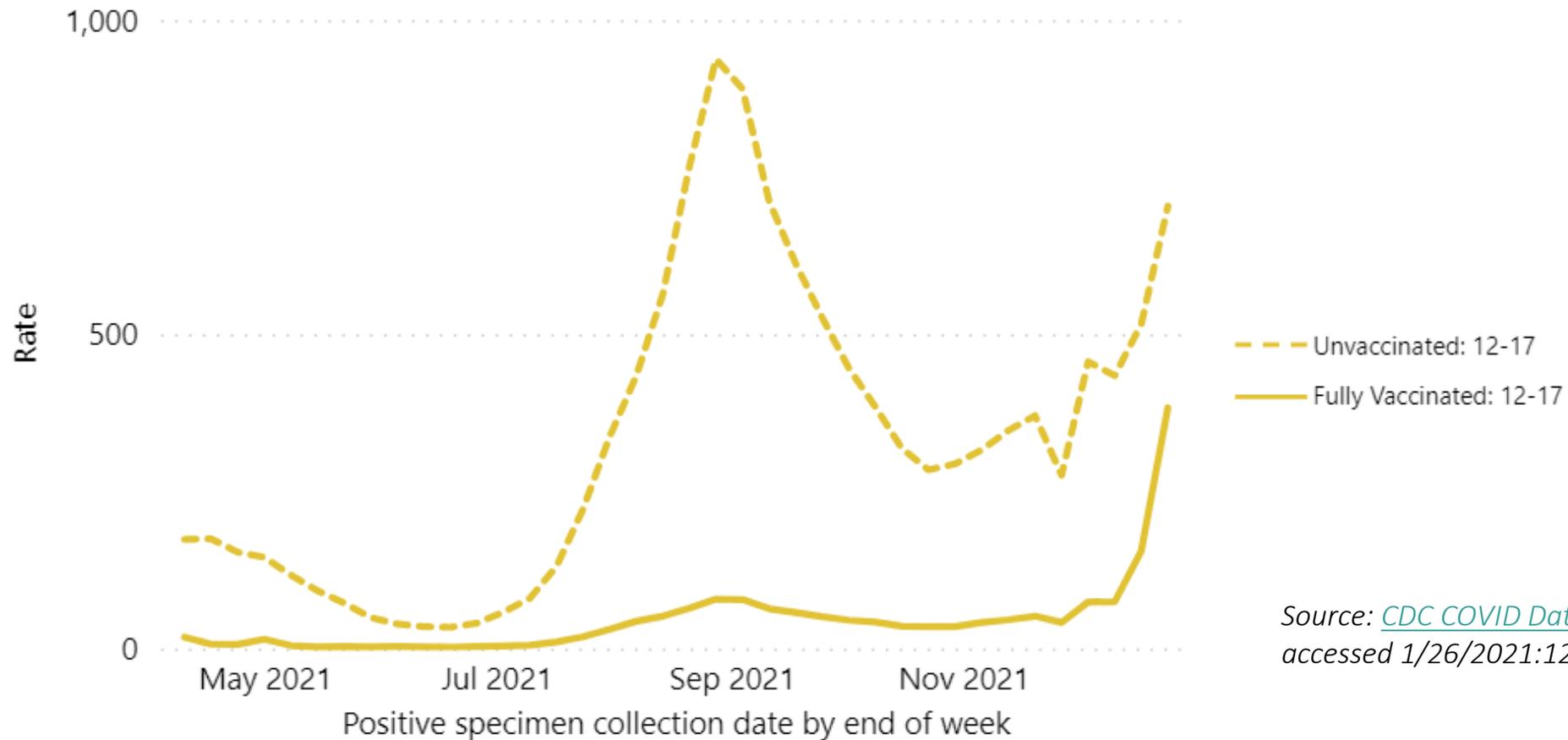
7-Day Case Rates for Children 12-17 Years by Vaccination Status, WA State February 2021 – January 2022



National Data:

Rates of COVID-19 Cases by Vaccination Status and Age Group

April 04 - December 25, 2021 (28 U.S. jurisdictions)

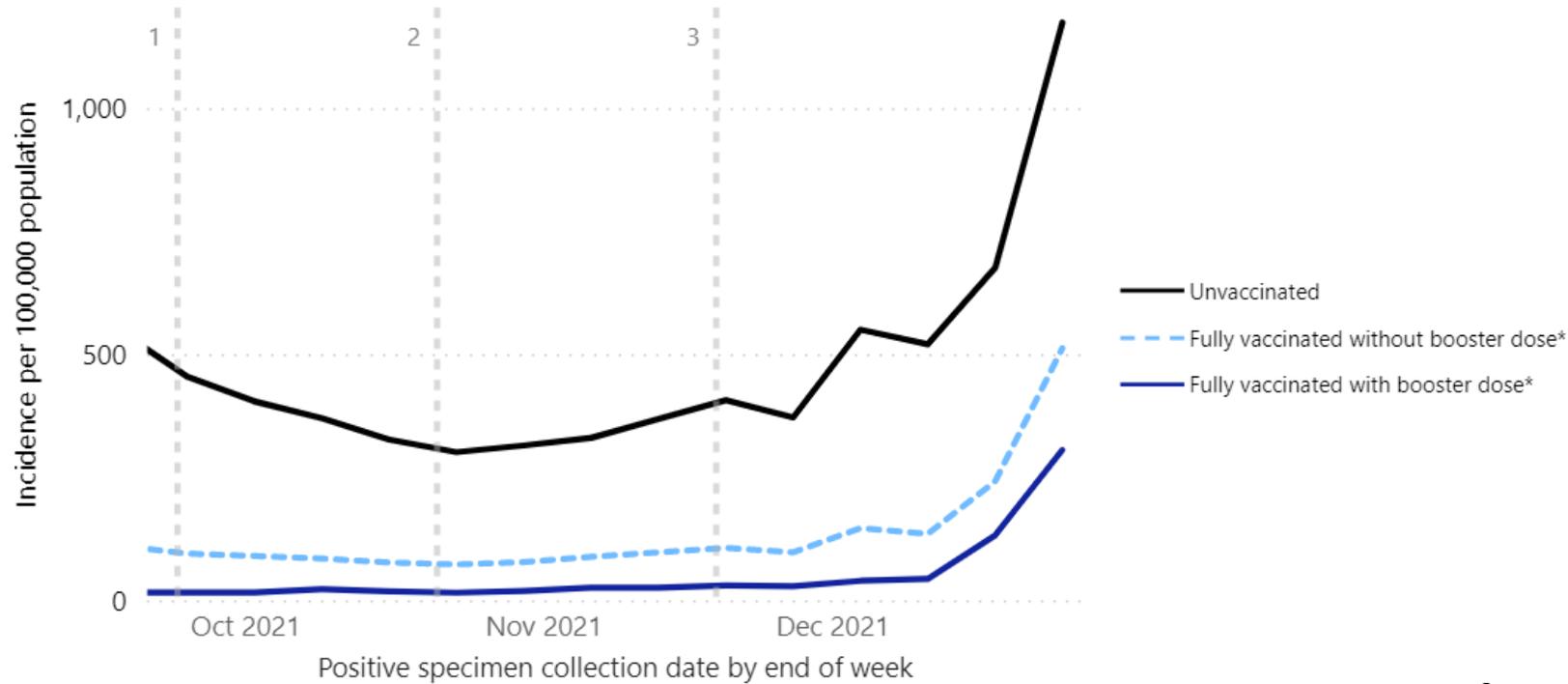


Source: [CDC COVID Data Tracker](#); accessed 1/26/2021:12:28pm

National Data

Rates of COVID-19 Cases by Vaccination Status and Booster Dose*

August 29 - December 25, 2021 (25 U.S. jurisdictions)



Source: [CDC COVID Data Tracker](#); accessed 1/27/2021:13:54

In November, unvaccinated adults aged 18 years and older had:

13X

Risk of Testing Positive for COVID-19

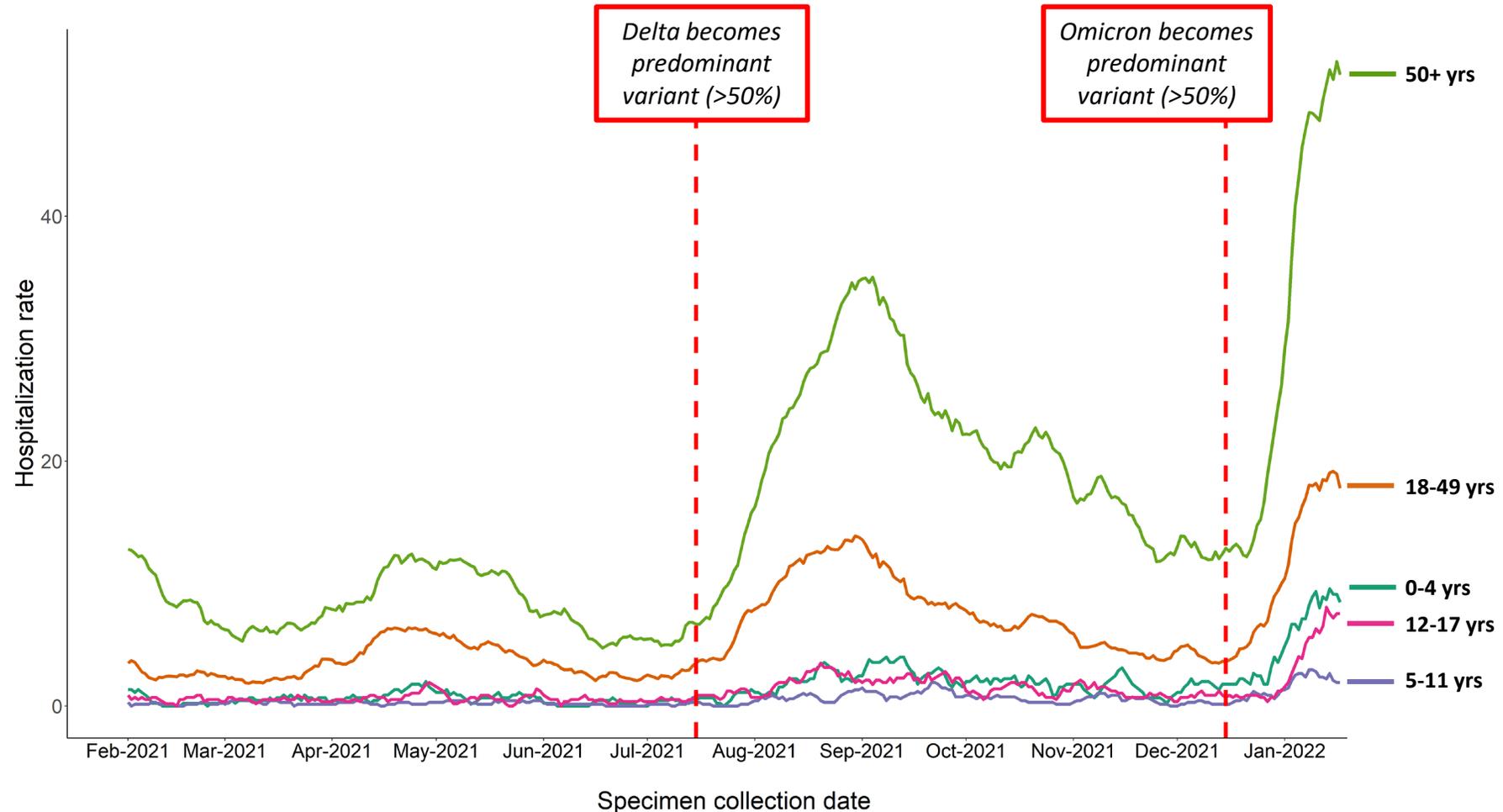
AND

68X

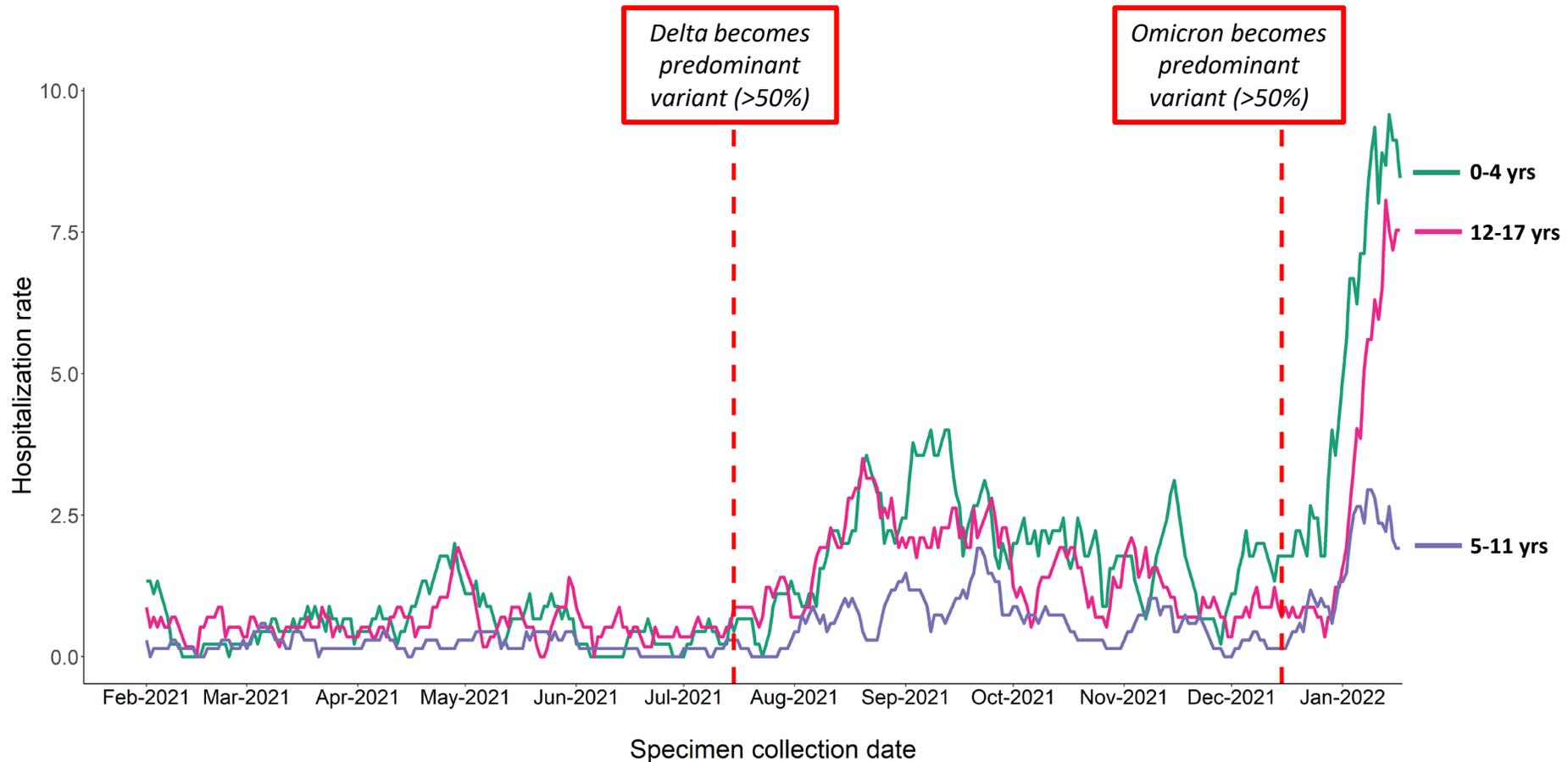
Risk of Dying from COVID-19

compared to fully vaccinated adults with booster doses*

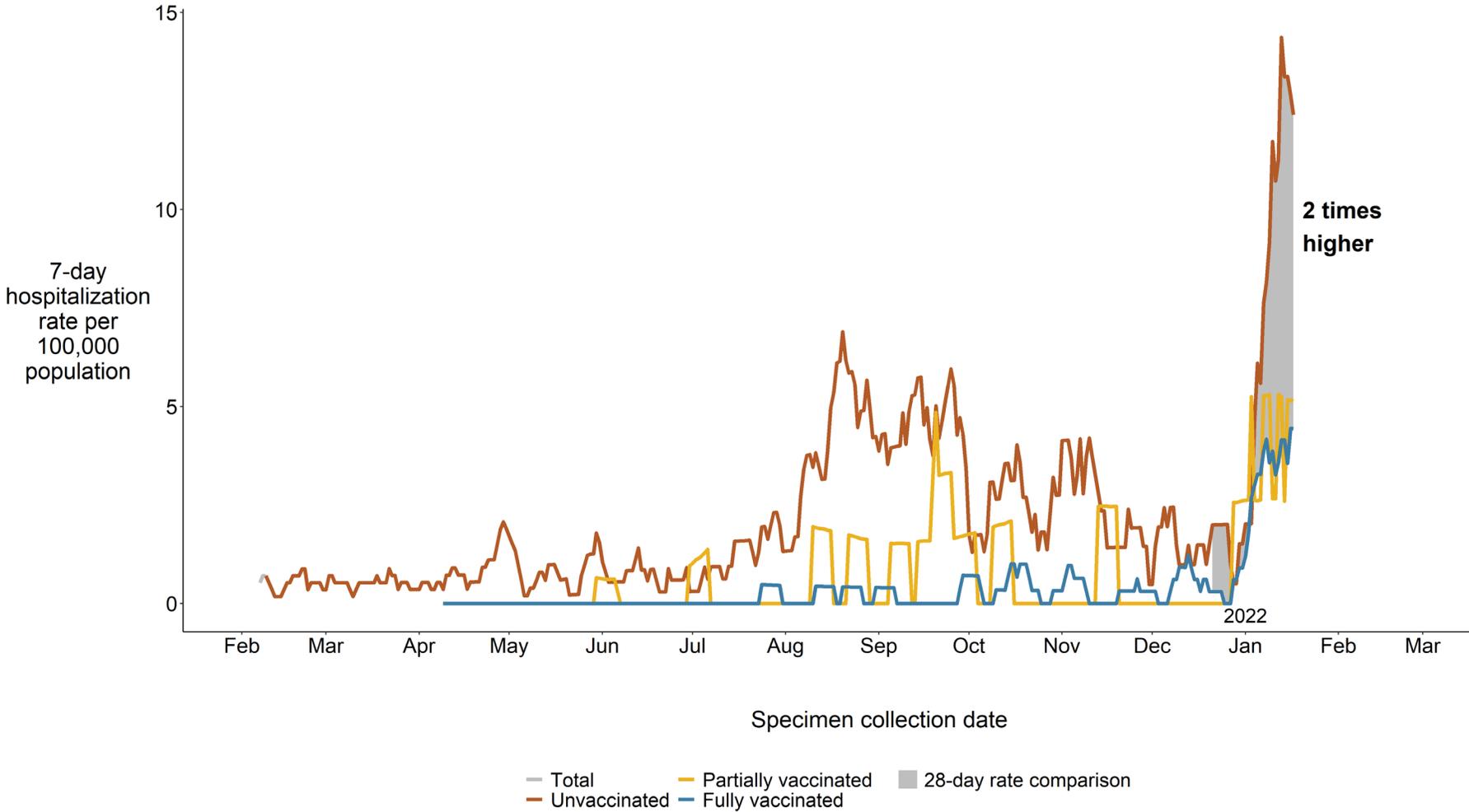
7-Day Hospitalization Rates by Age Group, WA State February 2021 – January 2022



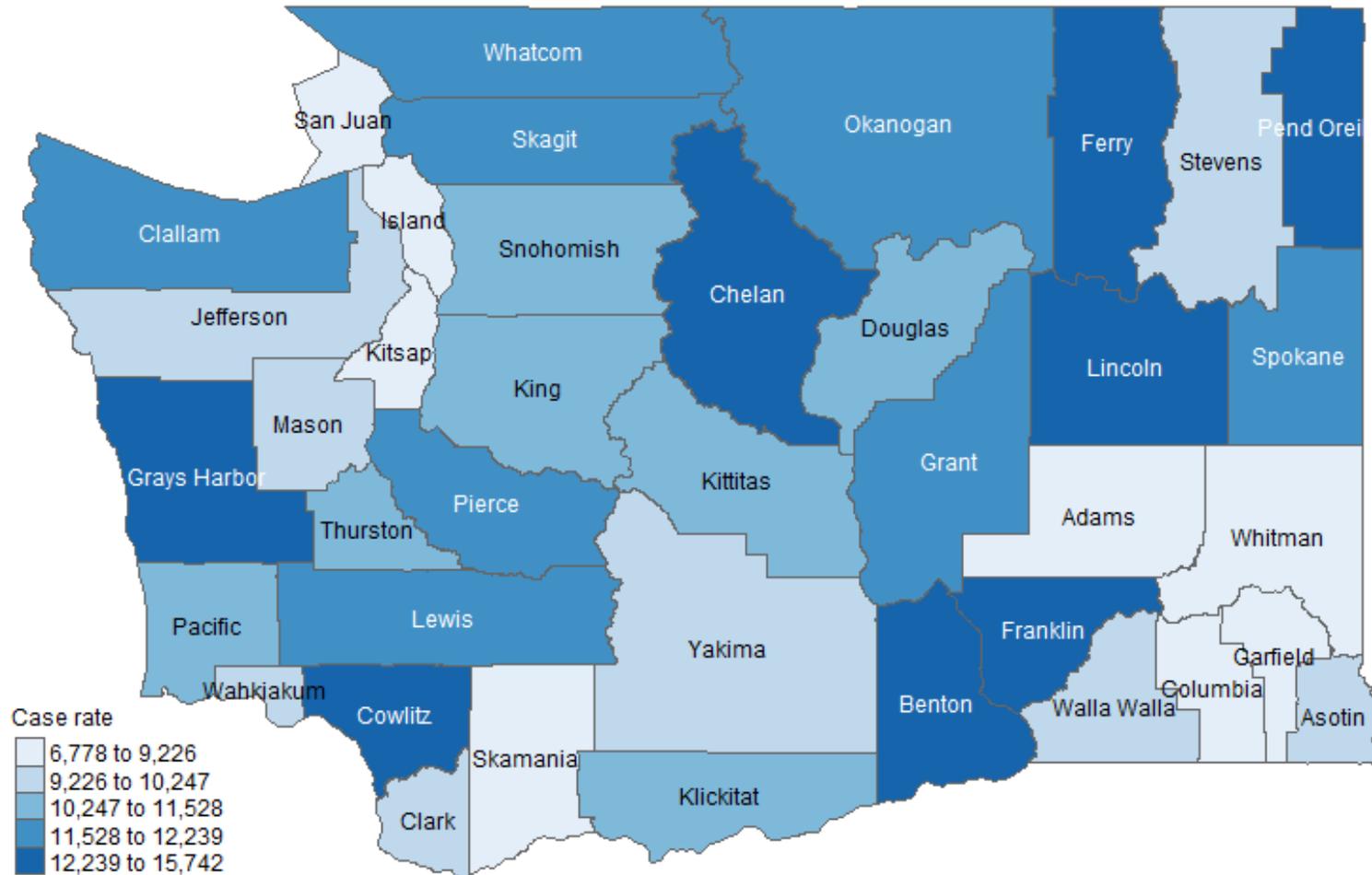
7-Day Hospitalization Rates for Children 0-17 Years by Age Group, WA State February 2021 – January 2022



7-Day Hospitalization Rates for Children 12-17 Years by Vaccination Status, WA State February 2021 – January 2022

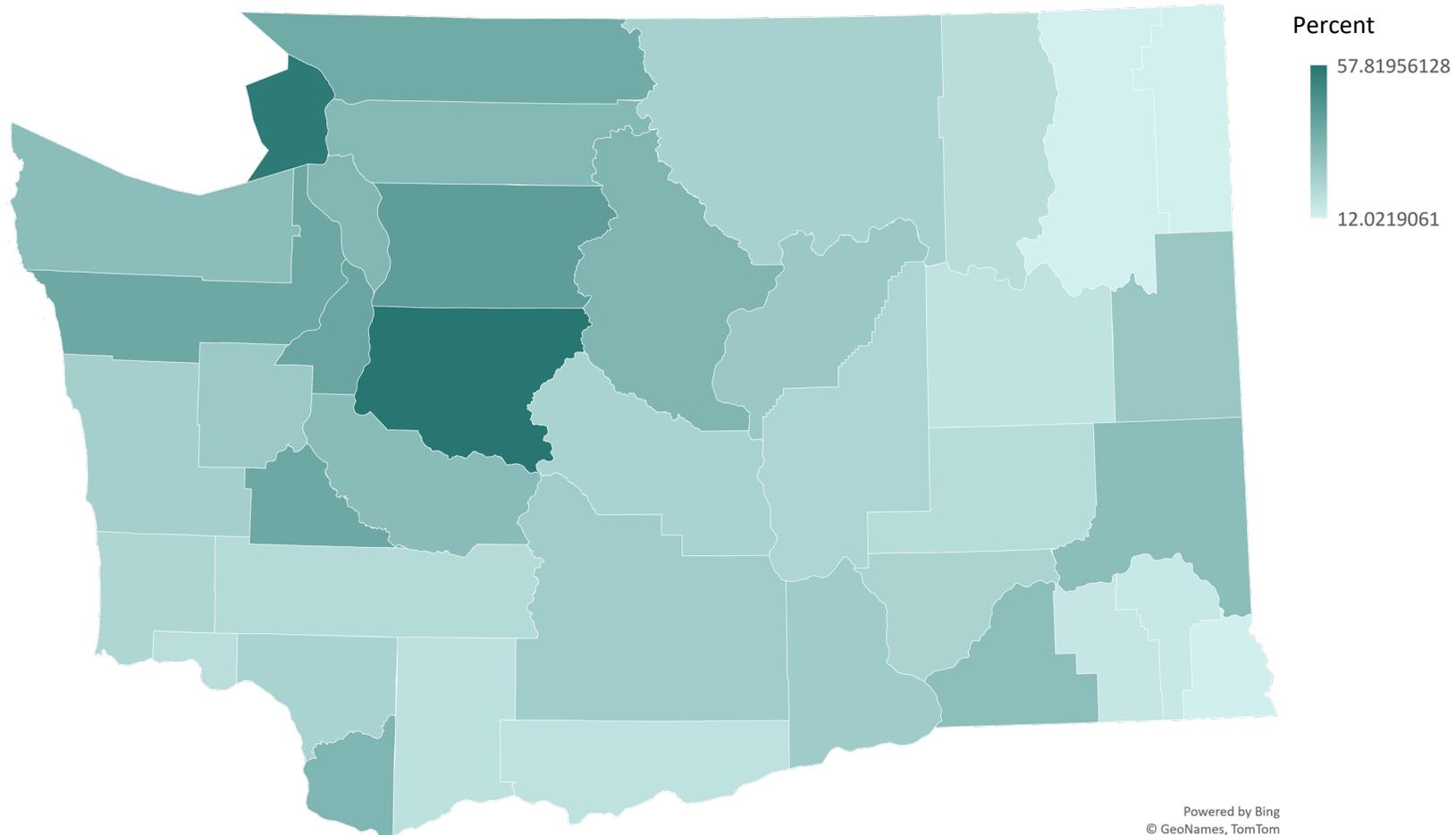


Annual Case Rate per 100,000 Population in Children 0-17 Years February 2021 – January 2022



* Cases reported from February 1, 2021 to January 17, 2022 are included in annual case rate calculations in the map.

Percent Fully Vaccinated for COVID-19 per County in Youth 12-17 Years February 2021 – January 30, 2022



Percent Fully Vaccinated by 7-Day Case Rate per County in Children 12-17 years February 2021 – January 2022

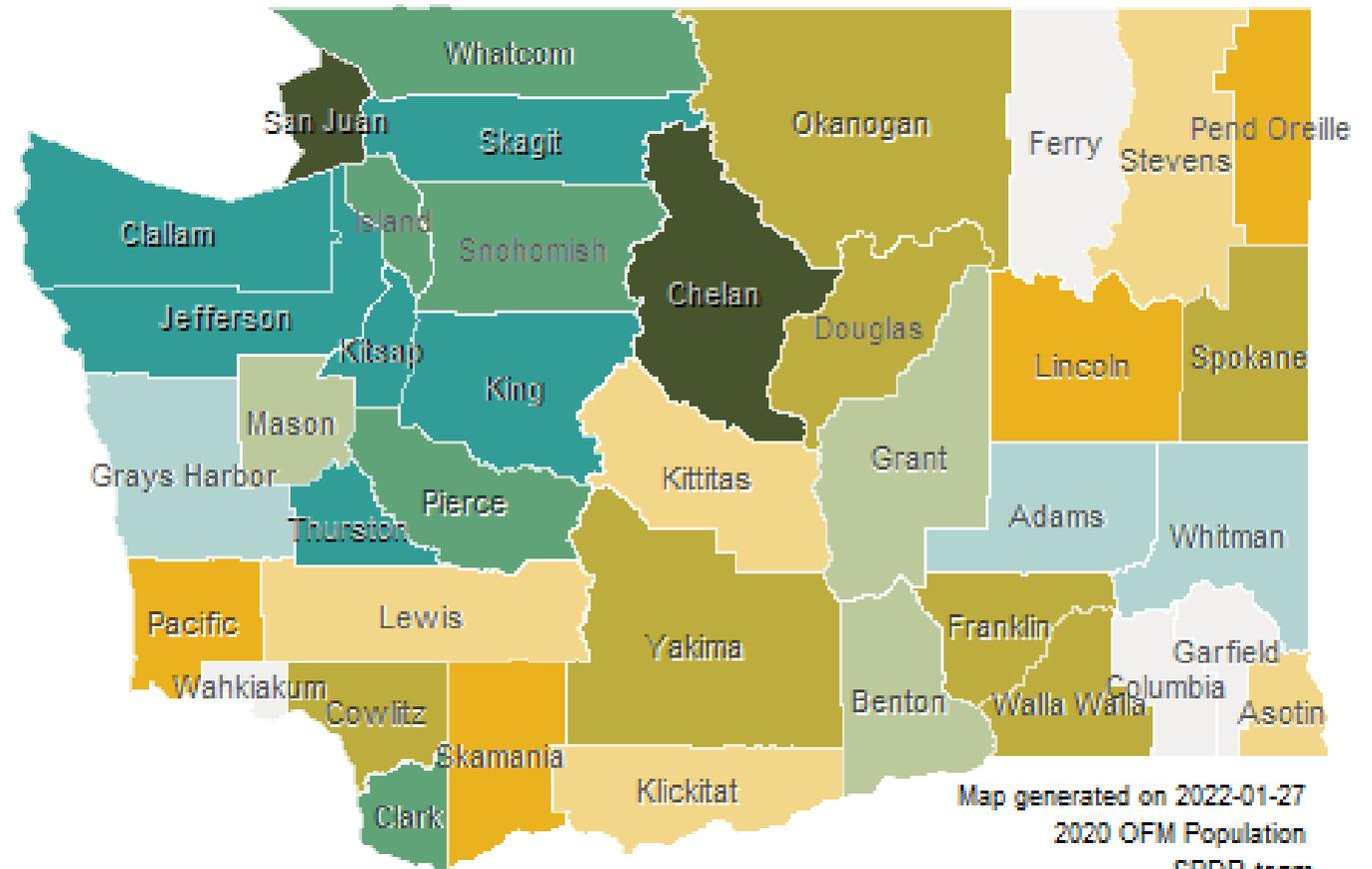
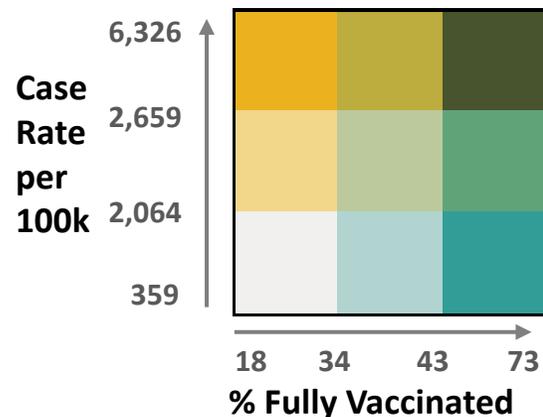
Vaccination as of Date:

January 24, 2022

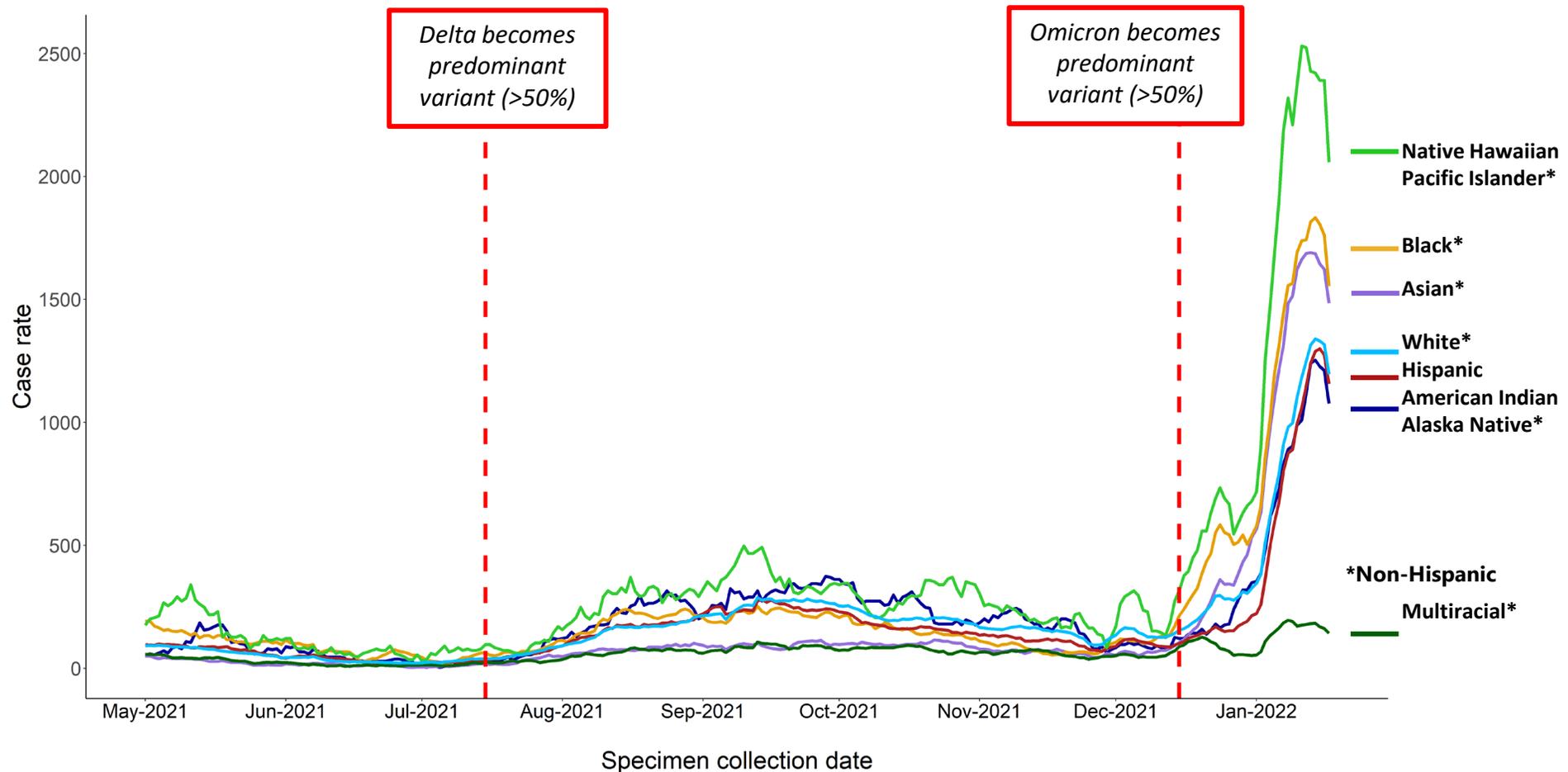
7-day Case Rate as of Date:

January 27, 2022

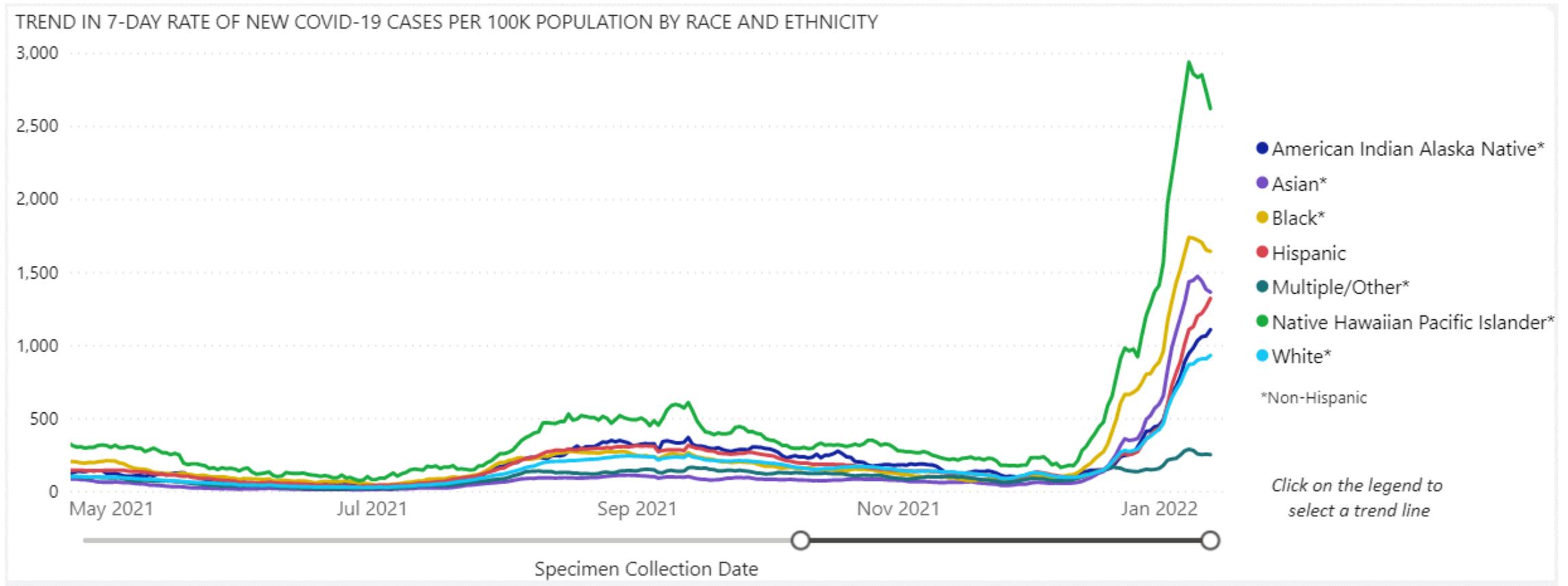
(7-day range 1/12 to 1/18)



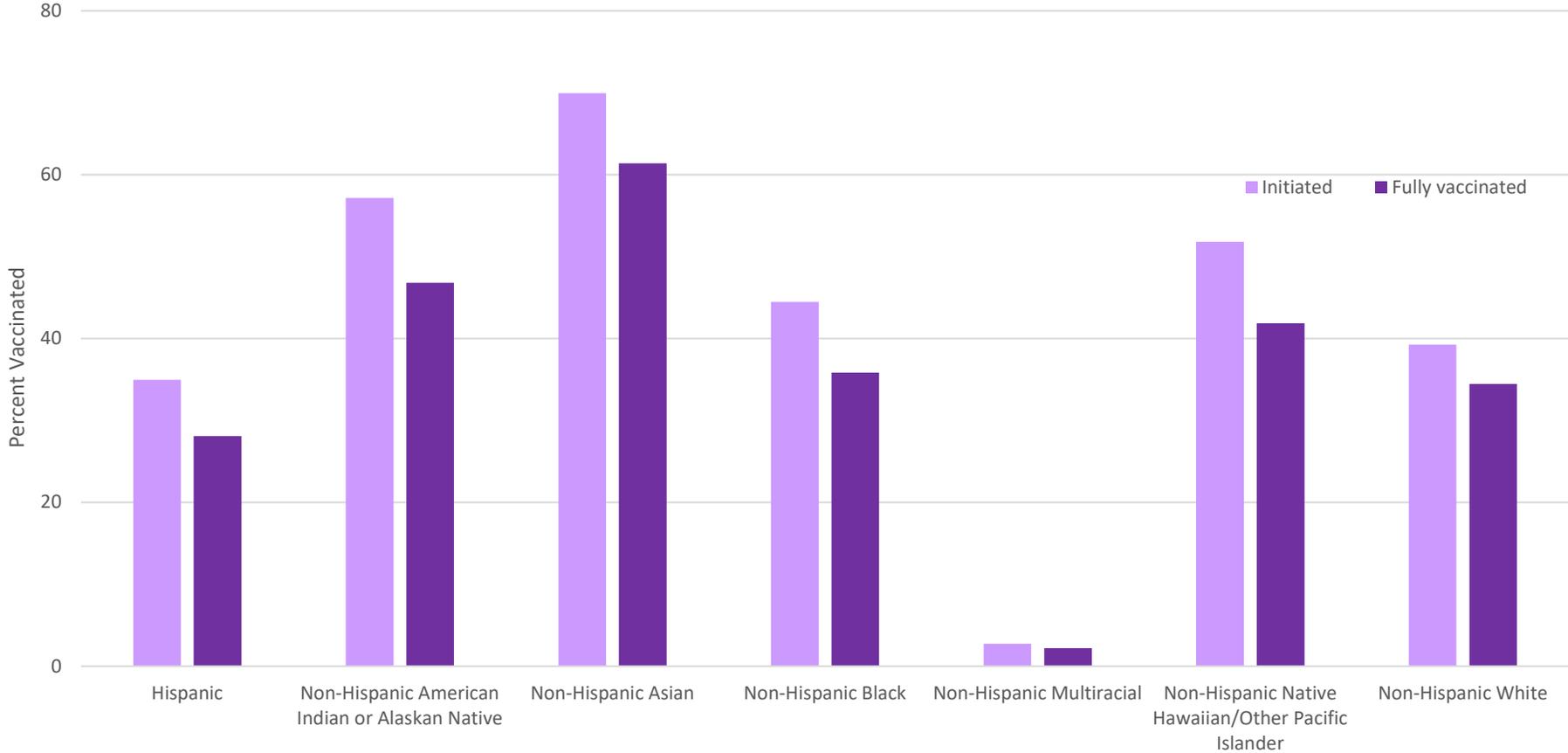
7-Day Case Rates for Children 0-17 years by Race and Ethnicity, WA State February 2021 – January 2022



7-Day Case Rates in All Ages by Race and Ethnicity, WA State February 2021 – January 2022

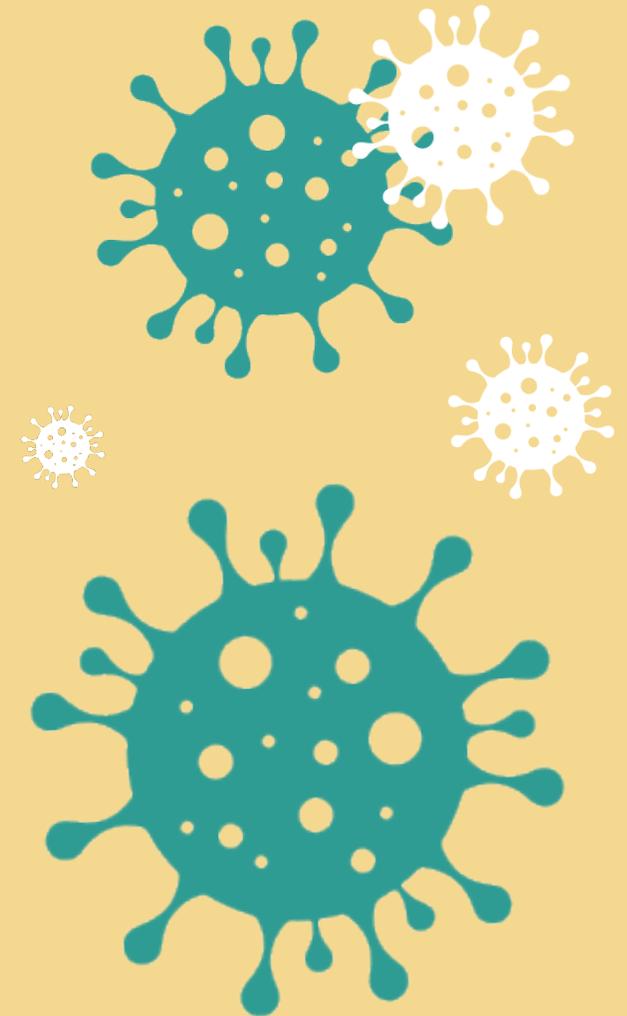


Percent Vaccinated against COVID-19 in Children and Youth 5-17 years, by Race and Ethnicity, Washington State



Deaths Due to COVID-19 in Children 0-17 Years, Washington State

- **Eleven (11) deaths due to COVID-19 in children** 0-17 years of age between July 2020 and October 2021
 - 3 children 0-4 years old
 - 1 child 5-11 years old
 - 7 children 12-17 years old
- **Four (36%) Hispanic**
- **Three (27%) Non-Hispanic White**
- **Seven deaths** before the Delta surge
- **Four deaths** after the Delta surge (between July 2021 and October 2021)



Leading Causes of Death in Children 5-9 Years from January-December 2020, United States

15 Leading Causes of Death ↓	→ Deaths ↑↓	↔ Population ↑↓	← Crude Rate Per 100,000 ↑↓
#Accidents (unintentional injuries) (V01-X59,Y85-Y86)	685	20,237,711	3.4
#Malignant neoplasms (C00-C97)	382	20,237,711	1.9
#Congenital malformations, deformations and chromosomal abnormalities (Q00-Q99)	171	20,237,711	0.8
#Assault (homicide) (*U01-*U02,X85-Y09,Y87.1)	169	20,237,711	0.8
#Diseases of heart (I00-I09,I11,I13,I20-I51)	56	20,237,711	0.3
#Influenza and pneumonia (J09-J18)	55	20,237,711	0.3
#Chronic lower respiratory diseases (J40-J47)	54	20,237,711	0.3
#Cerebrovascular diseases (I60-I69)	32	20,237,711	0.2
#In situ neoplasms, benign neoplasms and neoplasms of uncertain or unknown behavior (D00-D48)	28	20,237,711	0.1
#Intentional self-harm (suicide) (*U03,X60-X84,Y87.0)	20	20,237,711	0.1
#Septicemia (A40-A41)	18	20,237,711	Unreliable
#COVID-19 (U07.1)	17	20,237,711	Unreliable
#Certain conditions originating in the perinatal period (P00-P96)	16	20,237,711	Unreliable
#Complications of medical and surgical care (Y40-Y84,Y88)	10	20,237,711	Unreliable
#Anemias (D50-D64)	10	20,237,711	Unreliable

Note: A '#' symbol preceding the label indicates a rankable cause of death. [More information.](#)

Source: [Underlying Cause of Death, 1999-2020 Results Form \(cdc.gov\)](#); accessed 1/31/2021:17:30

Leading Causes of Death in Children 10-14 Years from January-December 2020, United States

15 Leading Causes of Death ↓	→ Deaths ↑↓	↔ Population ↑↓	← Crude Rate Per 100,000 ↑↓
#Accidents (unintentional injuries) (V01-X59,Y85-Y86)	881	20,754,423	4.2
#Intentional self-harm (suicide) (*U03,X60-X84,Y87.0)	581	20,754,423	2.8
#Malignant neoplasms (C00-C97)	410	20,754,423	2.0
#Assault (homicide) (*U01-*U02,X85-Y09,Y87.1)	285	20,754,423	1.4
#Congenital malformations, deformations and chromosomal abnormalities (Q00-Q99)	150	20,754,423	0.7
#Diseases of heart (I00-I09,I11,I13,I20-I51)	111	20,754,423	0.5
#Chronic lower respiratory diseases (J40-J47)	93	20,754,423	0.4
#Diabetes mellitus (E10-E14)	50	20,754,423	0.2
#Influenza and pneumonia (J09-J18)	50	20,754,423	0.2
#Cerebrovascular diseases (I60-I69)	44	20,754,423	0.2
#COVID-19 (U07.1)	32	20,754,423	0.2
#In situ neoplasms, benign neoplasms and neoplasms of uncertain or unknown behavior (D00-D48)	27	20,754,423	0.1
#Septicemia (A40-A41)	17	20,754,423	Unreliable
#Certain conditions originating in the perinatal period (P00-P96)	13	20,754,423	Unreliable
#Anemias (D50-D64)	12	20,754,423	Unreliable

Note: A '#' symbol preceding the label indicates a rankable cause of death. [More information.](#)

Source: [Underlying Cause of Death, 1999-2020 Results Form \(cdc.gov\)](#); accessed 1/31/2021:17:30

Leading Causes of Death in Youth 15-19 Years from January-December 2020, United States

15 Leading Causes of Death ↓	→ Deaths ↑↓	↔ Population ↑↓	← Crude Rate Per 100,000 ↑↓
#Accidents (unintentional injuries) (V01-X59,Y85-Y86)	4,654	20,960,929	22.2
#Assault (homicide) (*U01-*U02,X85-Y09,Y87.1)	2,572	20,960,929	12.3
#Intentional self-harm (suicide) (*U03,X60-X84,Y87.0)	2,216	20,960,929	10.6
#Malignant neoplasms (C00-C97)	549	20,960,929	2.6
#Diseases of heart (I00-I09,I11,I13,I20-I51)	294	20,960,929	1.4
#Congenital malformations, deformations and chromosomal abnormalities (Q00-Q99)	184	20,960,929	0.9
#COVID-19 (U07.1)	118	20,960,929	0.6
#Diabetes mellitus (E10-E14)	93	20,960,929	0.4
#Chronic lower respiratory diseases (J40-J47)	90	20,960,929	0.4
#Cerebrovascular diseases (I60-I69)	75	20,960,929	0.4
#Influenza and pneumonia (J09-J18)	64	20,960,929	0.3
#Legal intervention (Y35,Y89.0)	44	20,960,929	0.2
#Pregnancy, childbirth and the puerperium (O00-O99)	36	20,960,929	0.2
#Septicemia (A40-A41)	34	20,960,929	0.2
#In situ neoplasms, benign neoplasms and neoplasms of uncertain or unknown behavior (D00-D48)	29	20,960,929	0.1

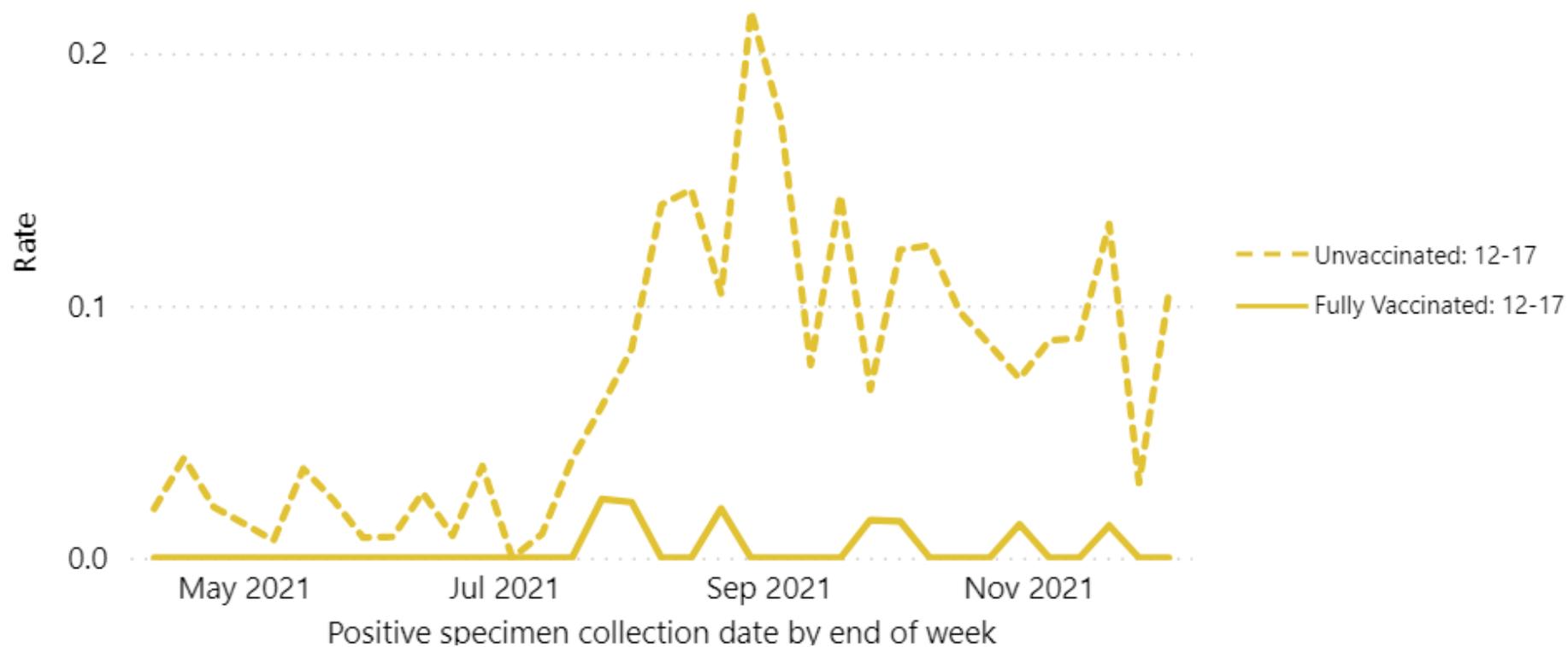
Note: A '#' symbol preceding the label indicates a rankable cause of death. [More information.](#)

Source: [Underlying Cause of Death, 1999-2020 Results Form \(cdc.gov\)](#); accessed 1/31/2021:17:30

National Data:

Rates of COVID-19 Deaths by Vaccination Status and Age Group

April 04 - December 04, 2021 (28 U.S. jurisdictions)



Source: [CDC COVID Data Tracker](#); accessed 1/26/2021:12:28pm

Questions?

References

1. Washington State Department of Health Data: WDRS, WAIS
2. Washington State Department of Health MIS-C Report: <https://www.doh.wa.gov/Portals/1/Documents/1600/coronavirus/data-tables/MultisystemInflammatorySyndromeChildrenCOVID19WA2020.pdf>
3. CDC COVID19 Tracker: https://covid.cdc.gov/covid-data-tracker/?fbclid=IwAR1awz4y89UoQCGQkoY8xg9FNTWkFi8hJyAygVb6ETK9N6fyllOS_AVExL0#rates-by-vaccine-status
4. CDC Wonder Data: <https://wonder.cdc.gov/>
5. CDC MIS-C Data: <https://www.cdc.gov/mis/index.html>



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