



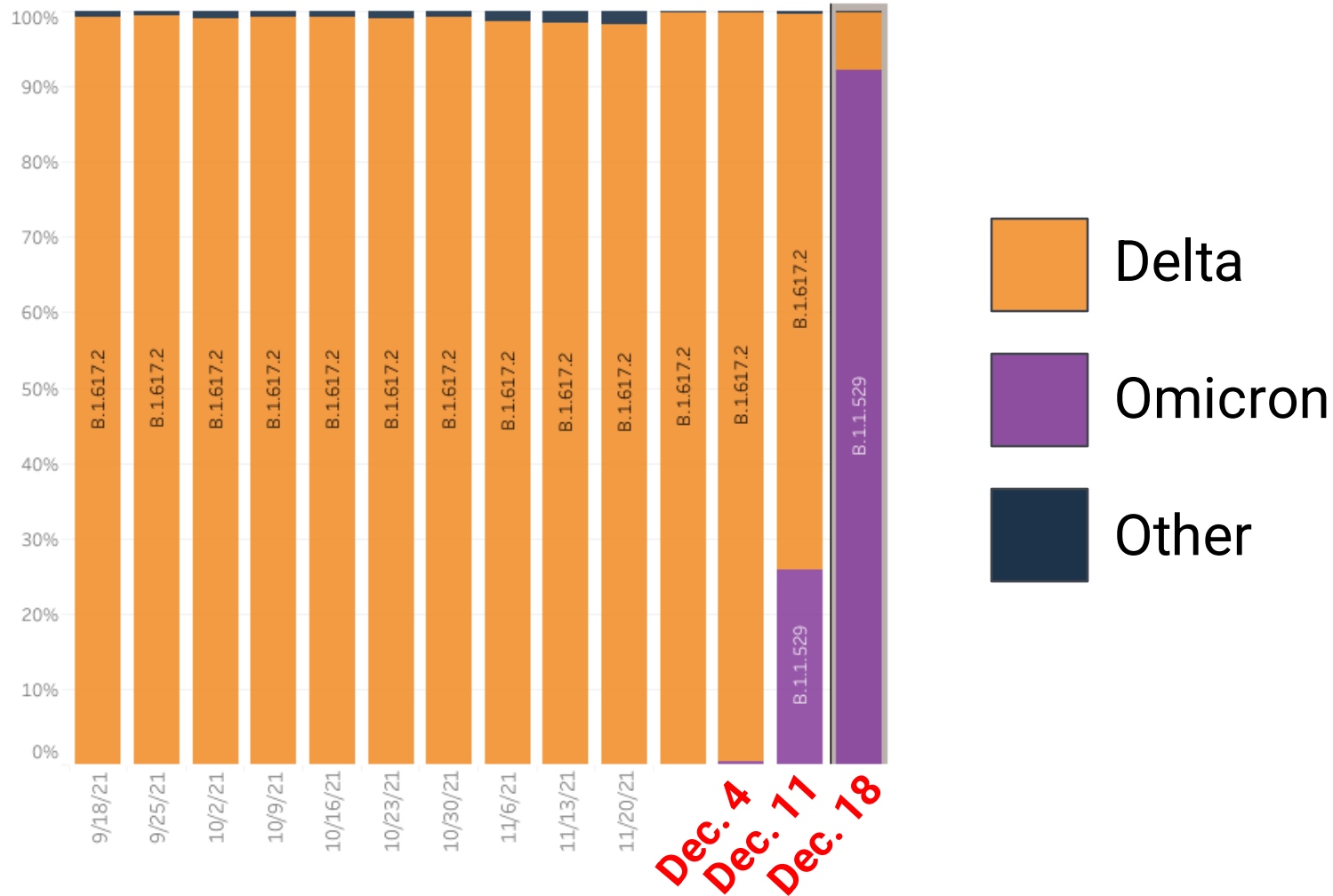
Ask Dr. Arwady

12/23/2021

Guest: Alderman Pat Dowell (3rd Ward)

Chairman, Committee on Budget and Government Operations

What changed in the last week? Omicron is now the dominant variant across the U.S. and in the Midwest





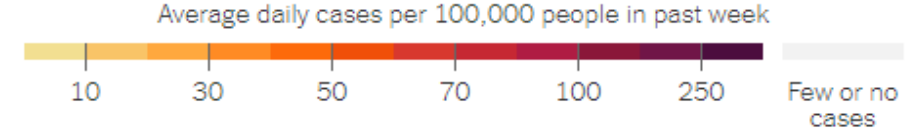
Chicago COVID-19 Community Transmission and Risk Matrix

	VERY HIGH TRANSMISSION	HIGH TRANSMISSION	SUBSTANTIAL TRANSMISSION	LOWER TRANSMISSION	LOW TRANSMISSION
COVID-19 CASES DIAGNOSED PER DAY Chicago residents - 7-day rolling daily average	800+ Current: 2,345 Increasing	400 - 799	200 - 399	20 - 199	<20
COVID-19 TEST POSITIVITY Chicago residents - 7-day rolling daily average	10%+	6.6 - 9.9% Current: 8.6% Increasing	5.0 - 6.5%	2 - 4.9%	<2%
HOSPITAL BEDS (NON-ICU) OCCUPIED BY COVID PATIENTS Chicago hospitals - 7-day rolling daily average	1250+	750 - 1249	250 - 749 Current: 596 Increasing	100 - 249	<100
ICU BEDS OCCUPIED BY COVID PATIENTS Chicago hospitals - 7-day rolling daily average	400+	300 - 399	100 - 299 Current: 182 Increasing	20 - 99	<20

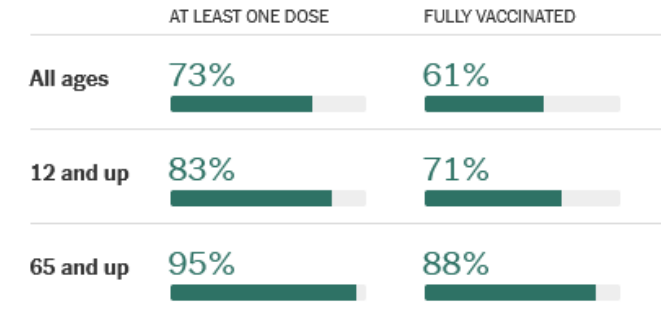
Source: Chicago Department of Public Health, data current as of December 23, 2021. These metrics represent general community COVID transmission and should not be applied to individual settings that have mitigation practices in place.

Average daily COVID-19 cases per 100,000 population

51 Million Cumulative Cases
806,335 Cumulative Deaths



Vaccinations



National currently:

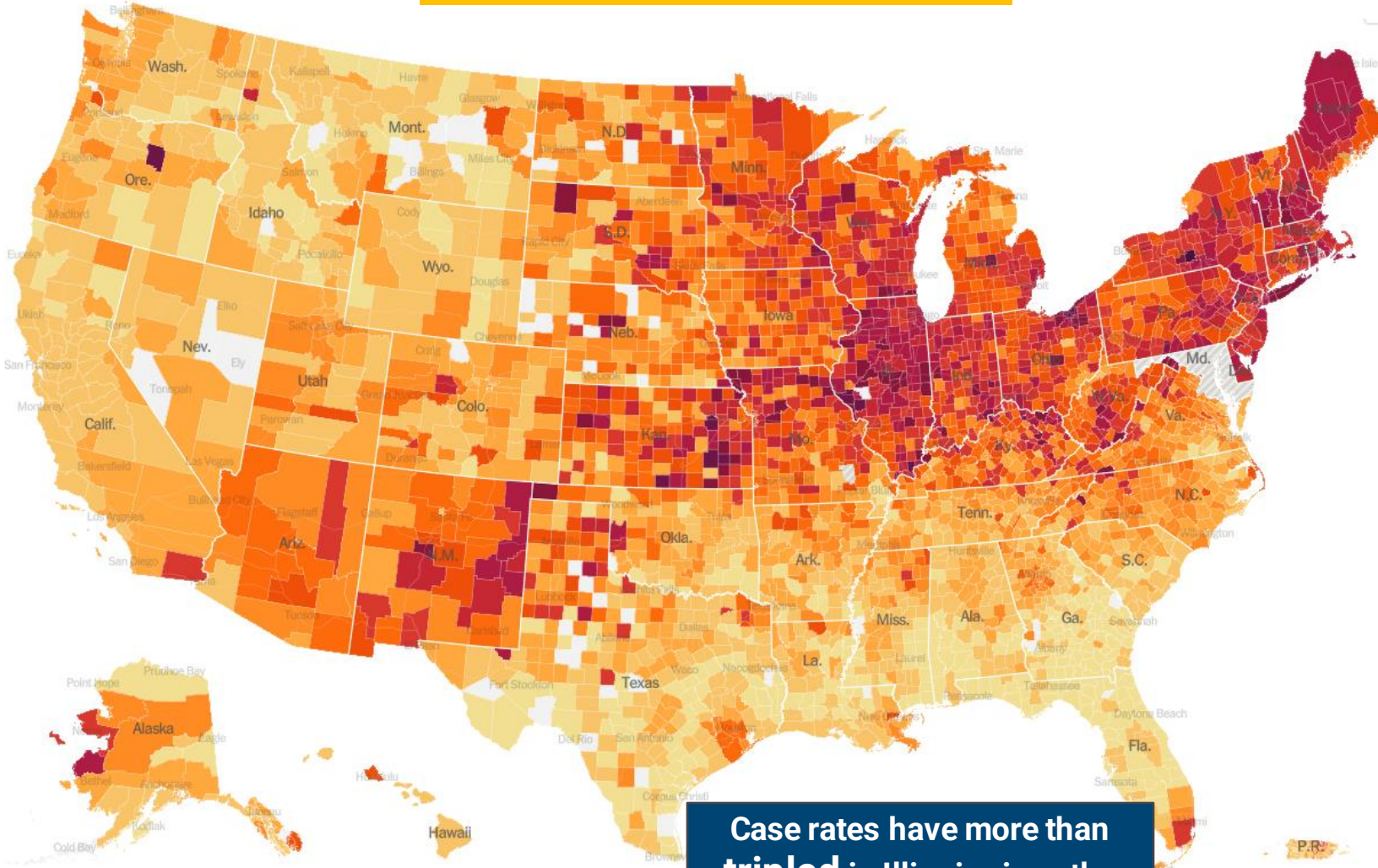
43 diagnosed daily cases per 100,000 people

Illinois currently:

80 diagnosed daily cases per 100,000 people

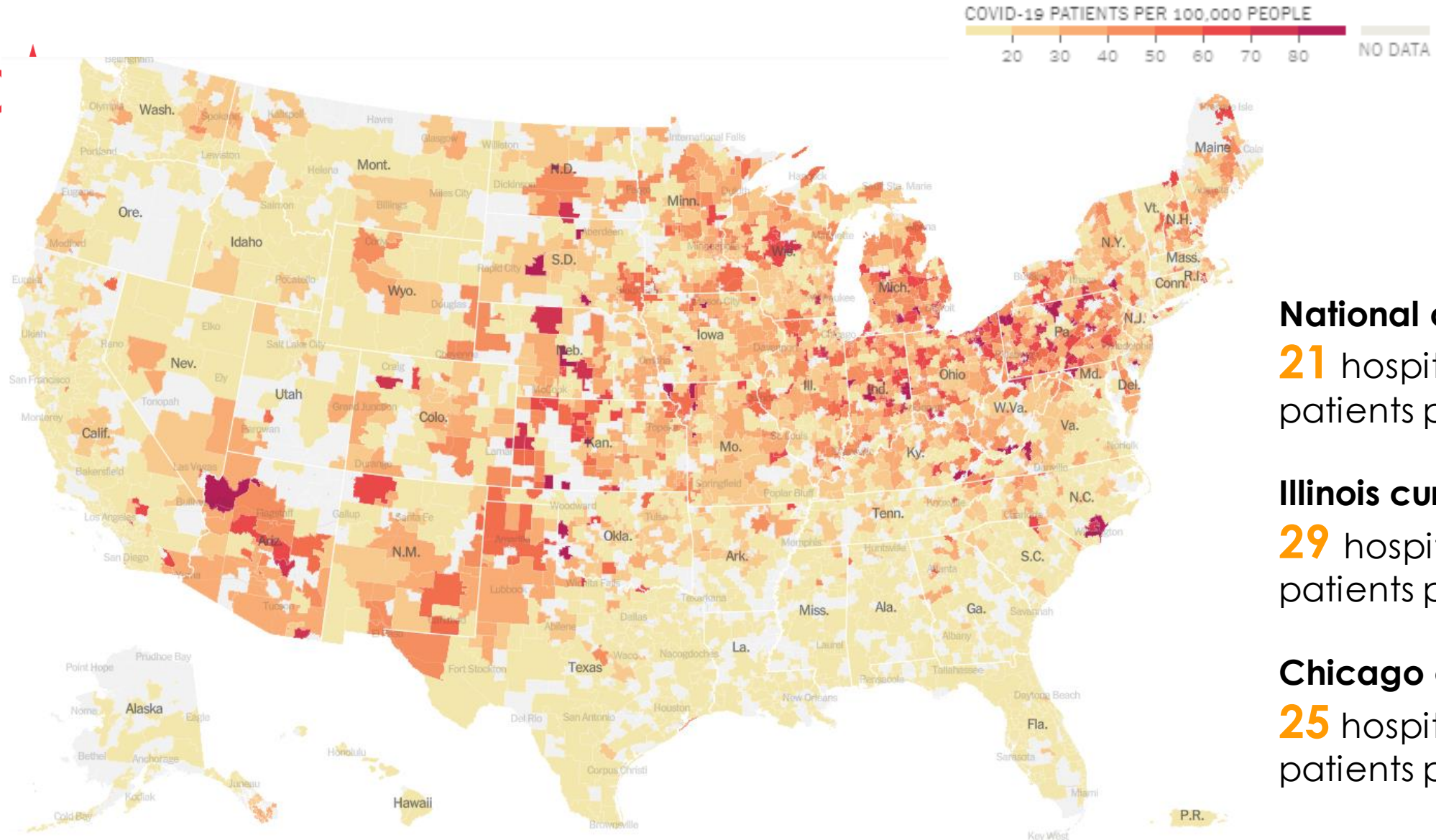
Chicago currently:

76 diagnosed daily cases per 100,000 people



Case rates have more than tripled in Illinois since the beginning of November

Average daily COVID-19 hospitalizations per 100,000 population



National currently:

21 hospitalized COVID-19 patients per 100,000 people

Illinois currently:

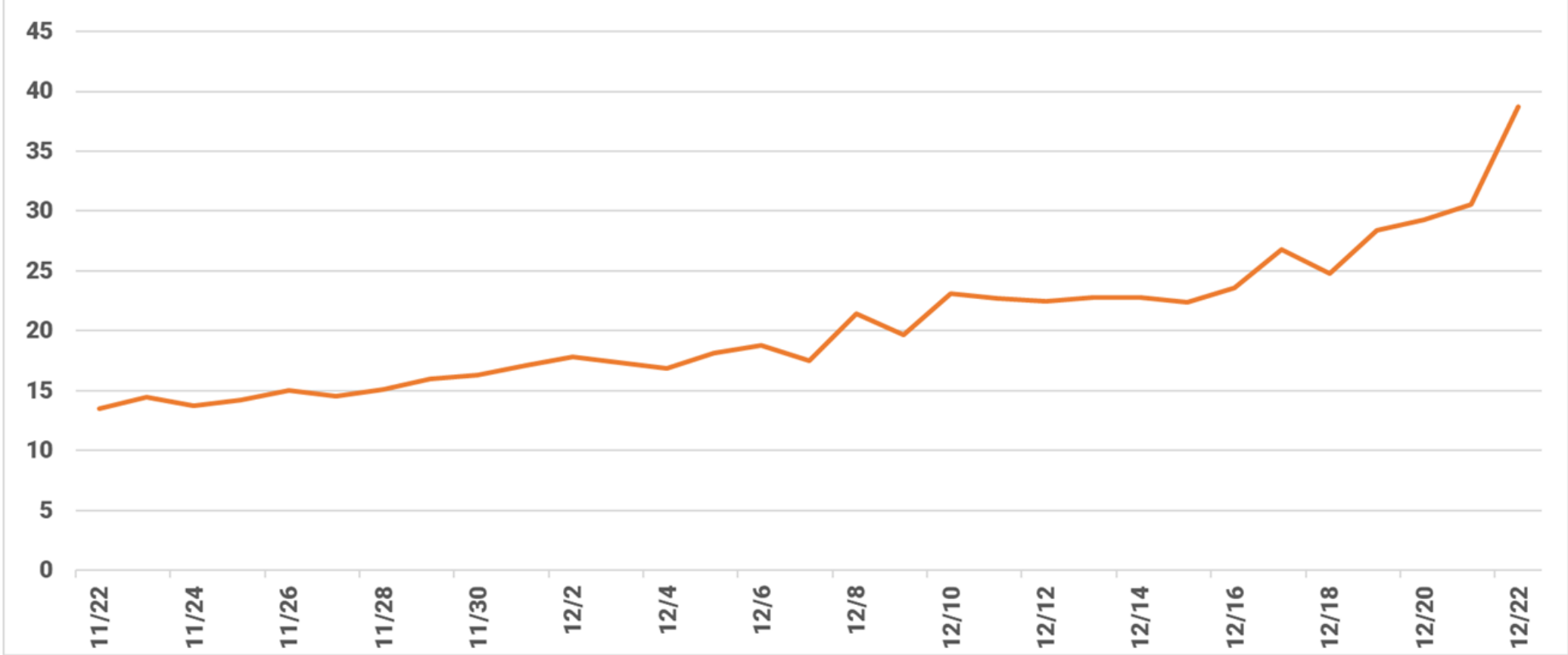
29 hospitalized COVID-19 patients per 100,000 people

Chicago currently:

25 hospitalized COVID-19 patients per 100,000 people



COVID-19 Hospital census (count) per 100,000 Chicagoans



Chicago: COVID-19 case rate continues to rise sharply; cases are now higher than they have ever been in Chicago since vaccines became available.

12/16 Daily Total: **3,230**
Highest since **Nov 2020**

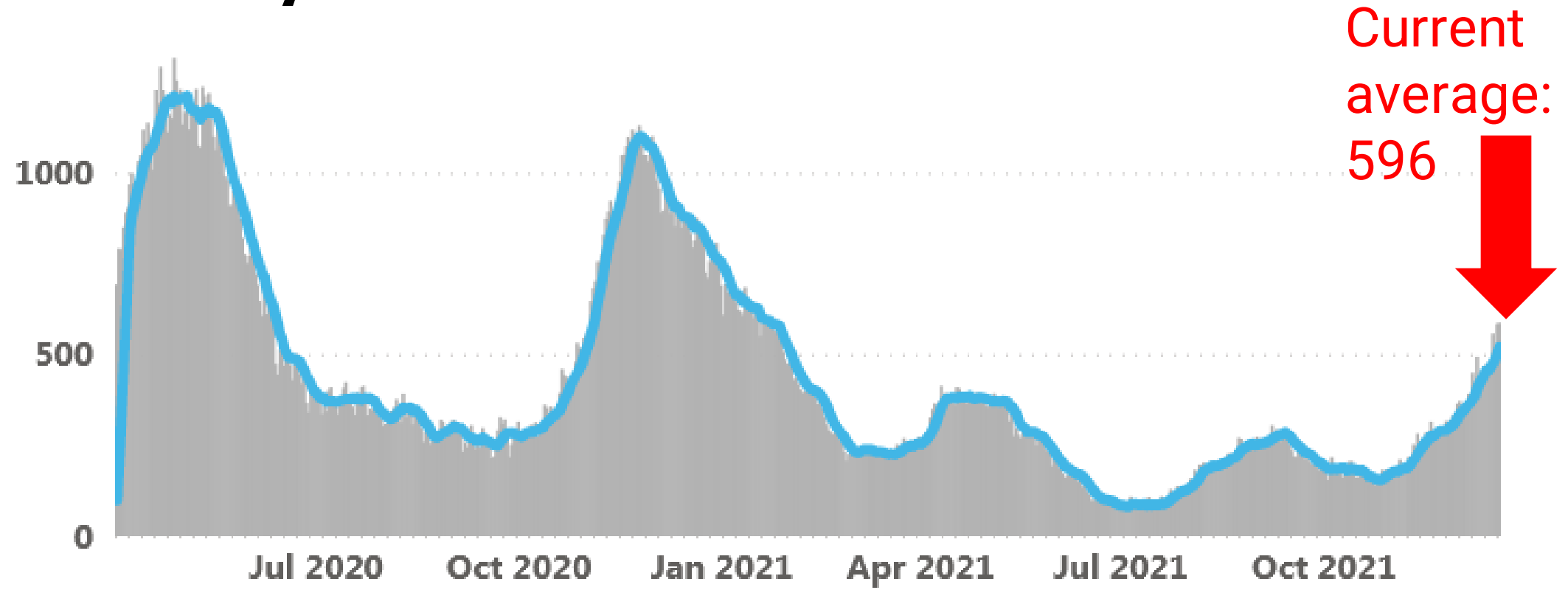


Current average daily case rate: over 2,000

Last Thanksgiving

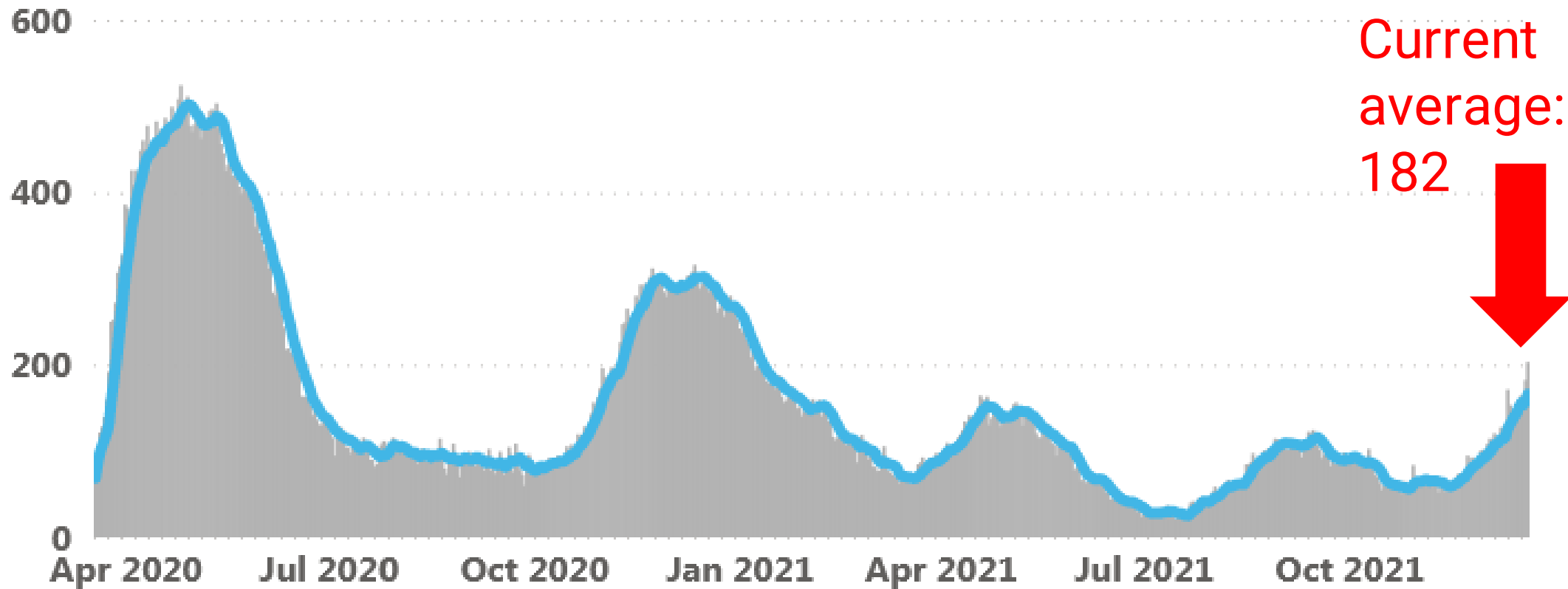
Last Christmas

Chicago: Non-ICU Hospital Beds occupied by COVID-19 patients at **highest** census since January 2021

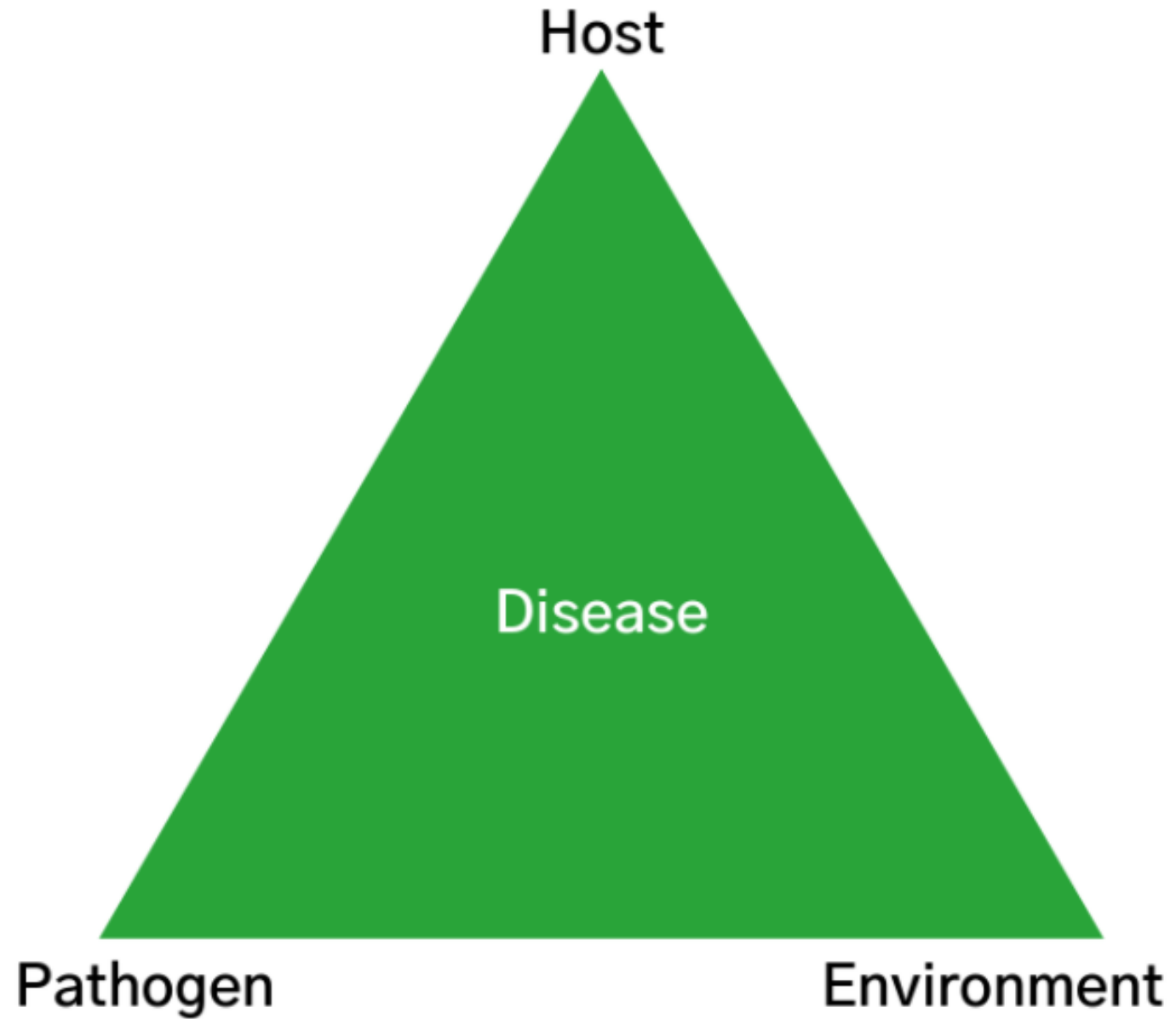


● Acute Non-ICU Beds Occupied by COVID-19 Patients ● 7-day Rolling Average

Chicago: ICU Hospital Beds occupied by COVID-19 patients at **highest** census since January 2021



● ICU Beds Occupied by COVID-19 Patients ● 7-day Rolling Average

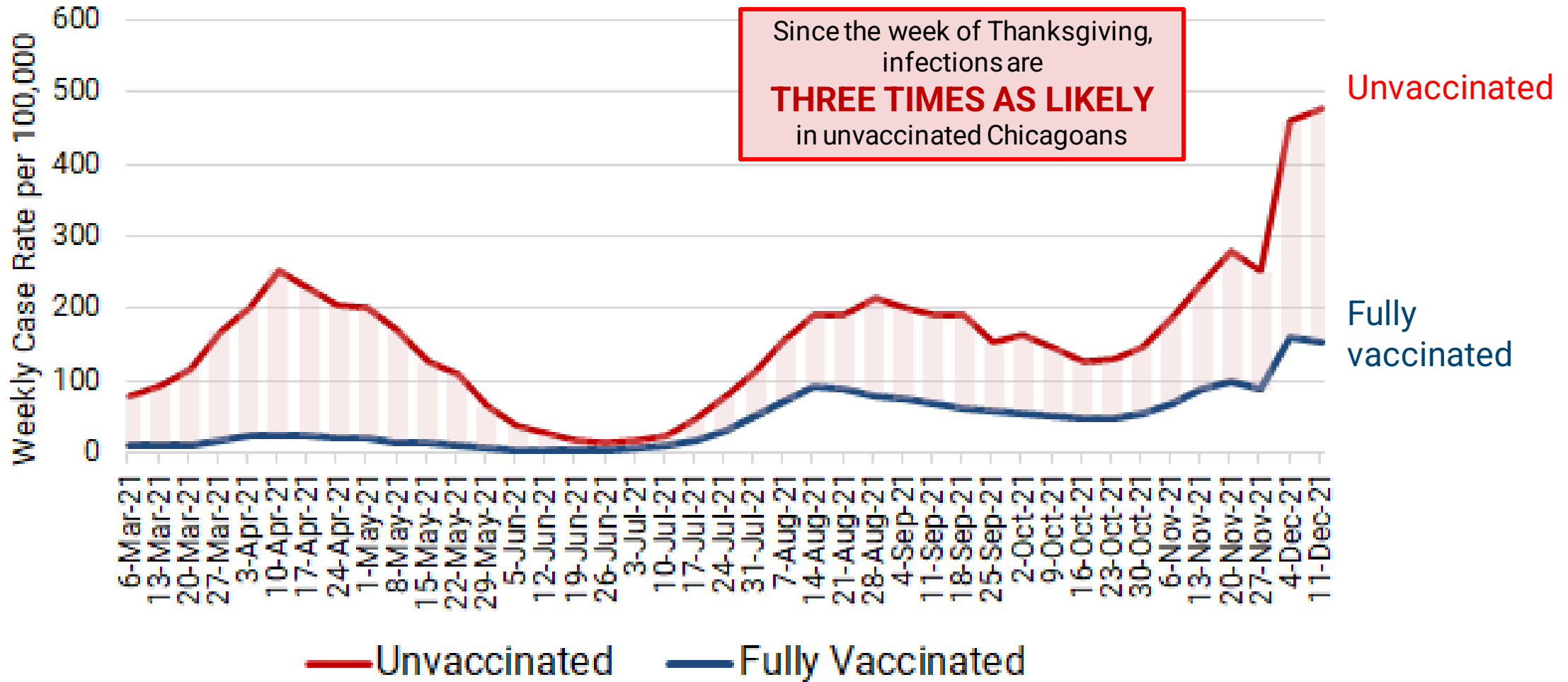




Omicron (preliminary data)

- **Bad news:** *Much* more **transmissible** (prelim: approximately two to three times as transmissible than Delta, which was itself much more transmissible than earlier strains)
 - Speed of spread just as fast in U.S. as it was in South Africa
 - Cases in the United States doubling about every 2-4 days
- **Bad news:** Expect many more **reinfections**. People depending on antibodies from prior infection seem to have *much* less protection against Omicron.
 - In the UK, 5x as likely with Omicron as with prior variants to see reinfections.
 - In South Africa, Omicron spread rapidly despite high levels of previous infection (60-80% based on serological evidence)
 - In lab, prior antibodies less likely to stop Omicron from entering/infecting cells; the mutations in virus seem to change the shape of the area where antibodies would bind.

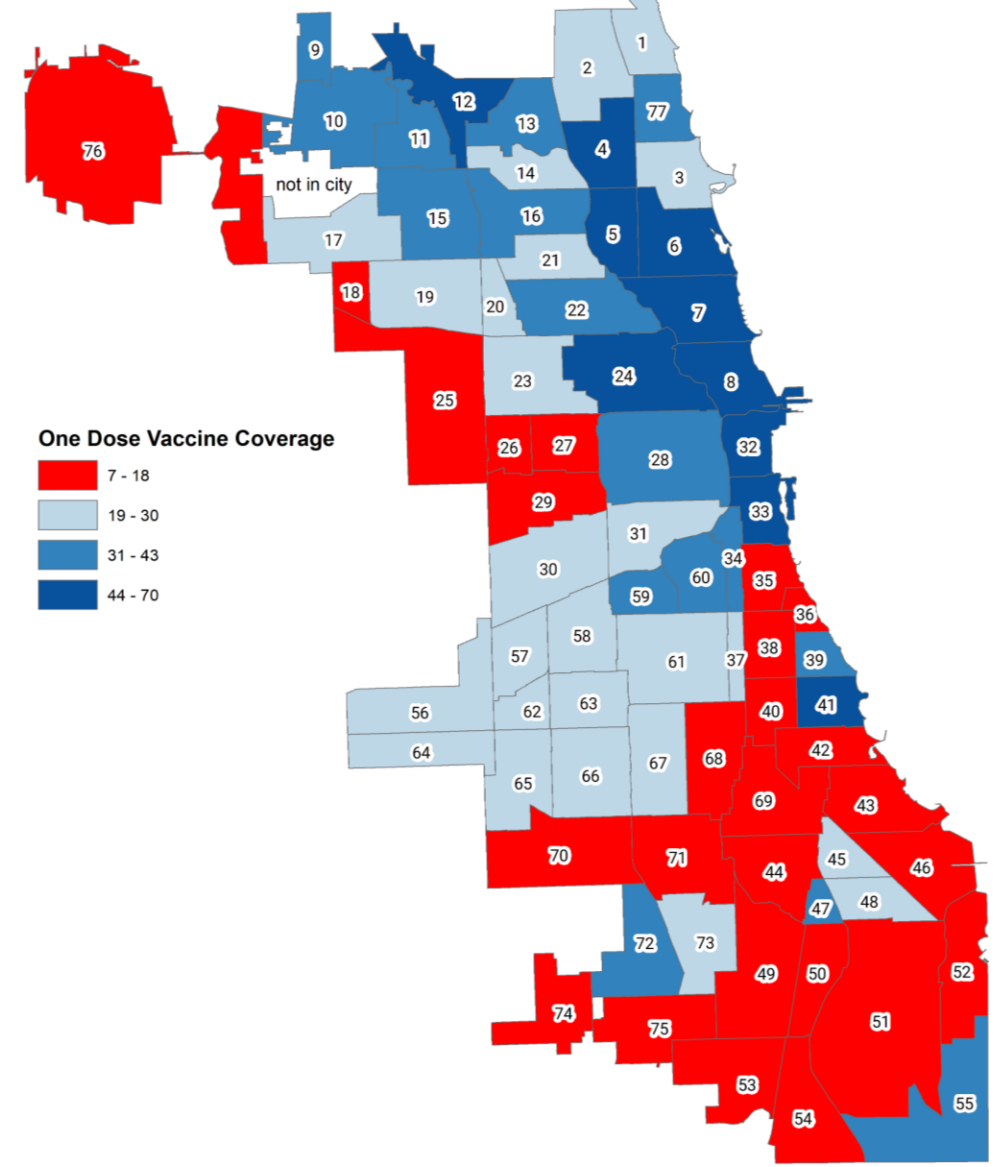
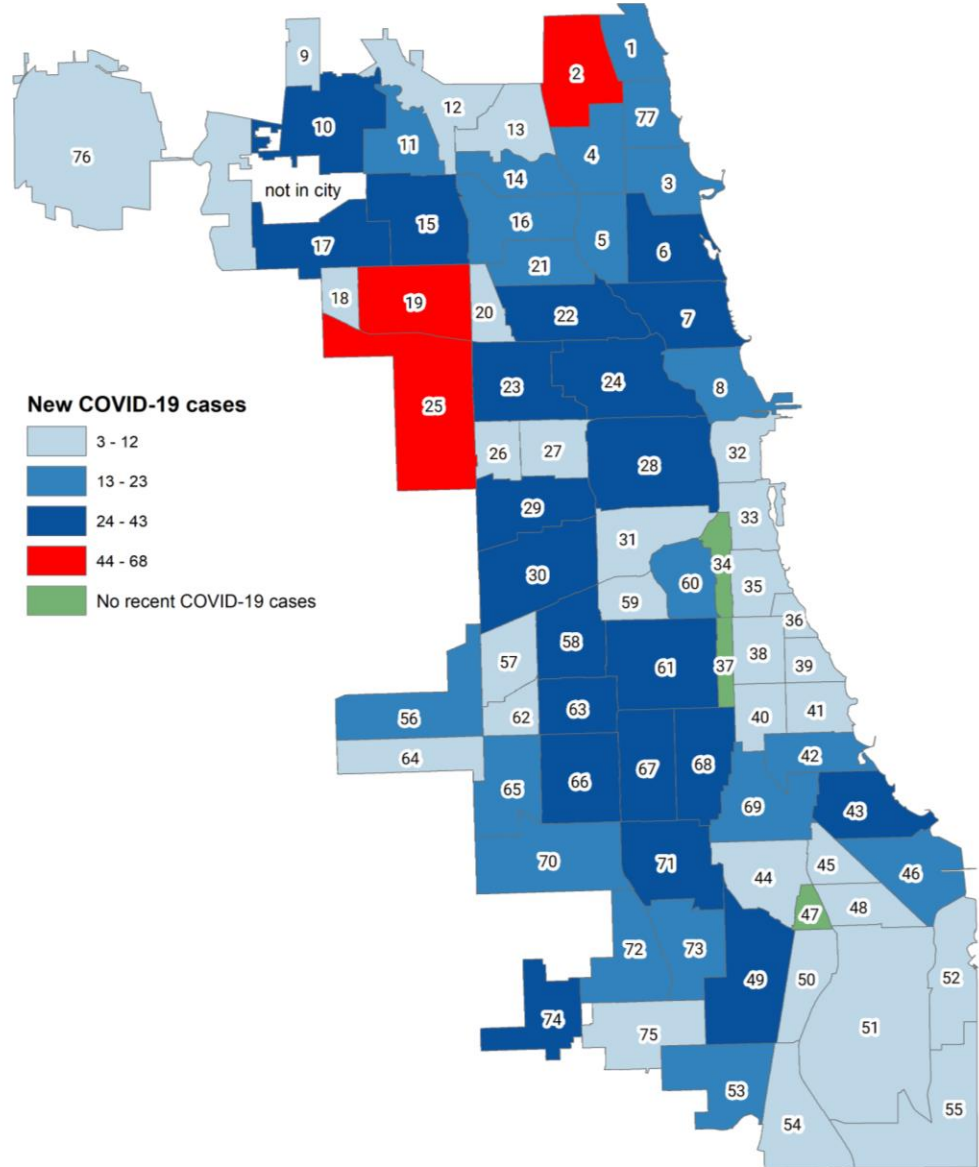
COVID CASE rates remain higher among **Unvaccinated** compared to **Fully Vaccinated** Chicagoans.



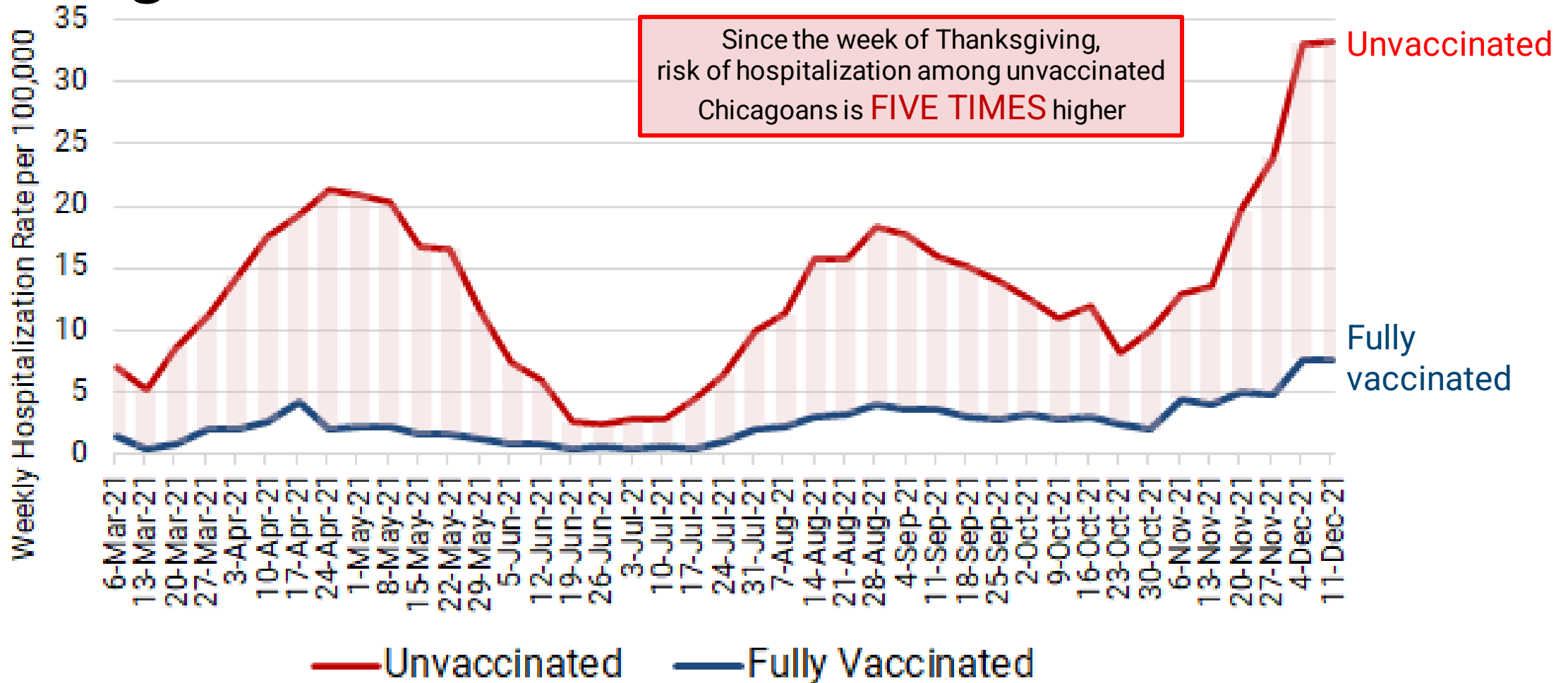
Notes:
 Includes cases among Chicago residents reported into the Illinois Electronic Disease Surveillance System (I-NEDSS) with date of specimen collection 2/28/2021-12/11/2021, pulled 12/15/2021. Vaccination status obtained from the Illinois Comprehensive Automated Immunization Registry (I-CARE) registry. Fully vaccinated defined as completion of vaccine series at least 14 days prior to a positive test (with no other positive tests in the previous 45 days). Rate for vaccinated calculated as total cases divided by cumulative vaccinated at the end of each week, multiplied by 100,000. Rate for unvaccinated calculated as total cases divided by total population minus cumulative vaccinated at the end of each week, multiplied by 100,000.

Recent COVID cases among 5-11 years by Chicago community areas Nov 28th –Dec

One dose COVID vaccine coverage among 5-11 years by Chicago community areas



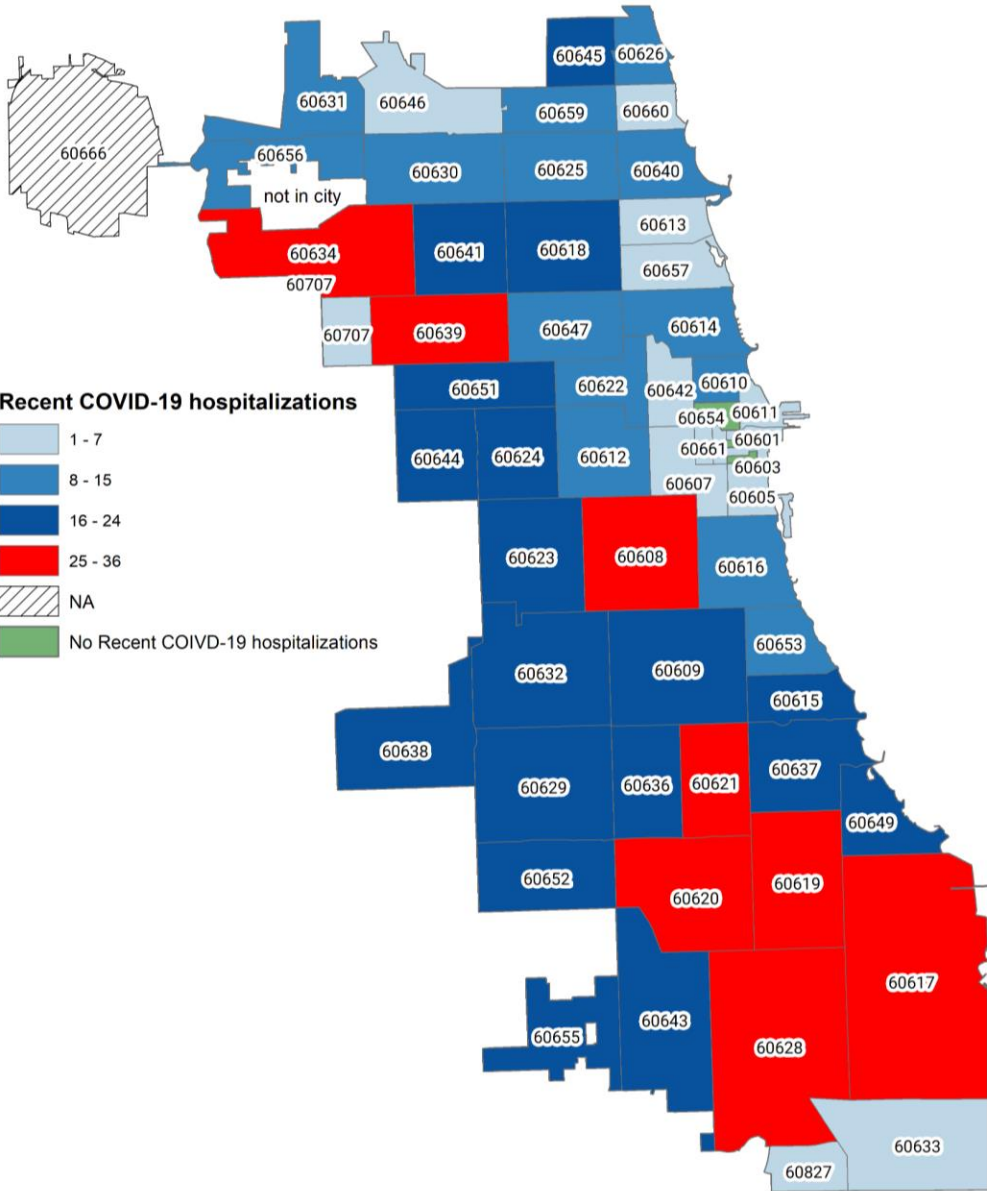
COVID HOSPITALIZATION rates remain higher among **Unvaccinated** compared to **Fully Vaccinated** Chicagoans.



Notes:

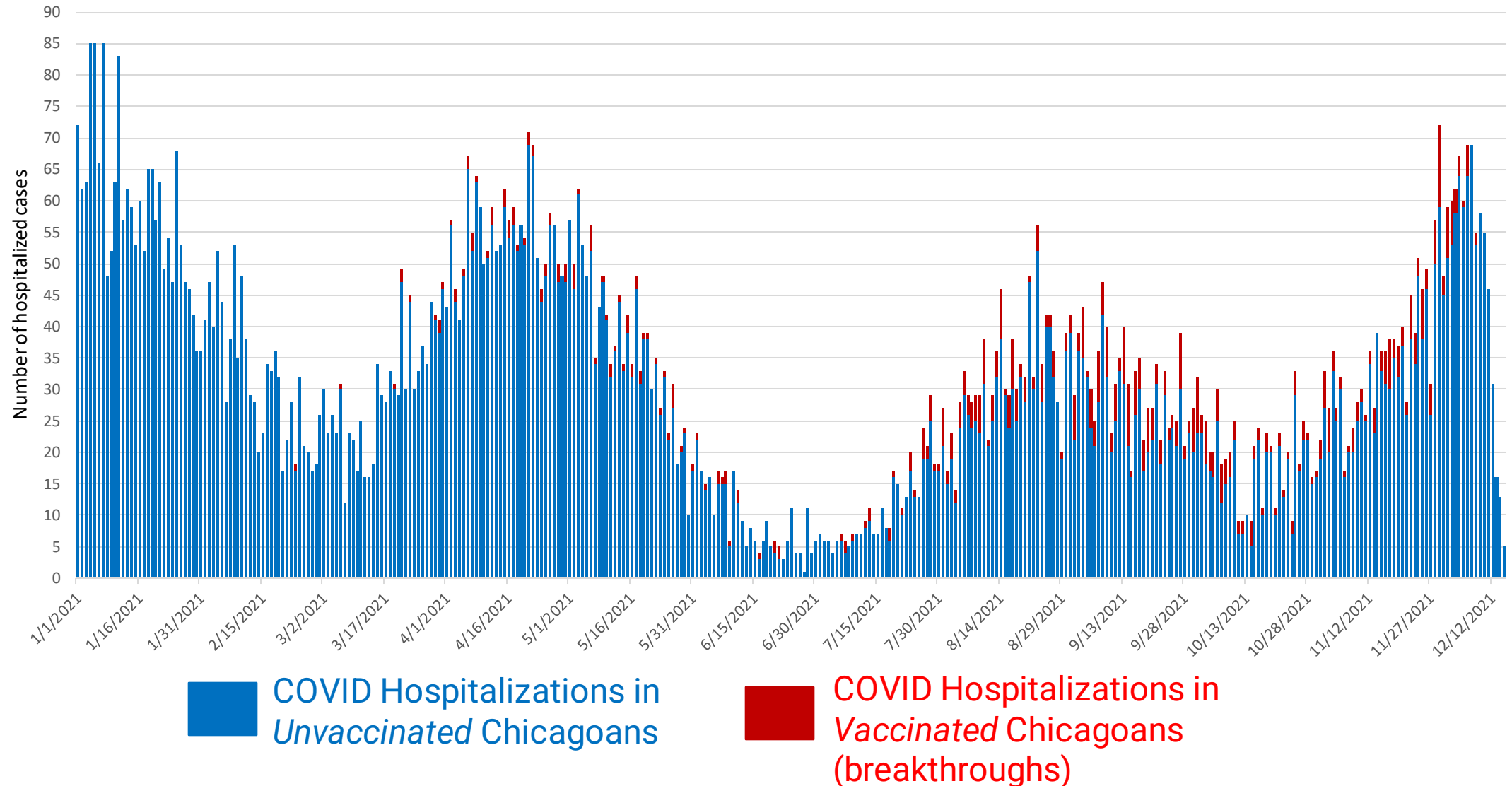
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Recent COVID-19 hospitalizations by Chicago zip code (Nov 28th to Dec 11th) n=806



Please note that COVID-19 hospitalizations have significant reporting delays

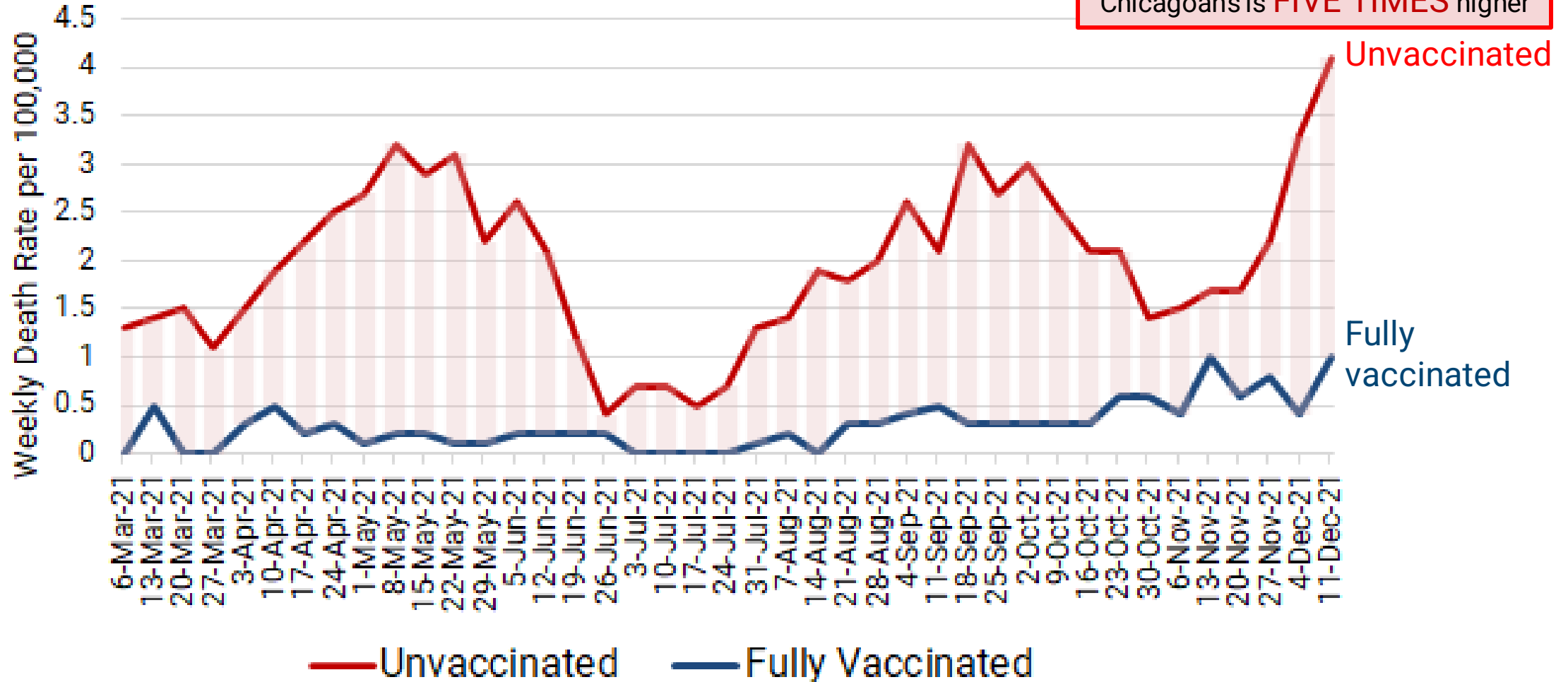
Chicago: The great majority of COVID-19 hospitalizations have been and continue to be in **unvaccinated Chicagoans**



COVID DEATH rates remain higher among Unvaccinated compared to Fully Vaccinated Chicagoans.

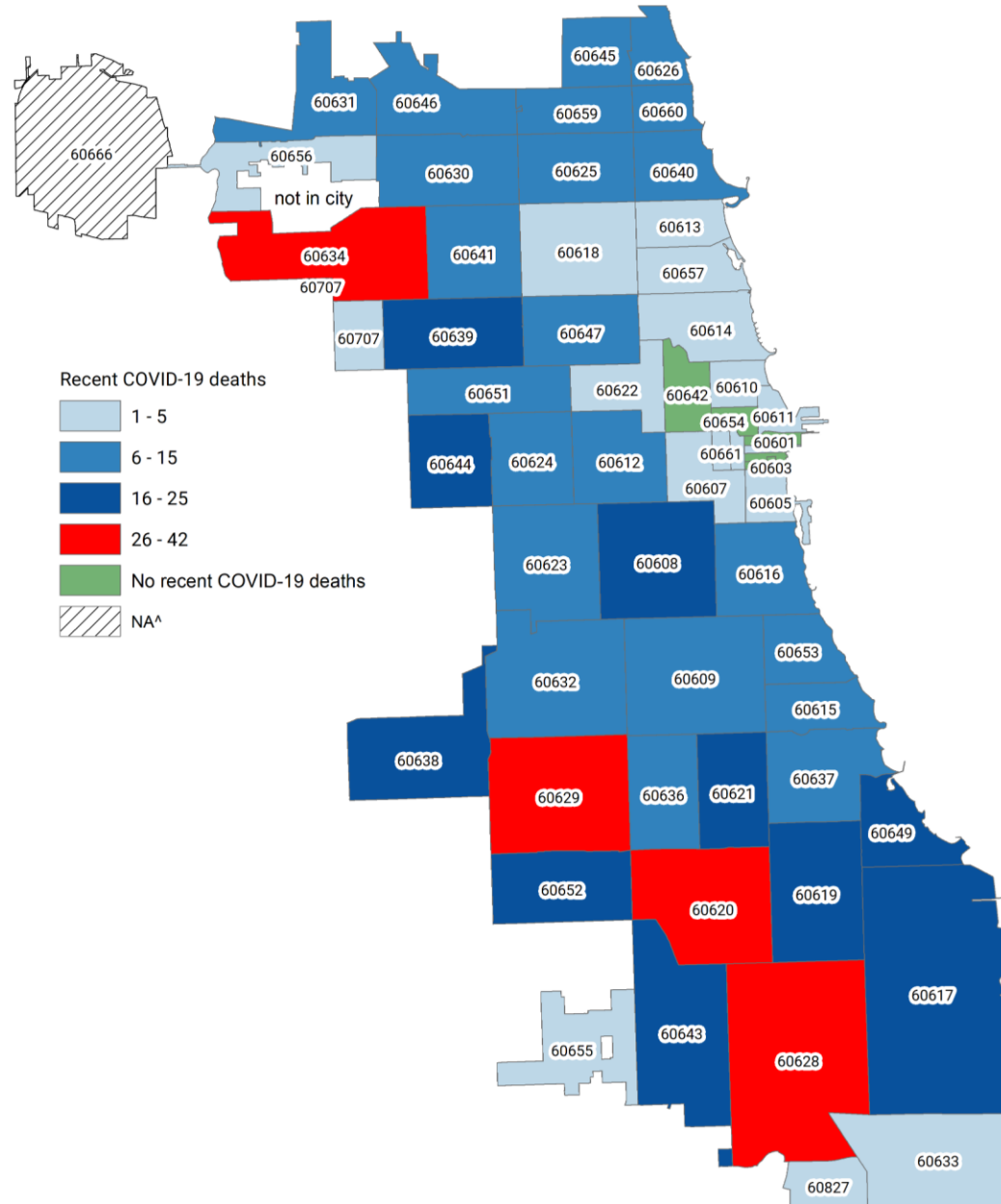


Since the week of Thanksgiving, risk of death among unvaccinated Chicagoans is **FIVE TIMES** higher



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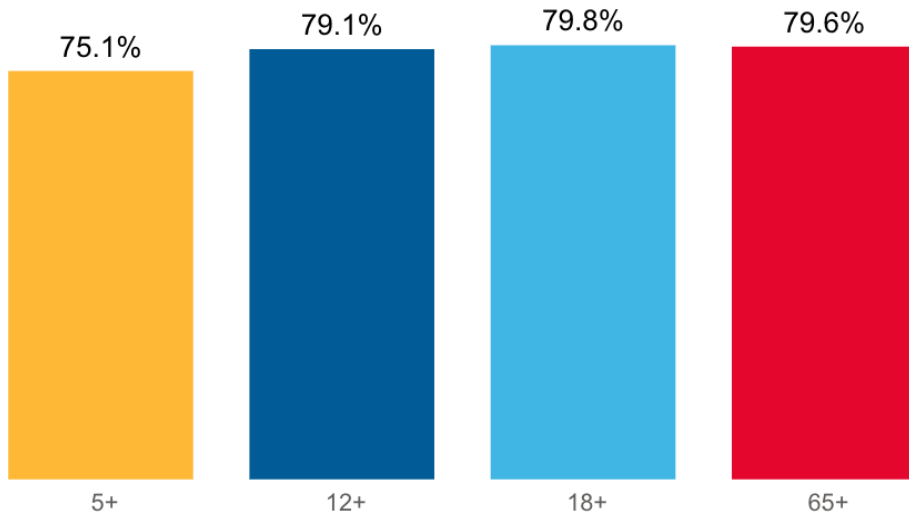
Recent COVID-19 deaths (Jul 15 to Dec 14, 2021) by Chicago zip code



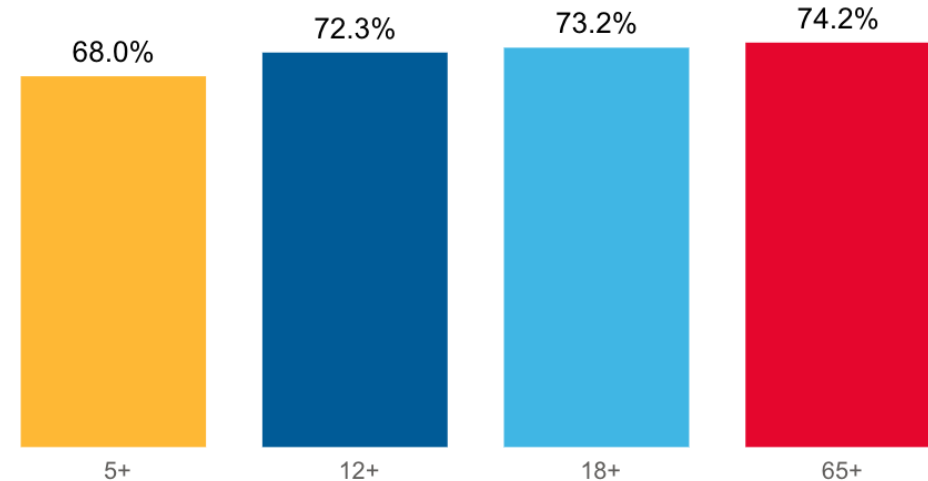


Citywide Vaccination Rate continues to increase

At least one dose (% vaccinated as of 12/21/2021)



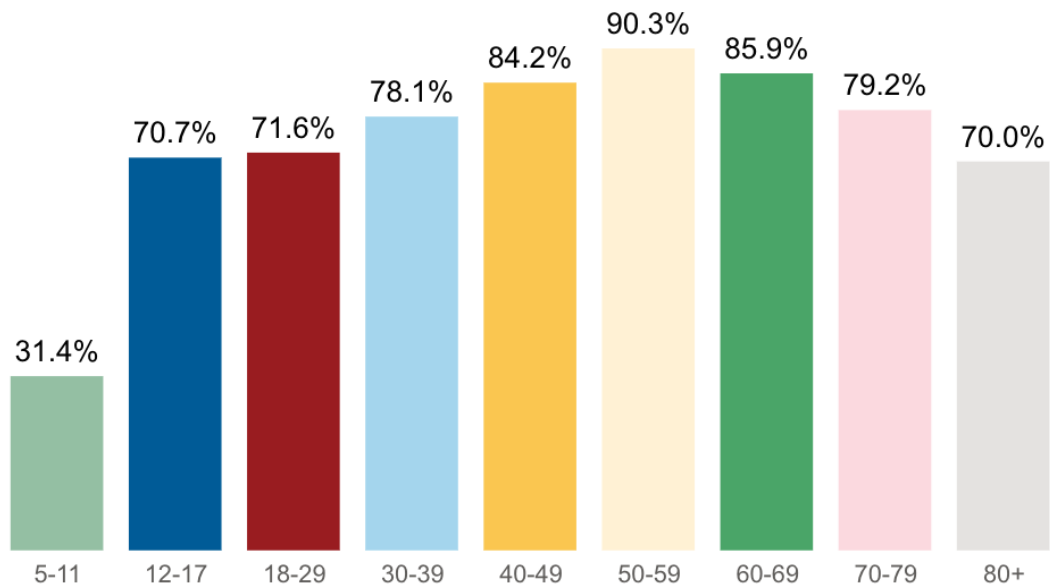
Completed vaccine series (% vaccinated as of 12/21/2021)



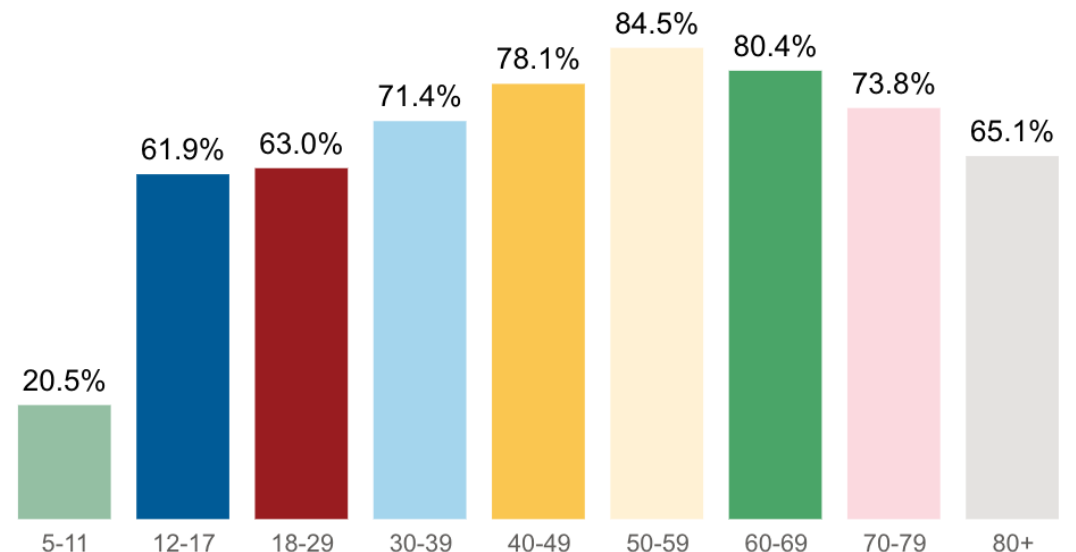
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Citywide Vaccination Rate by Age

At least one dose (% vaccinated as of 12/21/2021)



Completed vaccine series (% vaccinated as of 12/21/2021)



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Need a vaccine or a booster? Have questions?

visit **CHI.GOV/COVIDVAX**

or call **312-746-4835**

