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Chicago COVID-19 Community Transmission and Risk Matrix

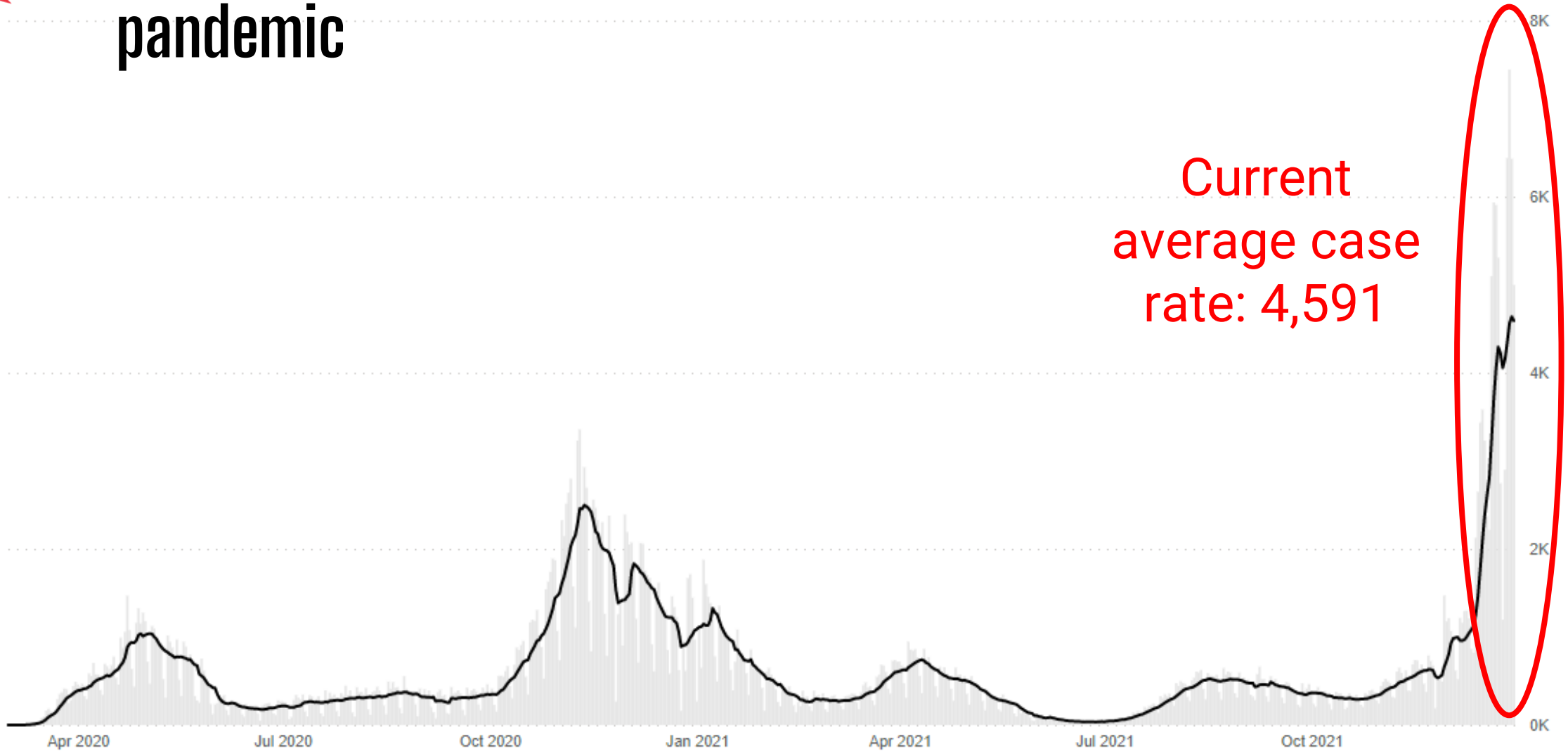
	VERY HIGH TRANSMISSION	HIGH TRANSMISSION	SUBSTANTIAL TRANSMISSION	LOWER TRANSMISSION	LOW TRANSMISSION
COVID-19 CASES DIAGNOSED PER DAY Chicago residents - 7-day rolling daily average	800+ Current: 4,591 Stable	400 – 799	200 – 399	20 – 199	≤20
COVID-19 TEST POSITIVITY Chicago residents - 7-day rolling daily average	10%+ Current: 23.6% Increasing	6.6 – 9.9%	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 Current: 1,142 Increasing	250 – 749	100 – 249	≤100
ICU BEDS OCCUPIED BY COVID PATIENTS Chicago hospitals - 7-day rolling daily average	400+	300 – 399	100 – 299 Current: 266 Increasing	20 – 99	≤20

Source: Chicago Department of Public Health, data current as of January 3, 2022. These metrics represent general community COVID transmission and should not be applied to individual settings that have mitigation practices in place.

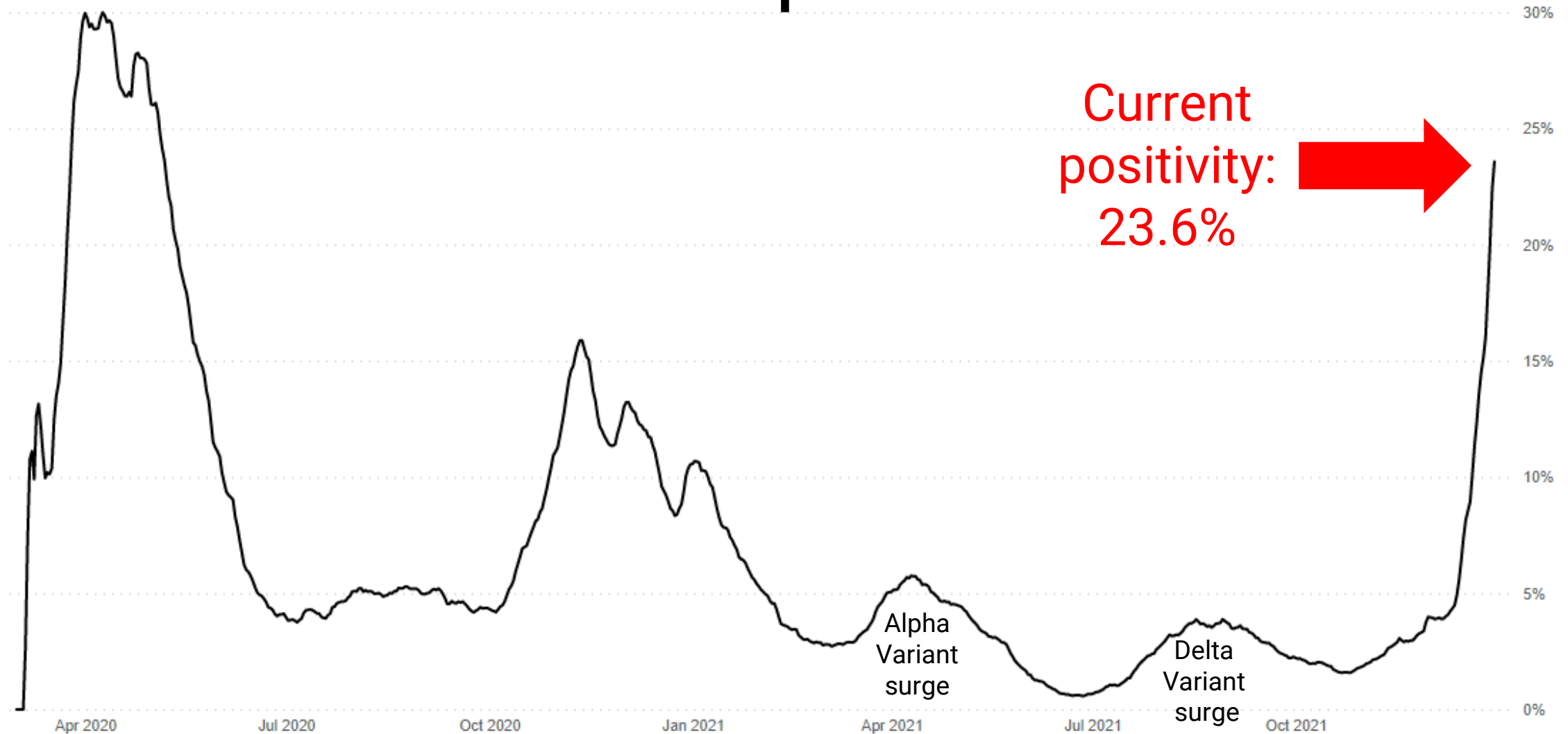
Chicago: COVID-19 case rate is **highest**
it has been since the beginning of the
pandemic

12/28 Daily Total: **7,443**

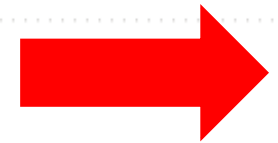
Current
average case
rate: **4,591**



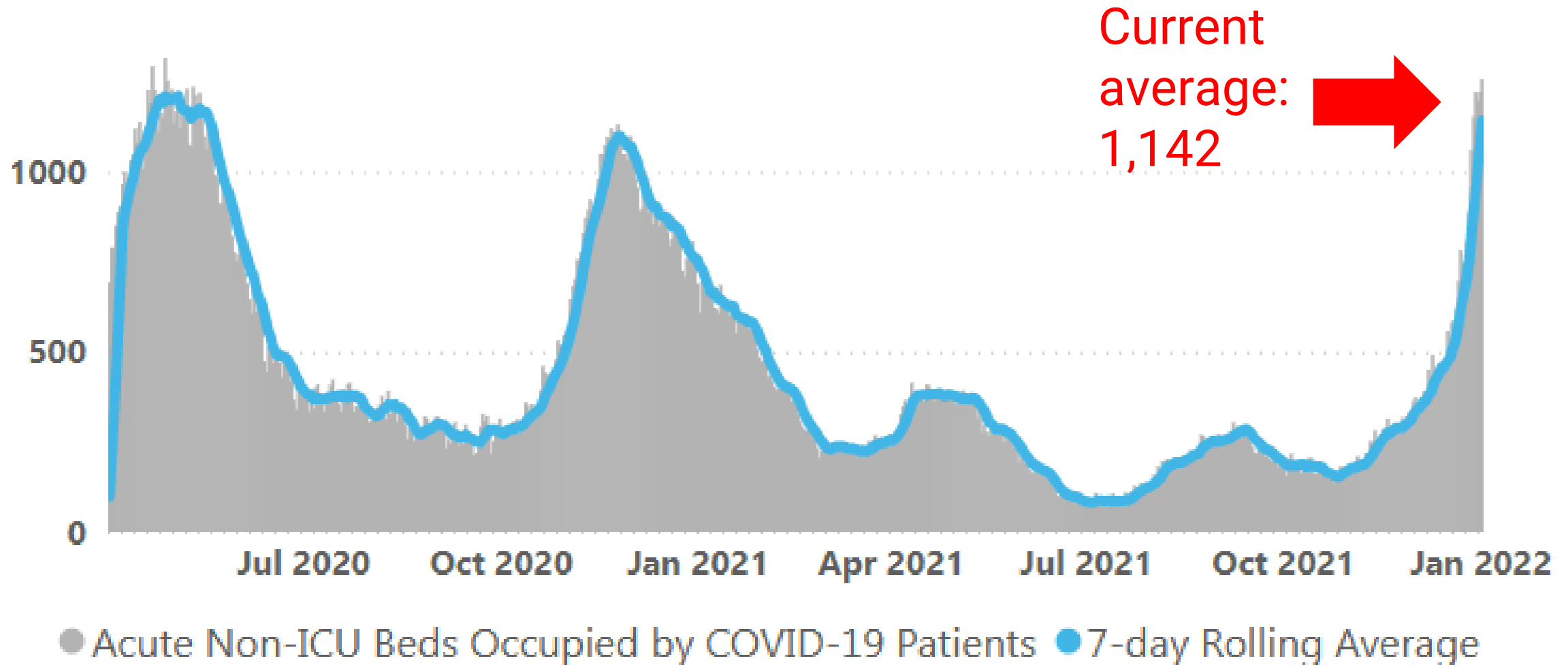
Chicago: COVID test positivity is **highest** it has been since the first wave of the pandemic



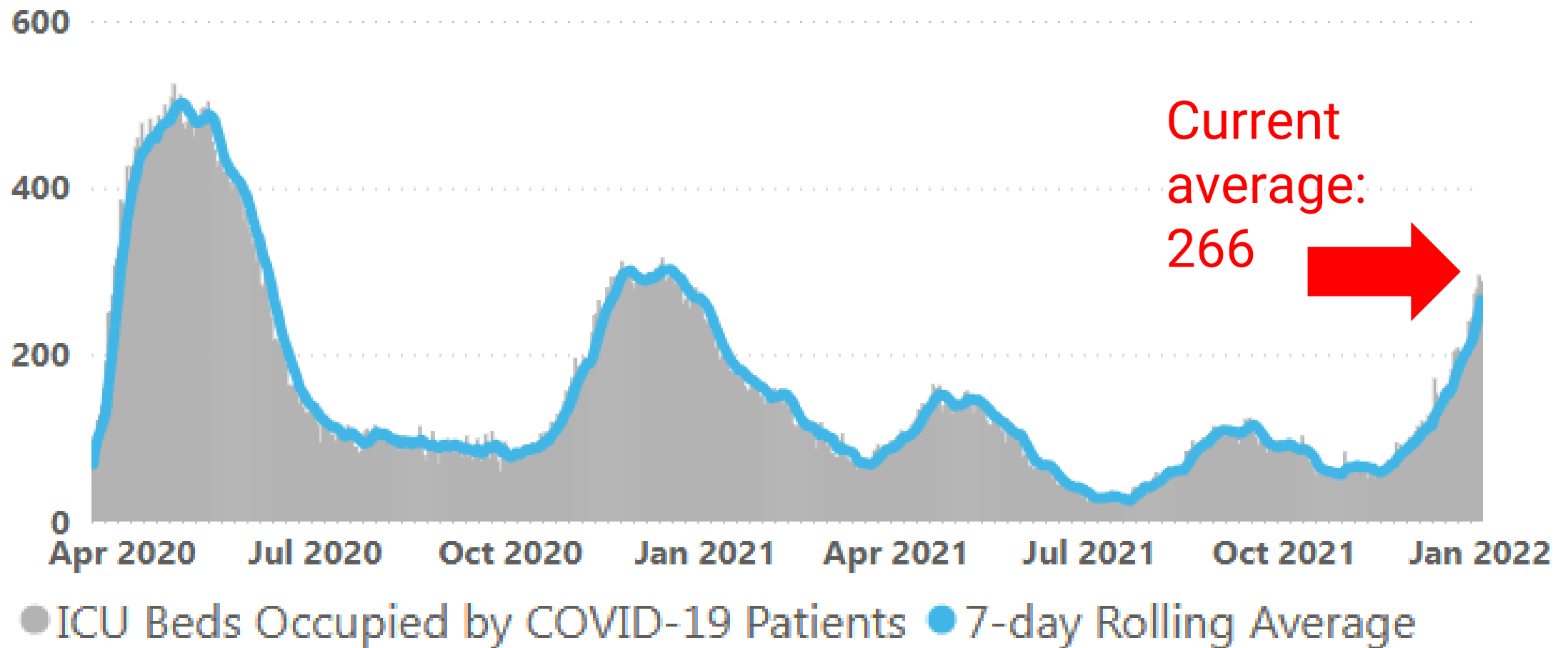
Current
positivity:
23.6%



Chicago: Non-ICU Hospital Beds occupied by COVID-19 patients at **highest** census since the beginning of the pandemic



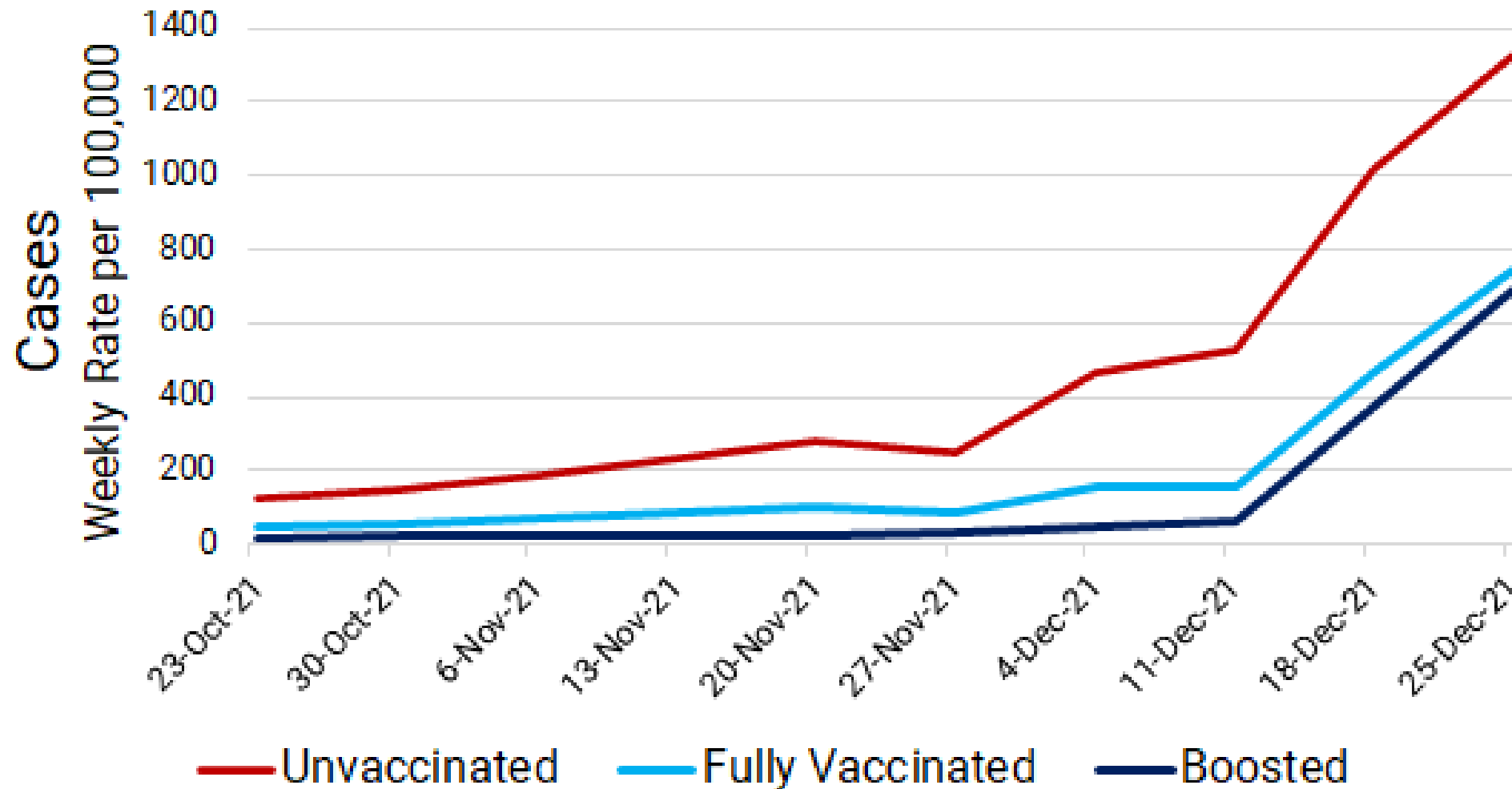
★ Chicago: ICU Hospital Beds occupied by COVID-19 patients at **highest** census since December 2020



Good News: Vaccine still highly protective against INFECTION, though Omicron variant leads to more breakthroughs.



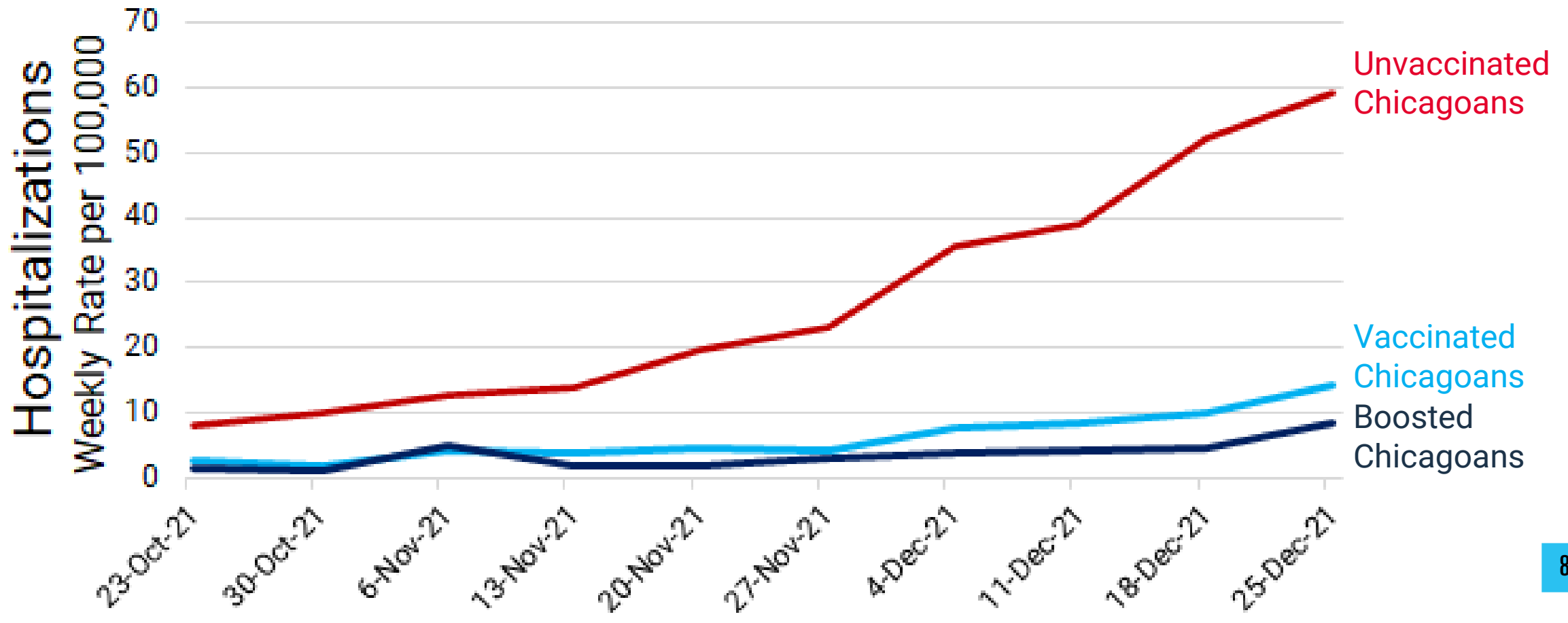
Since Thanksgiving in Chicago, **unvaccinated** diagnosed with COVID at more than TWICE the rate of **vaccinated** Chicagoans, and THREE times the rate of **vaccinated and boosted** Chicagoans



Good News: In Chicago, vaccines continue to protect beautifully against COVID HOSPITALIZATION, and boosters clearly add to that protection.

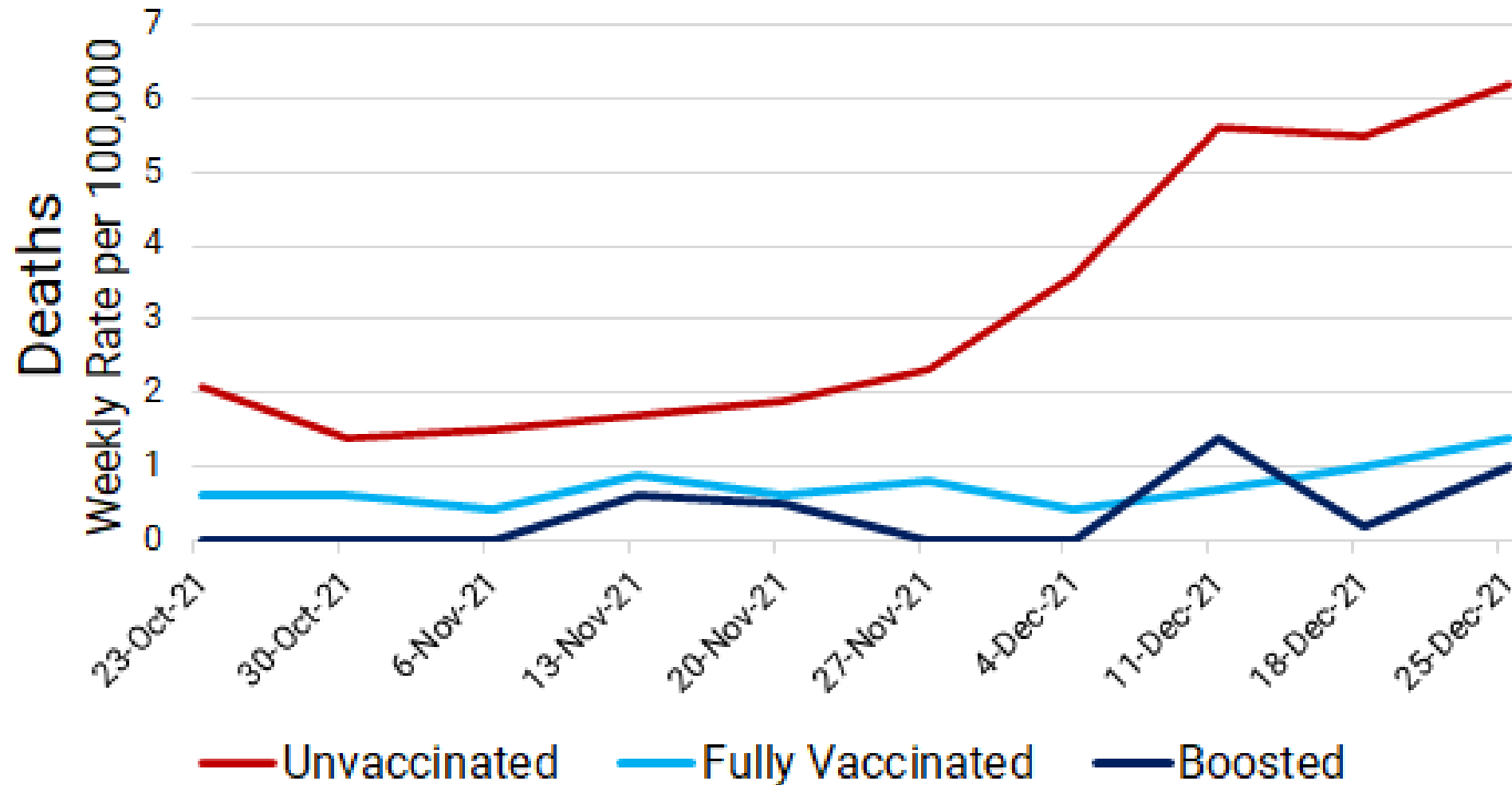


Unvaccinated Chicagoans continue to drive our increase in COVID hospitalizations. Since Thanksgiving in Chicago, **unvaccinated** have been hospitalized with COVID at FIVE times the rate of **vaccinated** Chicagoans and NINE times the rate of **vaccinated and boosted** Chicagoans.



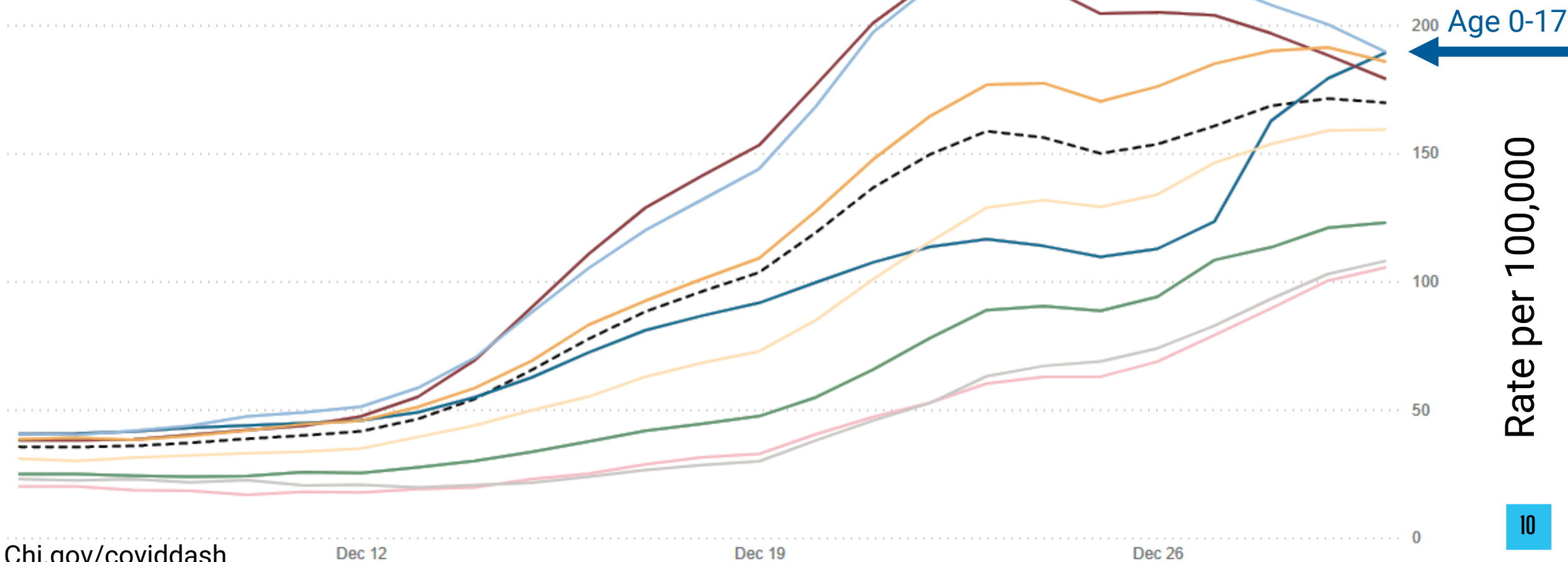
COVID death increase also driven by **unvaccinated** Chicagoans.

Since Thanksgiving in Chicago, **unvaccinated** have died of COVID at more than FIVE times the rate of **vaccinated** Chicagoans and NINE times the rate of **vaccinated and boosted** Chicagoans.

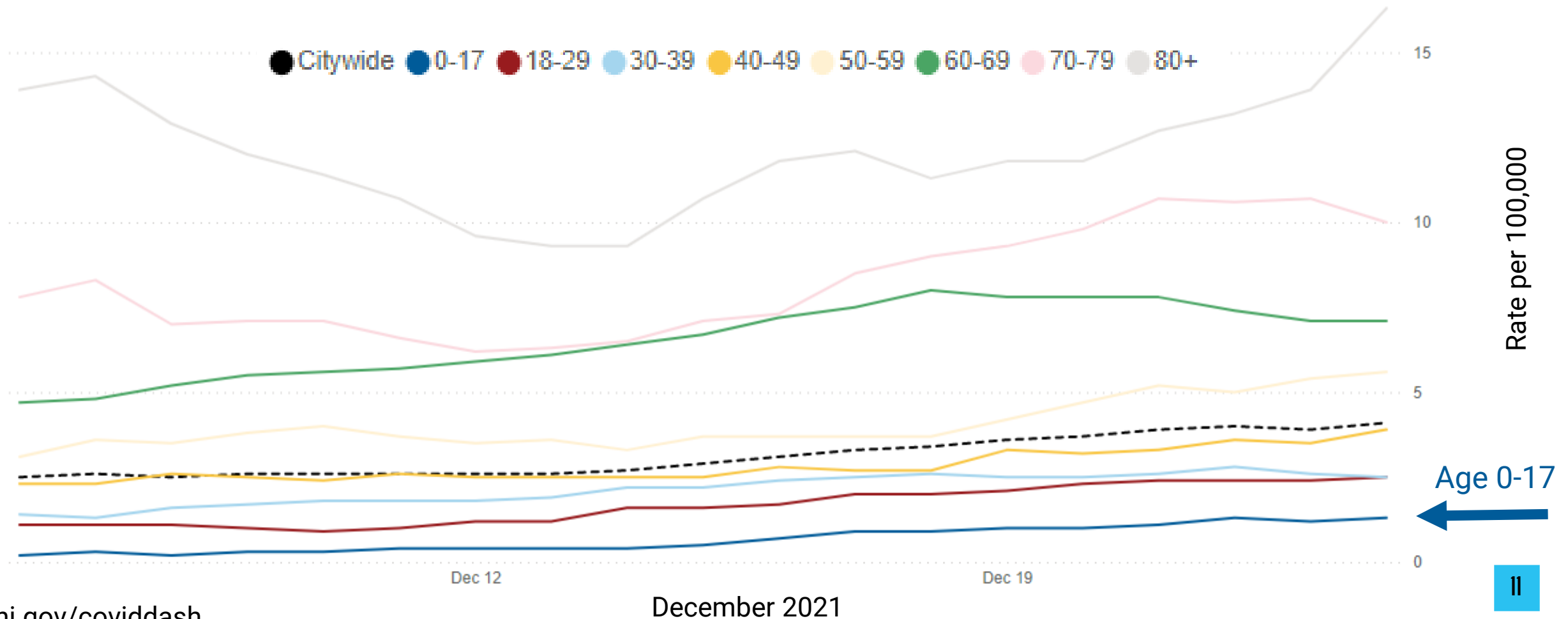


As expected with increased post-holiday testing, Chicago children 0-17 y/o have seen an increased COVID case diagnosis rate

Citywide 0-17 18-29 30-39 40-49 50-59 60-69 70-79 80+



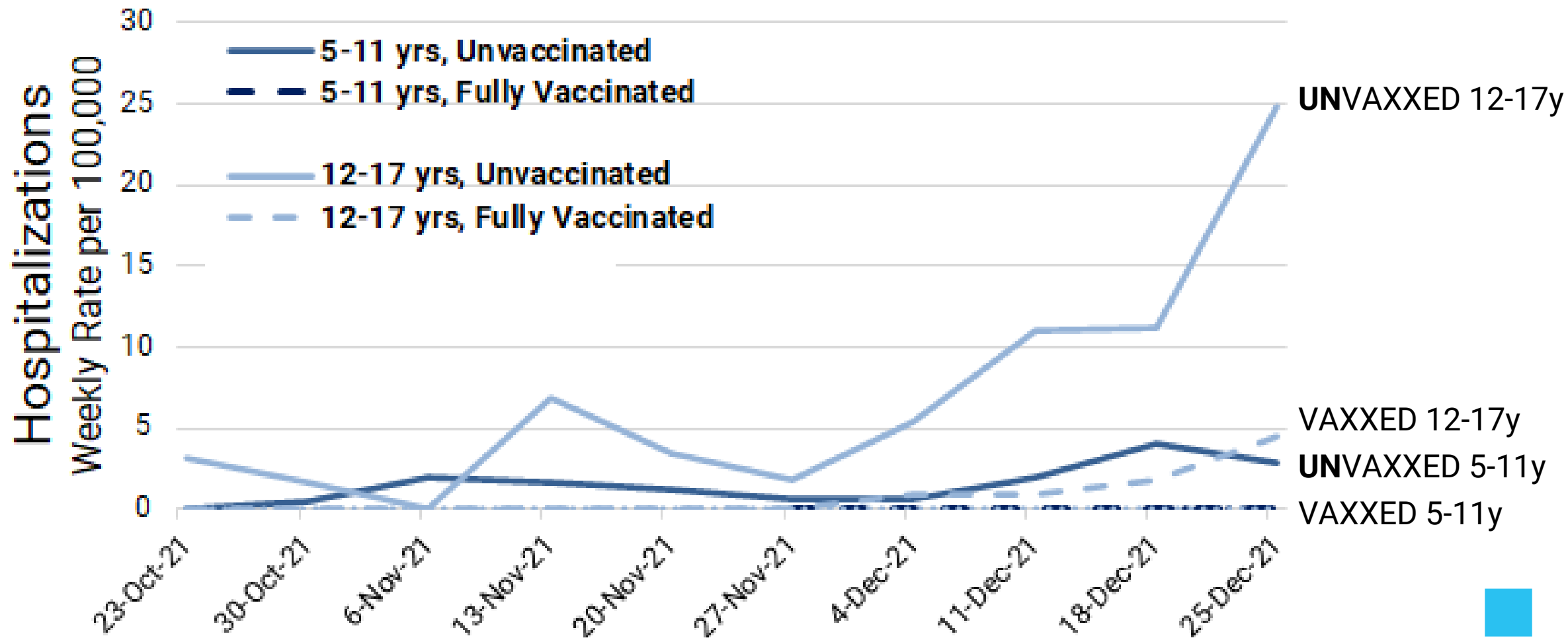
Very good news: Child COVID hospitalizations remain very rare. Across the whole city (550,000 children), Chicago is averaging just 7 COVID hospitalizations daily for **children age 0-17**.



Numbers: Very few Chicago adolescents (and even fewer younger and vaccinated children) have been hospitalized recently with COVID.

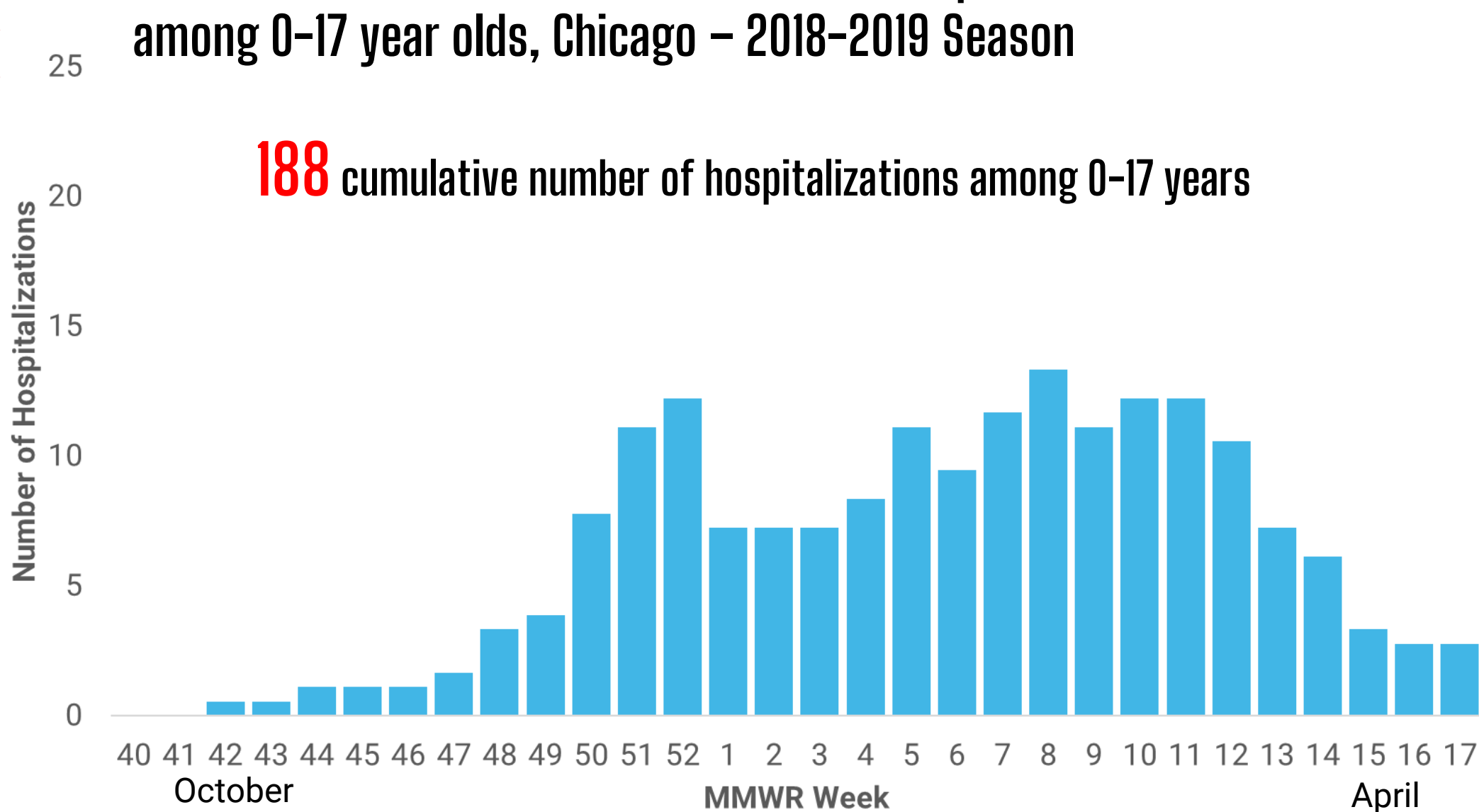


Since Thanksgiving, just 55 total COVID hospitalizations in children age 5-17 citywide; 46 (84%) of these children were *un*vaccinated. *No* hospitalizations in vaxxed 5-11 y/o. *No* deaths in children over this time period.



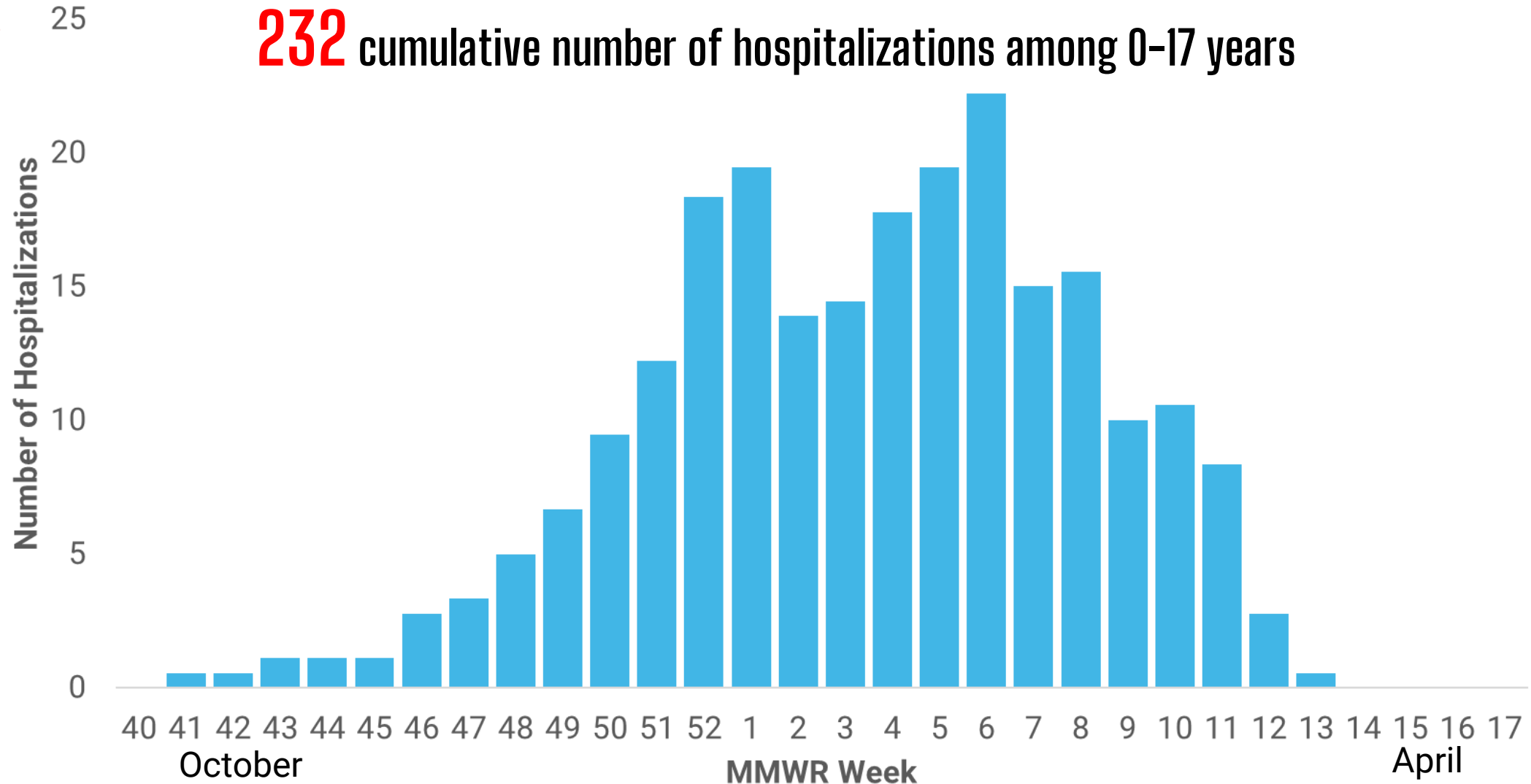
How does this compare to influenza?

Estimated Number of **Influenza**-Related Hospitalizations* among 0-17 year olds, Chicago – 2018-2019 Season



*CDC FluSurv-NET weekly rates were used to calculate estimated number of influenza hospitalizations in Chicago

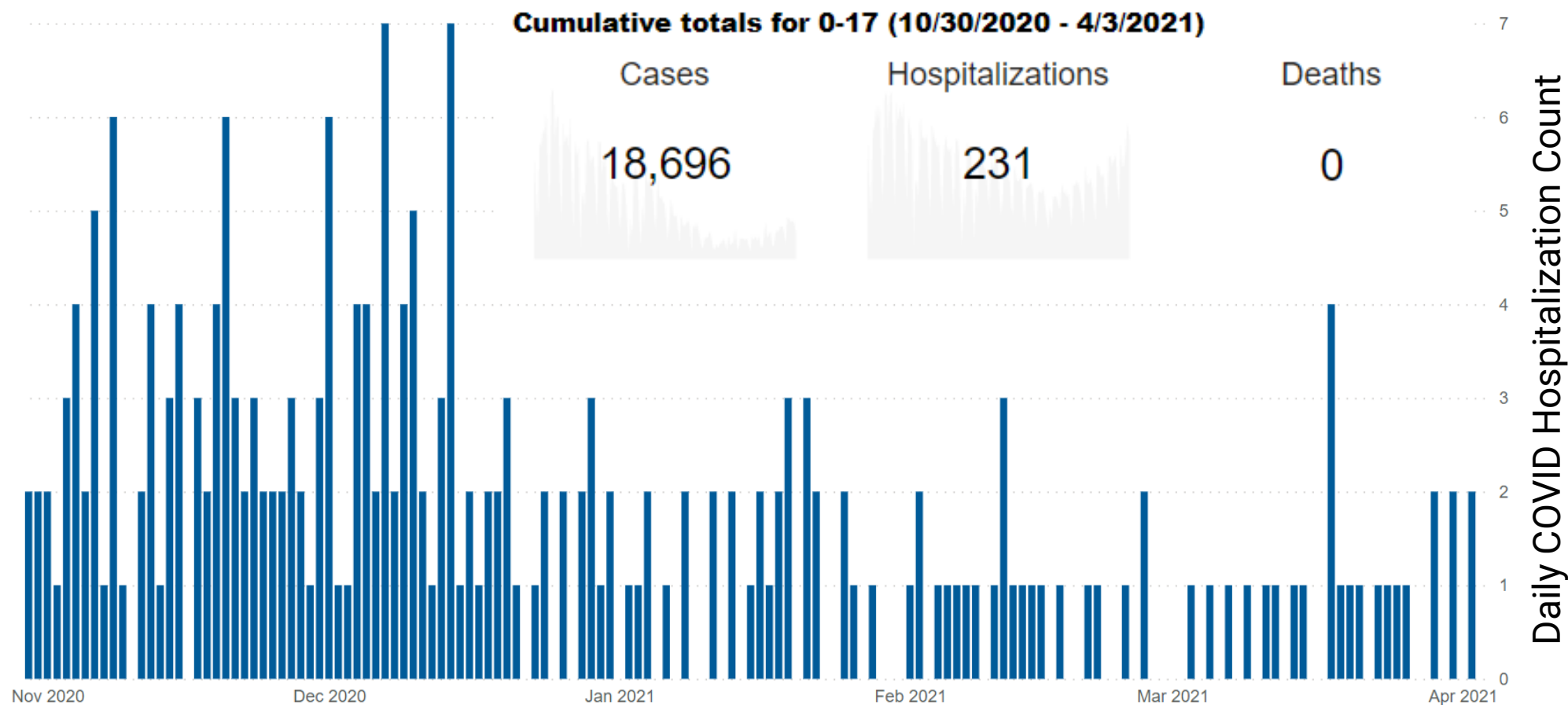
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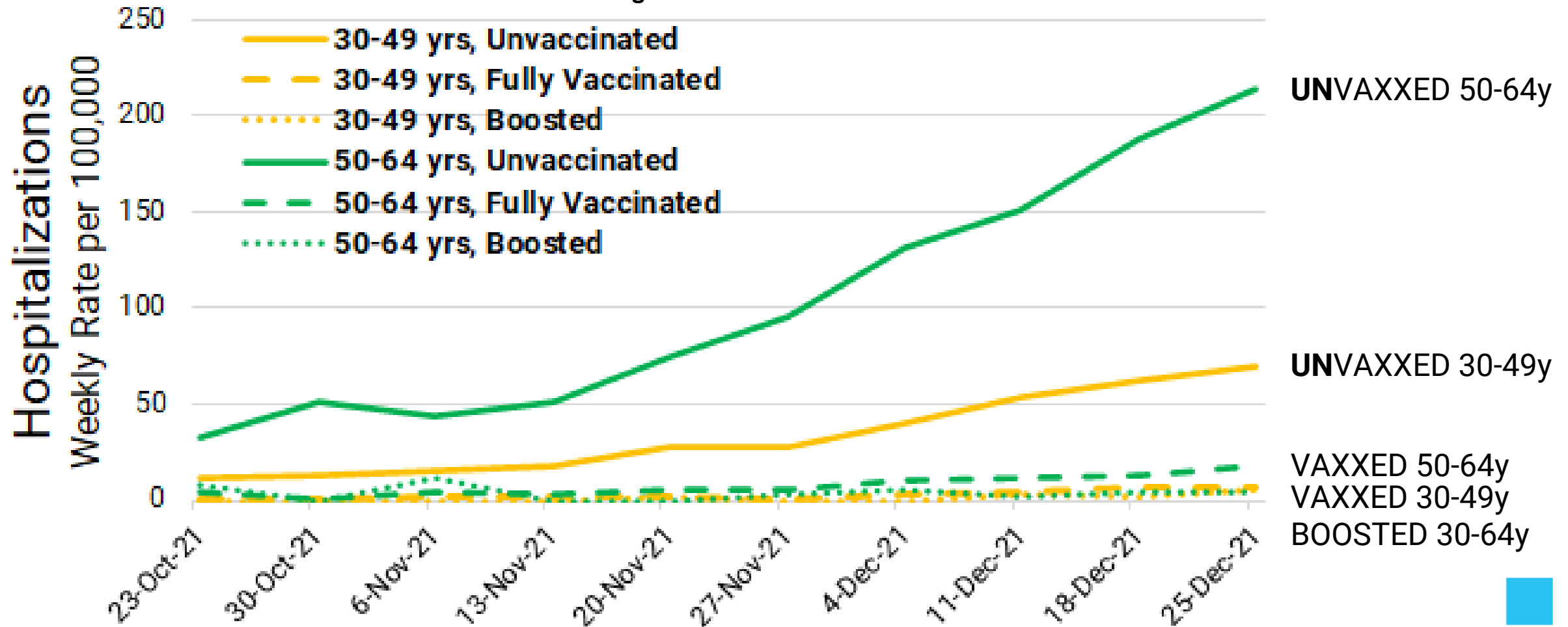
For comparison, between October 30, 2020 and April 3, 2021 (approximate flu season and including last winter's COVID surge), in Chicago we saw nearly **19,000 COVID diagnoses** in children age 0-17—but just **231** COVID hospitalizations (and no deaths)



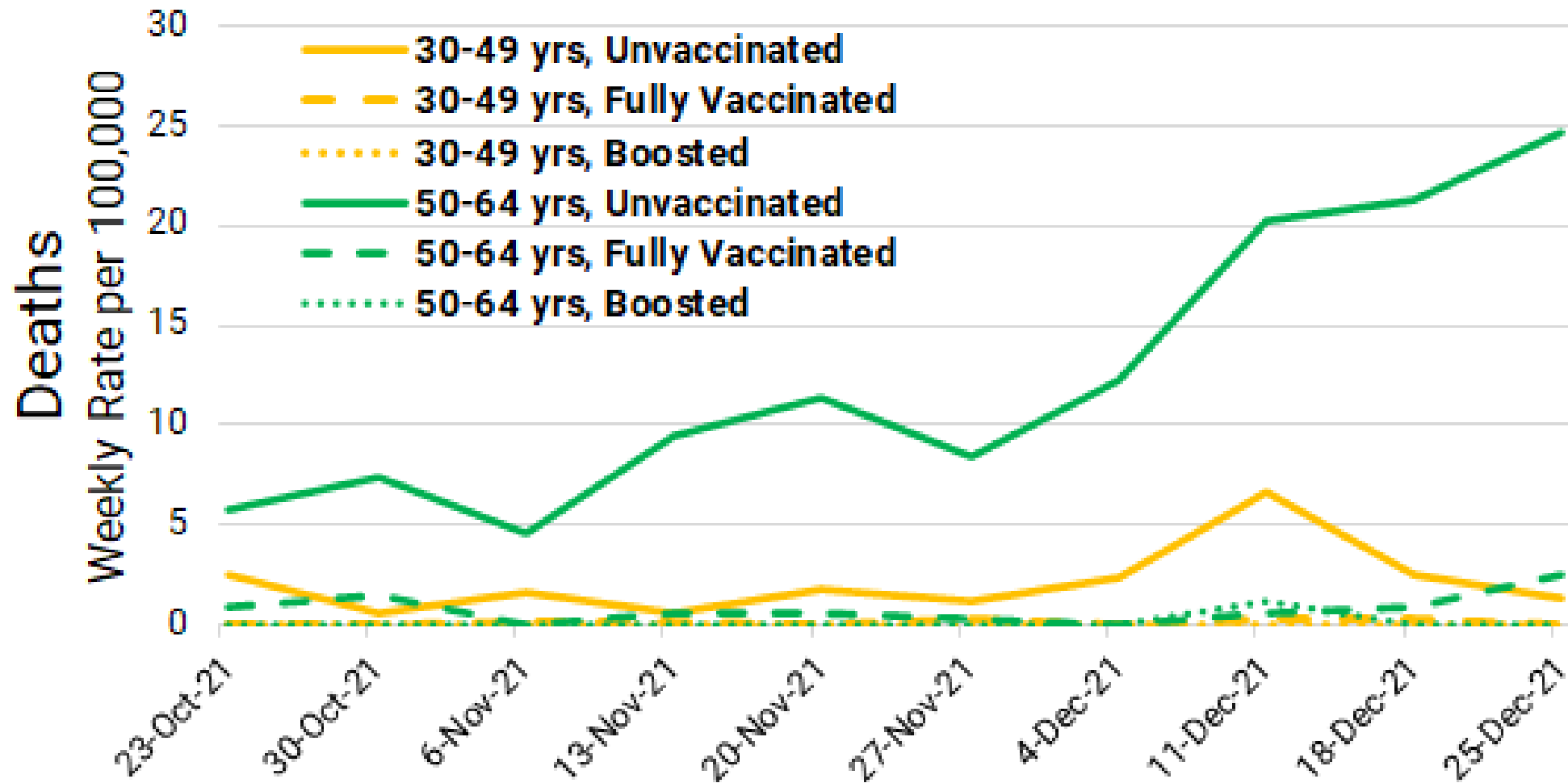
Risk of hospitalization increases with age, particularly in unvaccinated.

Hospitalization risk among working-age adults (30-64y) in Chicago who have received a booster vaccine is near zero.

Among 1,250 COVID hospitalizations in Chicagoans age 30-64y since Thanksgiving, just 33 (3%) were fully vaccinated with a booster dose. Since Thanksgiving, unvaccinated Chicagoans age 30-64y have been 35 TIMES as likely to be hospitalized with COVID than vaxxed and boosted adults of same age.



Deaths among unvaccinated adults have increased. Risk of death among working-age vaccinated adults has remained very low.





Chicago remains above national average of percent of fully vaccinated population* that received a booster dose, however there is still much work to be done

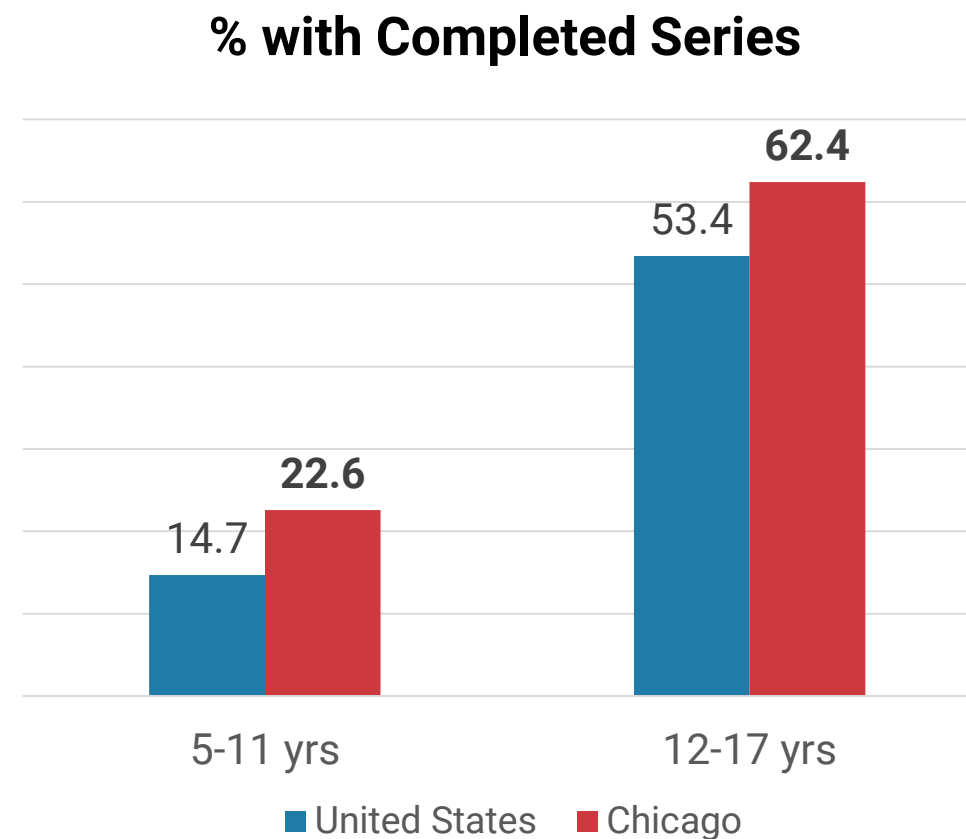
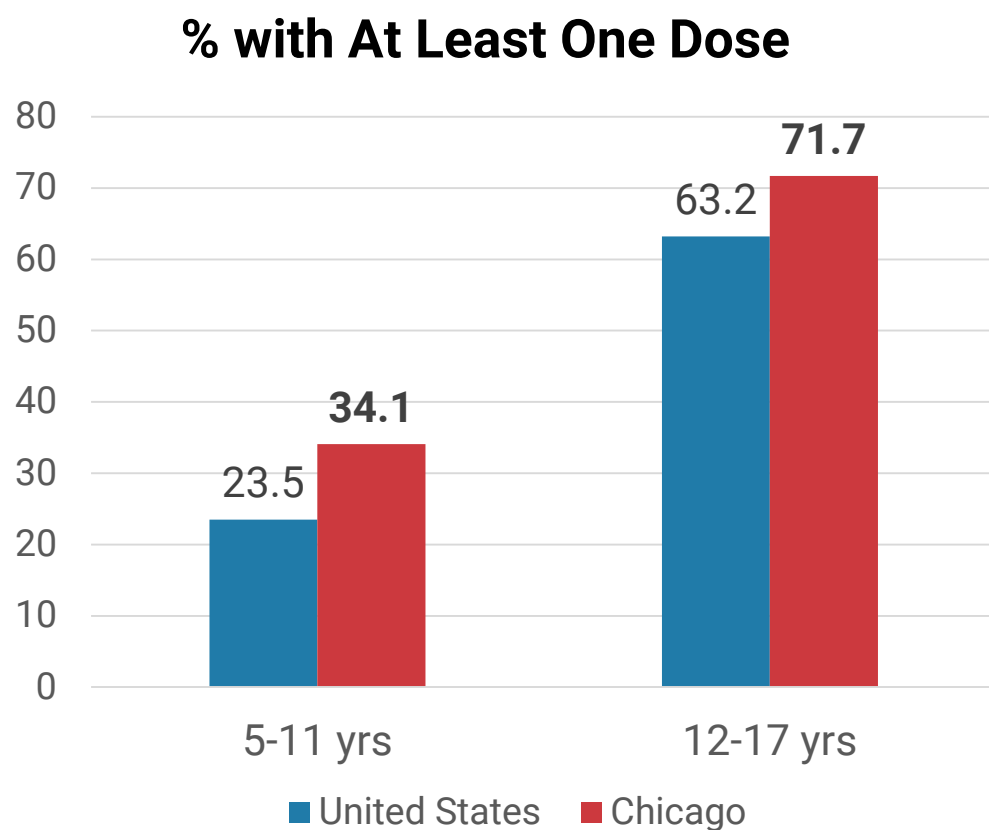
	United States	Chicago
Population ≥ 18 years	35.6%	38.7%
Population ≥ 50 years	47.5%	50.2%
Population ≥ 65 years	57.6%	60.1%

*Not all may be due to receive a booster dose

Data as of 12/28/2021. The count of people who received a booster dose includes anyone who is fully vaccinated and has received another dose of COVID-19 vaccine since August 13, 2021. This includes people who received booster doses and people who received additional doses.

United States source: https://covid.cdc.gov/covid-data-tracker/#vaccinations_vacc-people-additional-dose-totalpop. Accessed 12/28/2021

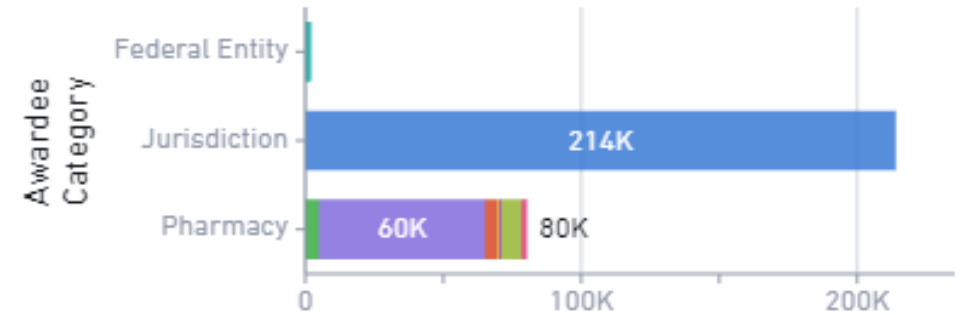
Chicago youth have higher COVID-19 vaccination rates than youth Nationwide



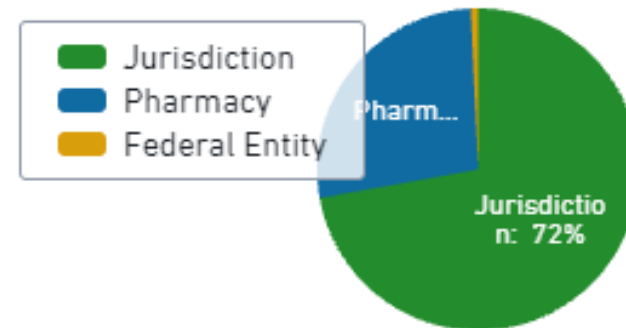
★ Vaccines ARE available!

- Pediatric vaccine shipped to Chicago provider sites: **294,700 doses**
 - 72% Chicago providers; 27% pharmacies
- Active COVID-19 Pediatric Providers: **205 sites**
- Number of pediatric orders processed: **663 orders**

Doses Ordered by Awardee Grouped by Category



Doses Ordered by Awardee Category



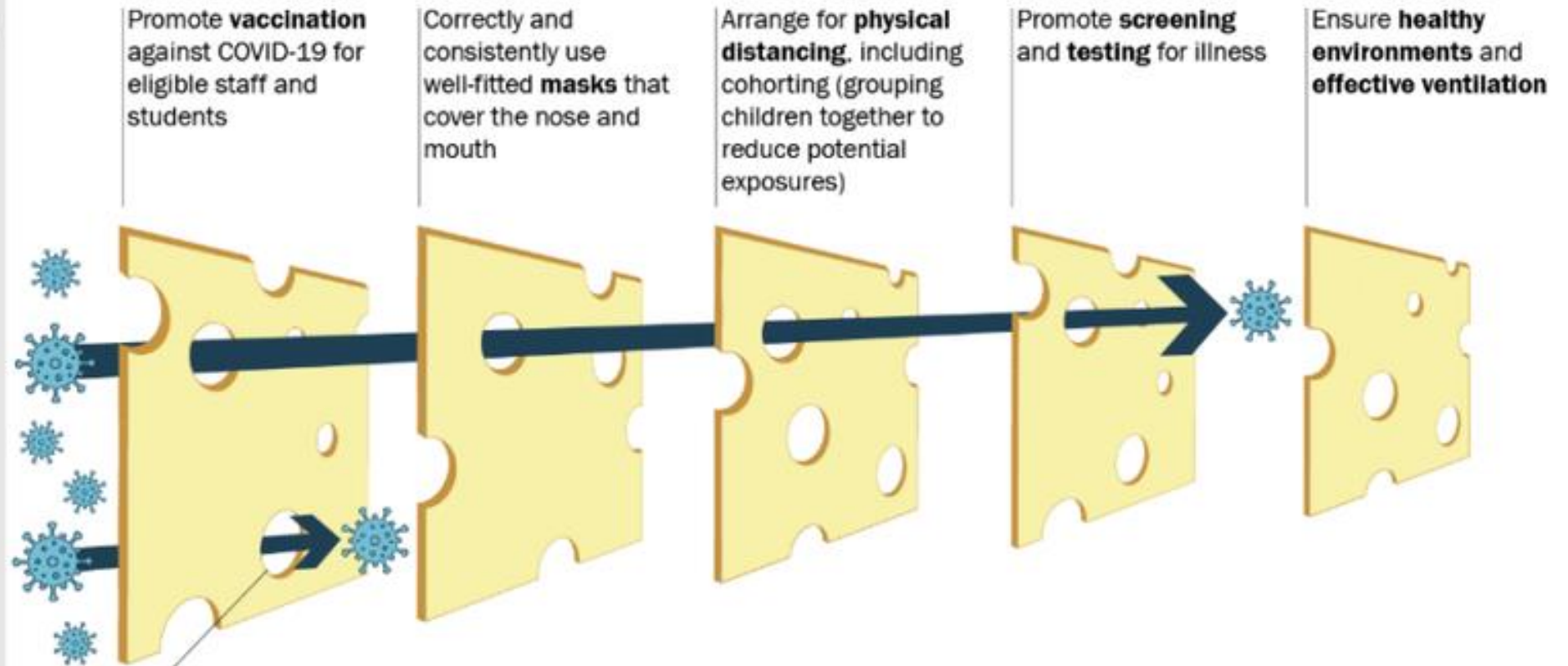
Layers of Defense Against COVID-19 in Schools

CDC recommended prevention strategies can be layered in different ways – the number and intensity of the layers can increase if community transmission increases

As community transmission increases, more holes appear in the defenses, meaning more layers of protection may be needed.



As the vaccination rate within a building or facility increases, fewer holes will appear in the defenses.



Holes in our defenses show that no one intervention is perfect, but layering them together increases success.

Image credit: Michigan Dept of Health and Human Services, Ian M. Mackay (virologydownunder.com) and James T. Reason



COVID-19

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Science Brief: Transmission of SARS-CoV-2 in K-12 Schools and Early Care and Education Programs – Updated

Updated Dec. 17, 2021 [Print](#)

- CDC's [Science Brief on Transmission of SARS-CoV-2 in K–12 Schools](#) summarizes evidence on COVID-19 among children and adolescents and what is known about preventing transmission in schools.
- Although outbreaks in schools can occur, **multiple studies have shown that transmission within school settings is typically lower than – or at least similar to – levels of community transmission, when prevention strategies are in place in schools.**

Need a vaccine or a booster? Have questions?

visit **CHI.GOV/COVIDVAX**

or call **312-746-4835**



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