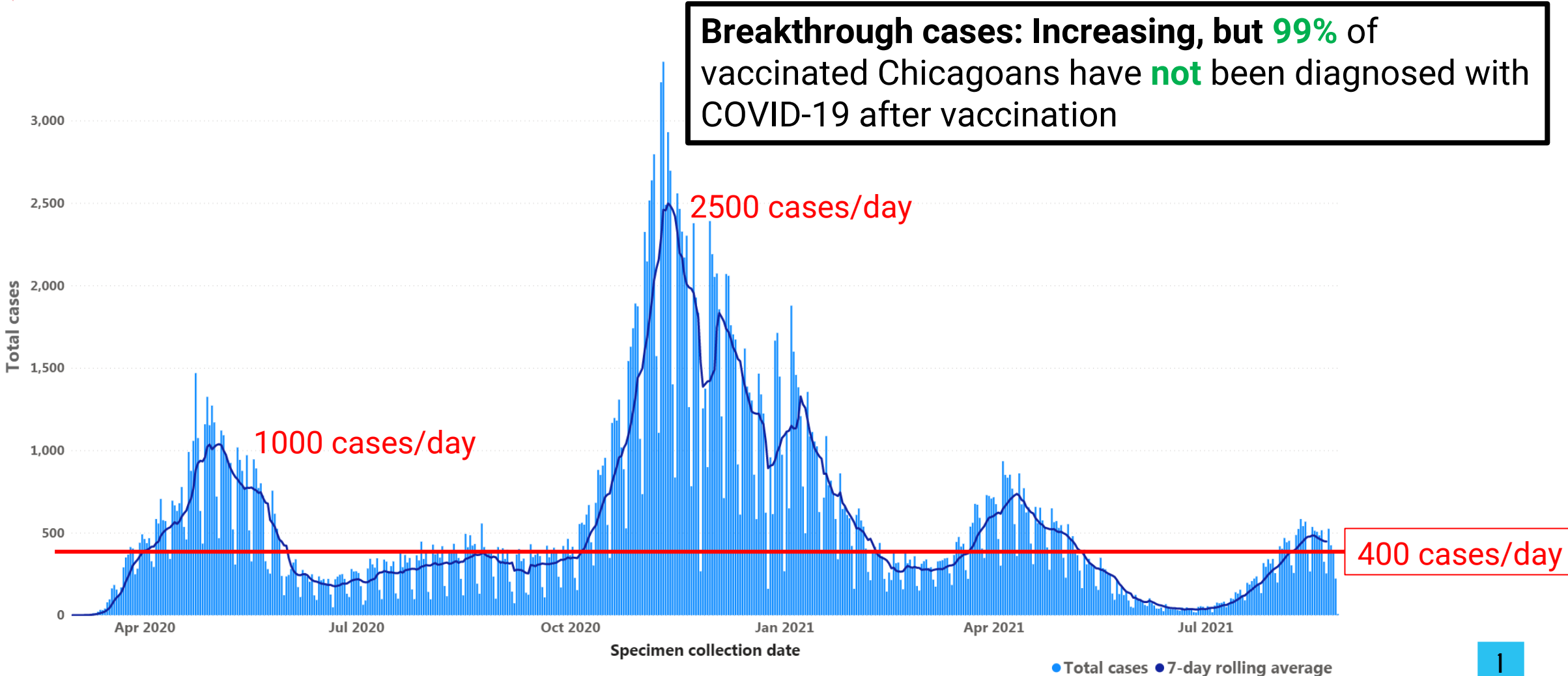


Chicago COVID-19 **case** count remains over 400 diagnosed cases per day, but increase has stabilized

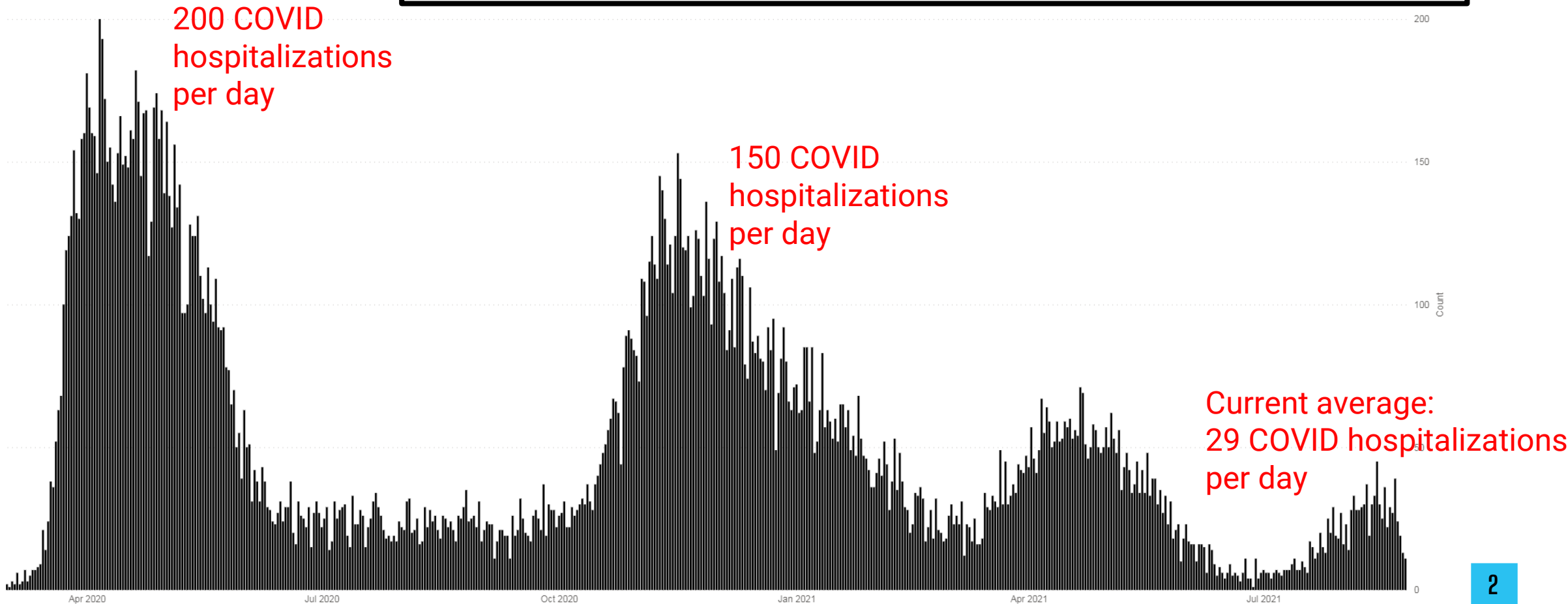


Breakthrough cases: Increasing, but 99% of vaccinated Chicagoans have not been diagnosed with COVID-19 after vaccination

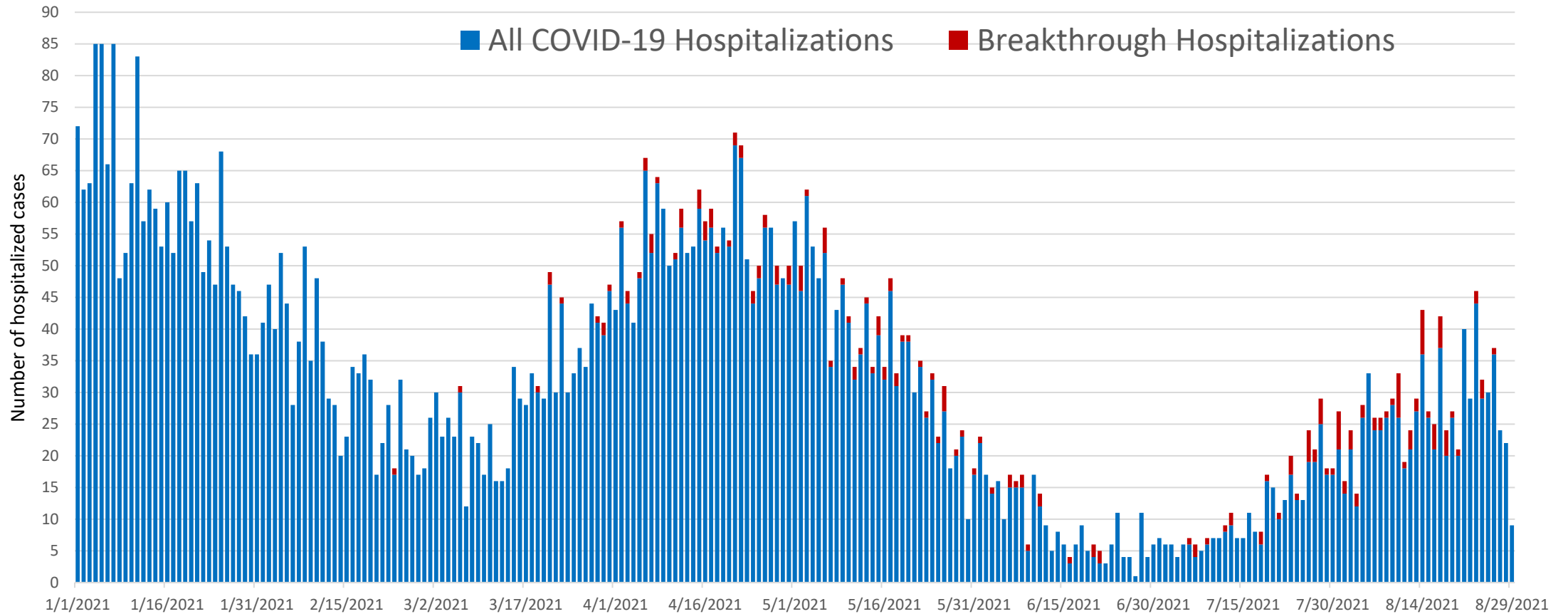


Daily COVID hospitalizations for Chicago residents remain well below earlier pandemic peaks

Breakthroughs: 99.9% of vaccinated Chicagoans have **not** been hospitalized with COVID-19 after vaccination

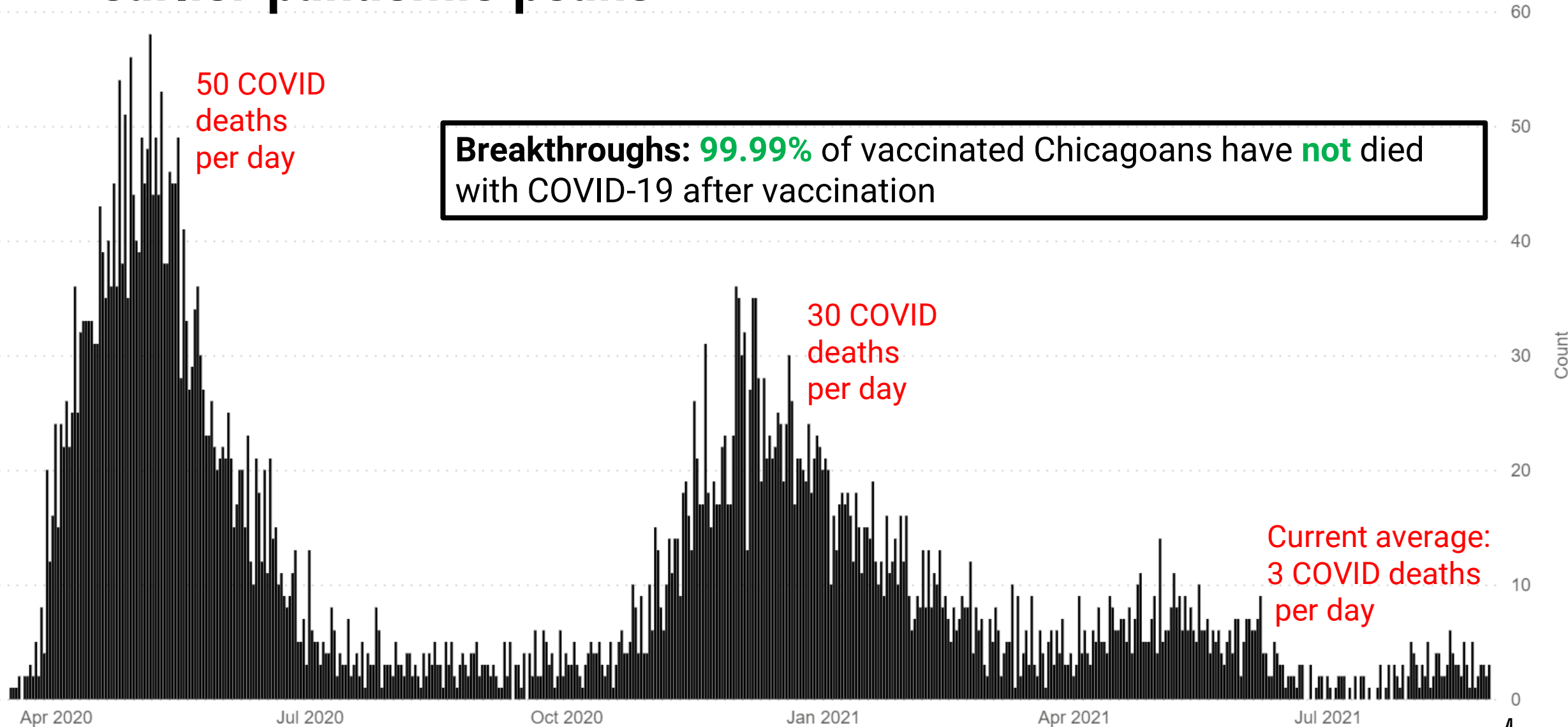


Chicago COVID-19 Hospitalizations by Date of Admission and Vaccination Status, Jan 1, 2021-Aug 31, 2021



Total number of hospitalizations since Jan 1, 2021=6781
Breakthrough hospitalizations since Jan 1, 2021 = 231

Daily COVID **deaths** for Chicago residents remain well below earlier pandemic peaks



Chicago estimates: Distribution of at least partial COVID immunity by source within age strata (% of stratum)



<u>Age group</u>	<u>Seroprevalence</u>	<u>Fraction immune from vaccination (completed series + two weeks)</u>	<u>Fraction immune</u>	<u>Fraction with some immunity from infection only</u>	<u>Fraction susceptible</u>
0-11	45%	0%	45%	45%	55%
12-17	45%	44%	69%	25%	31%
18-29	39%	54%	72%	18%	28%
30-39	39%	63%	77%	14%	23%
40-49	39%	69%	81%	12%	19%
50-59	35%	75%	84%	9%	16%
60-69	29%	74%	81%	8%	19%
70-79	22%	69%	76%	7%	24%
80+	22%	61%	69%	9%	31%
All ages	35%	55%	71%	16%	29%

Central simplifications

Seroprevalence is the portion of the population with evidence of prior COVID infection from chemical analysis of blood (see: <https://covid.cdc.gov/covid-data-tracker/#national-lab>)

Vaccination data updated through August 31.

Seroprevalence (last updated on 8/26) in mid-July for Illinois applies to Chicago today. Peak seroprevalence for age group is best estimate.

Seroprevalence is equally distributed by age within each age stratum (so 60-69 is average)

Likelihood/risk of getting vaccinated is independent of prior infection status

Chicago estimates: Distribution of at least partial COVID immunity by source within age strata, **counts**



<u>Age group</u>	<u>Seroprevalence</u>	<u>Fraction immune from vaccination (completed series + two weeks)</u>	<u>Number immune</u>	<u>Number with some immunity from infection only</u>	<u>Number susceptible</u>
0-11	168,929	0	168,929	168,929	205,636
12-17	81,567	78,855	124,859	46,004	56,000
18-29	204,921	284,466	378,729	94,263	148,059
30-39	182,558	294,720	362,632	67,911	106,668
40-49	132,345	233,050	274,739	41,689	65,480
50-59	104,382	222,033	247,815	25,782	47,049
60-69	74,910	191,842	211,693	19,851	49,316
70-79	34,714	108,717	119,513	10,796	38,277
80+	19,484	53,582	61,278	7,696	27,287
All ages	953,661	1,468,208	1,902,124	433,916	791,835

Central simplifications

Seroprevalence is the portion of the population with evidence of prior infection from chemical analysis of blood (see: <https://covid.cdc.gov/covid-data-tracker/#national-lab>)

Vaccination data updated through August 31.

Seroprevalence (last updated on 8/26) in mid-July for Illinois applies to Chicago today. Peak seroprevalence for age group is best estimate.

Seroprevalence is equally distributed by age within each age stratum (so 60-69 is average)

Likelihood/risk of getting vaccinated is independent of prior infection status

Note: small discrepancy between summing age groups and all ages row attributable to using Illinois not Chicago age structure for seroprevalence estimate



GET VACCINATED. GET \$100

AS OF 9/4/2021

\$100 Visa gift cards will be offered to anyone who gets vaccinated against COVID-19 at a CDPH mobile vaccination event or at home.

**Everyone 12+ is eligible to
receive a vaccine and a gift card.**

FIND YOUR VACCINE

[CHI.GOV/COVIDVAX](https://chi.gov/covidvax) ★ (312) 746-4835

