

# Ask Dr. Arwady

10/12/21



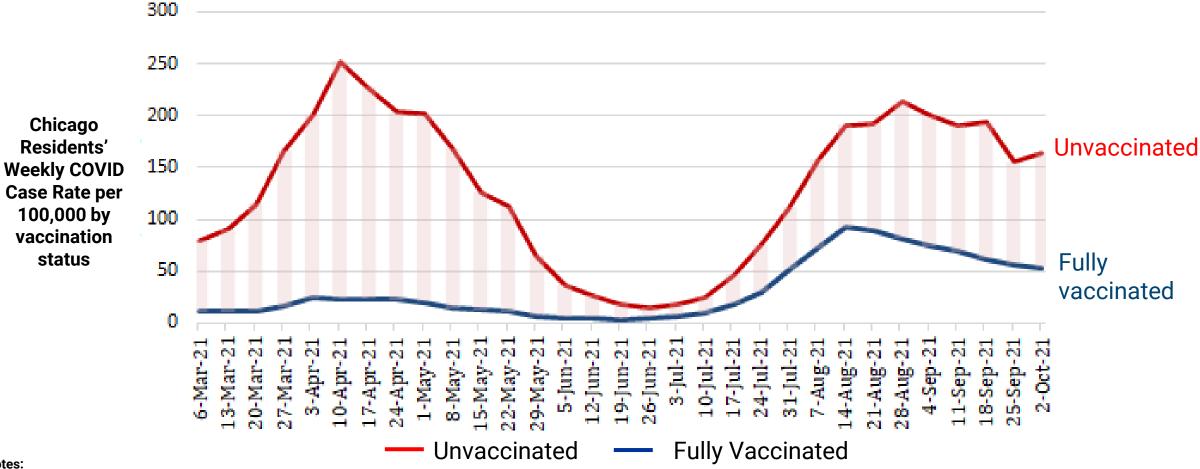
## Chicago COVID-19 Community Transmission and Risk Matrix

	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+	400 – 799	200 - 399 Current: 352 Decreasing	20 - 199	<b>&lt;20</b>
COVID-19 TEST POSITIVITY Chicago residents - 7-day rolling daily average	10%+	6.6 - 9.9%	5.0 - 6.5%	2 - 4.9% Current: 2.2% Decreasing	<2%
HOSPITAL BEDS (NON-ICU) OCCUPIED BY COVID PATIENTS Chicago hospitals - 7-day rolling daily average	1250+	<b>750 - 1249</b>	250 - 749	100 - 249 Current: 184 Decreasing	<b>&lt;100</b>
ICU BEDS OCCUPIED BY COVID PATIENTS Chicago hospitals - 7-day rolling daily average	400+	<b>300 – 399</b>	100 – 299	20 - 99 Current: 88 Decreasing	<b>&lt;20</b>

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



Even in Delta surge alone, unvaccinated Chicagoans have been MORE THAN TWICE as likely as vaccinated Chicagoans to be diagnosed with COVID-19.



#### Notes:

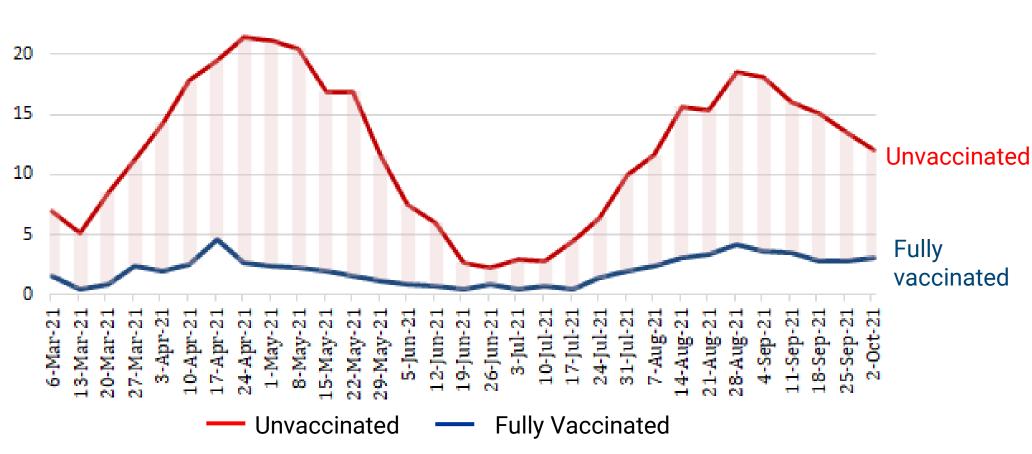
Includes cases among Chicago residents reported into the Illinois Electronic Disease Surveillance System (I-NEDSS) with date of specimen collection 2/28/2021-10/2/2021, pulled 10/6/2021. Vaccination status obtained from the Illinois Comprehensive Automated Immunization Registry (I-CARE) registry. Fully 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.





Even in Delta surge alone, unvaccinated Chicagoans have been more than FIVE TIMES as likely as vaccinated Chicagoans to be hospitalized with COVID-19.





#### Notes:

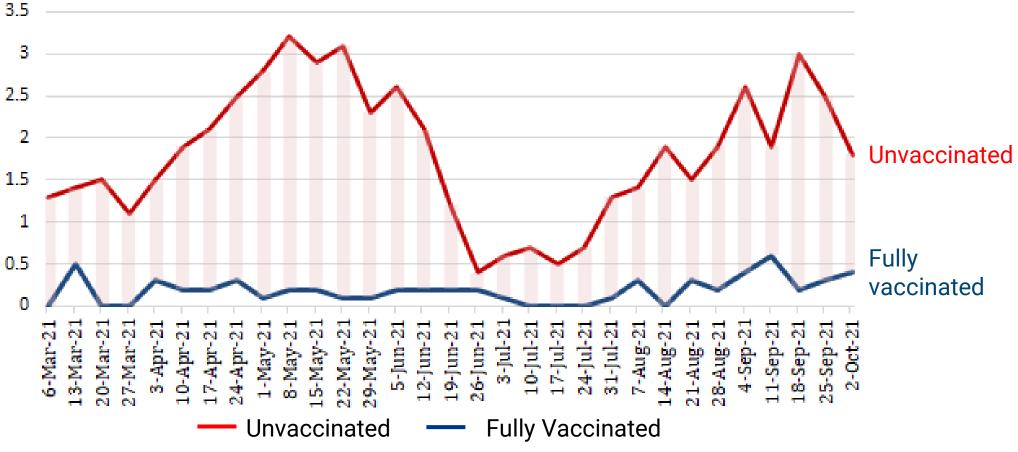
Includes cases among Chicago residents reported into the Illinois Electronic Disease Surveillance System (I-NEDSS) with date of hospital admission 2/28/2021-10/2/2021, pulled 10/6/2021. Vaccination status obtained from the Illinois Comprehensive Automated Immunization Registry (I-CARE) registry. Fully 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 hospitalized cases divided by cumulative vaccinated at the end of each week, multiplied by 100,000. Rate for unvaccinated calculated as total hospitalized cases divided by total population minus cumulative vaccinated at the end of each week, multiplied by 100,000.

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



Even in Delta surge alone, unvaccinated Chicagoans have been more than EIGHT TIMES as likely as vaccinated Chicagoans to die from COVID-19.





#### Notes:

Includes cases among Chicago residents reported into the Illinois Electronic Disease Surveillance System (I-NEDSS) with date of death 2/28/2021-10/2/2021, pulled 10/6/2021.

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 case deaths divided by cumulative vaccinated at the end of each week, multiplied by 100,000.

Rate for unvaccinated calculated as total case deaths divided by total population minus cumulative vaccinated at the end of each week, multiplied by 100,000.

## Reminder: CDC Booster guidance (Pfizer only)

## **SHOULD RECEIVE BOOSTER**

- People 65+ and long-term-care facility residents SHOULD receive... a Pfizer booster at least 6 months after their Pfizer primary vaccine series. Benefit/risk balance is most favorable for adults >65 years.
- People 50-64 with underlying medical conditions SHOULD receive...

## **MAY RECEIVE BOOSTER**

- People 18-49 with underlying medical conditions MAY receive...
- People 18-64 who are at increased risk for COVID-19 exposure and transmission because of occupational or institutional setting MAY receive...

Moderna and J and J boosters expected be evaluated "in the coming weeks, to swiftly make additional recommendations"

For public health purposes (e.g. vaccination employment requirements, quarantine, etc), at this point people continue to be considered fully vaccinated when they have completed the *primary* series



# Looking ahead: More booster data and potential vaccines for children 5-11 years old in early November

October 14: FDA's advisory committee to begin considering Moderna booster

October 15: FDA's advisory committee to begin considering J and J booster

October 26: FDA's advisory committee to begin considering Pfizer for 5-11 year-olds



# Visit Chicago.gov/flu to find out where you can get your FLU and COVID vaccine



## Chicago.gov/flu

1	Date	Time	Flu/COVID Clinic Location	Address	Registration Information
	10/12/2021	10:00a- 2:00p	48 <sup>th</sup> Ward St Ita Catholic Chu	rch 5500 N Broadway St	Register Here + walk-ins welcome
U Clinic	10/13/2021 <b>S</b>	11:00a- 3:00p	3rd Ward City Service Office	5046 S State St	Register Here + walk-ins welcome
ppening DDAY	10/13/2021	10:00a- 2:00p	42 <sup>nd</sup> Ward Chicago Temple	77 W Washington St	Register Here + walk-ins welcome
	10/14/2021	9:00a- 2:00p	City Hall	121 N LaSalle St	Register Here +walk-ins welcome
fizer ooster	10/15/2021	9:00a-1:00p	25th Ward Aldermanic Office	2100 W Cermak Rd	Register Here + walk-ins welcome
nots also 16 vailable	10/15/2021	11:00a- 3:00p	33 <sup>rd</sup> Ward Roosevelt High Sch	nool 3436 W Wilson Ave	Register Here + walk-ins welcome
	10/15/2021	11:00a- 3:00p	40th Ward Aldermanic Office	5620 N Western Ave	Register Here + walk-ins welcome



# CDPH/large City College sites will be offering Pfizer booster doses in addition to FLU and COVID primary series vaccines

### Saturday, October 16, 2021

- Wright College Family Flu/COVID (4300 N Narragansett Ave)
- Arturo Velasquez Institute Family Flu/COVID (2800 S Western Ave)
- Kennedy King College Family Flu/COVID (6301 S Halsted St)

## Saturday, October 23, 2021

- Daley College Family Flu/COVID (7500 S Pulaski Rd)
- Truman College Family Flu/COVID (1145 W Wilson Ave)



## Neighbors for Life: Mr. Taylor & Kamren





## **Keep an eye out for more of these stories**

### ABC (WLS)

- Weekdays 7a-9a Good Morning America
- Friday 7p-8p Shark Tank
- Saturday 5:58p-6:58p Jeopardy and Wheel of Fortune
- Sunday 7-8p Celebrity Wheel of Fortune

### CBS (WBBM):

- Tuesday 7-8p FBI
- Wednesday 9-10p CSI
- Friday 8-10p Magnum PI and Blue Bloods
- Sunday 6-7p 60 Minutes

### FOX (WFLD):

Thursday 6:30-7p NFL Thursday Night Football Pre

### NBC (WMAQ):

- Weekdays 7-9a Today Show
- Sunday 8-9a News

#### WGN:

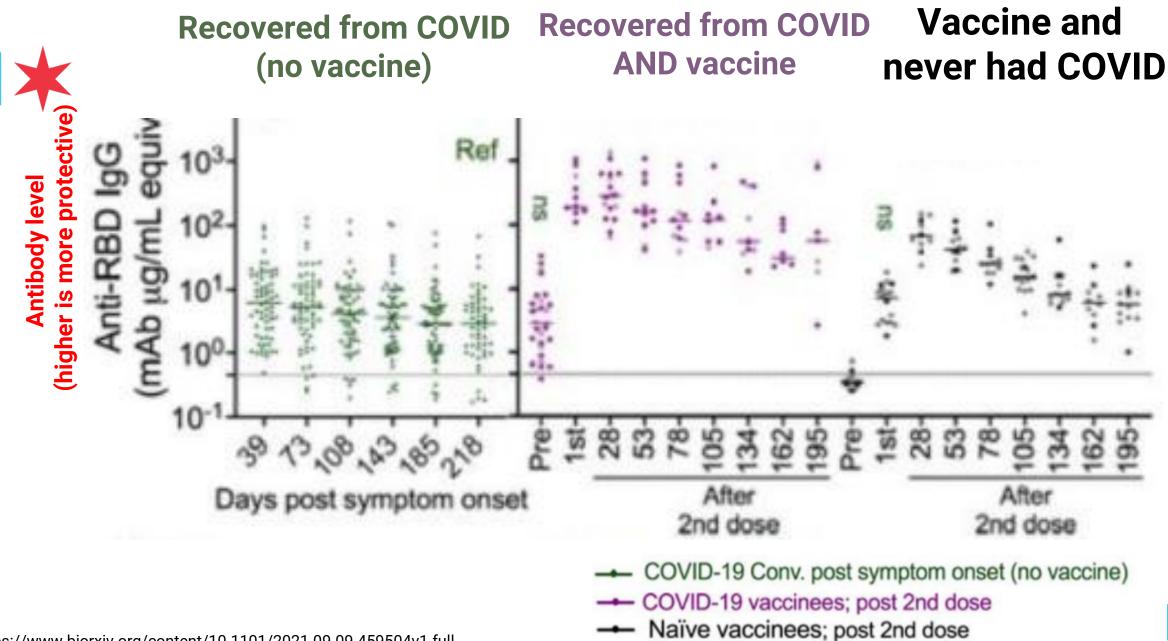
Weekdays 4-5p and 6-7p News

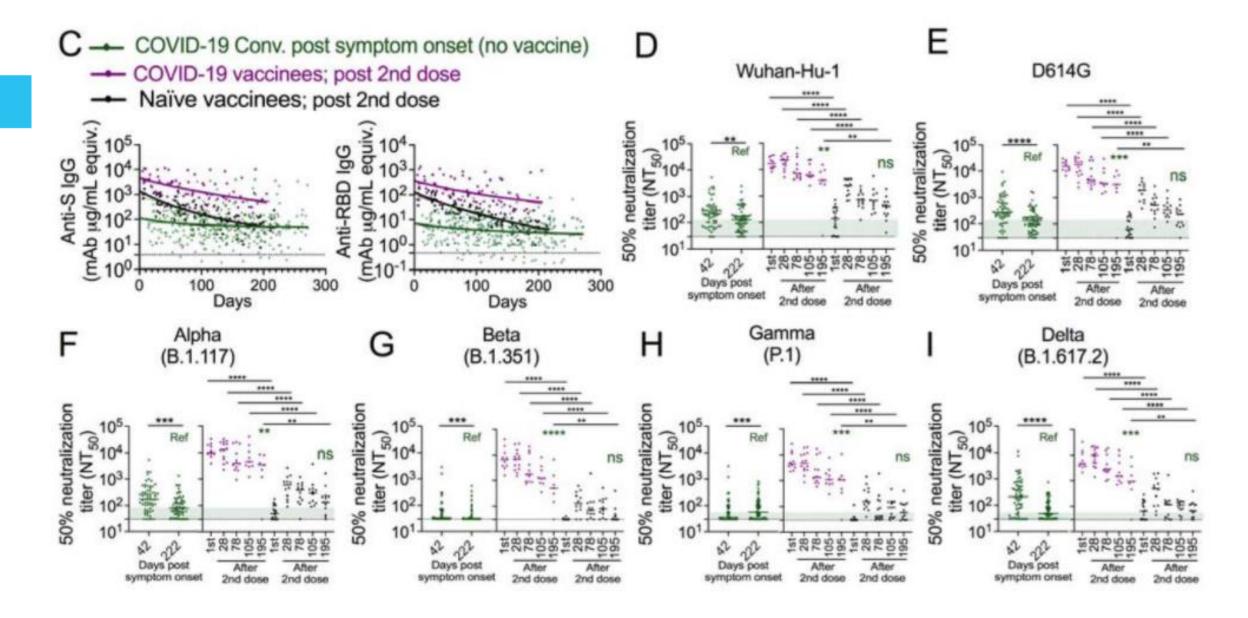
#### **Telemundo (WSNS):**

- Weekdays 4-6p Early News
- Sunday 7-9p As Se Baila

### **Univision (WBGO):**

- Weekdays 5-5:30p Noticias Chicago
- Sunday 6-7p Aqui Y Ahora
- Sunday 7-9p Sunday Movie





# Chicago estimated COVID-susceptible (no vaccination or recovery from COVID)



		Fraction immune			
		from vaccination		<u>Fraction</u>	
		(completed series	<u>Fraction</u>	immune from	<u>Fraction</u>
Age group	<u>Seroprevalence</u>	+ two weeks)	<u>immune</u>	infection only	<u>susceptible</u>
0-11	45%	0%	45%	45%	55%
12-17	45%	52%	73%	22%	27%
18-29	39%	57%	74%	17%	26%
30-39	39%	65%	79%	14%	21%
40-49	39%	71%	82%	11%	18%
50-59	35%	78%	86%	8%	14%
60-69	29%	75%	82%	7%	18%
70-79	22%	70%	77%	7%	23%
80+	22%	62%	70%	8%	30%
All ages	35%	57%	72%	15%	28%

#### **Central simplifications**

Seroprevalence is the portion of the population with evidence of prior infection from chemical analysis of blood (see: <a href="https://covid.cdc.gov/covid-data-tracker/#national-lab">https://covid.cdc.gov/covid-data-tracker/#national-lab</a>) Vaccination data updated through September 28.

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

Proportion immune using seroprevalnce and vaccination.xlsx

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		Fraction immune			
		<u>from vaccination</u> <u>Number</u>			
		(completed series	<u>Number</u>	immune from	<u>Number</u>
Age group	<u>Seroprevalence</u>	+ two weeks)	<u>immune</u>	infection only	<u>susceptible</u>
0-11	168,929	0	168,929	168,929	205,636
12-17	81,567	93,504	132,901	39,397	47,958
18-29	204,921	298,689	387,419	88,731	139,369
30-39	182,558	305,984	369,514	63,530	99,786
40-49	132,345	242,236	280,351	38,115	59,868
50-59	104,382	229,404	252,577	23,173	42,287
60-69	74,910	196,279	214,856	18,578	46,153
70-79	34,714	110,437	120,855	10,418	36,935
80+	19,484	54,467	61,969	7,501	26,596
All ages	953,661	1,530,169	1,942,150	411,982	751,809

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