# I-VAC Adult Learning Collaborative for COVID-19 Vaccination



Please use your first name and health center name when you join the session



Use the "chat" feature to let us know if you have a question



Please remember to mute your microphone unless speaking



If you can't connect audio via computer or lose computer audio at anytime, you can call in to session at (669) 900-6833, Meeting ID 999-9467-0942##

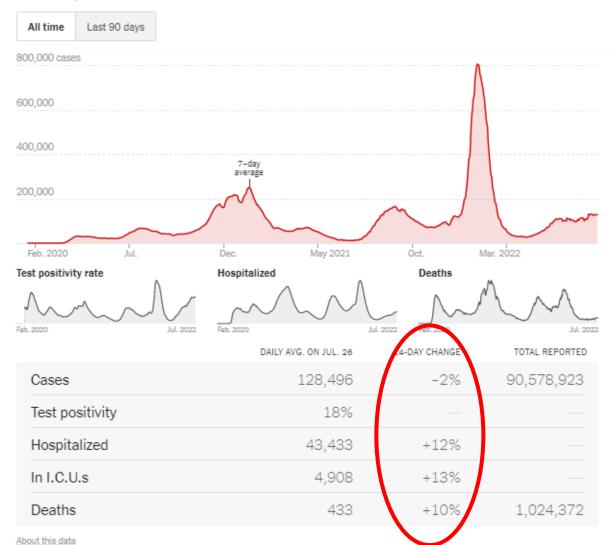


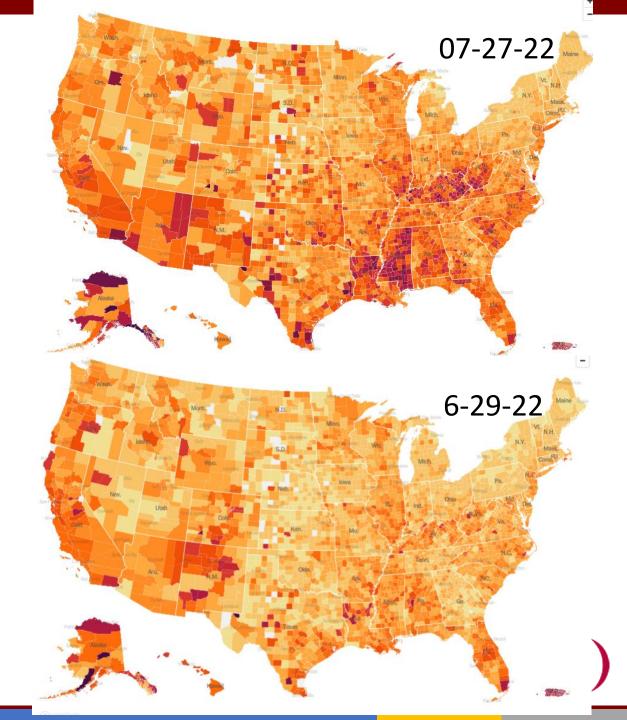




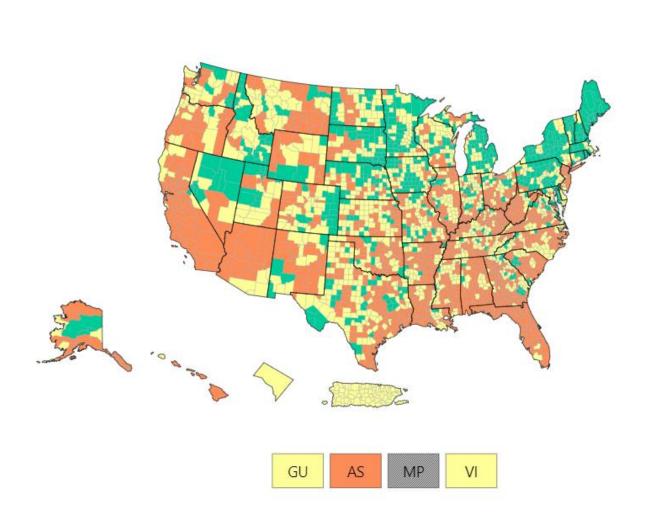
## Coronavirus in the U.S.: Latest Map and Case Count

#### New reported cases





## COVID-19 Community Levels of All Counties in US



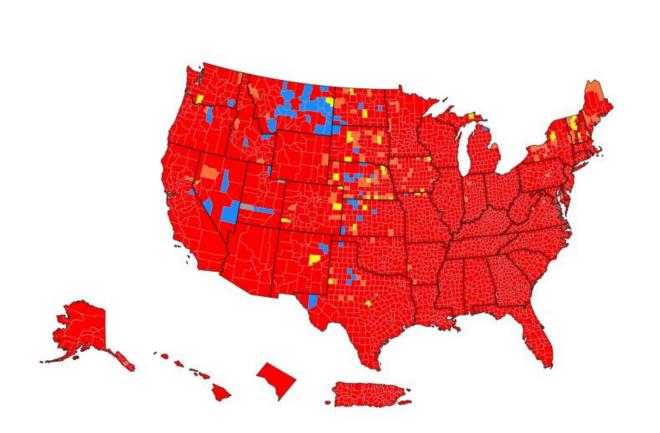
#### COVID-19 Community Levels in US by County

		Total	Percent	% Change	
	High	1353	41.98%	6.52%	
	Medium	1212	37.6%	- 2.05%	
I	Low	658	20.42%	- 4.47%	

How are COVID-19 Community Levels calculated?

Wed Jul 27 2022 12:54:12 GMT-0500

## Community Transmission of All Counties in US



#### Community Transmission in US by County

	Total	Percent	% Change
High	3011	93.45%	- 0.06%
Substantial	112	3.48%	- 0.37%
Moderate	34	1.06%	- 0.4%
Low	63	1.96%	0.81%

How is community transmission calculated?

Jan 2021

Jul 2021

Jan 2022

Data current as of Jun 28, 2022

Jan 2022

Data are updated M-F at 5:30 p.m., except for City holidays.

All data are provisional and subject to change.

**CASES BY ZIP TESTS VACCINES VACCINES BY ZIP** (?) Learn how to use this dashboard. SUMMARY **CASES HOSPITALIZATIONS** DEATHS **盆 CASES** 710 683 (+4%) 637,618 26.2 0.57 (+50%) 29 (0%) 43,641 1.1 0.86 7,738 0.0 29 ↔ Daily rate per 100,000 Current daily avg Prior week Current daily avg Prior week Cumulative Daily rate per 100,000 Prior week Cumulative Current daily avg Daily rate per Cumulative 100,000 Jan 2021 Jan 2022 Jul 2020 Jan 2021 Jan 2022 Jul 2020 Jan 2021 Jan 2022 Jul 2020 Jul 2021 Jul 2021 **\*** VACCINATIONS ADMINISTERED **TESTS PERFORMED ■ POSITIVITY RATE** 77.1% 7,743 **V** 2,153 4,991,727 69.5% 7,845 (-1%) 12,289,898 10.9% 10.5% Current daily avg Current daily avg Cumulative Completed series At least one dose Prior week Cumulative Current daily avg Prior week 20K

Jul 2020

Jan 2021

Jul 2021

slalom

Jan 2022

Jul 2020

Jan 2021

Data current as of Jul 26, 2022.

4-F at 5:30 p.m., except for City holidays All data are provisional and subject to change.

SUMMARY

CASES

CASES BY ZIP

**TESTS** 

**VACCINES** 

**VACCINES BY ZIP** 

(?) Learn how to use this dashboard.

#### **盆 CASES**

805 Current daily avg

804 (+0%) Prior week

660,687

Cumulative

Daily rate per 100,000

29.7

### **HOSPITALIZATIONS**

23 V Current daily avg 26 (-12%)

Prior week

44,372

Cumulative

0.8

Daily rate per 100,000 Current daily avg

### **DEATHS**

0.29 V

1.29 (-78%) Prior week

7.766

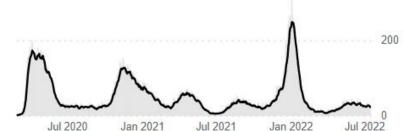
0.0

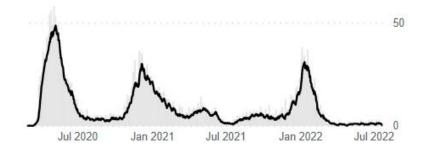
Cumulative

Daily rate per 100,000



Jul 2021





## **\* VACCINATIONS ADMINISTERED**

### **EMERGENCY ROOM VISITS**

2.736 V

Current daily avg

Jul 2020

5.064.983 Cumulative

Jan 2021

69.7% Completed series

Jan 2022

77.7%

Jul 2022

At least one dose

3.2% ↔

Current daily avg

3.2%

Prior Week

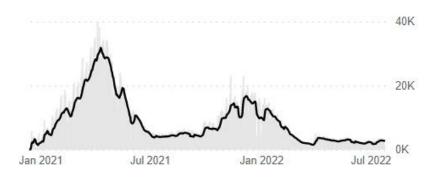


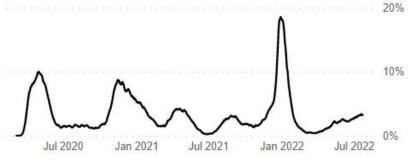
4.5%

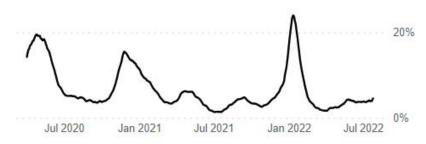
3.9%

Current daily avg

Prior Week







## Our local risk based on CDC COVID-19 Community Levels is:

## High

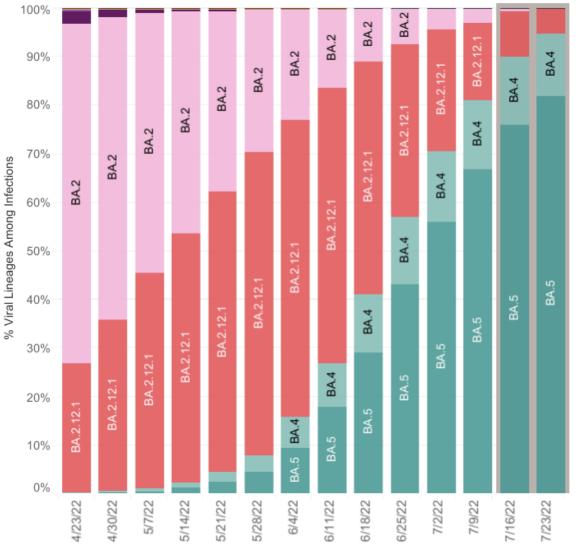
	New cases per 100,000 population (last 7 days)  [Goal is <200]	New admissions per 100,000 population (last 7 days)  [Goal is <10]	Percent of staffed inpatient beds occupied by COVID-19 patients (last 7 days)  [Goal is <10%]
City of Chicago	207	4.8	3.8%
Cook County (including City of Chicago)	217	12.7	4.5%

Chicago metrics are calculated based on Chicago-level data.

Cook County metrics are calculated by the CDC and posted on the CDC Community Levels website.

Data current as of 7/22/2022.





#### USA

WHO label	Lineage #	US Class	%Total	95%PI	
Omicron	BA.5	VOC	81.9%	79.9-83.8%	
	BA.4	VOC	12.9%	11.2-14.7%	
	BA.2.12.1	VOC	5.0%	4.5-5.4%	
	BA.2	VOC	0.3%	0.2-0.3%	
	B.1.1.529	VOC	0.0%	0.0-0.0%	
	BA.1.1	VOC	0.0%	0.0-0.0%	
Delta	B.1.617.2	VBM	0.0%	0.0-0.0%	
Other	Other*		0.0%	0.0-0.0%	

<sup>\*</sup> Enumerated lineages are US VOC and lineages circulating above 1% nationally in at least one week period. "Other" represents the aggregation of lineages which are circulating <1% nationally during all weeks displayed.





<sup>\*\*</sup> These data include Nowcast estimates, which are modeled projections that may differ from weighted estimates generated at later dates

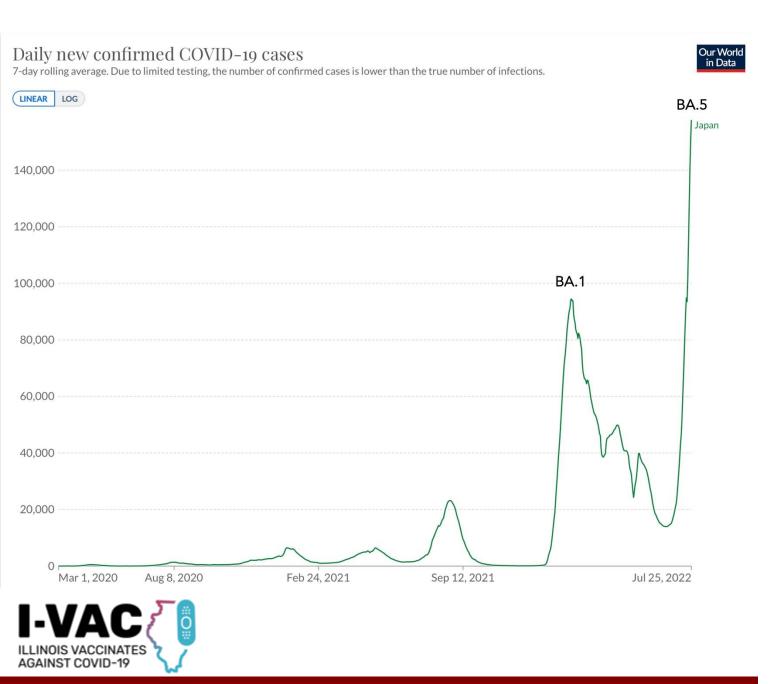
<sup>#</sup> AY.1-AY.133 and their sublineages are aggregated with B.1.617.2. BA.1, BA.3 and their sublineages (except BA.1.1 and its sublineages) are aggregated with B.1.1.529. For regional data, BA.1.1 and its sublineages are also aggregated with B.1.1.529, as they currently cannot be reliably called in each region. Except BA.2.12.1, BA.2 sublineages are aggregated with BA.2. Sublineages of BA.4 are aggregated to BA.4. Sublineages of BA.5 are aggregated to BA.5.

## BA.5 Summary

- Most distant from ancestral strain spike protein
- Considerably more fit than prior Omicron subvariants
- Immune evasion has been proven
- Vaccine effectiveness against hospitalization and death hold but does wane

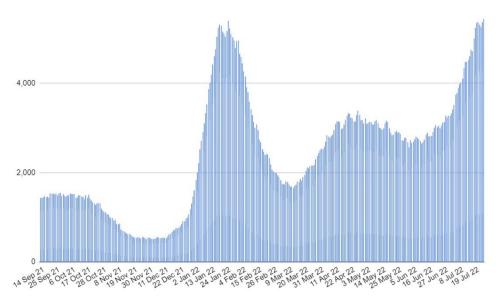


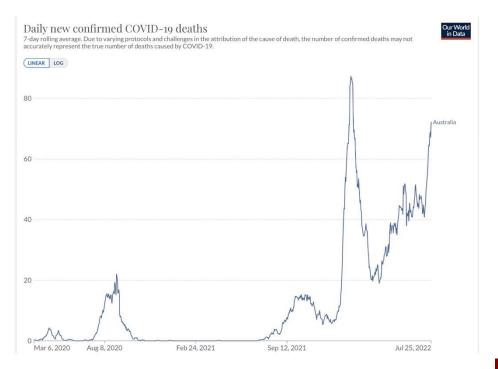




#### AUS COVID-19 Hospitalisations





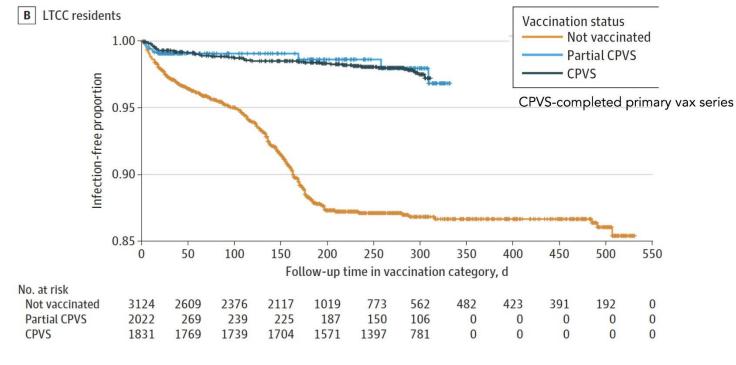


95 000 Rhode Island residents from March 2020 to December 2021, including residents and employees of long-term congregate care (LTCC) facilities

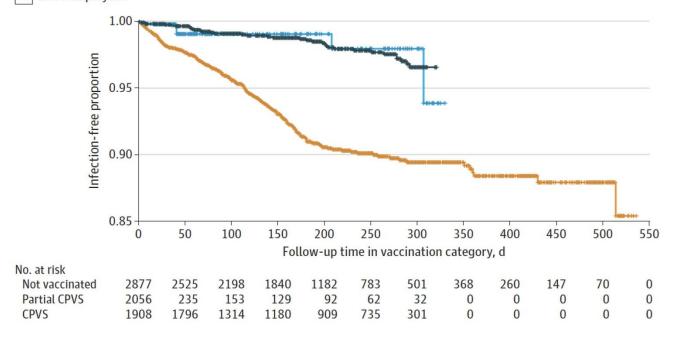
Vaccination after recovery from COVID-19 was associated with substantial benefit, reducing risk of reinfection by approximately half.

Lewis N, Chambers LC, Chu HT, et al. Effectiveness Associated With Vaccination After COVID-19 Recovery in Preventing Reinfection. *JAMA Netw Open.* 2022;5(7):e2223917. doi:10.1001/jamanetworkopen.2022.23917





#### LTCC employees



# WHAT YOU NEED TO KNOW ABOUT SUMMER FESTIVAL SAFETY



CDPH continues to strongly urge everyone to wear masks in indoor public settings and stay up to date on COVID-19 vaccines including all recommended boosters. In all cases, including attending large events and festivals, it's so important for people to stay home and get tested if they're experiencing any COVID-like symptoms.

Because of the precautions we took last year we were successful in hosting summer festivals, and we are confident it can be safely done this year too.







## AT EVENTS



Maintain social distance from people outside your party



Limit intoxicants. Consuming too much alcohol or other substances may make you less likely to follow guidelines



Wash hands frequently or use hand sanitizers that contain more than 60% of alcohol

IF YOU ARE NOT VACCINATED, wear a mask, avoid crowded areas of the festival and stay at least 6 feet away from other groups.



## BE MINDFUL



Know the event's guidelines. Each event may have different rules and safety guidelines surrounding COVID-19



Get vaccinated! It's the best way to protect yourself in social settings



CDPH urges individuals to wear masks indoor and in crowded public spaces



Monitor for symptoms after the event, and stay home/test if you develop symptoms or think you may have been exposed, even if you're vaccinated



## Novavax

- ► EUA; age 18+
- Novavax COVID-19 Vaccine, Adjuvanted contains the SARS-CoV-2 spike protein and Matrix-M adjuvant.
- Overall, the vaccine was 90.4% effective in preventing mild, moderate or severe COVID-19 (17 vaccine group and 79 placebo group); No cases of moderate or severe COVID-19 were reported in participants who received the vaccine. In the subset of participants 65 years of age and older, the vaccine was 78.6% effective. (Study prior to Delta and Omicron)
- Possible side effects:
  - Pain/tenderness, redness and swelling at the injection site
  - Fatigue
  - Muscle pain
  - Headache
  - Joint pain
  - Nausea/vomiting
  - Fever

https://www.fda.gov/news-events/pressannouncements/coronavirus-covid-19-update-fdaauthorizes-emergency-use-novavax-covid-19-vaccineadjuvanted





## Pregnancy and Breastfeeding: Vaccinate







- Reduced morbidity and mortality in pregnant woman
- Antibodies move across the placenta
- No evidence of any risk of harm to woman, fetus of newborn
- Protection of the newborn (50% reduction in risk of hospitalization of the newborn, <a href="https://www.nejm.org/doi/pdf/10.1056/NEJMoa2204399?articleTools=true">https://www.nejm.org/doi/pdf/10.1056/NEJMoa2204399?articleTools=true</a>)





Maternal and Neonatal Severe
Acute Respiratory Syndrome
Coronavirus 2 (SARS-CoV-2)
Immunoglobulin G Levels
After the Pfizer-BioNTech
Booster Dose for Coronavirus
Disease 2019 (COVID-19)
Vaccination During the Second
Trimester of Pregnancy

- Maternal and neonatal SARS-CoV-2 IgG antibody titers after second-trimester maternal Pfizer COVID-19 vaccination were <u>significantly higher after the booster</u> dose compared with the two-dose vaccination series.
- Although there is uncertainty as to whether antibody levels correlate with protection, these data support the importance of booster vaccination during pregnancy to restore maternal and neonatal protection against COVID-19.

Kugelman, Nir MD; Nahshon, Chen MD; Shaked-Mishan, et.al.

Obstetrics & Gynecology: May 27, 2022 - Volume - Issue - 10.1097/AOG.0000000000004867

doi: 10.1097/AOG.0000000000004867





## **COVID** and Fertility

A prospective cohort study of COVID-19 vaccination, SARS-CoV-2 infection, and fertility

Amelia K Wesselink, Elizabeth E Hatch, et al.

American Journal of Epidemiology, <a href="https://doi.org/10.1093/aje/kwac011">https://doi.org/10.1093/aje/kwac011</a>

**Published:** 

20 January 2022

- COVID-19 vaccination:
  - Not appreciably associated with fecundability in either partner
- SARS-CoV-2 infection:
  - Females No association with fecundability
  - Male infection transient reduction in fecundability



## **COVID** and Menstruation

## Association Between Menstrual Cycle Length and Coronavirus Disease 2019 (COVID-19) Vaccination A U.S. Cohort

Edelman A et al. Ob Gyn.

https://journals.lww.com/greenjournal/fulltext/9900/association between menstrual cycle length and.357.aspx#:~:text=Coronavir us%20disease%202019%20(COVID%2D19)%20vaccination%20is%2 Onot%20associated,and%20quantity%20of%20menstrual%20bleed ing.

In adjusted models, the difference in change in cycle length between the vaccinated and unvaccinated cohorts was less than 1 day for both doses

# Covid-19 Vaccination and Menstrual Cycle Length in the Apple Women's Health Study

Gibson EA, et al. MedRxiv. <a href="https://www.medrxiv.org/content/10.1101/2022.07.07.22277">https://www.medrxiv.org/content/10.1101/2022.07.07.22277</a> 371v1

- COVID-19 vaccination was associated with a short-term increase in menstrual cycle length, which appeared to be driven by doses received in the follicular phase
- The magnitude of this increase was small (0.5-1.8 days), diminished in each cycle following vaccination, does not persist over time and was well within the natural variability in the study population



## Questions?







## Next Session: Wednesday, August 10<sup>th</sup>

For any questions, email us at kshwest@peds.bsd.uchicago.edu





