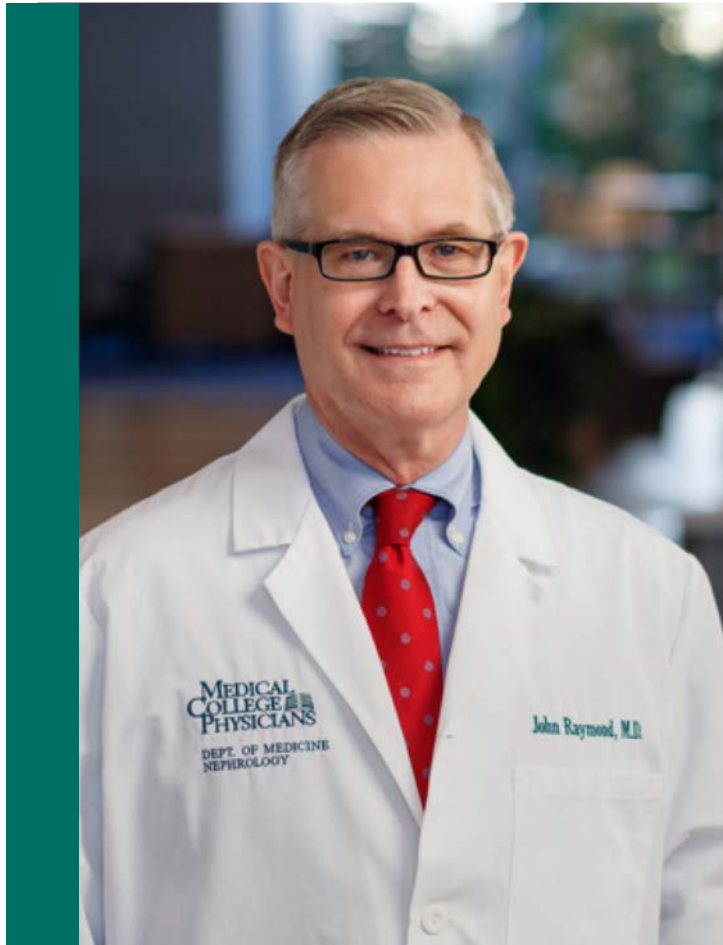




**WCA**  
**COVID-19 Update**  
08.16.2021

**PRESENTED BY:**  
John R. Raymond Sr., MD

PRESENTED BY:



## John R. Raymond Sr., MD

President and CEO  
Medical College of Wisconsin

---

Analytics by Ali Nemati  
*MCW Institute for Health and Equity*

1,139

**CONFIRMED NEW CASES**  
WISCONSIN 7-DAY AVERAGE  
TRENDING UNFAVORABLY

WISCONSIN

7.1%

**POSITIVITY BY PERSON**  
WISCONSIN 7-DAY TREND IS  
TRENDING UNFAVORABLY

1.04

**R**  
WISCONSIN

88%

**14-DAY INCREASE OF CASES**  
10th WORST STATE BEHIND NH,  
HI, SC, WV, DE, IA, ND, VT, MD, PA

145%

**14-DAY INCREASE OF  
HOSPITALIZATIONS**  
2nd WORST STATE BEHIND  
VT

22<sup>nd</sup>

**IN VACCINATIONS**



635,933

**TOTAL CASES IN WI**

113,923

**TOTAL CASES IN  
MILWAUKEE COUNTY**

7,989

**PREVIOUS HIGHEST  
DAILY POSITIVE CASES IN  
WISCONSIN**  
11.18.2020

1,649

**PREVIOUS HIGHEST  
DAILY POSITIVE CASES IN  
MILWAUKEE**  
11.09.2020

3

**DEATHS**

WISCONSIN 7-DAY AVERAGE  
(2) TRENDING UNFAVORABLY

WISCONSIN

609

**HOSPITALIZATIONS**

WISCONSIN  
TRENDING UNFAVORABLY

181

**ICU CENSUS**

WISCONSIN  
TRENDING UNFAVORABLY

1

**DEATHS**

MILWAUKEE  
7-DAY AVERAGE  
TRENDING UNFAVORABLY

MILWAUKEE

290

**HOSPITALIZATIONS**

HERC-7  
TRENDING UNFAVORABLY

107

**ICU CENSUS**

HERC-7  
TRENDING UNFAVORABLY

7,471

**TOTAL WI COVID-19  
DEATHS AS OF  
08.15.2021**

2,277

**PEAK WI COVID-19  
HOSPITAL CENSUS  
11.17.2020**

456

**PEAK WI ICU CENSUS  
11.16.2020**

104

**PREVIOUS HIGHEST  
DAILY COVID-19 DEATHS  
WISCONSIN  
11.23.2020**

11.12.2020 – 11.25.2020

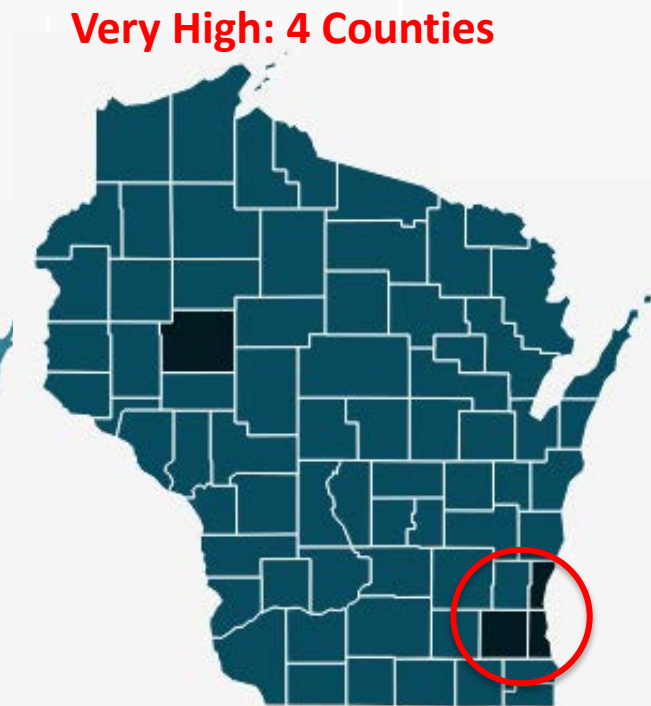
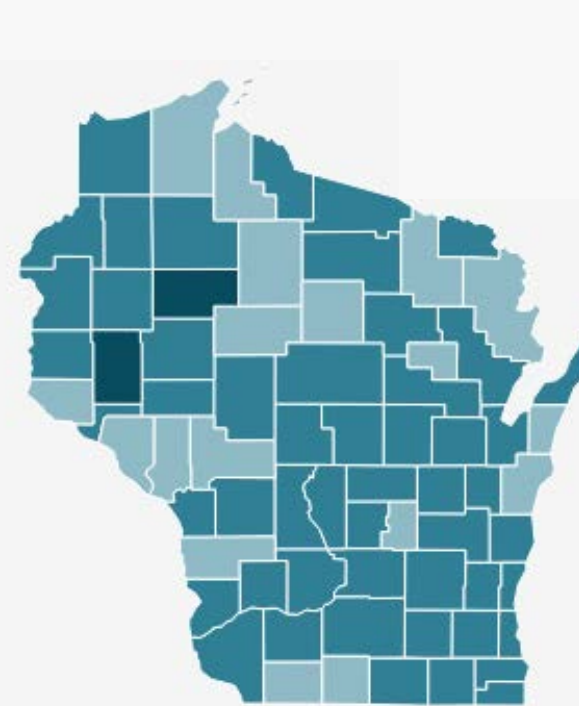
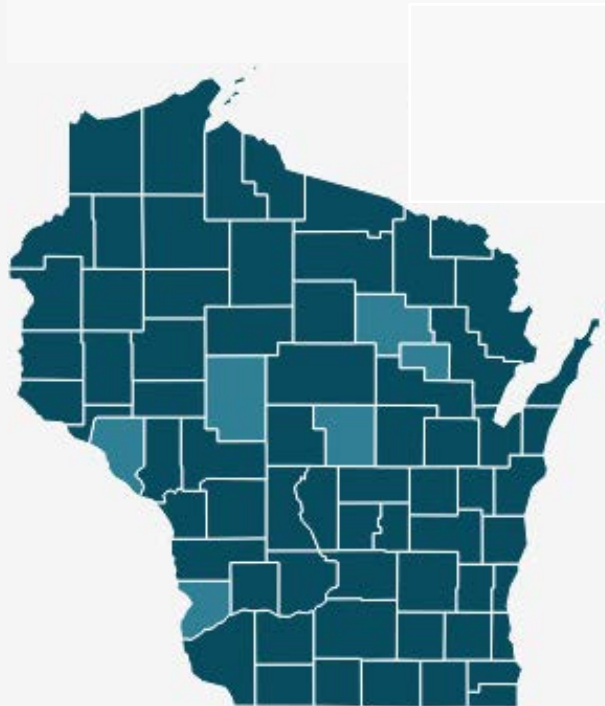
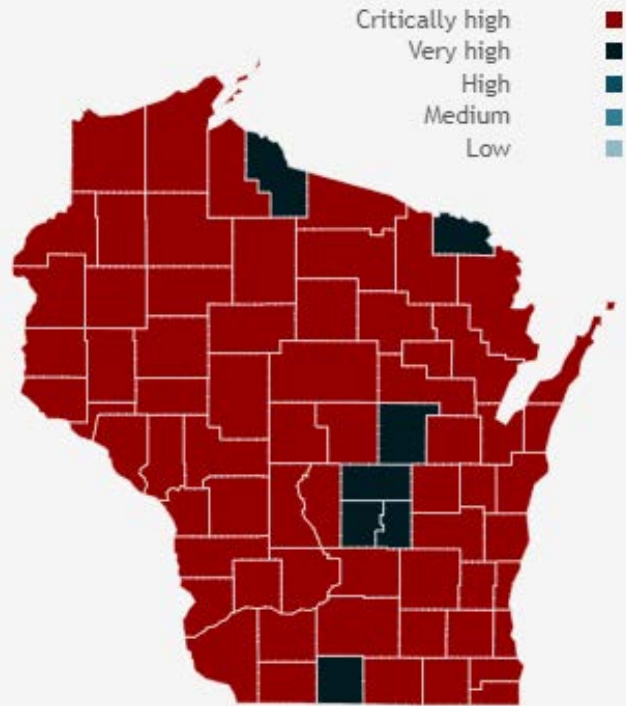
03.03.2021 – 03.16.2021

06.23.2021 – 07.06.2021

07.21.28 – 08.10.2021

**High : 68 Counties**  
**Very High: 4 Counties**

Critically high  
Very high  
High  
Medium  
Low



**WISCONSIN'S COVID-19 CASE BURDEN OVER LAST TEN MONTHS**

<https://www.dhs.wisconsin.gov/covid-19/vaccine-data.htm#day>

## New World Health Organization Nomenclature

- **Alpha**: B1.1.7 UK variant spotted in September 2020.
- **Beta**: B1.351 spotted in South Africa in May 2020.
- **Gamma**: P.1 first spotted in Brazil in November 2020.
- **Delta**: B1.617.2 spotted in India.
- **Epsilon\***: B1.427/B1.429 California variants in March 2020.
- **Zeta**: P.2 variant spotted in Brazil in April 2020.
- **Eta\***: B1.525 found widely distributed in December 2020; UK, Nigeria.
- **Theta\***: P.3 spotted in Philippines in January 2021.
- **Iota**: B.1.526 spotted in USA/NY in November 2020.
- **Kappa\***: B1.617.1 spotted in India.
- **Lambda**: C.37 originally detected in Peru

<https://www.ecdc.europa.eu/en/covid-19/variants-concern>

Presented on 8/16/21

CDC classifies  
variants by 3 levels

### VARIANTS OF INTEREST

Specific markers predicted  
to impact biology

### VARIANTS OF CONCERN

Evidence of increased  
transmission or virulence  
or escape from immunity

### VARIANTS OF CONSEQUENCE

Clear evidence that  
prevention or treatment  
measures are ineffective

## DELTA VARIANT

- Most transmissible strain thus far. Twice as infectious as alpha or beta. Can be spread by asymptomatic individuals.
- Can be spread by fully vaccinated individuals. Transmission reduced by 50%, but still significant risk. Wear a mask around others.
- 100-1,000x nasooropharyngeal viral loads than other strains.
- R value much higher than other COVID-19 strains, between 4 and 8.
- Primary symptoms are headache, sneezing, runny nose, and sore throat – different from and more subtle than earlier variants.
- Likelihood of hospitalization is increased. “Younger, sicker, quicker”.
- Has partial escape from vaccine immunity. Must complete FULL course of mRNA vaccines to achieve 90% protection.
- > 90 % of US cases now.

CDC classifies  
variants by 3 levels

### VARIANTS OF INTEREST

Specific markers predicted  
to impact biology

### VARIANTS OF CONCERN

Evidence of increased  
transmission or virulence  
or escape from immunity

### VARIANTS OF CONSEQUENCE

Clear evidence that  
prevention or treatment  
measures are ineffective

# NEWLY DOCUMENTED OUTDOOR SPREAD

LEARN MORE AT  
[Covid19.MCW.edu](https://Covid19.MCW.edu)



Top left. Lollapalooza Chicago 2021. “Where’s Waldo?”  
photo by Colin Hinkle/Soaring Badger Productions.

Top right. Pendleton, OR 2021 Whisky Music Fest.  
From Instagram.

Bottom left. Brooklyn, MI 2021 Faster Horses Festival.  
From Yahoo Life.

Recent Outdoor  
Delta Outbreaks

Outdoors

Tightly packed  
crowds

Shouting, singing

Prolonged exposure

No masks

Unvaccinated  
individuals

# NEWLY DOCUMENTED OUTDOOR SPREAD

LEARN MORE AT  
[Covid19.MCW.edu](https://Covid19.MCW.edu)

Recent Outdoor  
Delta Outbreaks

Outdoors

Tightly packed  
crowds

Shouting

Prolonged exposure

No masks

Unvaccinated  
individuals



Bucks celebration Jeffrey Phelps. Associated Press.



Bucks celebration. From Daily Mail.

# NEWLY DOCUMENTED OUTDOOR SPREAD

Learn more:  
[covid19.mcw.edu](https://covid19.mcw.edu)



Bucks celebration – unattributed source.

Presented on 8/16/21

# Why Get Vaccinated?

LEARN MORE AT  
[Covid19.MCW.edu](https://Covid19.MCW.edu)

*If vaccinated individuals still can get COVID-19 and spread it to others, why bother getting the shot?*

- COVID-19 vaccines reduce severe disease and hospitalizations by > 90%.
- COVID-19 vaccines prevent COVID-19 related deaths by > 99%.
- COVID-19 vaccines reduce transmission by 50%.

*Why do vaccinated people need to wear masks and practice other mitigation measures?*

- Masks protect those around us.
- Because vaccinated individuals have mild COVID-19 symptoms and because they can spread COVID-19 to vulnerable individuals, other mitigation measures add important extra layers of protection for those around us.

COVID-19 vaccines

Are safe and highly effective

Dramatically reduce hospitalizations and deaths

Reduce symptomatic disease

BUT, delta still can be spread to others because of high viral loads in nose, mouth and throat

## Biggest Threats

- Lack of vaccine confidence.
- Relaxed personal and community vigilance (masks, distancing, avoid crowds).
- Continuing emergence of newer COVID-19 variants.
- Pandemic will not be over until world has been vaccinated.

## Promising Developments

- FDA approval of mRNA vaccine/s expected within weeks.
- Booster shots or vaccines to address variants will be easier to develop than original vaccine.
- Promising oral protease inhibitors are in phase 2/3 clinical trials and could be used for prophylaxis or for mild cases of COVID-19.

## WE USE MULTIPLE EXTERNAL DATA SOURCES FOR THESE PRESENTATIONS

- Wisconsin Hospital Association: [wha.org/COVID-19Update](http://wha.org/COVID-19Update)
- Wisconsin Department of Health Services: <https://www.dhs.wisconsin.gov/covid-19/index.htm>
- Milwaukee County: <https://county.milwaukee.gov/EN/COVID-19>
- <https://covidtracking.com/>
- New York Times: <https://www.nytimes.com/interactive/2020/us/coronavirus-us-cases.html>
- and <https://www.nytimes.com/interactive/2020/science/coronavirus-vaccine-tracker.html>
- Wisconsin Electronic Disease Surveillance System (secure access required)
- Milwaukee County Unified Emergency Operations Center (secure access required)
- Centers for Disease Control and Prevention: <https://www.cdc.gov/coronavirus/2019-ncov/community/health-equity/race-ethnicity.html>
- Worldometers: <https://www.worldometers.info/coronavirus/>
- Johns Hopkins: <https://coronavirus.jhu.edu/vaccines>
- Kaiser Family Foundation Vaccine Monitor Dashboard <https://www.kff.org/coronavirus-covid-19/dashboard/kff-covid-19-vaccine-monitor-dashboard/>

## MEDICAL COLLEGE OF WISCONSIN ANALYTICS

- Institute for Health and Equity
- Division of Epidemiology
- Epidemiology Data Resource Center and Geographic Information System

Presented on 8/16/21