CITY OF MILWAUKEE HEALTH DEPARTMENT UPDATE

MARLAINA JACKSON, MPA

Interim Commissioner of Health



AGENDA

- Dashboard/Gating Criteria/Order 4.2
- New Variant
- Enforcement
- Testing and Tracing Update
- Vaccination Update



City of Milwaukee COVID-19 Statistics

March 1, 2020-January 27, 2021 Updated on Weekdays by 3:00 PM **60,284** Positive Cases

Black or African American

American Indian or Alaska Native

Native Hawaiian or Other Pacific

Number of Cases by Race/Ethnicity

White

Hispanic

Multiple Races

Number of Cases by Gender

Number of Cases by Age

Female Male

0K 5K

0K 10K

10K 15K

20K 30K

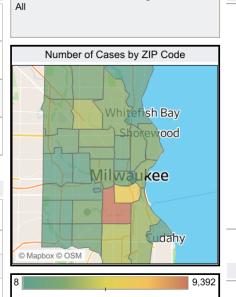
531 Deaths

Source of Lab Testing								
Туре	Count	Percent of Total						
Commercial	630,600	97.8%						
Milwaukee Health Department Laboratory	13,152	2.0%						
Wisconsin State Lab of Hygiene	3,056	0.5%						

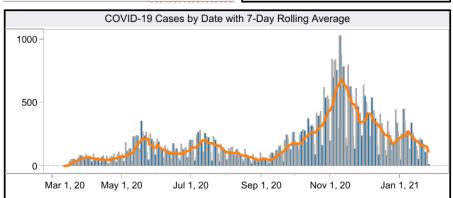
^{*}Represents positive and negative test results

Cumulative COVID-19 Hospitalizations

Status	Count	Percent of Total
Hospitalized	4,082	6.8%
Not Hospitalized	30,539	50.7%
Unknown	25,663	42.6%



Select Date Range



<15
15-24
25-34
35-44
45-54
55-64
65+
0K 5K 10K

Data Source: Wisconsin Disease Surviallence System. Values between 1-5 records have been surpressed to protect individual confidentiality. It can take between 4-8 days for trends to stabilize due to delays in reporting.

Deaths

Testing

Key Indicators

Additional Resources

Moving Milwaukee Forward Safely Gating Metric Review October 1-January 21



	Status -	Status –	Status -	Status -	Status –	Status -	Status -	Status –	Status -	Status -	Status –	Status -	Status –	Status –
Metric	Oct 1	Oct 8	Oct 15	Oct 22	Oct 29	Nov 5	Nov 12	Nov 19	Dec 3	Dec 10	Dec 17	Jan 7	Jan 14	Jan 21
** This statistic uses an industry standard of p<0.05 for statistical significance; this enables us to report the statistic with confidence or accuracy														
Cases	Yellow Slope of 0.17, <u>no</u> statistically significant trend	Yellow Slope of -0.01, no statistically significant trend	Red Slope of 0.27, statistically significant trend	Red Slope of 0.21, statistically significant trend	Red Slope of 0.29, statistically significant trend	Red Slope of 0.41, statistically significant trend	Red Slope of 0.66, statistically significant trend	Yellow Slope of -0.06, no statistically significant trend	Yellow Slope of 0.25, <u>no</u> statistically significant trend	Yellow Slope of 0.03, <u>no</u> statistically significant trend	Green Slope of -0.22, statistically significant trend	Red Slope of 0.37, statistically significant trend	Yellow Slope of -0.04, <u>no</u> statistically significant trend	Green Slope of -0.22, statistically significant trend
** Measured as the ability for residents to access a COVID-19 lab test														
Testing	Green Average of 2,426 tests per day. Average of 8.4% positive	Green Average of 2,680 tests per day. Average of 7.7% positive	Red Average of 2,857 tests per day. Average of 10.2% positive	Average of 2,974 tests per day. Average of 10.9% positive	Red Average of 2,861 tests per day. Average of 12.2% positive	Red Average of 3,382 tests per day. Average of 14.7% positive	Red Average of 4,018 tests per day. Average of 19.1% positive	Red Average of 4,267 tests per day. Average of 15.5% positive	Red Average of 2,680 tests per day. Average of 14.6% positive	Red Average of 3,456 tests per day. Average of 13.3% positive	Red Average of 3,332 tests per day. Average of 11.1% positive	Red Average of 2,341 tests per day. Average of 11.0% positive	Green Average of 2,881 tests per day. Average of 9.7% positive	Green Average of 2,775 tests per day. Average of 8.2% positive
Care: Percentage of COVID+ hospital beds PPE: Hospital systems reaching Personal Protective Equipment (PPE) goals														
Care	Green 6%	Green 6%	<mark>Green</mark> 7%	Yellow 11%	Yellow 14%	Yellow 17%	Red 21%	Red 25%	Red 23%	Red 21%	Yellow 19%	Yellow 14%	Yellow 12%	Yellow 11%
Safety (PPE)	Yellow	Yellow	Yellow	Yellow	Yellow	Yellow	Yellow	Yellow	Yellow	Yellow	Yellow	Yellow	Yellow	Yellow
	** Week 1: 16.05% of COVID+ cases received a contact attempt by MHD staff within 24 hours of the case being reported Weeks 2-23: COVID+ residents assigned to MHD for follow-up were successfully reached within 3 contact attempts Weeks 24+: COVID+ residents assigned to MHD for follow-up that were successfully reached within 2 days of assignment													
Tracing	Yellow 83.5%	Yellow 85.2%	Yellow 81.7%	Yellow 73.3%	Yellow 58.2%	Red 45.3%	Yellow 53.0%	Yellow 61.0%	Yellow 66.8%	Yellow 72.6%	Yellow 73.7%	Yellow 72.1%	Yellow 74.8%	Yellow 72.0%

^{**}Methodology for testing, cases, and tracing metrics were adjusted based on best practices for the city of Milwaukee

^{***}Based on Milwaukee County Dashboard Data



ENFORCEMENT EFFORTS

- Total number of covid complaints received 1,589
- Total number investigated 1230
- Total number not in compliance 102
- Total number of citations issued 29
- Citations in progress 7

Enforcement Process Update:

- Several citations issued based on MPD referral
- Ability to cite off citizen complaint (only if willing to testify) best to have photo/video time stamped footage
- Contract with field observation vendor in process



SARS-COV-2 GENOMIC SURVEILLANCE

- Early importation: Madison, Dane County had the 12th documented case in U.S.
- MHD Laboratory, and UW-Madison conducting whole genome sequencing from Milwaukee and Dane County- since March 2020
 - WSLH covering the whole state thru WI Clinical Lab Network
- State epidemiologist directs clinical labs to provide residual test-positive specimens to expand statewide sequencing capacity
- So far 2,966 sequences submitted to GISAID- Global initiative on sharing all influenza data- A global repository for SARS-CoV-2 sequence data
- Current emphasis: Surveillance, rapid turnaround to detect novel variants, investigate potential immune failure

ARTICLE

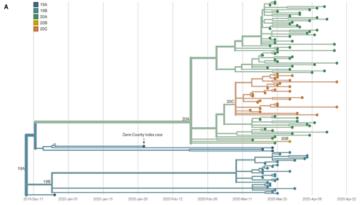
Check for updates

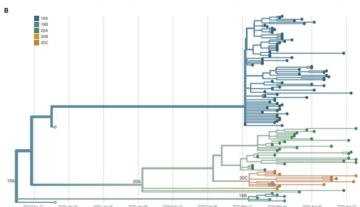
https://doi.org/10,1038/s41467-020-19346-

OPEN

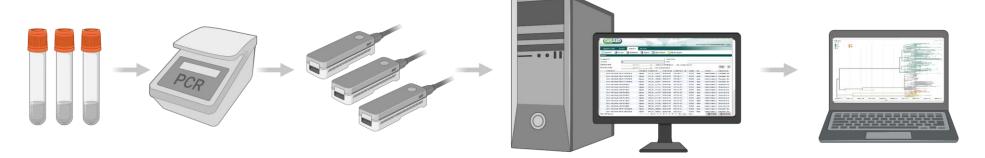
Revealing fine-scale spatiotemporal differences in SARS-CoV-2 introduction and spread

Gage K. Moreno 1,12, Katarina M. Braun^{2,12}, Kasen K. Riemersma^{2,12}, Michael A. Martin 3,4,
Peter J. Halfmann 2,5, Chelsea M. Crooks 2, Trent Prall¹, David Baker 1, John J. Baczenas^{1,6},
Anna S. Heffron¹, Mitchell Ramuta 1, Manjeet Khubbar⁷, Andrea M. Weiler^{2,6}, Molly A. Accola^{8,9},
William M. Rehrauer^{8,9}, Shelby L. O'Connor^{1,6}, Nasia Safdar¹⁰, Caitlin S. Pepperell 10,11, Trivikram Dasu⁷,
Sanjib Bhattacharyya⁷, Yoshihiro Kawaoka 2,5, Katia Koelle³, David H. O'Connor 1,&
Thomas C. Friedrich 2,6⁵⁵³

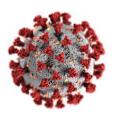


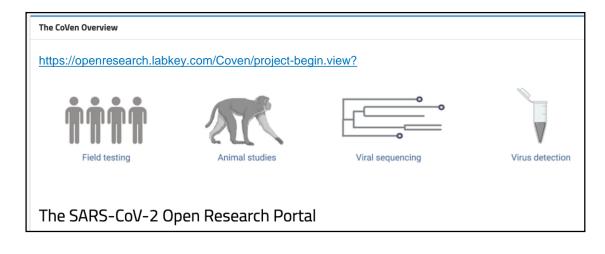


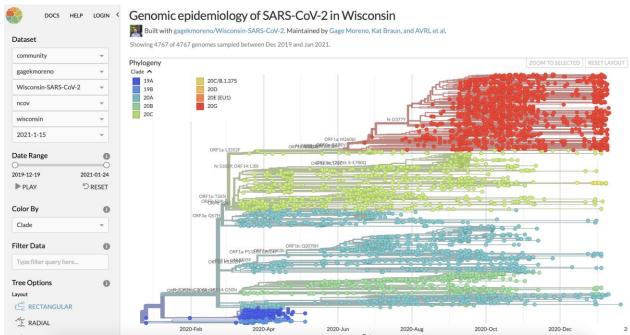
WHOLE GENOME SEQUENCING AND DATA ANALYSIS



SARS-CoV-2 genome (~29.9 Kb) is a single-stranded RNA, composed of 13–15 protein-coding genes













Transmission of SARS-CoV-2 Lineage B.I.I.7 in England: Insights from linking epidemiological and genetic data

D Erik Volz, D Swapnil Mishra, Meera Chand, Jeffrey C. Barrett, Robert Johnson, D Lily Geidelberg, Wes R Hinsley, Daniel J Laydon, D Gavin Dabrera, Áine O'Toole, Roberto Amato, Manon Ragonnet-Cronin, Ian Harrison, Ben Jackson, Cristina V. Ariani, Olivia Boyd, Nicholas J Loman, John T McCrone, Sónia Gonçalves, David Jorgensen, Richard Myers, Verity Hill, David K. Jackson, Katy Gaythorpe, Natalie Groves, John Sillitoe, Dominic P. Kwiatkowski, The COVID-19 Genomics UK (COG-UK) consortium, Desth Flaxman, D Oliver Ratmann, 🕩 Samir Bhatt, Susan Hopkins, 🕩 Axel Gandy, Andrew Rambaut, 🕩 Neil M Ferguson doi: https://doi.org/10.1101/2020.12.30.20249034

This article is a preprint and has not been peer-reviewed [what does this mean?]. It reports new medical research that has yet to be evaluated and so should not be used to guide clinical practice.

- "There is a consensus among all analyses that the [variant of concern B.1.1.7] has a substantial transmission advantage..." September 2020
- As of Jan 13, 76 cases of B.1.1.7 have been detected in 10 U.S. states
- B.1.1.7 is more efficiently transmitted compared to circulating SARS-CoV-2 variants, but no data on increased mortality
- U.S. prevalence of B.1.1.7is less than 0.5% (based on cases identified by S-gene target failure (SGTF) in one of the RT-PCR diagnostic assays
- **B.1.351** South Africa- October 2020
- P.1 Brazil and Japan- January 2021



Morbidity and Mortality Weekly Report

Jenuery 15, 2021

Emergence of SARS-CoV-2 B.1.1.7 Lineage — United States, December 29, 2020-January 12, 2021

Summer B. Gellewer, Fidd¹; Frabasi Prol. Fidd¹; Dumon R. MorCannell, Fidd³; Michael A. Johnson, Fidd¹; John T. Brasin, MD¹; Adam MacNal, Fidd³; Radia B. Shyran, Fidd³; Sating Bang, Fidd³; Sampain J. Sile, Fidd³; Gagary L. Acastrong, MD²; Markov Eggenerif, Scil³; Volta G. Gagary L. Acastrong, MD²; Markov Eggenerif, Scil³; Volta G. Gagary L. Acastrong

On December 14, 2020, the United Kingdom reported a SARS-CoV-2 variant of concern (VOC), lineage B.1.1.7, also referred to as VOC 202012/01 or 201/501Y.V1.* The 3.1.1.7 variant is estimated to have emerged in September 2020 and has quickly become the dominant circulating SARS-CoV-2 varient in England (1), B.1.1.7 has been detected in over 30 countries, including the United States. As of January 13, 2021, approximately 76 cases of B.I.1.7 have been detected in 10 U.S. states. Multiple lines of evidence indicate that B.1.1.7 is more efficiently transmitted than are other SARS-CoV-2 variants (1-5). The modeled trajectory of this variant in the U.S. exhibits rapid growth in early 2021, becoming the predominant variant in March. Increased SARS-CoV-2 transmission might threaten strained health care mountes, require extended and more rigorous implementation. of public health strategies (4), and increase the percentage of population immunity required for pandemic control. Taking measures to reduce transmission now can lessen the potential Impact of B.1.1.7 and allow critical time to increase vaccination coverage. Collectively, enhanced genomic surveillance combined with continued compliance with effective public health measurer, including vaccination, physical distancing, nec of made, hand hygiene, and isolation and quarantine, will be essential to limiting the spread of SARS-CoV-2, the virus that cause commericus disease 2019 (CCVID-19). Strategic testing of persons without synaptoms but at higher risk of infection, such as those exposed to SARS-CoV-2 or who have frequent unevoidable connect with the public, provides another apportunity to limit angoing speed.

Global generals surveillance and rapid open-source sharing of viral genome sequences have facilitated near real-time detection, comparison, and tracking of evolving SARS-CoV-2 variance that can inform public health efforts to control the pandemic. Whereas more mutations in the viral genome emerge and then recede, others might confer a selective advantage to the variant, including enhanced transmissibility, so that such a variant can rapidly dominate other circulating variants. Rarly in the pandemic, variants of SARS-CoV-2 containing the D614G autration in the spike (S) protein that increases receptor binding avidity capidly became dominant in many geographic regions (5,6).

In late fall 2020, multiple countries reported detecting SARS-CoV-2 variants that spread more efficiently. In addition to the B.1.1.7 variant, notable variants include the B.1.351 linesse flox desected in South Africa and the recently identified B.1.1.28 subclade (ensemed "R.1") detected in four travelers from Bond during routine according at the Flances (Toloro) airport. Three variants carry a constellation of genetic mutations, including in the S protein receptor-binding domain, which is carential for binding to the host cell angiotensinconverting ensume-2 (ACE-2) receptor to facilitate virus entry. Bridence suggests that other mutations found in these werlands might confer not only increased transmissibility but might also affect the performance of some diagnostic real-time teverse transcription-polymerase chain reaction (RT-PCR) accept and reduce enceptibility to neutralizing antibodies (2,3,5-10). A recent case report documented the first case of

https://www.fda.gov/zows-ovents/press-nanouncements/



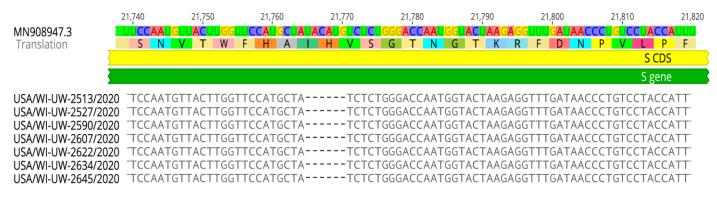
^{*}https://www.gov.uk/government/news/phe-investigating-a-nowl-witten-st-cottl-13.

*http://www.che.or/cotts/st-/2019-com/pensional-state-com-brad-

Shope://www.japandmas.co.jp/nami/2021/01/11/narianal/actores-haalds/

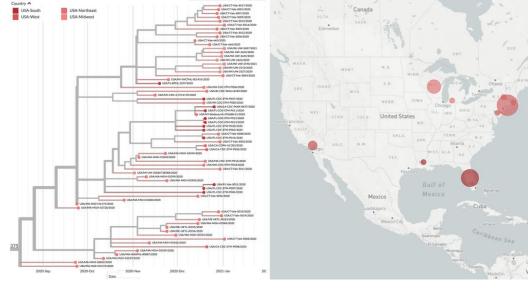
SARS-COV-2 VARIANTS IN WISCONSIN

- On Jan 12, DHS reported B.1.1.7 variant strain of SARS-CoV-2 in Eau Claire, WI (sequenced by a private reference lab)
- Detected viruses encoding S Δ 69-70 circulating in Wisconsin, but we have not detected B.1.1.7 in any of those 2,966 genomes so far
- Spread of B.1.1.7 ("UK variant") in Wisconsin is likely, though currently rare in detection



MHDL- in-house sequencing, qualified and trained staff

- Adding Bioinformatics (data analysis) position
- Epidemiologist's contribution to identify hot spots



SUMMARY

- Emerging SARS-CoV-2 variants could— but may not— undermine the performance of diagnostics, therapeutics, or vaccines
- Long-term capacity for genomic surveillance is critical to detect the emergence and spread
 of 'variants of concern'
- Continued adaptation of SARS-CoV-2 to its hosts (both human and animal) is inevitable- but which variants to be concerned about may only become clear with more genomic and epidemiological data
- Efforts that can limit the spread of the B.1.1.7 variant at the personal level- universal and increased compliance with public health mitigation strategies
- Increased ongoing vaccination efforts likely add to achieve higher population-level immunity.
- Enhancing community messaging for personal protection, increase testing (all options available) and encourage vaccination



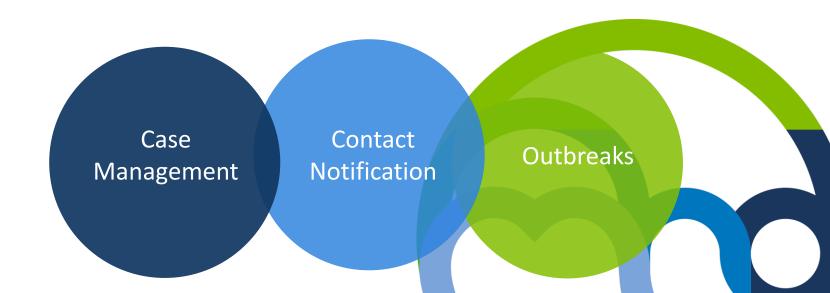
TESTING & TRACING

RESPONSE TO COMMUNITY NEED

- Community sites
 - Northwest Health Center
 - Southside Health Center
 - American Family Field
- Contact Tracing
 - 200 trained tracers

211 Hotline

Test Results and Questions
Supports for Isolation/Quarantine
Vaccine Navigation





OVERVIEW

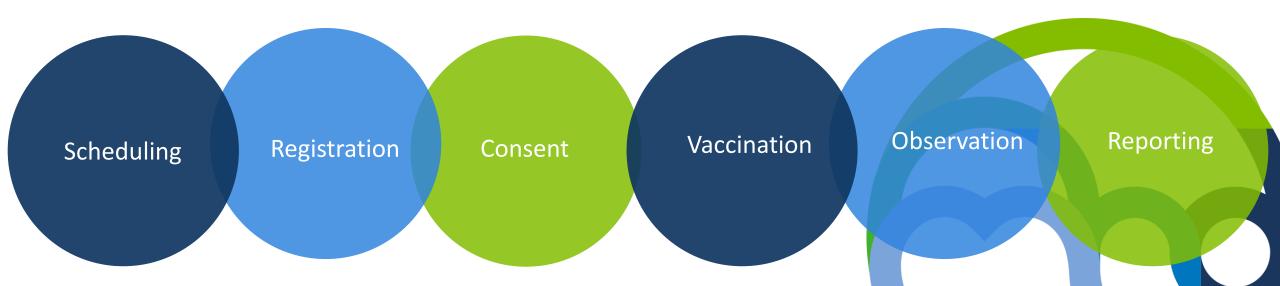
COVID-19 VACCINE

- Phase 1
 - Wisconsin Center
 - Ability to vaccinate many in a short amount of time
 - Meets physical criteria for space
 - Respond to built-up demand
- Phase 2
 - Mobile strategy
 - Community partnerships
 - Vaccinate closer to home



UPDATES COVID-19 VACCINE

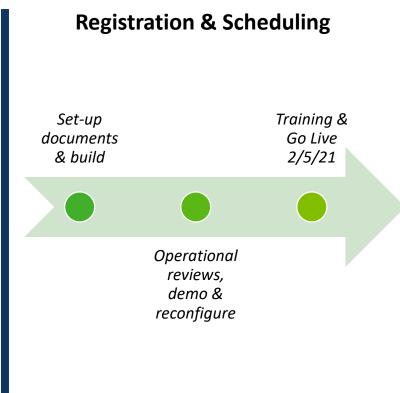
- Started vaccinating on 1/7/21
- Beginning second doses this week
- Phase 1a, plus additional groups per DHS guidance
- Working with DER for phasing of city employees



VACCINATION

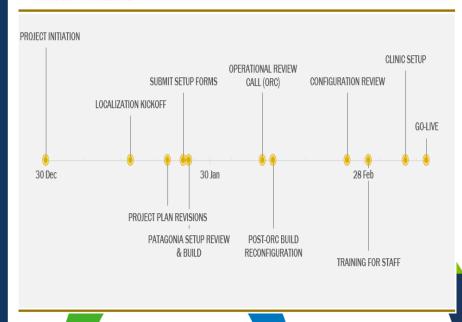
CURRENT STATE & STRATEGIES

Registration & Scheduling A.Calendl y (current State) A.TeleGov A.ZocDoc VRA Platform A.QuickBas e (current State) A.Patagonia A.MS Dynamics--VRAs



Mass Immunizations Project Overview

PROJECT TIMELINE



Rapid Implementation Cycle



METHODOLOGY

- Current State
 - Scheduling System Link
 - Identified groups
- Future State (Week of 2/1)
 - New Scheduling System Link
 - High volume registration
 - Demographic data for evaluation
 - Hotline
 - Available for individuals without internet access





VACCINE OUTREACH

#CRUSHCOVIDMKE TOOLKIT IN DEVELOPMENT

Stickers, buttons

 Similar to Voting stickers, printed badges/tokens encourages vaccination support





Facebook Profile Picture Frame and social profile images

- Overlays on your FB profile image
- "Before" version PLEDGE TO GET THE SHOT
- "After" version I GOT THE SHOT



VACCINE FACTS

Goal is to myth-bust, encourage vaccination and provide safety information. Prints and Digital graphics in circulation

CRUSHING COVID-19 Facts About the Vax

The Goal, Herd Immunity

When enough individuals have protection, there are less affected people in a community and the virus cannot continue to spread widely and infect others.

Vaccine Safety

Because of this pandemic. the FDA issued an Emergency Use Authorization (EUA) to let individuals get a vaccine before all the trials are complete. These vaccines still undergo very strict testing and safety is the top priority during all phases of development. A national vaccine safety surveillance program will continuously track vaccine safety for many years. In this program, anyone can, but doctors must report possible side effects or health problems that occur after vaccination.

MILWAUKEE.GOV/COVIDVAX

How the Vaccine Works

Most vaccines require 2 doses for effective protection and reinforcement from COVID-19. There are other vaccines in development that are only I dose.

Side Effects

While serious side effects are extremely rare, there are some common vaccine side effects such as pain, redness, and swelling at the site of the shot and flu-like symptoms.

Availability & Cost

The vaccine will be offered to all who want it as soon as more become available, at no cost. With different strands of COVID-19 emerging, the virus should still be affected by antibodies produced by the vaccine.

Vaccine Benefits

Protect you & others from COVID-19, even those who have gotten the virus already.

When Can I Get the Vaccine?

Due to limited supply, high risk populations have been prioritized to receive the vaccine first. The vaccine will be more widely available to the public later in 2021. Updated information will be added to the Milwaukee Health Department website when available.



CRUSHING COVID-19 Facts About the Vax -Vaccine Benefits **Protect you & others** from COVID-19, even those who have gotten the virus already. **CRUSHING COVID-19**

Facts About the Vax

Side Effects

While serious side effects

are extremely rare, there are

some common vaccine side

effects such as pain, redness,

and swelling at the site of the

shot and flu-like symptoms.

AUKEE.GOV/COVIDVAX COVID-19 Hotline: 211 🔯 🛉 🤟 @MKE

#CRUSHCOVIDMKE

CITY OF MKE HEALTH DEPT

CRUSHING COVID-19 Facts About the Vax -

#CRUSHCOVIDMKI

How the Vaccine Works

Most vaccines require 2 doses for effective protection and reinforcement from COVID-19. There are other vaccines in development that are only 1 dose.



#CRUSHCOVIDMKE

COVID-19 Hotline: 211



VACCINE TOWN HALL

SAVE THE DATE: COVID-19 Vaccine Virtual Town Hall Wednesday, February 10, 2021 at 6pm

This town hall will be the first of many to identify and address misconceptions and concerns around vaccine safety and effectiveness. Presenters will provide the latest information on the safety, process and timeline for the COVID-19 vaccine.

- Mayor Tom Barrett, Mayor of City of Milwaukee
- Marlaina Jackson, Interim Commissioner of City of Milwaukee Health Department
- Heather Paradis, MD, MPH, Deputy Commissioner of Medical Services
- Moderator Anthony Atkins, TMJ4

milwaukee.gov/covidvax

SOCIAL GRAPHICS

