## COVID 19 -

## The Impact on Agriculture

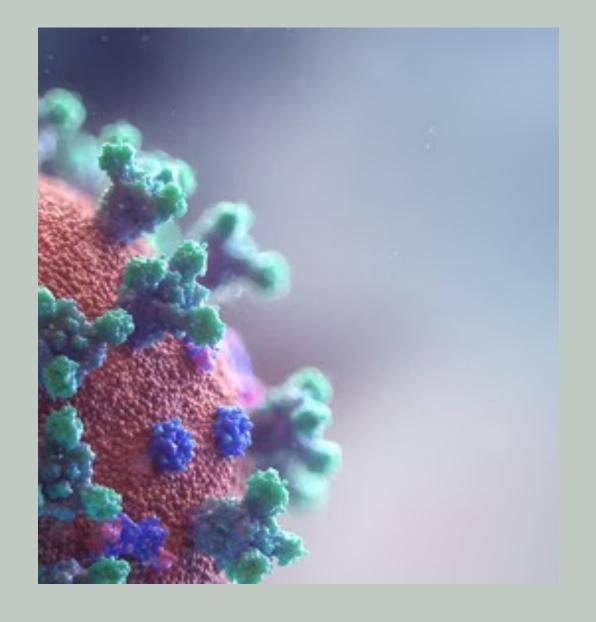
Agrability National Training Workshop

Madison, WI March 16,2022

Charlotte Halverson, Clinical Director

AgriSafe Network





# Keep informed!

<u>Please note</u>: The AgriSafe staff understands the CDC and all federal and state organizations are working hard to keep pace with issues surrounding COVID-19 and the variants.

The information here is current as of February, 2022. It is important for all of us to check for changes and updates in guidelines.



# Objectives:

#### At the end of this program, participants will be able to...

- Gain an understanding of infectious disease, including the COVID-19 variants, and measures to reduce exposure risks among agricultural workers.
- 2. Recognize the efficacy of the COVID-19 vaccine in the prevention of coronavirus (SARS-CoV-2) infectious disease in the ag workplace.
- Access resources for communities to understand COVID-19 prevention and mitigation.

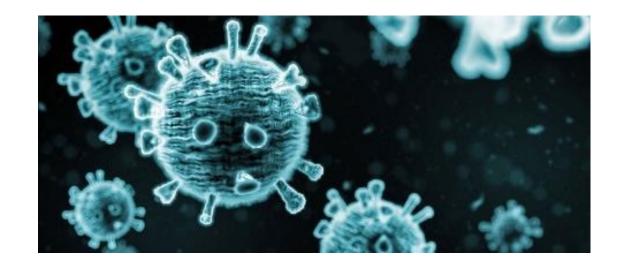




## What we will talk about

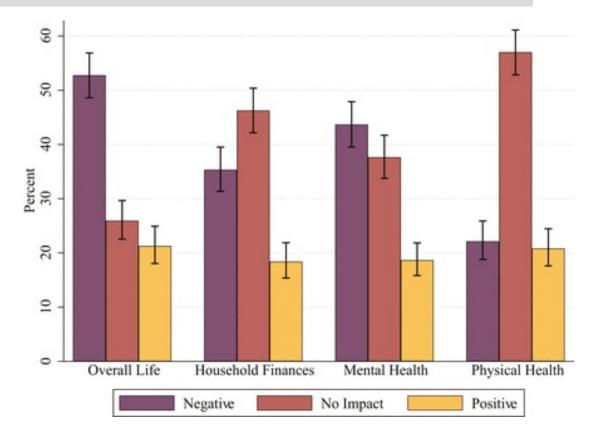
#### Protecting families and workers

- What is happening in agricultural communities
- Vaccine
- Personal Protective Equipment (PPE)
- Supporting Sick Workers
- Cleaning, Disinfection, and Sanitation
- Resources



# Impact on Rural Communities-Among most vulnerable populations

- Effects of the pandemic have been severe
  - unemployment
  - mental health
  - economic outlook



• Impacts have been generally consistent across age, ethnicity, education, and sex

## American Farm Bureau – January 2021

#### The survey of 2,000 rural adults was conducted by Morning Consult

- COVID-19 pandemic is having broad-ranging impacts among rural adults and farmers/farmworkers
- Two in three farmers/farmworkers (66%) say the pandemic has impacted their mental health
- Younger rural adults were more likely than older rural adults to say the pandemic has impacted their mental health
- Farmers and farmworkers were **10% more likely** than rural adults *as a whole* to have experienced feeling nervous, anxious or on edge during the pandemic (65% vs. 55%).
- Social isolation impact on farmers' mental health increased 22% since April 2019
- Three in five rural adults (61%) say the COVID-19 pandemic has impacted mental health in rural communities
- Half of rural adults (52%) aged 18-34 say they have thought more about their mental health during the COVID-19 pandemic, more than other age groups

2/14/22

## Impact on Agriculture

- Farm prices
- Supply shortages
- Sufficient workforce
- Physical and mental health
- Worker safety
- Travel
- Education
- Connecting with extended family and friends



#### U of MN Center for Infectious Disease Research & Policy February 11,2022 report

- Delta surge: Rural counties with low COVID-19 vaccination rates had 2.4 times the risk of infection.
- Data collected and reported in JAMA *Network Open* by University of Cincinnati researchers, Johns Hopkins University and Centers for Disease Control and Prevention (CDC) data to investigating the link between rates of COVID-19 vaccination and Delta COVID-19 infections from Jul 1 to Aug 31:
  - Rural US counties with low COVID-19 vaccination rates had 2.4 times more infections per 100,000 people than urban counties amid the summer 2021 Delta surge published Feb. 10, 2022.
  - Counties with vaccination rates lower than 30% saw infections increase from 190 per 100,000 residents during Jul 1 to 15 to 1,272 infections per 100,000 from Aug 16 to 31.
  - In comparison, during the same periods, COVID-19 infections in counties with vaccination rates higher than 50% rose from 71 per 100,000 residents to 531 per 100,000.
  - According to the CDC, COVID-19 vaccination rates in roughly 82% of the rural United States are lower than 30%.
- (Colorado, Georgia, Texas, Virginia, and West Virginia were excluded from the study because their vaccination data were incomplete or unreliable.)

2/14/22

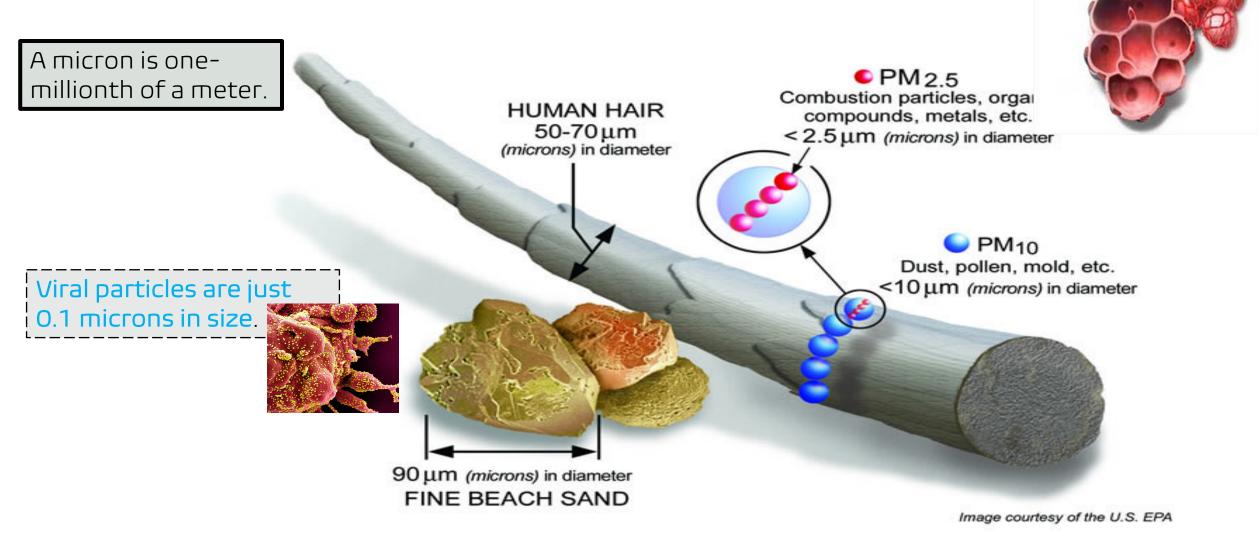
# What is the COVID-19 Vaccine?



#### COVID-19 vaccine -

- contains a messenger RNA (mRNA) that transports a "message" or "instruction" to The RNA in our cells to manufacture protein antibodies that will identify & stick to the SARS COV-2 virus spike protein that signals immune cells to "attack" the virus.
- does not contain active virus
- full approval for use in the U.S.
- boosters are highly recommended

## Particle Size





## Risks



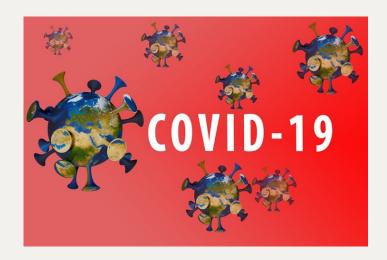


COVID-19 is a respiratory illness caused by a virus called SARS-CoV-2.

- Workers who may be at higher risk for severe illness include:
  - Older adults
  - People (of any age) with certain underlying medical conditions (i.e., chronic kidney disease, obesity, diabetes, or serious heart conditions)
  - Workers with altered abilities that impede standing, walking, deep breathing

Related variants of the virus pose on-going risks and potential need for continued prevention protocol.





# Danger Zone

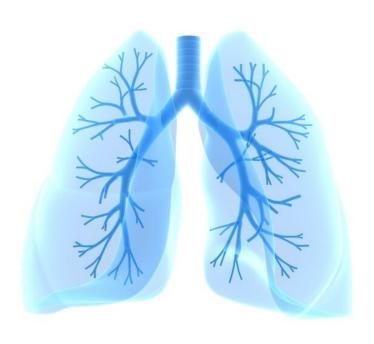
COVID-19 symptoms, such as cough and shortness of breath, can come on suddenly.

Severe illness may cause several complications that require medical intervention, including:

- ▶ Pneumonia
- >Acute respiratory distress syndrome
- > Cardiac disease
- ➤ Blood clots
- > Kidney disease
- ➤ Organ failure

2/14/22

# Chronic Lung Disease?



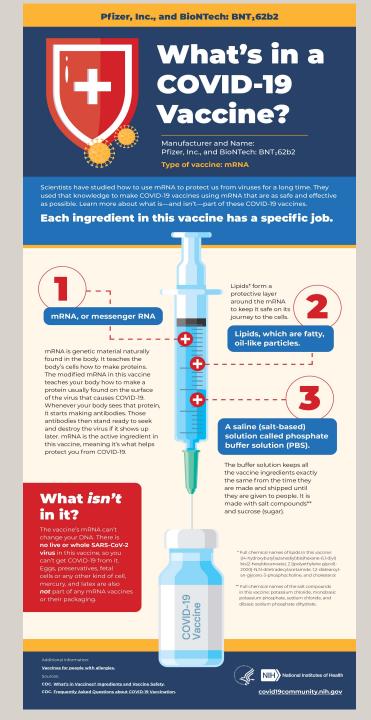
#### Having a chronic lung disease means that:

- You can be more likely to get severely ill and have complications from COVID-19.
- It is more important than ever to follow all the guidelines to minimize risk of infection

- Get Vaccinated!
- Get tested & treated if needed
- Relaxation of mandates and guidelines does not mean the virus is gone
- Lung health emergencies are still emergencies!
- Keep taking prescription medications as directed

https://www.lung.org/lung-health-diseases/lung-disease-lookup/covid-19

2/14/22



Exact vaccine ingredients vary by manufacturer.

Pfizer-BioNTech and Moderna COVID-19 vaccines contain messenger RNA (mRNA).

Johnson & Johnson/Janssen COVID-19 vaccine contains a harmless version of a virus unrelated to the virus that causes COVID-19.

These give instructions to cells in your body to create an immune response.

This response helps protect you from getting sick with COVID-19 in the future.

After the body produces an immune response, it discards all the vaccine ingredients just as it would discard any information that cells no longer need.

This process is a part of normal body functioning.

COVID-19 vaccines do NOT contain ingredients like preservatives, tissues (like aborted fetal cells), antibiotics, food proteins, medicines, latex, or metals.

## Vaccine: What You Need to Know



- Everyone ages 5 and older can get vaccinated against COVID-19.
- •COVID-19 vaccines are <u>effective at helping protect against severe disease and death</u> from the virus that causes COVID-19, including known <u>variants</u> currently circulating.
- •The benefits of COVID-19 vaccination outweigh the known and potential risks, which are rare.
- •As with other routine vaccines, <u>side effects</u> may occur after vaccination. These are normal and should go away within a few days.
- •<u>People who are fully vaccinated</u> can resume many activities they did before the pandemic. However, people should wear a mask indoors in public if they are in an <u>area of substantial or high transmission</u>.

•https://www.cdc.gov/coronavirus/2019-ncov/vaccines/keythingstoknow.html?s\_cid=10496:cdc%20covid%20guidelines:sem.ga:p:RG:GM:gen:PTN:FY21

## Vaccine: What You Need to Know



- •If you received a Pfizer-BioNTech (ages 12 and older) or Moderna (ages 18 and older) mRNA COVID-19 vaccine primary series and have a moderately or severely compromised immune system, you should <u>receive an additional primary dose</u> of the same mRNA COVID-19 vaccine at least 28 days after the second dose.
- •Everyone ages 16 years and older can get a booster shot.
- •Unlike many medications, COVID-19 vaccine dosage does not vary by patient weight but by age on the day of vaccination.
- •People can get a COVID-19 vaccine and other vaccines, including flu vaccine, at the same time.

•https://www.cdc.gov/coronavirus/2019ncov/vaccines/keythingstoknow.html?s\_cid=10496:cdc%20covid%20guidelines:sem.ga:p:RG:GMgen:PTN:FY21

# Which vaccine should I get?

#### IF YOU RECEIVED

#### Pfizer-BioNTech Who should get a booster:

Everyone 12 years and older

#### When to get a booster:

- At least 5 months after completing your primary COVID-19 vaccination series **Which booster can you get:**
- Pfizer-BioNTech or Moderna (mRNA COVID-19 vaccines) are preferred in most\* situations
- Teens 12–17 years old may only get a Pfizer-BioNTech COVID-19 vaccine booster

#### **IF YOU RECEIVED**

#### Moderna Who should get a booster:

Adults 18 years and older

#### When to get a booster:

• At least 5 months after completing your primary COVID-19 vaccination series **Which booster can you get:** 

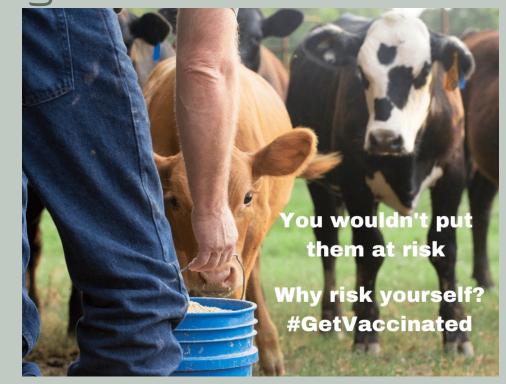
#### **IF YOU RECEIVED**

#### Johnson & Johnson's Janssen\* Who should get a booster:

• Adults 18 years and older

#### When to get a booster:

- At least 2 months after receiving your J&J/Janssen COVID-19 vaccination Which booster can you get:
- Pfizer-BioNTech or Moderna (mRNA COVID-19 vaccines) are preferred in most\* situations



# Keeping Track...

https://covid.cdc.gov/covid-data-tracker/#datatracker-home

**CDC COVID Data Tracker** 







# Promote Hand Hygiene

- Encourage farmworkers to wash their hands often with soap and water for at least 20 seconds
- Provide access to permanent and/or temporary hand washing facilities
- If hands aren't visibly soiled or dirty, farmworkers can use hand sanitizer containing <u>at least 60%</u> <u>alcohol</u>, rubbing hands until they are dry
- Place sanitizing stations in multiple locations
- Provide workers with individual containers of hand sanitizer

Source: When and How to Wash Your Hands-CDC

#### COVID Testing - Which test is the right one

#### Two main types of tests:

viral tests - tell you if you have a current infection and it includes PCR and antigen tests

antibody (serology)tests - might tell you if you had a past infection and should not be used to diagnose a current infection

- https://www.cdc.gov/coronavirus/2019-ncov/community/organizations/testing-nonhealthcare-workplaces.html
- Updated testing recommendations for fully vaccinated workers who are close contacts of someone with COVID-19.
- Clarified that screening testing recommendations apply to asymptomatic, unvaccinated workers.



#### TYPES OF COVID-19 TESTS AND WHEN TO USE THEM

COVID-19 testing should be combined with safety measures such as masking and social distancing.

#### TEST AT THE HEALTH CARE PROVIDER'S OFFICE OR TESTING SITE

POLYMERASE CHAIN REACTION (PCR) **TEST NASAL SWAB** 



What is it? This test looks for the virus' RNA in a patient's sample. A sample is collected by inserting a swab into a person's nostril and taking cells from the back of the nose. Some lab tests allow for patients to spit into a tube to get

When should you take this test? Make an appointment with your health care provider if you have been exposed or if you are experiencing symptoms.

When can you expect results and how accurate will they be? Depending on the lab your provider uses, you can expect to receive your results within 24-72 hours. The PCR test is the gold standard when it comes to COVID-19 testing.

#### AT-HOME TYPES OF TESTS

AT-HOME NASAL SWAB WITH LAB-BASED PCR TEST







What is it? This is a similar type of test used at the health care provider's office, but you collect the nasal swab yourself and mail it to a laboratory to be analyzed.

When should you use this test? Use this test after an exposure or when you begin experiencing symptoms.

When can you expect results and how accurate will they be? At-home tests can typically take anywhere between two to four days for results. Since these tests are PCR tests performed in a laboratory, these results have a higher accuracy than at-home antigen tests.

#### SALIVA PCR TEST







What is it? This is a similar type of test used at the health care provider's office, but you collect the saliva sample yourself and mail it off to a laboratory to be analyzed. Similar to swab tests, saliva is a specimen that can be collected for polymerase chain reaction testing. Saliva is typically easier - and more comfortable - to collect from a patient, compared to a nasopharyngeal swab.

When should you use this test? Use this test after an exposure or when you begin experiencing symptoms.

When can you expect results and how accurate will they be? At-home mail away tests can typically take anywhere between two to four days for results. Since these tests are PCR tests performed in a laboratory, these results have a higher accuracy than at-home antigen tests.

#### RAPID AT-HOME ANTIGEN TESTS





What is it? The rapid at-home antigen tests detect a viral protein in the nasal sample.

When should you take this test? Timing is key with this test, so try to take it the day of the event because that's going to give you the best information of whether you have high amounts of the virus in your system at that time.

How does this test produce results? Using a nasal swab, antigen tests can produce

When can you expect results and how accurate will they be? These tests are available for purchase where at-home tests are sold. These tests are faster and less expensive than PCR tests, but there is an increased chance of false-negative results. If an at-home antigen test is negative, continue to wear a mask in public settings, around those who are unvaccinated and/or high-risk. If you have symptoms and an at-home test is positive, contact your health care provider to see if you need treatment. A follow-up PCR might also be recommended to ensure your case is tracked by public health officials.

# Managing sick workers



- Immediately separate workers who appear to have symptoms
- Have a procedure for safely transporting sick workers
- If a worker is in employer-furnished housing, consider providing a dedicated space for the worker to recover
- Provide sick workers with information on when and how to access medical attention
- Provide sick workers with information on return-to-work policies and procedures
  - Resource: When You Can be Around Others After You Had or Likely Had COVID-19- CDC





# Managing sick workers

- If a worker is confirmed to have COVID-19, owners/operators should consider ways to inform anyone at the work site, who has been in sustained, close contact (within 6 feet)
- Clean and disinfect the work area, equipment, common areas used, and any tools handled by the symptomatic worker
- If possible, protect the infected worker's confidentiality and not identify them (required by the Americans with Disabilities Act -ADA)



#### Return to work after worker exposure



- Employers should follow CDC's Critical Infrastructure Guidance for workers who have had a COVID-19 exposure but <u>remain free of symptoms</u>
- When workers who have had COVID-19 (including those workers who have tested positive for COVID-19 but remained free of symptoms) return to onsite operations, employers should follow the <u>COVID-19 Quarantine and Isolation | CDC</u>
- The COVID-19 pandemic is constantly changing, so employers of critical infrastructure workers will need to continue to reassess COVID-19 transmission levels in their area

### Face coverings in agricultural operations

- CDC recommends wearing appropriate face coverings as a protective measure <u>in addition</u> to social distancing
- Face coverings that are not NIOSH approved N95 coverings are intended to protect other people—<u>not the wearer</u>
- Cloth face coverings are not appropriate substitutes for PPE





# Face coverings in agricultural operations – will my regular ppe work?

To determine appropriate respiratory protection:

- ✓ Know the activity
- ✓ Understand the exposure
- ✓ Determine appropriate respirator







# ppe

- Farmworkers may need PPE when cleaning and disinfecting
- Anyone involved in cleaning and disinfecting workspaces should wear gloves selected based on information provided in the manufacturer's Safety Data Sheet





## PPE

#### Provide appropriate PPE training

- The following points should be included in training:
  - When to use PPE and what PPE is necessary
  - How to properly put on and remove PPE
  - How to properly dispose of PPE, or if reusable, how to properly clean, and as appropriate, decontaminate PPE
  - Reminder to change PPE if it becomes torn, wet, dirty, or otherwise damaged
  - Safety glasses can also be an important part of PPE in addition to goggles.



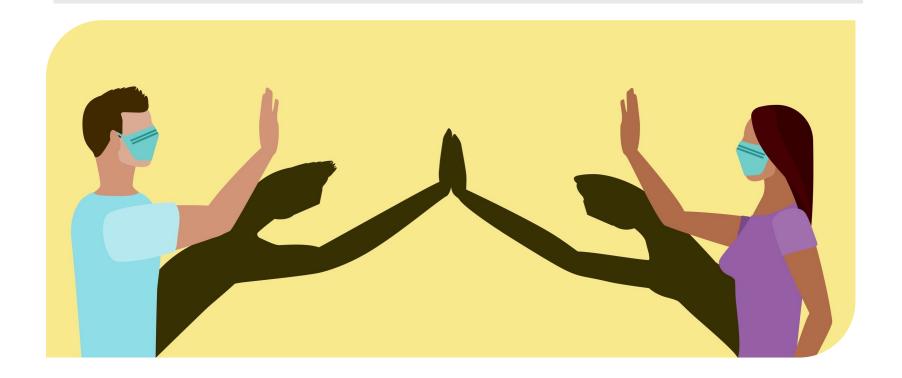






## Control the spread

- Assess and identify opportunities to limit close contact with others if feasible.
- Establish social distancing policies and practices.
- Engage farmworkers in this assessment process.







## COVID19 Prevention Training

#### Conduct COVID-19 training that is:

- 1. Easy to understand
- 2. In preferred language
- 3. At appropriate literacy levels pictograms may be appropriate



### Social Media Toolkit Resource



https://www.agrisafe.org/covid-19-social-media-toolkit/

2/14/22





#### Resources

- https://www.agrisafe.org/covid-19-social-media-toolkit/
- http://www.agrability.org/covid-19/
- <a href="https://extension.illinois.edu/news-releases/covid-creates-shortage-ppe-pesticide-applicators">https://extension.illinois.edu/news-releases/covid-creates-shortage-ppe-pesticide-applicators</a>
- http://www.ncfh.org/covid-resources-for-service-providers.html
- https://www.lung.org/lung-health-diseases/lung-disease-lookup/covid-19
- https://www.cdc.gov/coronavirus/2019-ncov/vaccines/booster-shot.html
- https://mhanational.org/life-doesnt-feel-real-anymore-dissociation-time-covid-19

2/14/22

## Thank You from the AgriSafe team!

























https://www.agrisafe.org/