

# COVID-19 VIRUS & VACCINES

UPDATES

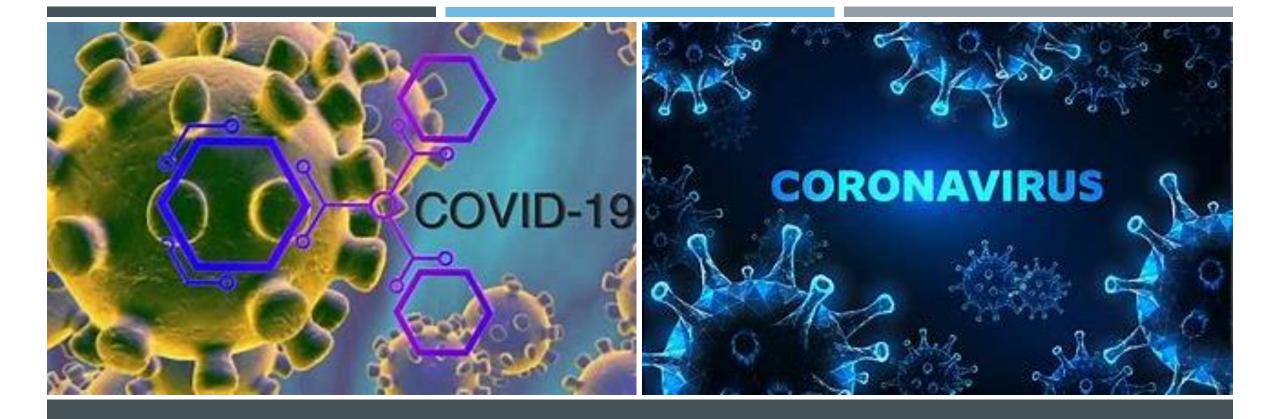
#### **PRESENTERS:**

Dr. Sirhan Abdullah, Assistant Professor & Coordinator

Carol Fasano RN, APN, Director – RN Nursing Program

Kathleen Smith-Wenning RRT, Director, Health Related Programs

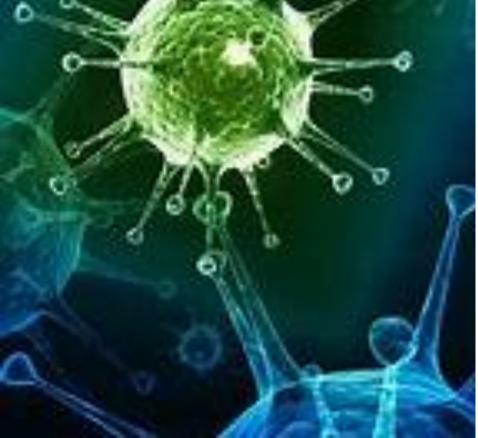
Catherine Sirangelo RN, CCRN-A, Associate Dean



# COVID-19 VIRUS

## **DR. ABDULLAH**





#### **UNDERSTANDING COVID – 19:**

#### What is it?

- Virus that has caused worldwide pandemic, call SARS-CO-V-2 or COVID-19
- First identified in December 2019
- How does it spread?
  - Airborne virus spread person to person
- Who is most at risk?
  - Older individuals are most at risk due to less effective immune system
- How to avoid being infected?
  - Well fit mask, social distancing, washing hands

#### **VIRUS VARIANTS**

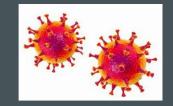
- Viruses constantly change through mutation, and new variants of a virus are expected to occur.
- Sometimes new variants emerge and disappear.
- Other times, new variants persist.
- Multiple variants of the virus that causes COVID-19 have been documented in the United States and globally during this pandemic.

• CDC – June 2021

#### **KNOWN VARIANTS**

- United Kingdom B.1.1.7
- South Africa B.1.351
- Brazil P.1.
- California B.1.427 & B.1..429
- India (Delta) (Delta +)

#### VARIANTS.....



- Spread more easily from person-to-person
- Cause milder or more severe disease in people
- Are detected by currently available viral tests
- Respond to medicines currently being used to treat COVID-19
- Change the effectiveness of COVID-19 vaccines

CDC



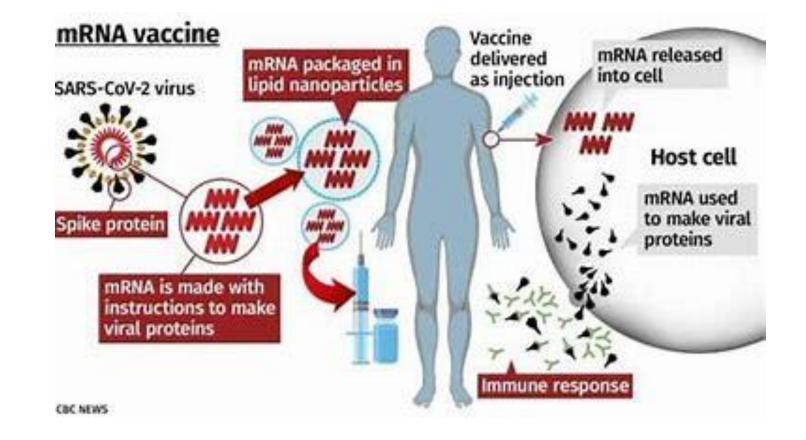


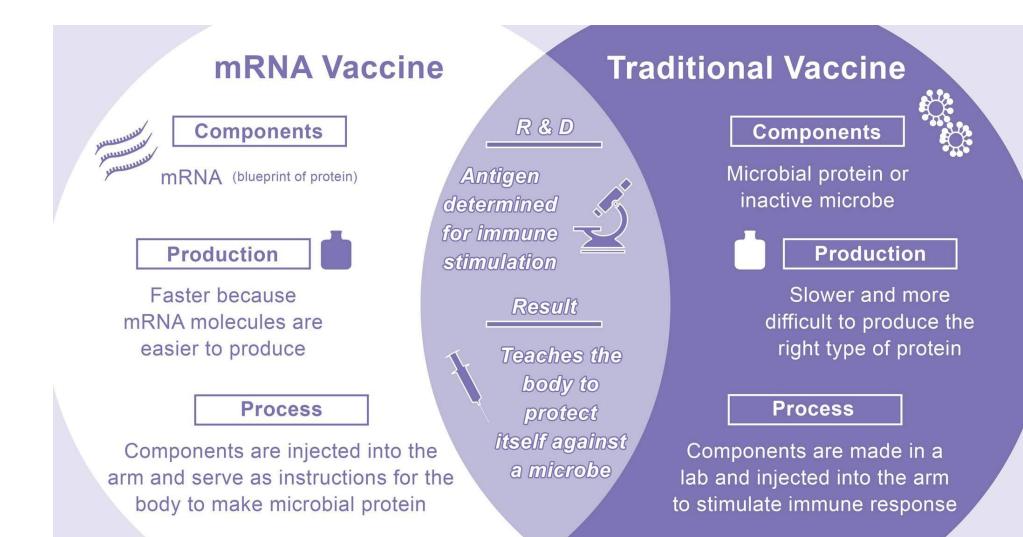
## VACCINES

- Overview of the different vaccines:
  - Pfizer: mRNA
  - Moderna: mRNA
  - Johnson & Johnson: Adenovector



## MRNA





Vanderbilt Vaccine Research Program | Vanderbilt Institute for Infection, Immunology and Inflammation

#### NUMBERS COUNT

#### **159 MILLION AMERICANS VACCINATED**



- Nearly 84 million Americans have received the COVID-19 vaccine developed by Pfizer and BioNTech.
- More than 62 million Americans have received Moderna's vaccine.
- More than 12 million Americans have received the Johnson & Johnson vaccine.
- So far, the vaccines have appeared to be both highly effective and safe.

#### **MYTHS VS. FACTS**

- 1. MYTH: COVID VACCINES WERE RUSHED, SO THEY COULD STILL BE UNSAFE.
  - FACT: The speed of the vaccine creation was unprecedented but that doesn't mean researchers skipped steps. There were over 40,000 participants in each vaccine study.
- 2. YOU CAN GET COVID-19 FROM THE VACCINE.
  - FACT: The mRNA vaccines do not contain any part of the virus. You CANNOT get the virus from the vaccine.
- 3. THE VACCINES CAN CHANGE YOUR DNA
  - FACT: mRNA vaccines do not interact with a person's DNA. mRNA does not enter the nucleus of the cell...where DNA is located.

#### **MYTHS VS FACTS**

#### 4. THE VACCINE CAN CAUSE INFERTILITY

• FACT: There is no evidence that getting vaccinated causes infertility.

5. YOU DON'T NEED THE VACCINE IF YOU HAVE ALREADY HAD THE VIRUS

- FACT: Those who have had COVID can still benefit from the vaccine.
  - CDC recommends waiting 30 to 90 days after recovery.

#### **MYTH VS FACT**

#### 6. ONCE VACCINATED, YOU CAN'T SPREAD THE VIRUS.

 FACT: Vaccine takes about 21 days to become effective. It is still unknown if the vaccine prevents the spread of the virus.

#### 7. SEVERE REACTIONS ARE COMMON

• FACT: Severe reactions are UNCOMMON. Mild reactions can be expected. Fever, body aches, mild rash, headache, pain at injection site.

#### 8. YOU SHOULD WAIT AND CHOOSE THE VACCINE YOU WANT

FACT: There is no significant differences between Pfizer and Moderna.
 Whatever is available, you should get. Don't wait.

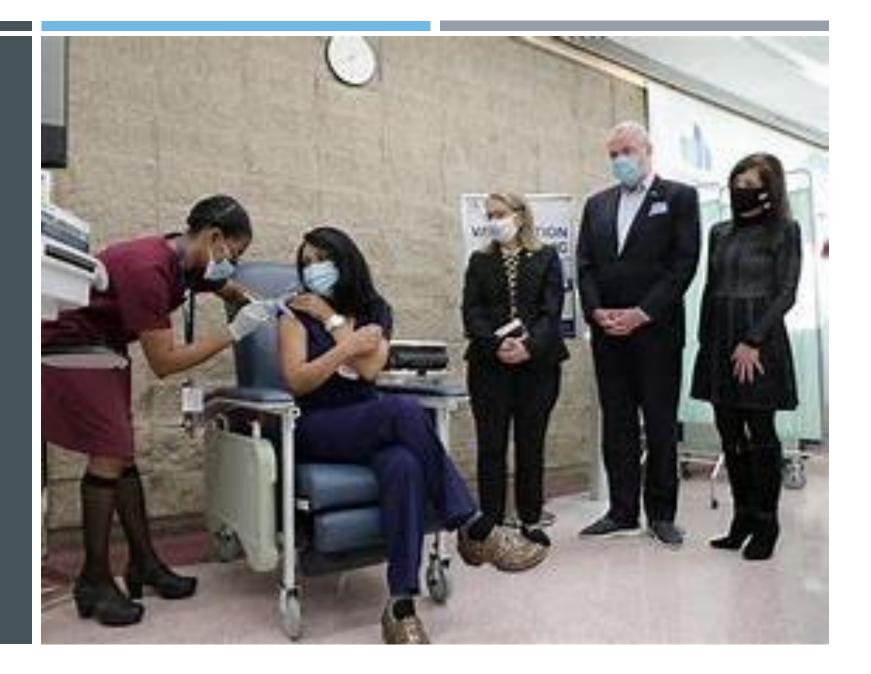
#### **CAROL FASANO**

 Anyone 12 years old or older who lives, works or studies in New Jersey can get a COVID-19 vaccine NOW.



# GETTING THE VACCINE....

- Walgreens, CVS, Rite-Aid, and many other sites.
- VACCINE IS FREE.
- Bring ID
- Common side-effects



## HOW AND WHERE TO MAKE AN APPOINTMENT

www.Hudsoncovidvax.org

https://covid19.nj.gov/



## COMMON SIDE-EFFECTS

- Pain or swelling at the injection site
- Mild Fever
- Headache

# SOME COMMON SIDE-EFFECTS YOU MIGHT EXPERIENCE AFTER GETTING THE COVID-19

VACCINE









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#### HEALTH DISPARITIES & COVID VACCINE

WHOWHYWHAT CAN WE DO TO HELP

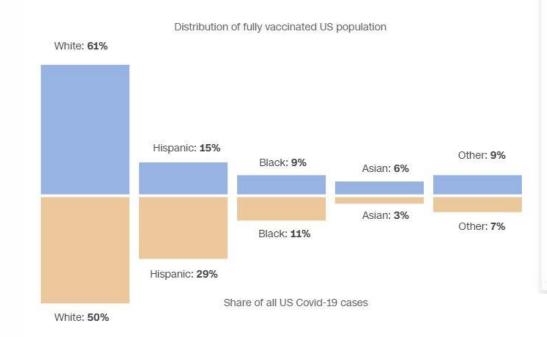
Kathleen Smith-Wenning



#### HEALTH DISPARITIES DEFINITION

 Health disparities are preventable differences in the burden of disease, injury, violence, or in opportunities to achieve optimal health experienced by socially disadvantaged racial, ethnic, and other population groups, and communities.

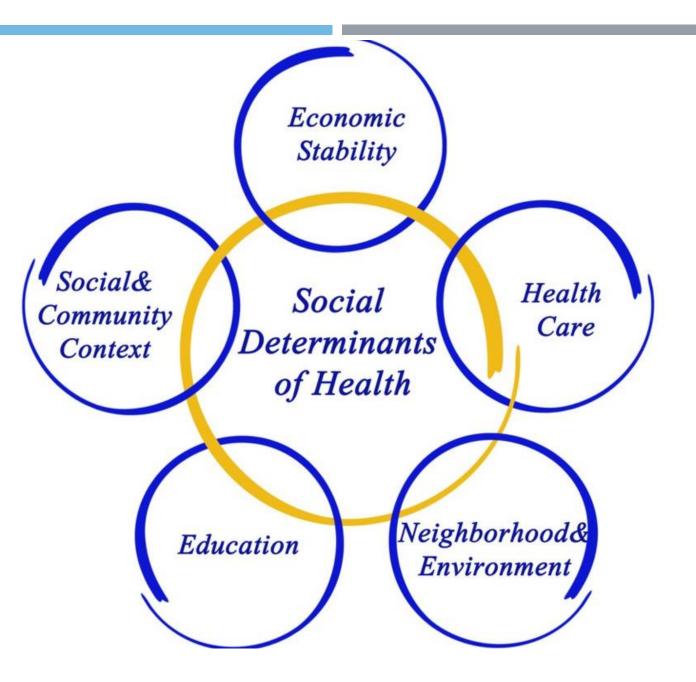
#### **VACCINE DISPARITIES**



Black and Hispanic communities have been particularly hard hit by the pandemic. About 29% of Covid-19 infections in the US were among Hispanic people, more than their 17% share of the total population — but Hispanic people have only received 15% of vaccinations. Similarly, more than 11% of Covid-19 cases have occurred among Black people, who make up 9% of all vaccinations.

#### WHAT CAN WE DO?

- Knowledge is power
  - Know the facts
  - Know your risks
  - Take control



MORBIDITY -POST COVID SYNDROME -NUMBERS HARD TO COUNT

- Common lingering symptoms that can linger include:
  - Fatigue
  - Difficulty breathing shortness of breath impedes activities of daily living
  - Joint pain
  - Chest pain
  - Brain fog, including an inability to concentrate and impaired memory
  - Loss of taste and/or smell
  - Sleep issues
- Knowledge is power
  - Know the facts
  - Know your risks
  - Take control wear a mask, social distance, wash hands and .... get vaccinated



### **FREQUENTLY ASKED QUESTIONS?**

- Is one vaccine better than another?
- Can I choose which vaccine to get?
- Will a booster shot be needed every year?
- Do I still have to ware a face mask and social distance once I get a vaccine?
- Are vaccines effective against the variants of the virus?

## ONCE VACCINATED, THEN WHAT?

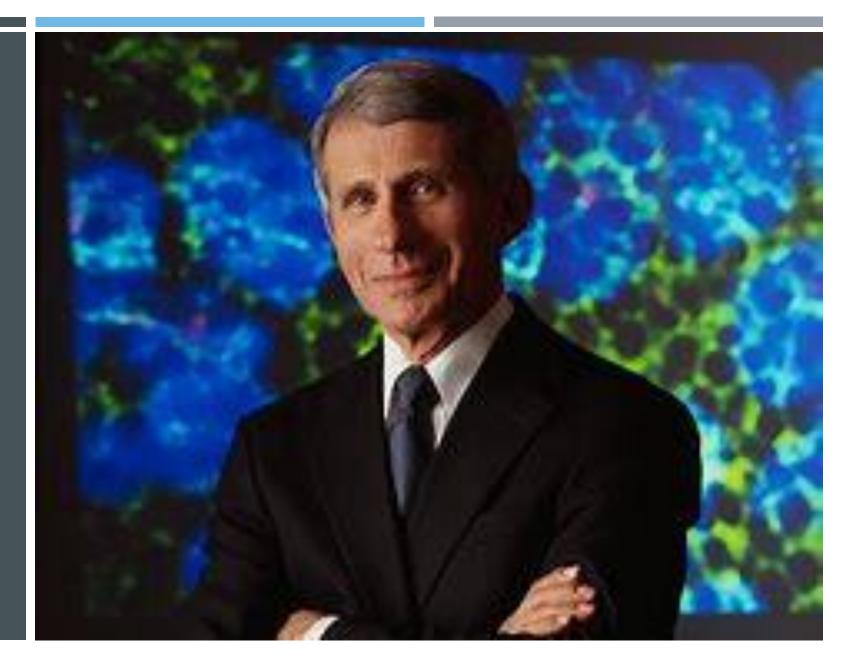
- How long does it take to become immunized?
- Can I still get COVID virus once vaccinated?
- Do I have to quarantine if I am exposed to COVID positive person?
- What is HERD immunity?



# RESOURCES FOR INFORMATION

- www.Hudsoncovidvax.org
- WWW.CDC.GOV
  - Frequently Asked Questions

     about COVID-19 Vaccination |
     CDC
  - <u>8 Things to Know about the</u> <u>U.S. COVID-19 Vaccination</u> <u>Program | CDC</u>
- https://covid19.nj.gov/
  - <u>New Jersey COVID-19</u>
     <u>Information Hub (nj.gov)</u>



#### **CONTINUE TO STOP THE SPREAD** .....



#### WHAT WILL HCCC CONTINUE TO DO.....



Encourage	Encourage EVERYONE to be vaccinated
Masks	Provide masks for those who are unvaccinated or those who still wish to use a mask
Maintain	Maintain air quality; air purification and filtration
Provide	Provide hand sanitizers

## RETURN TO CAMPUS TASKFORCE

- AFTER JULY 6<sup>TH</sup>, 2021
- NO MASK FOR THOSE WHO ARE VACCINATED
- NO SOCIAL DISTANCING REQUIREMENT



# I GOT THE VACCINE.....ASK ME WHY.....

To protect myself..... To protect my family..... So I don't get so sick that I am hospitalized..... So I can travel..... So I can see my extended family..... Because I want to do sports.....

#### https://youtu.be/StKPZXHDtB0

