COVID-19 Basics The Vaccine is Here Now What?

January 2021

# **Objectives:**

1. Describe the COVID-19 pandemic background

2. Understand the COVID-19 vaccine development

3. Explain why the COVID-19 vaccine is important

Current Statistics (as of 1/03/2021)\*

COVID-19 reported cases worldwide84,985,054COVID-19 reported cases in U.S.20,577,177Mortality worldwide1,841,077Mortality in U.S.351,302

\*Johns Hopkins Coronovirus Resource Center.





- Spread Respiratory droplets or small particles resulting from coughs, sneezes, sings, talks, or breathes, inhaled into the nose, mouth, airways, and lungs and cause infection. Droplets can also land on surfaces and objects and be transferred by touch, then touching the mouth, nose, or eyes.
- Symptoms fever or chills, cough, shortness of breath or difficulty breathing, fatigue, muscle or body aches, headache, new loss of taste or smell, sore throat, congestion or runny nose, nausea or vomiting, diarrhea (not a full list).
- Do not delay getting emergency care for your health problems or any health condition that requires immediate attention.

# Concerns

- Risks: age, ethnicity, health conditions, exposure
- Testing: Call your provider: rapid tests, nasal, oral & blood
  - Negative results
  - Positive results
- Travel
- Exposure, self isolate, self quarantine
- Infection/exposure
  - 10 days since symptoms first appeared and
  - 24 hours with no fever without the use of feverreducing medications **and**
  - Other symptoms of COVID-19 are improving\*
- Systemic bias and structural racism also contribute to the high vulnerability to COVID 19 for communities of color.

## **COVID-19** Treatment

- Currently THERE IS NO CURE for COVID-19 Infection!
  - Only management/treatment without a vaccine
    - Antivirals: Remdesivir
    - Steroids: Dexamethasone
    - Antibody: Monoclonal antibodies (Regeneron)
    - Symptomatic treatment for mild cases
    - Social mitigation
- Remember who is mostly affected, highest fatality rate
  - African Americans, Hispanics both adult and pediatric
  - Healthcare Workers and Ancillary Personnel
    - Physicians, Nurses, Techs, Receptionists, Transporters, Environmental Personnel, Others deemed essential

6

#### Why Getting a COVID-19 Vaccine is so Important

- Chronic or Underlying Health Condition
  - Asthma both pediatric and adult
  - Diabetes both pediatric and adult
  - Cardiovascular Disease: High Blood Pressure, Heart Disease
  - Neurological Disease: Stroke
  - Obesity
- Elderly patients, especially those confined to long term care facilities

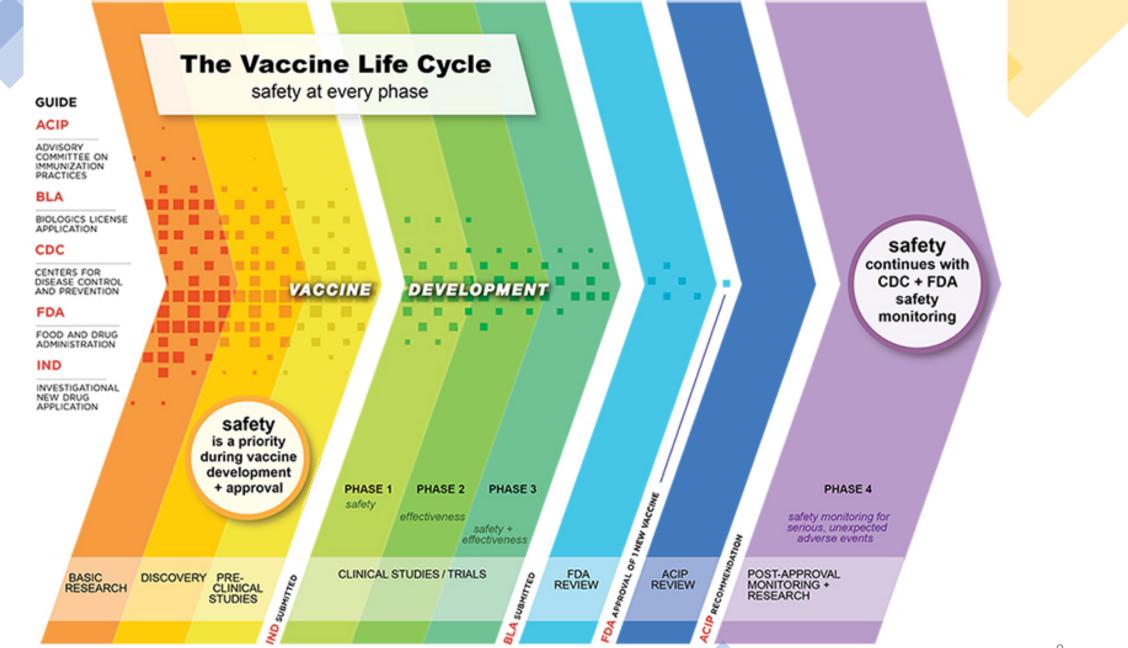
### PANDEMIC MODE

- Need to take a non-conventional approach to manage this pandemic
- If vaccine has been properly vetted (approved by FDA, CDC, etc.) then it should be embraced by all communities.
  - Significant number of African-Americans, and Hispanics were involved in studies
  - No reported adverse effects

COVID-19 Vaccine Why is it important?

## What is Vaccine Hesitancy?

- Delay in acceptance or refusal of vaccination despite availability of vaccination services
- Complex and context specific, varying across time, place and vaccines.
- Influenced by factors such as complacency, convenience and confidence



# COVID-19 Vaccine

#### **Update on Vaccines and Vaccination**

- Thank you Dr. Kizzmekia Corbett, Immunologist
  - mRNA vaccines: contain genetic instructions for building the spike protein
  - When injected, cause cells to make spike proteins, released into the body, and provoke the immune system to respond
  - NO VIRAL PARTICLES, strictly chemical
  - Breakdown of Trials (highlights)
    - Include ages 56-85 46%
      - 10% African American
      - 13% Hispanic
      - 1% Native American/Alaskan Indian
      - 6% Asian

### Update on Vaccines and Vaccination (Cont'd)

- Pfizer: two doses given 21 days apart
- Moderna: two doses give 28 days apart
  - Side Effects: 3% after 1<sup>st</sup> dose; 3.8% had fatigue, 2% had headache after 2<sup>nd</sup> dose
  - Most common: local reaction (pain, swelling, muscle soreness), flu-like illness
  - Allergic Reactions: few cases of anaphylaxis have occurred; COVID-19 vaccination is not recommended if you are allergic to any ingredient in the vaccine or have had reactions to other vaccines in the past

# COVID-19 Vaccine

### **COVID-19** Vaccine trust



### **Response to building trust**

- Must be transparent
- Reassure that the vaccine is safe and efficacious
- Educate about clinical trial process
- Data must confirm these points
- Safety was maintained during all phases of development to approval
- African American involvement in every phase

## What is Herd Immunity?

- When enough people have been infected such that the virus's ability to spread and further infect is severely limited. Experts think this alone may take 3-4 years
- Need about 70% of the population, can be augmented by use of a vaccine

## Centers for Disease Control and Prevention (CDC)

- The <u>Vaccinate with Confidence</u> strategic framework is being customized to address the unique information and health equity needs created by the COVID-19 pandemic.
- Steps include:
  - Regularly sharing clear and accurate information
  - Support healthcare personnel
  - Engaging communities and individuals in an equitable and inclusive way
- Vaccine doses purchased with U.S. taxpayer dollars will be given to the American people <u>at no cost</u>.
- CDC is also implementing a new smartphone-based tool called v-safe to check-in on people's health after they receive a COVID-19 vaccine.

### **COVID VACCINE PHASED APPROACH** (not a complete list)

1a	1b	1c	1c
Health care personnel and long-term care facility residents	Frontline essential workers: first responders, corrections, food and agricultural, manufacturing, public transit, educators	Ages 16-64 with medical conditions that increase the risk of severe COVID-19	Essential workers not in 1b
	Ages 75 and above	Ages 65-74	

Expected that anyone who wants a COVID-19 should be able to by summer of 2021 (based on availability & distribution)



COVID-19 When will the pandemic end?

#### Why Getting a COVID-19 Vaccine is so Important

• This is the best way to STOP the Pandemic at the present time, until other proven methodologies emerge and are approved.

#### Dual Pandemics Factors

- Influenza and COVID-19 could mean even higher death rates
- There is no CONSPIRACY against minorities, but rather a need to protect this group at all costs!
- If you had COVID-19 disease, you should still get vaccinated



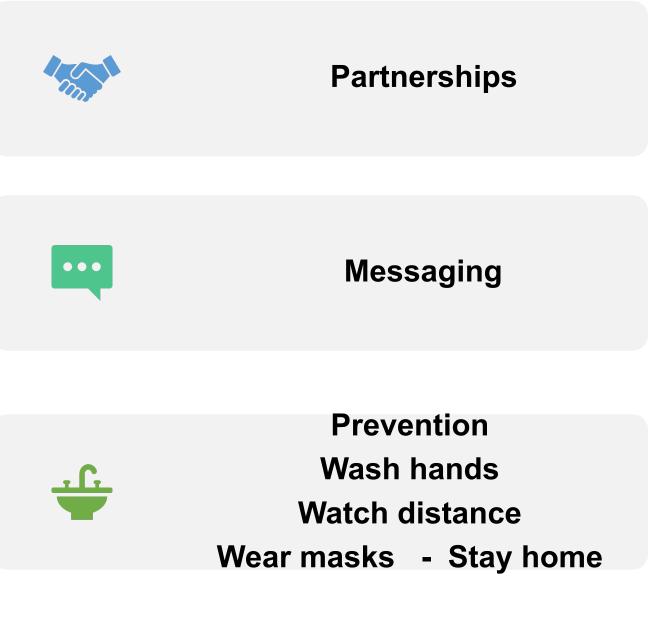
### coping....isolation....loneliness....FAITH

Loss, uncertainty, anxiety

- Situational/Environmental
- Personal/Professional
- Organizational

Touch Builds Trust – Believe the trusted voices

# **Next Steps**



## **Trusted Voices**

Educate for informed decision making and personal responsibility

**Prepare, Protect and Perform** 



CDC COVID-19 information

https://www.cdc.gov/coronavirus/2019-ncov/

**NIH Clinical trial information** 

https://www.niaid.nih.gov/clinical-trials/covid-19-clinical-trials

## QUESTIONS???

Thank you