## Vaccine Journey



Vaccines offer our bodies instructions on how to fight COVID-19 in case we are exposed to the virus. Vaccines are developed, tested and distributed with very strict rules to ensure they are both safe and effective.



# Research & Development

- Scientists study and learn about the virus to develop a vaccine that prevents us from getting sick.
- Potential vaccines are tested and studied in a lab for effectiveness and potential side effects.
- The Food & Drug Administration (FDA) reviews research data for safety and accuracy before new vaccines are tested with humans.



# Clinical Trial Process

Throughout the process, researchers from the private sector and government check the data and enforce all safety standards.

#### Phase I:

Focused on safety, a small group of 20-100 healthy volunteers receive the vaccine and are closely monitored for side effects and efficacy.



### Manufacturing

- Millions of highly skilled workers across the world help produce the COVID-19 vaccines.
- Safety, security and quality control measures make sure each vaccine dose meets the appropriate standards.
- Vaccines are carefully packaged and prepared for transportation.



- The vaccine is given to thousands of individuals to check for safety and efficacy.
- Medical and public health experts approve and authorize promising vaccines.

### Phase II:

In randomizedcontrol studies, different doses are tested on hundreds of volunteers of different ages, genders, lifestyles, health conditions and races to understand side effects, risks and effectiveness.



Vaccination



After the Vaccine



Allocation

Federal, state and local governments prioritize and determine how to distribute vaccines. Healthcare workers administer the vaccine to eligible individuals.

- The FDA and CDC continue to monitor for any adverse effects.
- It is normal to experience mild to moderate side effects for 1-2 days after your shot. Your immune system is working to protect you.