



# C VID-19

Vaccine Study Session | February 2, 2021

# Status of COVID-19 in Long Beach

- As of February 2, 2021:
  - 48,638 Cases
  - 294 Hospitalized
  - 679 Deaths
    - January has been the deadliest month so far, >245 deaths compared to 150 in Dec.
- Testing
- To date, total specimens collected through City test sites: 367,515
- Total to date tested citywide: 661,869
  - Max in a day: 3,922
  - Avg currently: 2,218

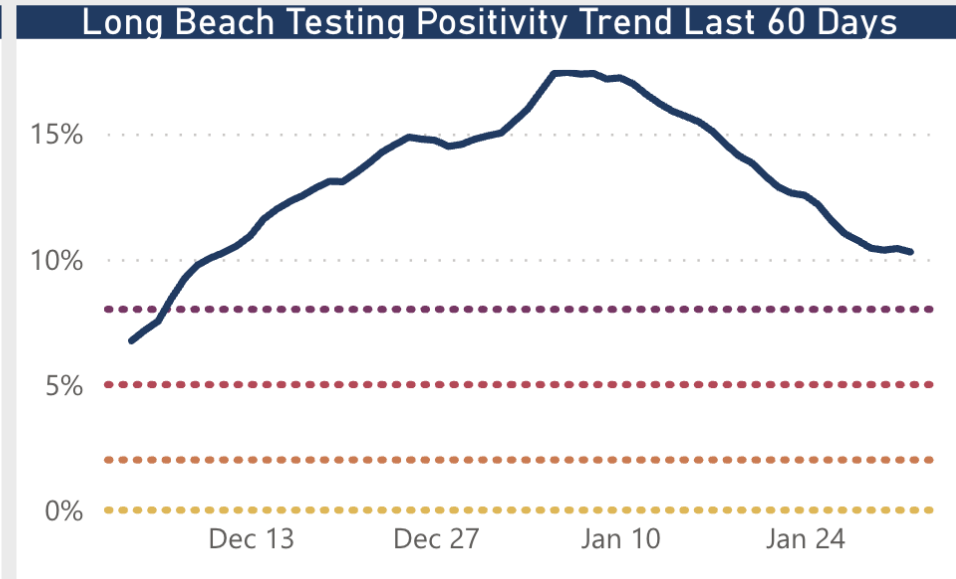
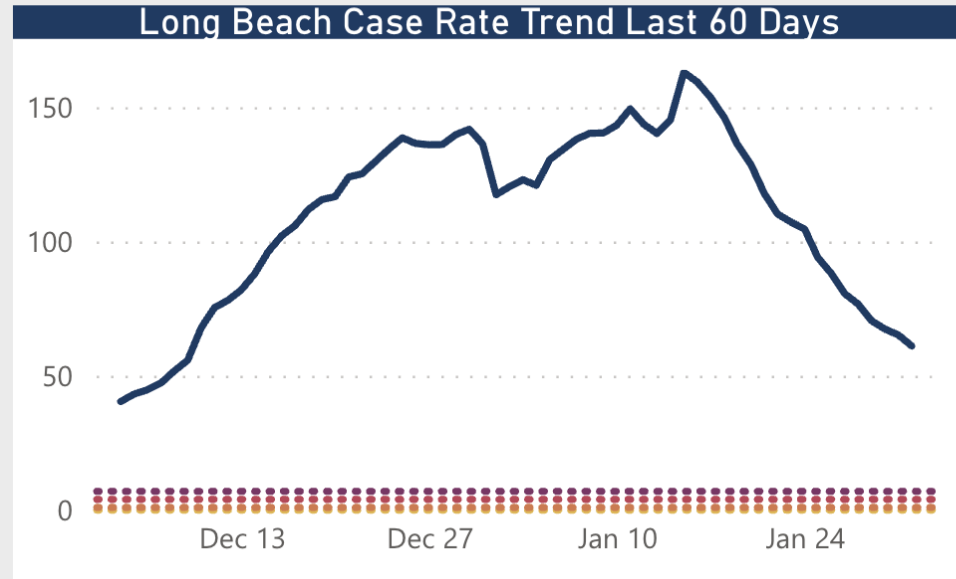
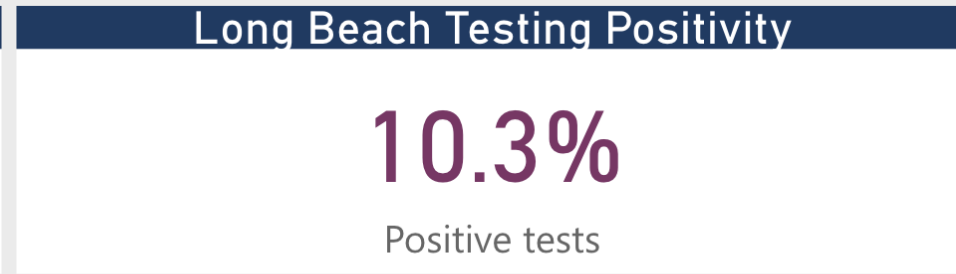
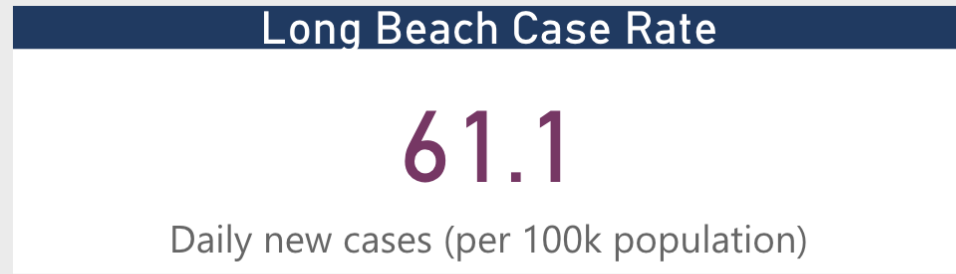


# Status of COVID-19 in Long Beach

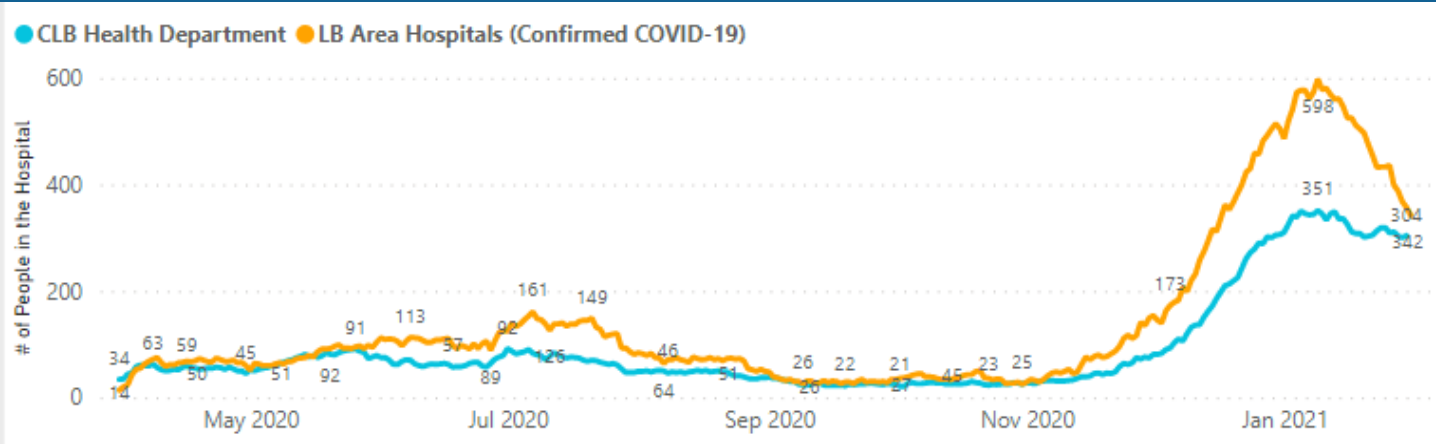
- **The Winter surge began the first week of November**
  - Case Rate: 10/100,000
  - Positivity Rate: 3.6%
  - Hospitalizations: 28 LB residents/28 in area hospitals
  - Weekly Deaths: 5
- **Peaked in Mid-January**
  - Case Rate: 163/100,000
  - Positivity Rate: 17.4%
  - Hospitalizations: 351 LB residents/598 in area hospitals
  - Weekly Deaths: 72

# Status of COVID-19 in Long Beach

- This Week

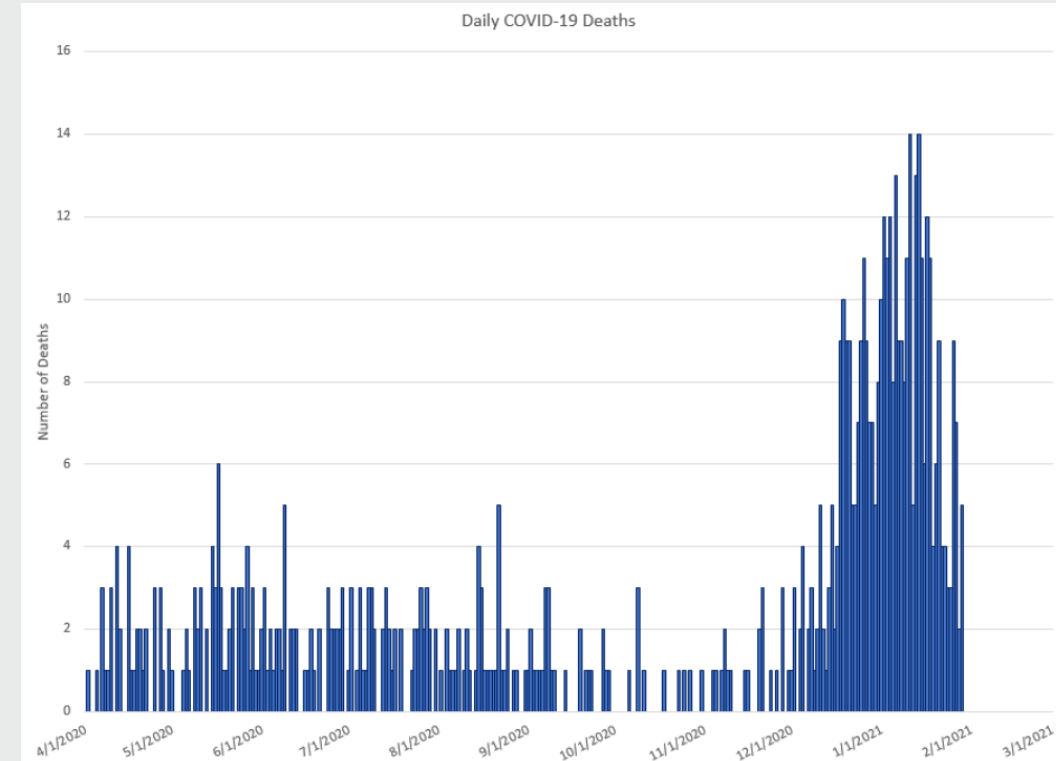


# Status of COVID-19 in Long Beach

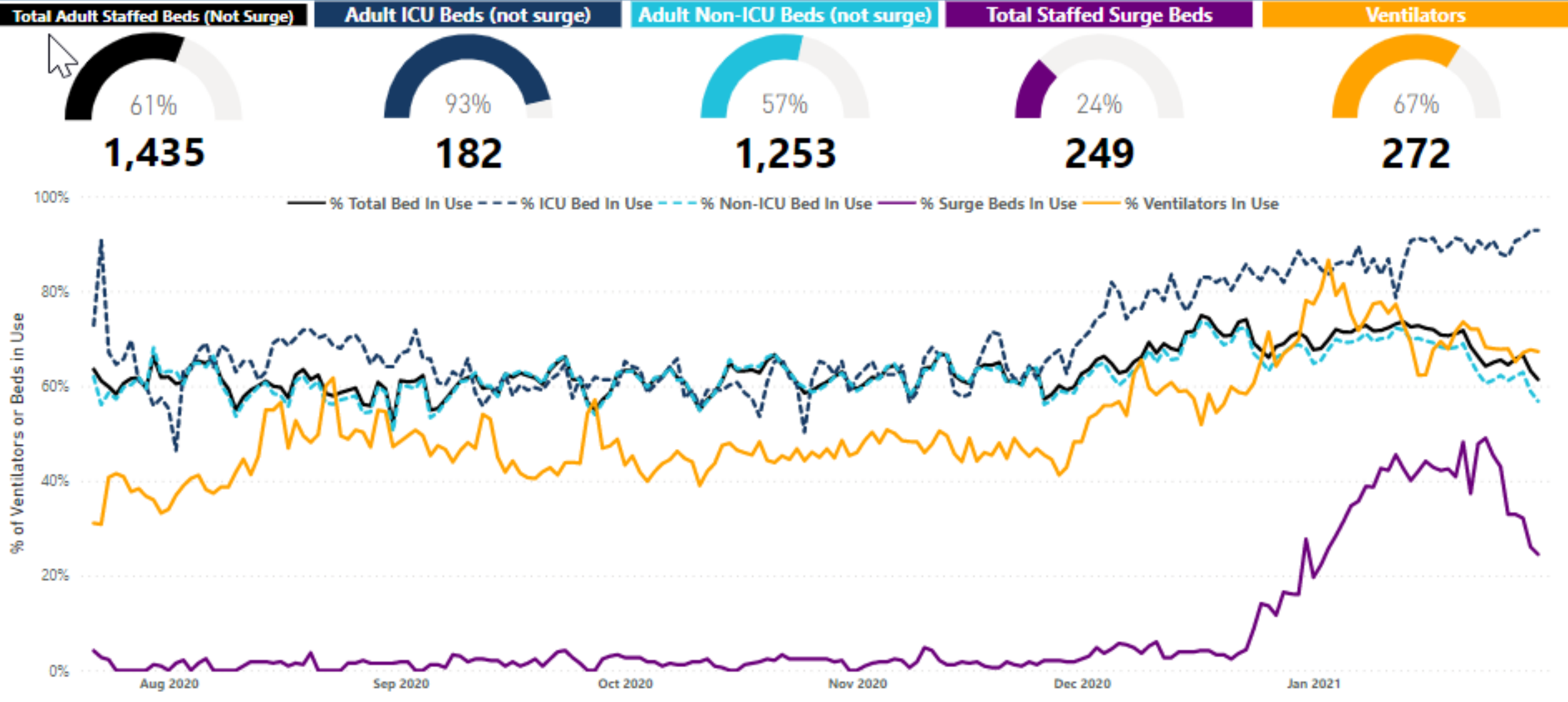


**Hospitalizations:** 294 LB residents/342 in area hospitals

**Deaths:** Currently avg of 5 deaths/day, down from 11 deaths/day in mid-January



# Status of COVID-19 in Long Beach

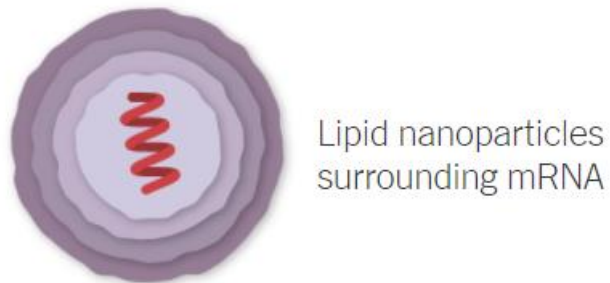
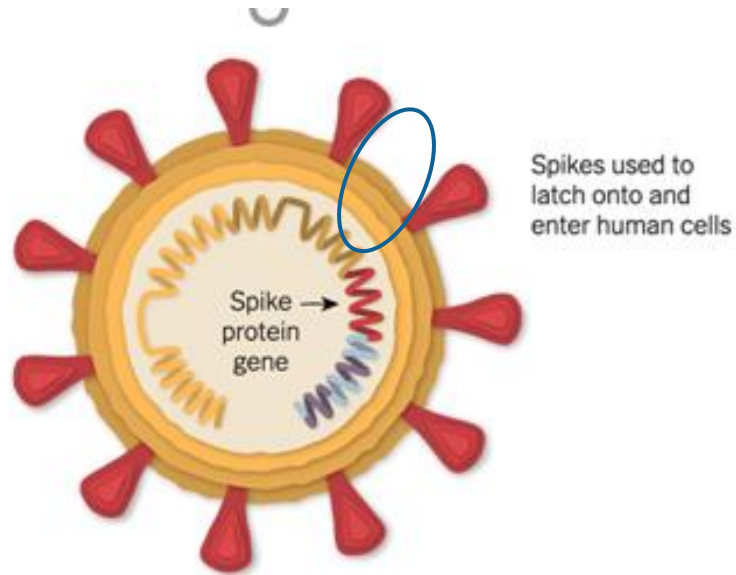




# Vaccine

## How does it work?

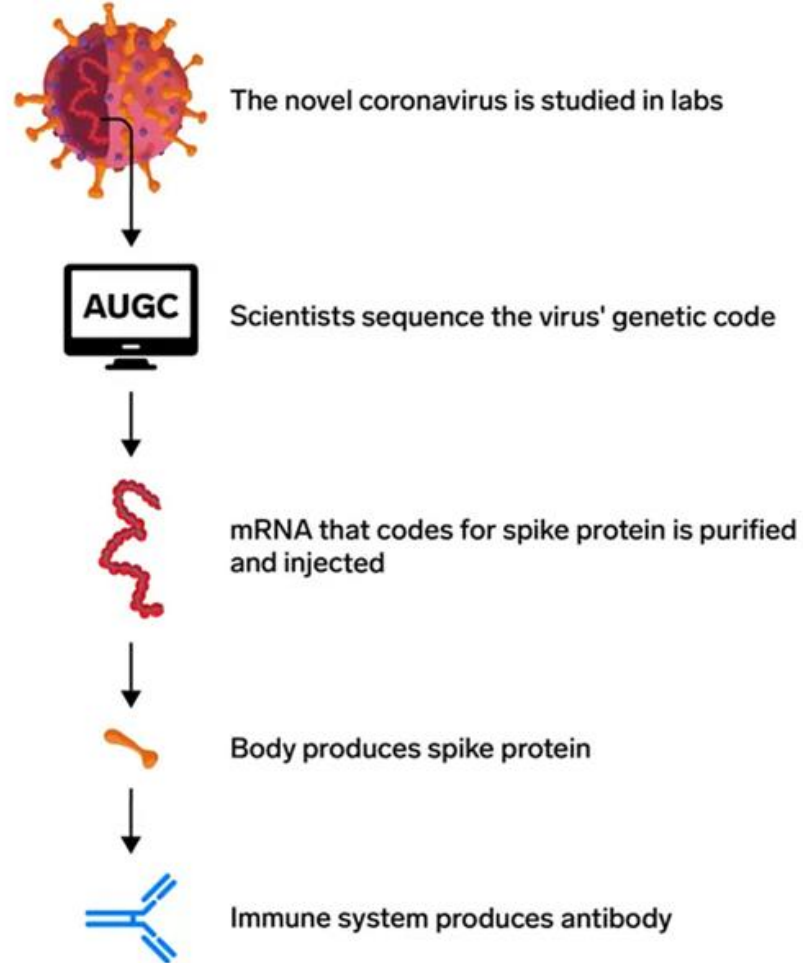
CORONAVIRUS



## mRNA Vaccines (Pfizer & Moderna)

- mRNA vaccine is made of a small piece of genetic material
  - Are the instructions for how to make the spike protein
  - It is only the spike protein, so is harmless to you

## How mRNA vaccines work



Source: National Institutes of Health presentation at Senate hearing on September 9, 2020.

INSIDER

## COVID-19 Vaccines

- The vaccine isn't a live virus and can't give you COVID
- The mRNA is synthesized in a lab, not taken from the virus
- mRNA is easy to make in a lab, so mRNA vaccines are easier and faster to make than some other types of vaccines
- mRNA is fragile and requires special temperatures and handling

# The mRNA Does Not Stay in our Body

- The vaccine mRNA is destroyed by our cells once copies of the spike protein are made and it is no longer needed
- The vaccine does not enter our cells' nucleus or interact with our DNA at all

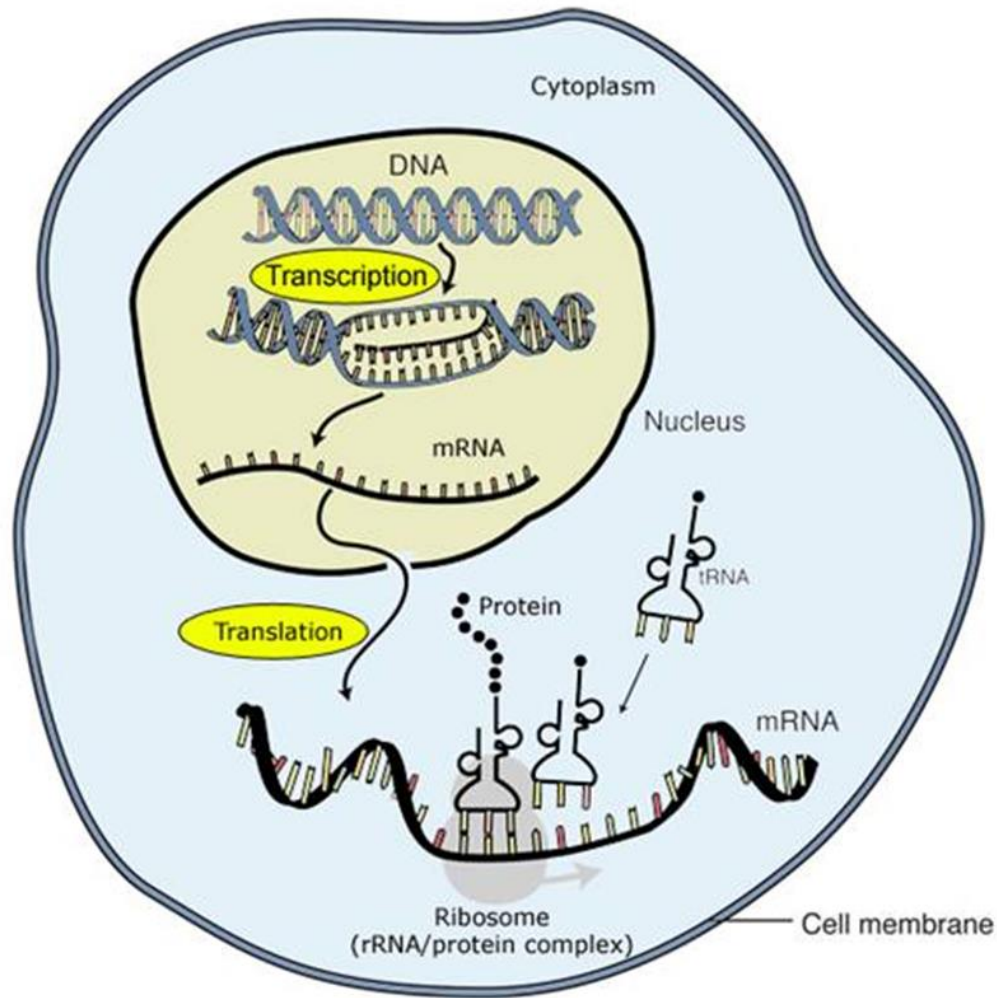


Image adapted from: National Human Genome Research Institute.



# mRNA Vaccine Technology is not new

- mRNA vaccines are a new type of vaccine
- However, mRNA technology has been studied for over a decade, including in humans
  - Studied for Zika, rabies, and influenza vaccines
  - To treat cancer by making body attack cancer cells

# Other Things to Know

- Mild to moderate side effects are common after vaccination
  - Sore arm for majority of people
  - Fever, headache, muscle aches, nausea, fatigue
  - Called reactogenicity, and if it occurs, usually happens 1-3 days after vaccination and doesn't last more than 1-3 days
  - More common after second dose
  - Normal and expected



# Other Things to Know

- Anaphylaxis rate is 2.8-5 occurrences per 1 million vaccinations  
(Rate of anaphylaxis for all vaccines is 1.3 occurrences per 1 million shots)
  - You should **not** get the COVID19 mRNA vaccine
    - If you've had a severe allergic reaction (e.g., anaphylaxis) to a previous mRNA vaccine or any of its components
    - If you had an immediate allergic reaction of any severity to a previous dose of mRNA vaccine or any of its components
    - Or an immediate allergic reaction of any severity to polysorbate

# Other Things to Know

- If you've had a history of any immediate allergic reaction to vaccines or injectable therapies (besides those of mRNA vaccines or its components), you should have a risk assessment done by a healthcare provider
- People who have oral medicines, food, venom, insect, pollen, latex, etc. allergies are able to be vaccinated

# What We Still Don't Know

- How long the immunity from vaccines lasts
- If the vaccine prevents asymptomatic transmission
- How effective only one dose of the two-dose series is
- Vaccine effectiveness against variants
- What level of vaccination will give us herd-immunity
- Important to continue wearing masks, physical distancing, not gathering outside of household



# Monitoring for Adverse Events



- V Safe--new, specific for COVID-19 vaccination  
<https://www.cdc.gov/coronavirus/2019ncov/vaccines/safety/vsafe.html>
  - CDC Developed smart phone-based tool using text messages and web surveys to provide personalized health check-ins after you receive a COVID-19 vaccine
  - Depending on your answers, CDC may call you to get more info and follow up
  - Also sends 2<sup>nd</sup> dose reminders
- VAERS—Vaccine Adverse Events Reporting System <https://vaers.hhs.gov/>
  - Backbone of vaccine adverse events reporting for all vaccines for decades
  - Anyone can report any type of adverse event

# Other Vaccines on the Horizon



- Johnson & Johnson
  - DNA for spike protein carried by an inactivated cold virus
  - Only one shot!
  - Can stay in the fridge for months!
  - Best at preventing severe disease
- AstraZeneca
  - Same type of vaccine as Johnson & Johnson
  - Novavax
    - Make the spike protein separately and inject a collection of those



# Vaccine The Rollout



# The Background | Prioritization

- The CDC established tiers prioritizing vaccine distribution.
- California followed these locally.
  - Two phases, multiple tiers in Phase 1.
- Tiers established primarily based on workforce sector, with the addition of older adults.
  - Sectors established based on risk of contracting the COVID-19 virus.
- Vaccine allocation is based on the number of people that work in each sector within a jurisdiction.
- Tiers shifting at the State level to an age-based system once current tier is complete.

# The Background | Prioritization

- Phase 1a:
  - Health Care Workers
  - Long-term care residents
- Phase 1b | Tier 1:
  - Age 65 and older
  - Emergency Response
  - Food Service and Agriculture
  - Education and childcare
- Remainder of the prioritizations is currently being determined by CDPH



# The Background | The Vaccines

- Currently two Vaccines given Emergency Use Authorization (EUA)
  - Pfizer
  - Moderna
- Both are two doses
  - Pfizer: 2<sup>nd</sup> dose given 21 days after 1<sup>st</sup> dose
  - Moderna: 2<sup>nd</sup> dose given 28 days after 1<sup>st</sup> dose
  - Clinical trial data allowed CDC to update the guidance that the 2<sup>nd</sup> dose can be given up to 42 days after the 1<sup>st</sup> and still retain the same level of efficacy. Data are not available for 2<sup>nd</sup> doses given past this timeframe.
- Johnson & Johnson in Phase 3 Trials: One single dose and they are expected to submit all clinical trial data for EUA approval this week

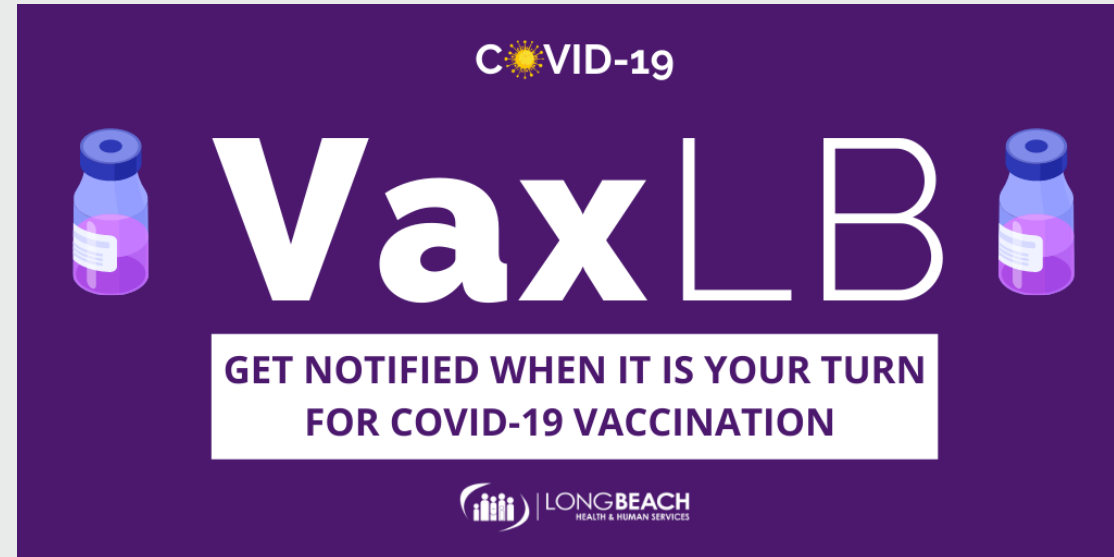
# The Background | Delivery Process

- City of Long Beach, as its own Local Health Jurisdiction (LHJ), receives its own allocation.
- Allocations come into the LHJ who then determines allotments to:
  - Organizations approved by the CDC and CDPH to receive and dispense vaccine
    - Hospitals/Clinics
    - Pharmacies
    - Health Department for Mass Vaccination Points of Dispensing (PODs)
- Goal is to build COVID-19 vaccine into the health care sector, similar to the flu shot.

# The Background | Response System

- [covid19vaccine@longbeach.gov](mailto:covid19vaccine@longbeach.gov)
- 570-INFO (4636); #6
  - Basic Call Line and Basic Needs/Older Adult Line also responding
- Responding 7 days per week
  - To date, more than 21,200 emails have been responded to
  - To date, more than 5,800 calls have been received
  - To date, more than 2,700 voicemails have received a call back
- Number of personnel assigned to the COVID-19 Vaccine Info Line and email response: 23
  - 14 Reassigned City staff from PRM and Port
  - Economic Development has also assisted with business calls
- Number of personnel assigned to the COVID-19 Call Center: 10
- Number of personnel assigned to the Older Adult Resource Line: 9
- The lines can assist with making appointments over the phone for those who need assistance
- **Total Phone/Email Response Personnel: 42**

- Notification System
  - People complete the form indicating age, employment sector, and if underlying health condition
  - Notified when appointments become available for their tier
  - Sent a link for an appointment when available
- As of February 1:
  - **64,267 individuals have registered in VaxLB**
  - 22,308 older adults
  - 2,797 health care workers
  - 4,846 food service/agriculture
  - 2,536 educators
- These numbers are likely overestimated due to duplicates and those who already vaccinated.



# The Background | City Dispensing Infrastructure

- 2 Mass Vaccine POD Locations
  - Convention Center (capacity of 3,000)
  - Health Department (older adults only)
- Mobile Clinic
  - Senior buildings not covered by the federal pharmacy program
  - Individuals who are homebound
  - Pop-Up vaccine clinics in communities most impacted by COVID
  - Begins in February based on vaccine availability
- **Capacity to provide 70,000 vaccines per month**



# Appointments

- State Appointment System: PrepMod
  - Health Departments uploads dates, times, locations available
  - Link for those appointments is sent to allow for sign-up
- Accessing Appointments
  - Initially by emailing or calling the vaccine line for individuals
  - Link provided by an approved employer
  - VaxLB
- State rolling out new system: Myturn
  - Statewide appointment and notification system.

# Vaccine Partnerships

- MemorialCare Long Beach Medical Center
  - Older Adults
- Federal Pharmacy Program (CDC/CVS/Walgreens)
  - All Skilled Nursing Facilities (SNF) and Assisted Living Facilities (ALF) are enrolled in this program
  - Also includes some HUD housing and other intermediate housing
  - 100% of SNF have received first dose; 56% have received 2nd dose
  - 72% of ALF have received first dose
  - 3,159 resident doses provided (first and second doses)
  - 3,597 staff doses provided (first and second doses)

# Mobile Vaccination (forthcoming)

- Senior Living Apartment Buildings not already covered by the federal pharmacy program
- Community Based Pop-up Vaccine Clinics
- Appointment-based vaccines for homebound individuals
  
- Similar to mobile testing, this will be accessible through an online request form and/or the call center



# Vaccine by the Numbers | Allocations\*

- Allocation is the process of assigning where vaccine goes by CDC, CDPH, and LHJs
- To date, total vaccines allocated to the Long Beach Health Jurisdiction:
  - 69,700
  - 1.22% of the allocation for the state



# Vaccine by Numbers | Provider Allotments

- Allotments are the actual vaccines assigned or designated to each provider
- To date, 60 providers in LB are approved by the state for an allotment
- To date, 29 providers have received vaccine
  
- Provider allotments:
  - Hospitals—19,825
  - Health Department-- 34,500 | 5,585 for 2<sup>nd</sup> doses
  - Pharmacies– 3,850
  - Remaining providers– 11,525

# Vaccine by Numbers | Administration

- To date, 47,875 doses have been administered by the 29 providers
- Health Department has administered 25,221 1<sup>st</sup> doses
- Hospitals
  - Administered 16,292 doses
    - 10,146 1<sup>st</sup> doses; 6,146 2<sup>nd</sup> doses
- Remaining providers
  - Administered 6,329 doses
    - 6,220 1st doses; 109 2<sup>nd</sup> doses

# Vaccine by the Numbers | Tiers Vaccinated

- Number of appointments offered through the Health Department PODs for the following groups:
  - More than 10,600 for adults over the age of 65
  - More than 6,400 for educators
  - More than 3,200 for HCWs
  - More than 2,600 for emergency services personnel
  - More than 800 for food workers
- Vaccinated through Health Department, Hospitals and Providers
  - Nearly 15,000 Health Care Workers
  - More than 15,000 older adults

# Vaccine | 2nd Doses

- Each person who was vaccinated through the Health Department will receive a notification when it is time for their second dose.
- The notification will include a link to make an appointment for the second dose.
- Notifications will be sent the week before their vaccine appointment is due.
- People must actively make the appointment to receive their second dose.
- Those who receive their first dose through a provider (other than the Health Department) should contact their original provider for an appointment.
- 2nd doses will be offered within the 42-day window recommended by the CDC for both Pfizer and Moderna.
- Second doses available for early February; additional doses are forthcoming.

# Vaccinations | Happening this Week

- Memorial Hospital vaccinating older adults who have previously registered through VaxLB
- CSULB begins onsite vaccination of its educators and essential workers utilizing vaccine allocation approved through the State.
- Second doses begin for City health care workers and emergency responders.

# Long Beach Residents COVID-19 Vaccinations Summary

Total Doses Administered

44299

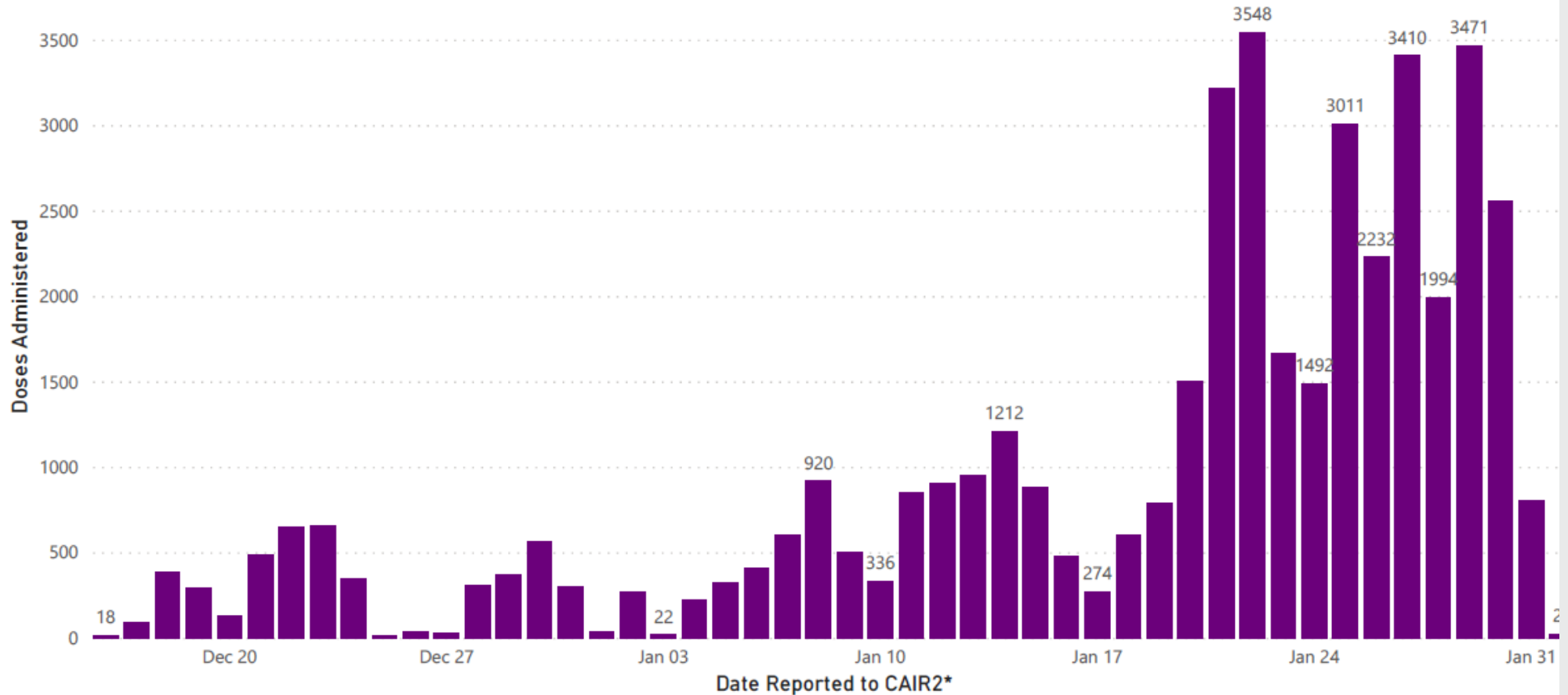
1st Doses Administered

36700

2nd Doses Administered

7436

Fig. 1: Doses Administered by Date Reported to CAIR2\*



\*Data for exact date administered is not currently available. Date of reporting to CAIR2 will estimate the date of vaccine administration but may be affected by manual data entry lags.

# Long Beach Residents: Vaccine Demographics by Age

Fig. 11: Age Distribution of First Doses Administered

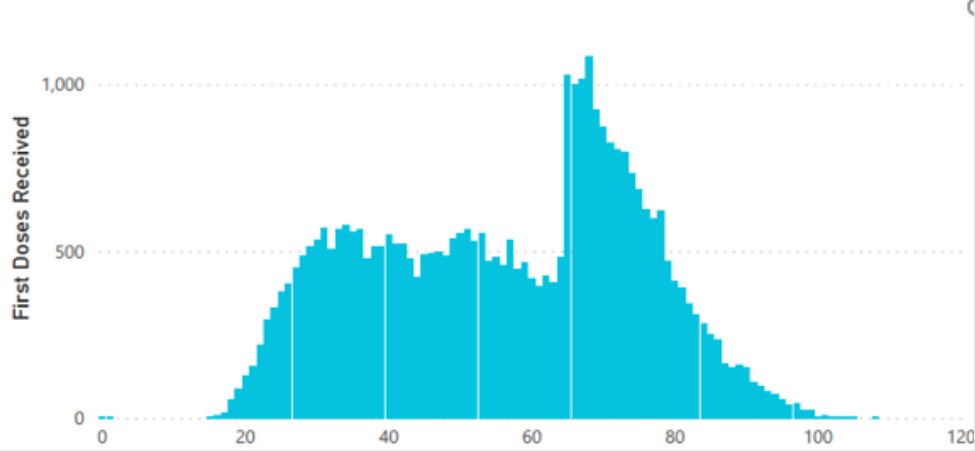


Fig. 8: First Doses Administered by Age Group

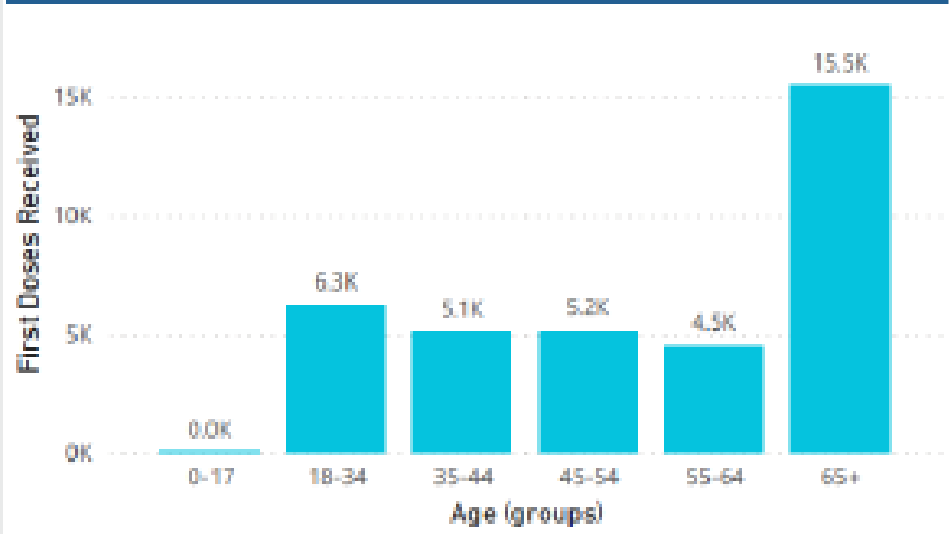
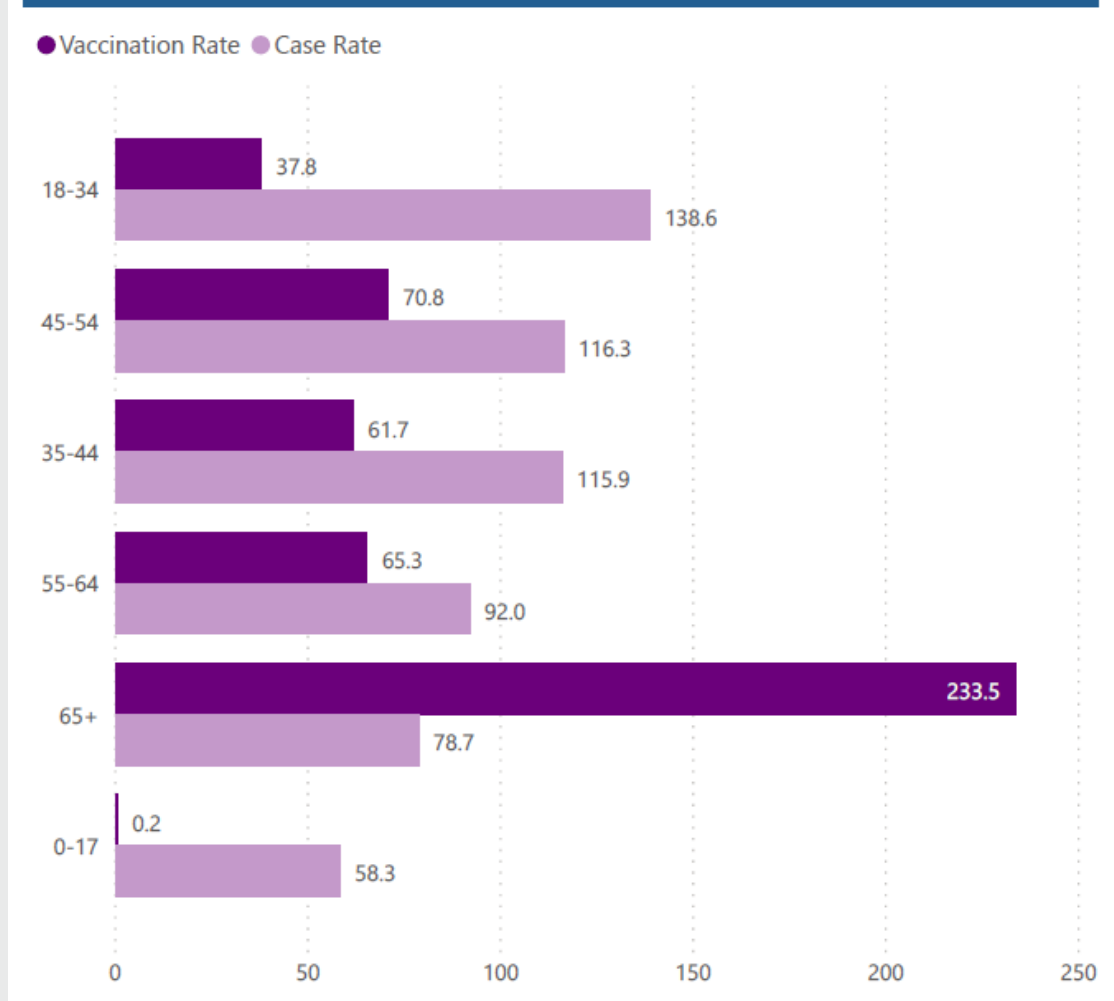


Fig. 7: Comparison of Age Group Case and Vaccination Rate (Per 1,000)



# Long Beach Residents: Vaccine Demographics by Zip Code

Fig. 12: Vaccination Rates by Zip Code

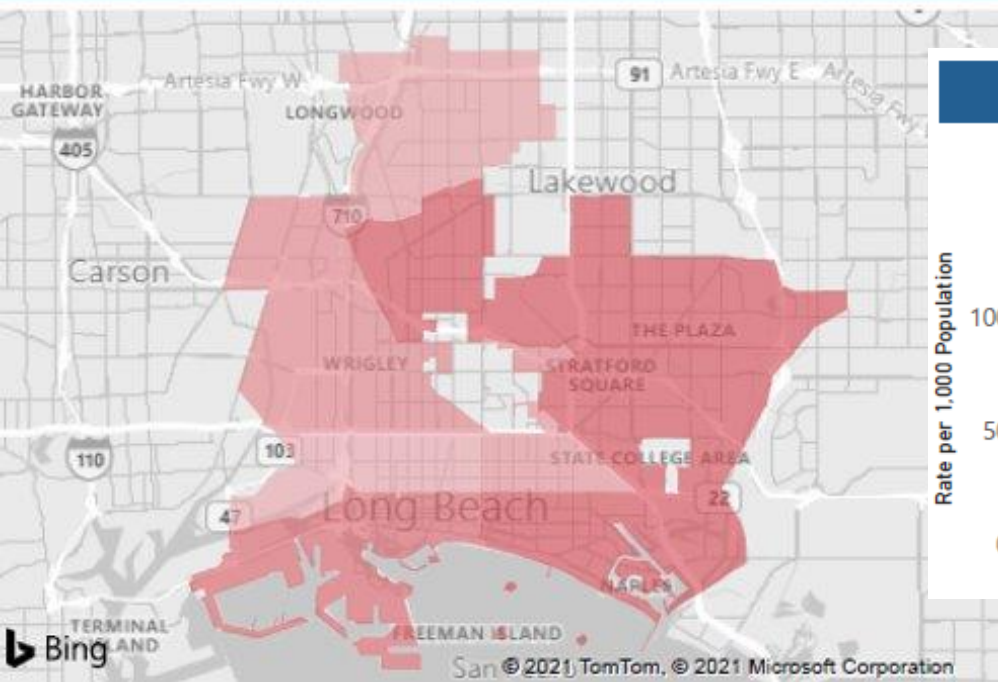
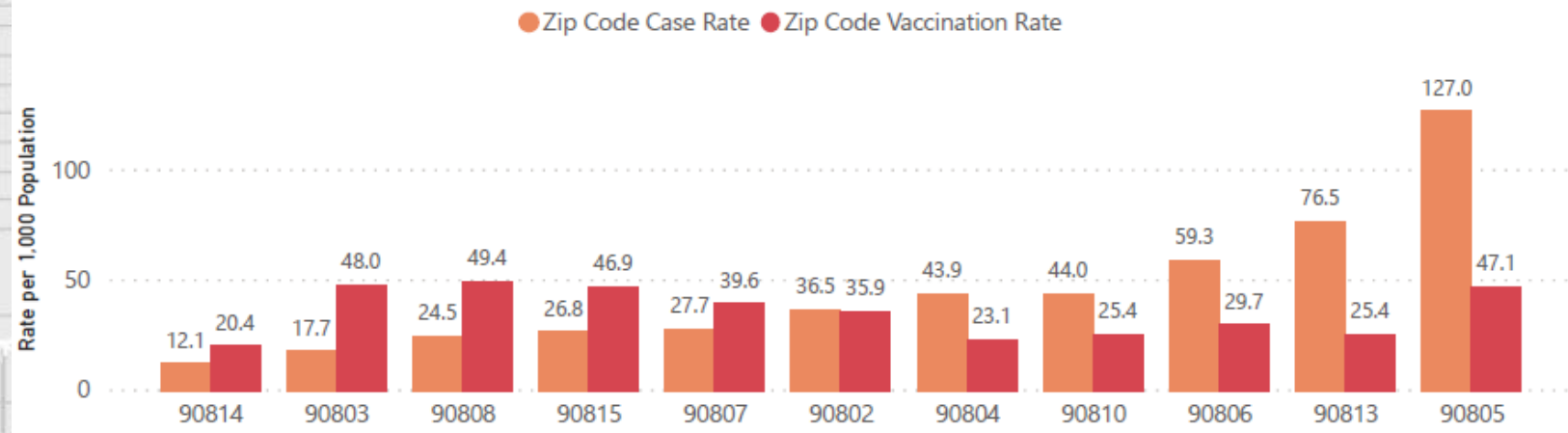


Fig. 14: Zip Code Case and Vaccination Rates (Per 1,000 Population)

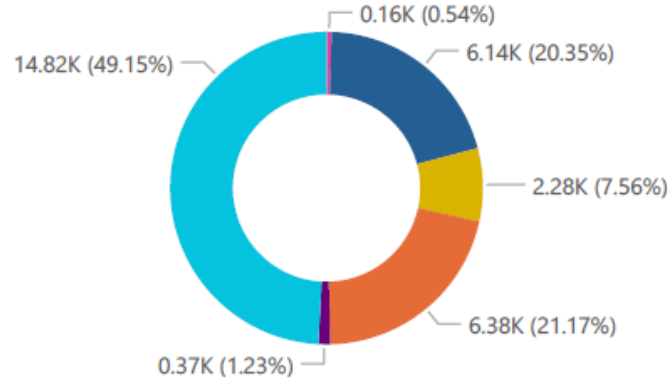


# Long Beach Residents: Vaccine Demographics by Race/Ethnicity

**Fig. 2: Proportion of First Doses Administered by Race/Ethnicity**

**Race/Ethnicity**

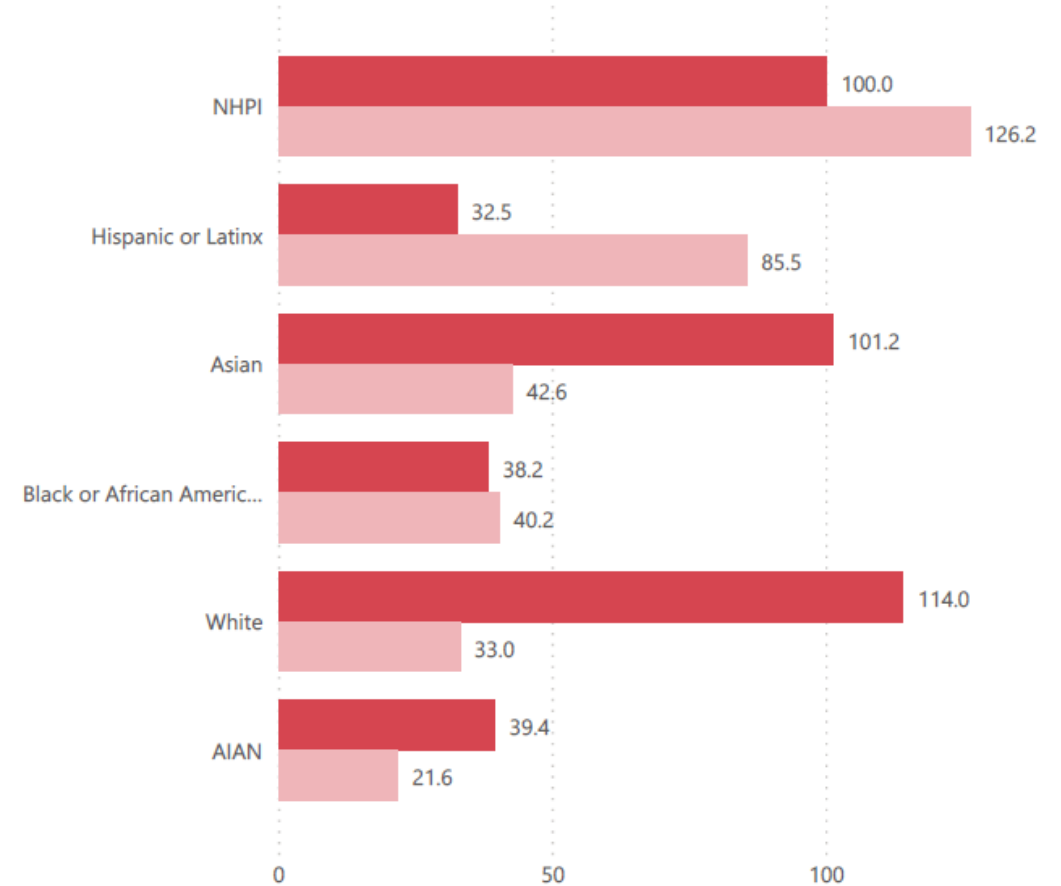
- AIAN
- Asian
- Black or African American
- Hispanic or Latinx
- NHPI
- White



\*Figure 2 percentages reflect the proportion of *known* racial/ethnic breakdown of those who have received at least one vaccine.

**Fig. 6: Comparison of Race/Ethnicity Case and Vaccination Rate (Per 1,000)**

● Vaccination Rate ● Case Rate



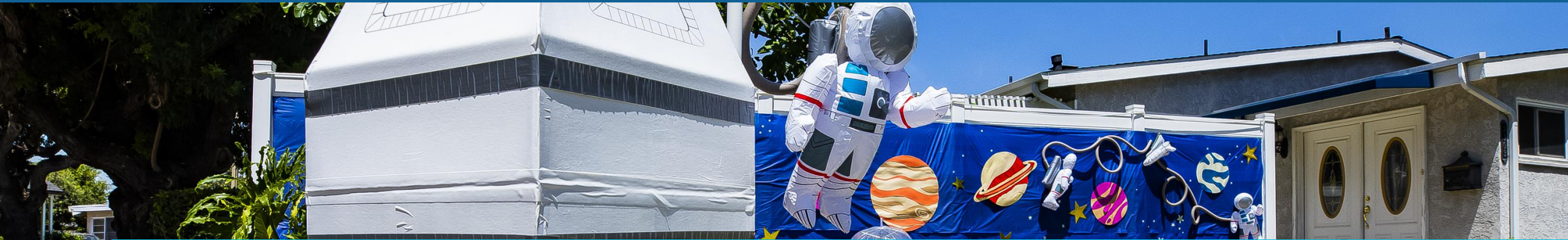
# Equity Efforts

- Building trust, knowledge, and equitable access to vaccine is essential
- Vaccine Task Force Subcommittee Focused on Equitable Outreach & Access
  - Office of Equity, Health Department, PHEM, JIC, Community Based Organizations
- Key Activities:
  - Five organizations contracted through the Public Health Institute to conduct outreach & education in specific COVID impacted communities for testing and vaccinations
  - Multilingual Digital Outreach Toolkit
  - VaxLB form and notifications in Spanish, Khmer and Tagalog
  - Phone line and email response available in multiple languages to respond to questions and support sign-ups

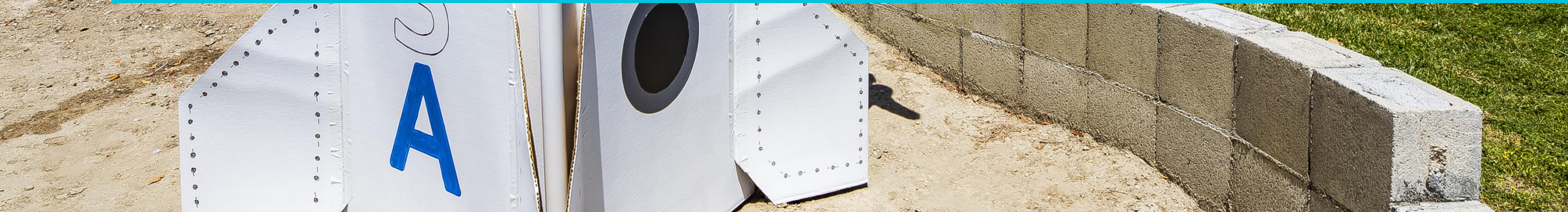
- Key Activities (cont'd)
  - Appointments made available to community-based organizations to sign up participants meeting tier requirements
  - Appointments available for community health workers/promotoras working in COVID impacted neighborhoods
  - Community-based vaccine clinics utilizing mobile clinic teams
  - Troubleshooting access and information barriers

## Activities in Development

- User-centered Khmer & Spanish videos of vaccine process
- Partnership with LB Food Support Network



# Health Order Update



# Health Order

- Revised on January 26, 2021
  - Released from Regional Stay at Home Order based on 4-week projection of ICU beds
  - Returns Long Beach (and surrounding jurisdictions) to Purple Tier
  - Allows for the Opening (with capacity limits and other distance and safety protocols) of:
    - Outdoor dining for restaurants and bars/wineries must partner with a food service provider to offer meals
    - Indoor personal services, including hair salons/barbershops, nail salons, massage, and tattoo parlors
    - Outdoor museums and family entertainment centers
    - Travel for leisure

# Health Order

- We continue to follow the State's reopening requirements and cannot go beyond what it allows.
- Businesses are largely following the orders
  - 17,400 inspections
  - 111 citations
- To move to Red Tier, must fall below 7 cases/100,000 and 8 percent positivity rate.

# State Safe Schools for All Plan

- Waiver program has ended
  - Currently waiver approved schools are allowed to continue in person instruction
- When Los Angeles County's case rate reaches 25 cases per 100,000 for 5 consecutive days,
  - School districts/schools can submit a Covid19 Safety Plan for local and state approval for K-6
- Schools are still allowed to offer in person specialized services for high needs students using the cohorting guidance
- Public schools can apply for state funding to help with testing
- The Safe Schools for All Plan needs to pass the legislature



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