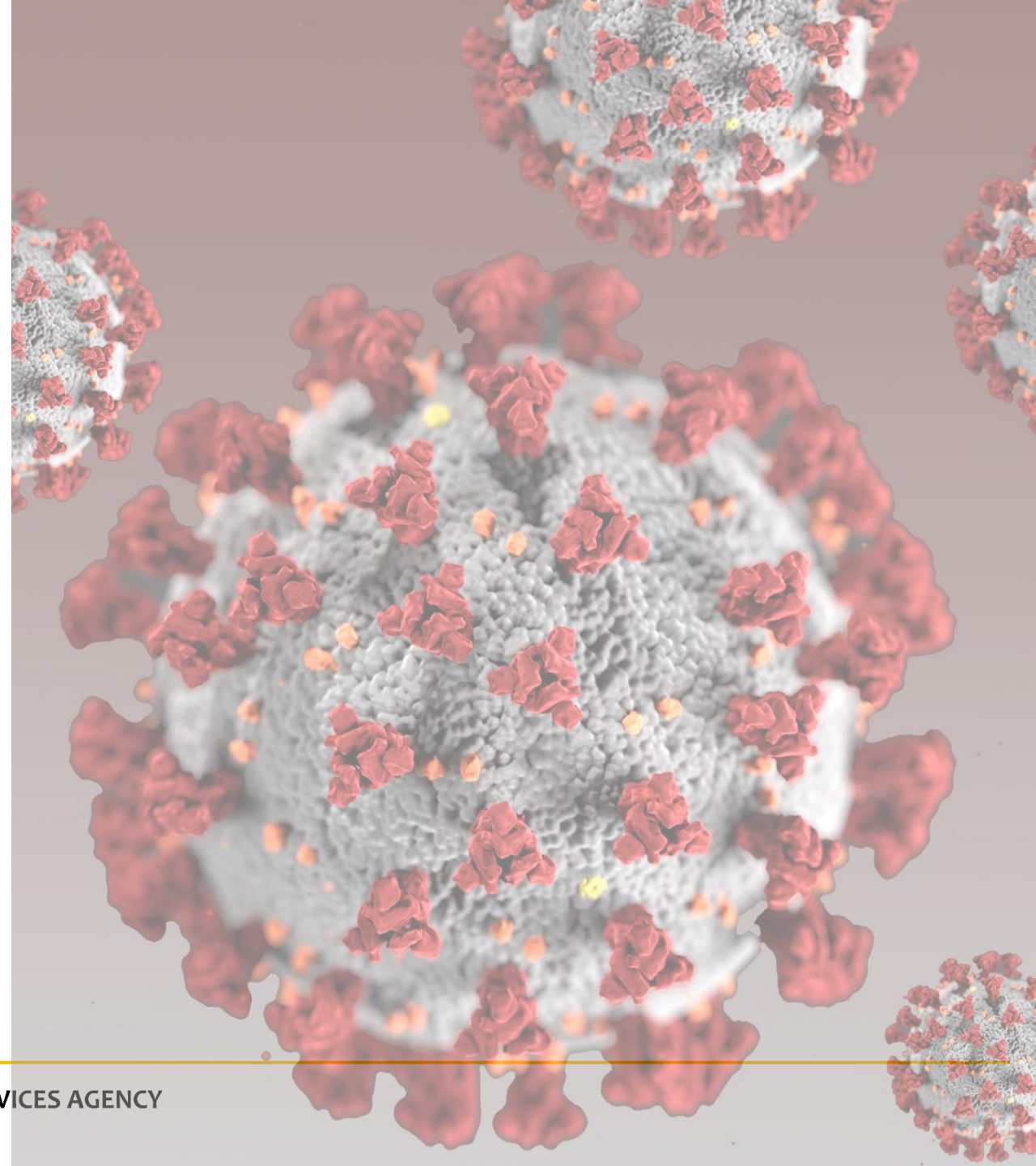


Alameda County COVID-19 Vaccine Presentation

January 30, 2021



Alameda County
Health Care Services Agency



ALAMEDA COUNTY HEALTH CARE SERVICES AGENCY
PUBLIC HEALTH DEPARTMENT

Agenda

1. COVID-19 Vaccine Overview
2. Alameda County's Vaccine Plan
3. Staying Informed
4. Questions & Answers

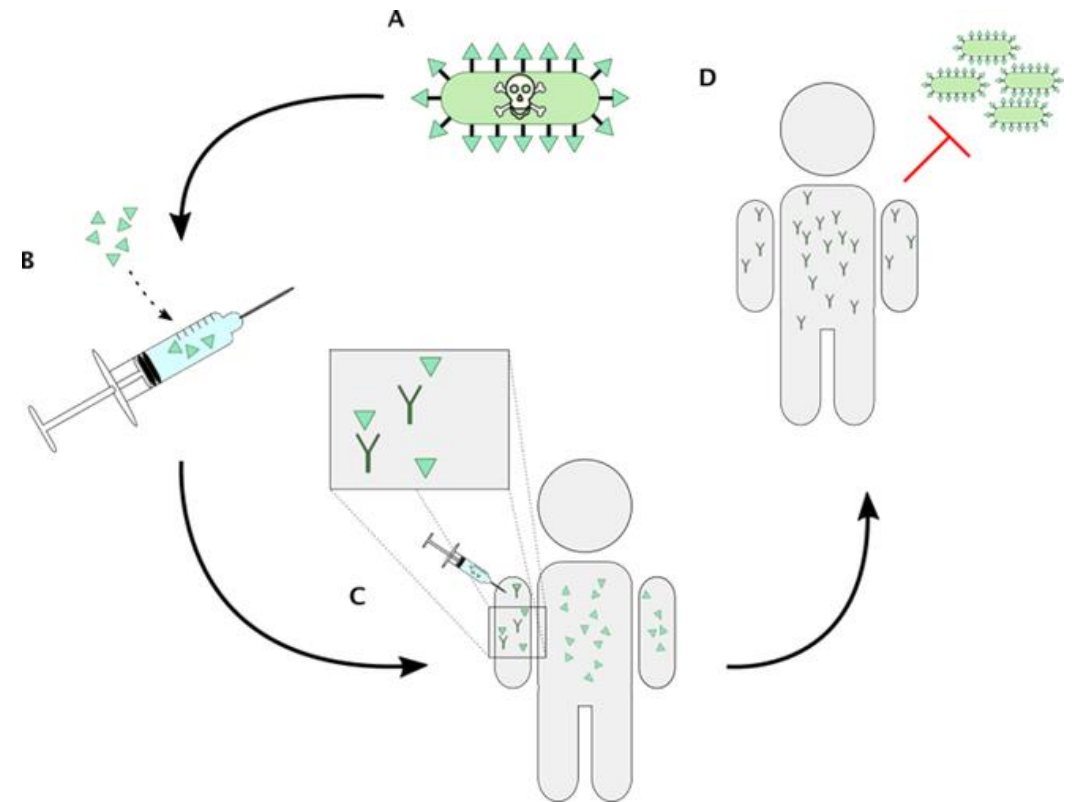


1. COVID-19 Vaccine Overview



How Do Vaccines Work?

- Vaccines **teach** your body how to fight a specific disease by creating a mild infection
- Your body's **immune system** fights that infection by creating antibodies
- Antibodies **protect** you from that illness if you are exposed in the future
- Some vaccines require **multiple doses** or **boosters** for a strong immune response

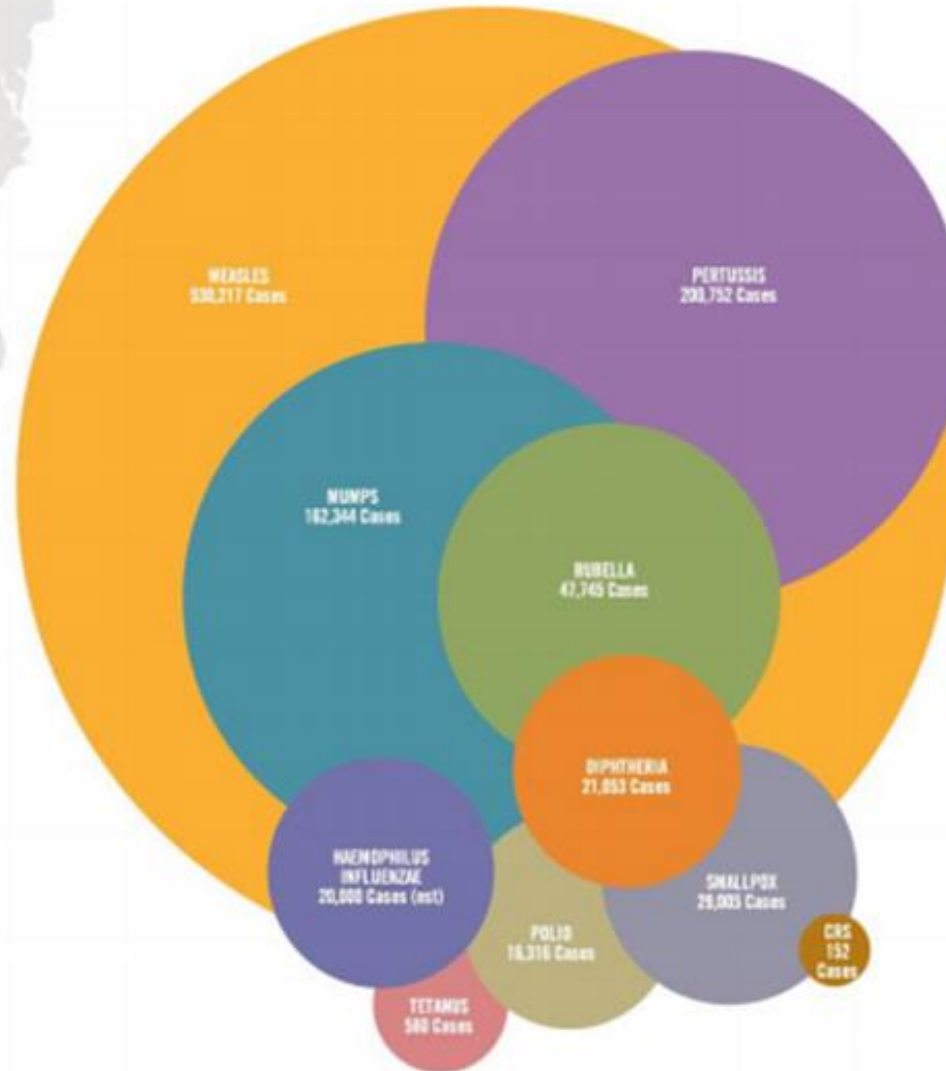


VACCINES WORK

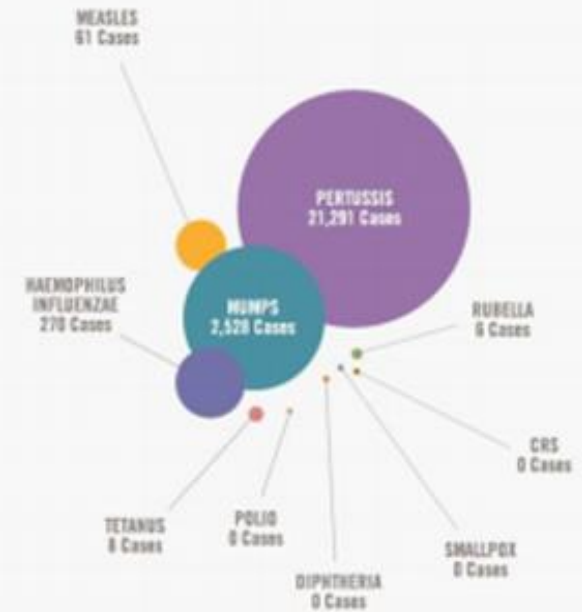
These bubbles are sized according to the annual number of disease cases in the US during the 1900s versus 2010. We've come so far. It's a reminder that while disease rates are low, most diseases haven't disappeared. This is why we continue to vaccinate.

SMALLPOX	MEASLES
THEN 29,005	THEN 530,217
NOW 0	NOW 61
DIPHTHERIA	MUMPS
THEN 21,053	THEN 162,344
NOW 0	NOW 2,528
PERTUSSIS	RUBELLA
THEN 200,752	THEN 47,745
NOW 21,291	NOW 6
TETANUS	CRS
THEN 580	THEN 152
NOW 8	NOW 0
POLIO	HAEMOPHILUS INFLUENZAE
THEN 16,316	THEN 20,000
NOW 0	NOW 270

THEN
Annual US disease cases in the 1900s



NOW
US disease cases in 2010



Source: Centers for Disease Control and Prevention, 2011



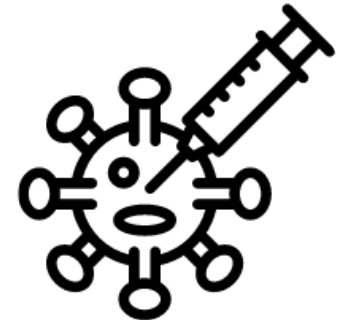
Traditional Vaccines vs. Messenger RNA Vaccines

- **Traditional** vaccines use a modified version of the virus or bacteria that causes illness
- **Messenger ribonucleic acid (mRNA)** vaccines make **harmless protein** that last in the body for less than a day
- Researchers have been studying and working with mRNA vaccines **for decades** including for flu and Zika viruses



More About Messenger RNA Vaccines

- The mRNA **does not enter the cell nucleus nor affect our DNA**
- The mRNA vaccine **doesn't have the live virus** that causes COVID-19
- The mRNA carries instructions that **teach** our cells how to make a harmless piece of “**spike protein**” found on the outside of the COVID-19 virus
- The mRNA **lasts only a day** once copies of the spike protein are made
- Your body's cells display this piece of spike protein on their **surface**
- An **immune response** is triggered inside our bodies to make **antibodies**



Sources: CDC, [cdc.gov/coronavirus/2019-ncov/vaccines/different-vaccines/mrna.html](https://www.cdc.gov/coronavirus/2019-ncov/vaccines/different-vaccines/mrna.html)

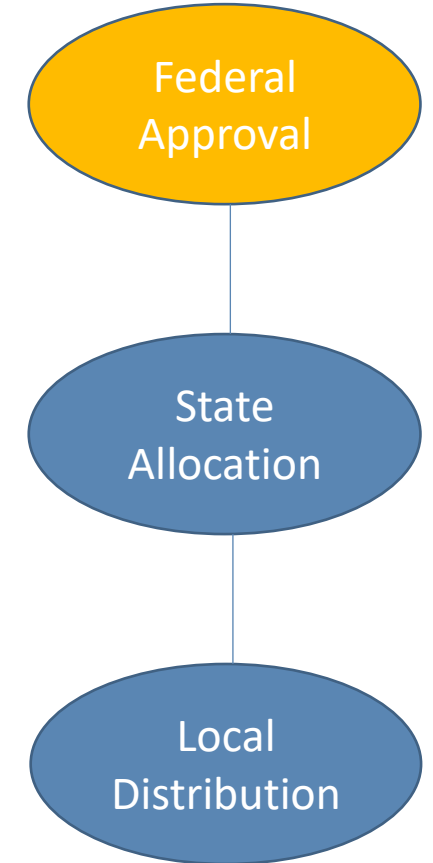
Journal of the American Medical Association (JAMA), jamanetwork.com/journals/jama/fullarticle/2770485

College of Physicians of Philadelphia, historyofvaccines.blog/2020/07/29/what-is-an-mrna-vaccine/



How Did the Vaccines Get Created So Quickly?

- Researchers used **existing clinical trial networks** to jumpstart COVID-19 vaccine trials
- Manufacturing started while the clinical trials were still underway
- mRNA vaccines are **faster to produce** than traditional vaccines
- FDA and CDC **prioritized** review, authorization, and recommendation for COVID-19 vaccines



For more, visit the COVID-19 Prevention Network: <https://www.coronaviruspreventionnetwork.org>



Clinical Trial Findings

- COVID-19 Vaccine has about 95% efficacy
- Expected to produce **some side effects** especially after the 2nd dose:
 - Fever
 - Headache
 - Muscle aches
- At least 8 weeks of safety data were gathered in the trials. It is unusual for side effects to appear more than 8 weeks after vaccination. Clinical trials will continue for 2 years.
- No significant safety concerns identified in the clinical trials
 - **People with a history of anaphylactic shock to vaccines or injectables should not get the vaccine and should consult a doctor**



Sources: CDC www.cdc.gov/vaccines/hcp/acip-recs/vacc-specific/covid-19/clinical-considerations.html
FDA www.fda.gov/media/144414/download



How Will Vaccines Change the Pandemic?

The vaccines could

- Reduce the number of people with COVID-19
- Reduce the severity of disease
- Reduce hospitalizations
- Reduce deaths
- Potentially lead to herd immunity
- Allow earlier return to normal life

A large proportion of Alameda County residents, across all communities, would need COVID-19 vaccination in order to achieve herd immunity and slow transmission.

**Herd immunity threshold
may be as high as 80-90%**

There is still more to learn about

- Impact on transmission and herd immunity
- How long immunity lasts from COVID-19 or from the vaccines

Beyond safety and efficacy, vaccines work best with broad participation

- We're only at the beginning
- Masks, physical distancing, and other measures are still needed!



Acknowledging Racism & Medical Abuse

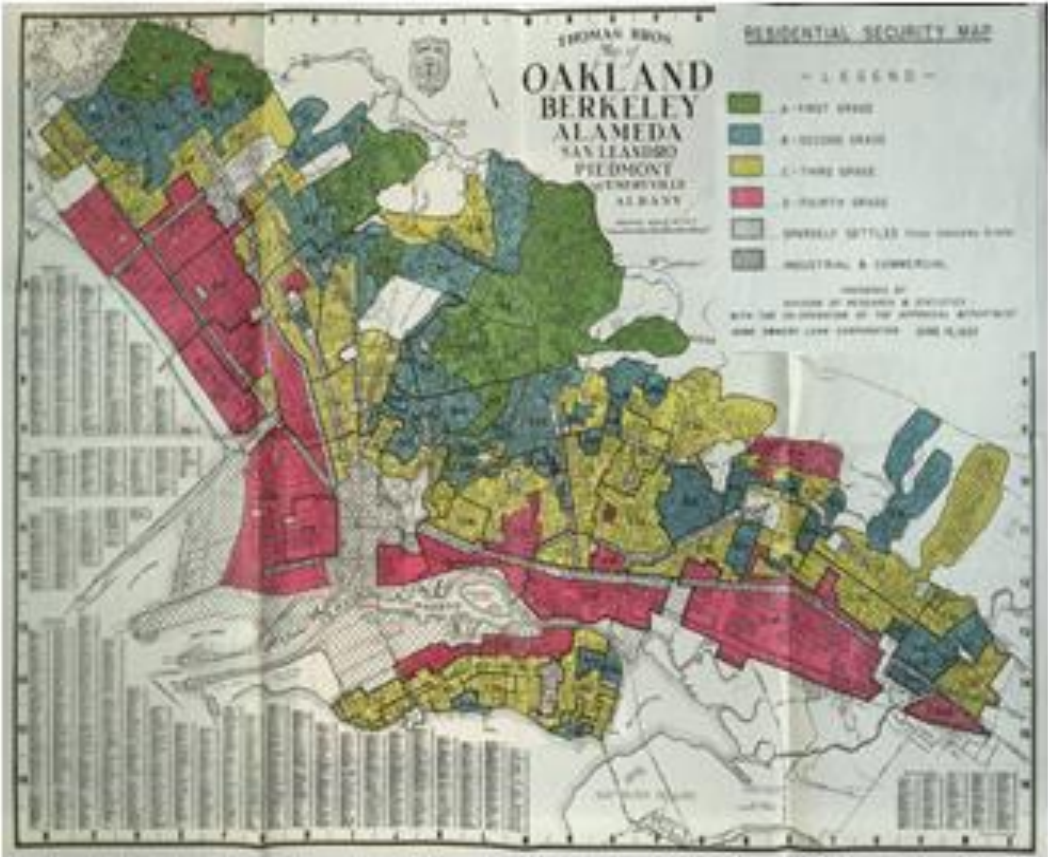
- History of discriminatory, unethical, and abusive **medical practices**
 - Examples: the Tuskegee Study and sterilization without knowledge or consent
- Earned **distrust** of government and healthcare systems
- Discrimination persists in systems meant to protect well-being and health
- **Systemic inequities** in social determinants of health have led to higher risk of getting sick and dying from COVID-19
- General health status, **access** to quality healthcare, education, economic and housing stability, and other factors affect health risks and outcomes

Sources: CDC, cdc.gov/coronavirus/2019-ncov/community/health-equity/race-ethnicity.html (English); espanol.cdc.gov/coronavirus/2019-ncov/community/health-equity/race-ethnicity.html (Spanish); cdc.gov/coronavirus/2019-ncov/community/health-equity/racial-ethnic-disparities/disparities-illness.html.

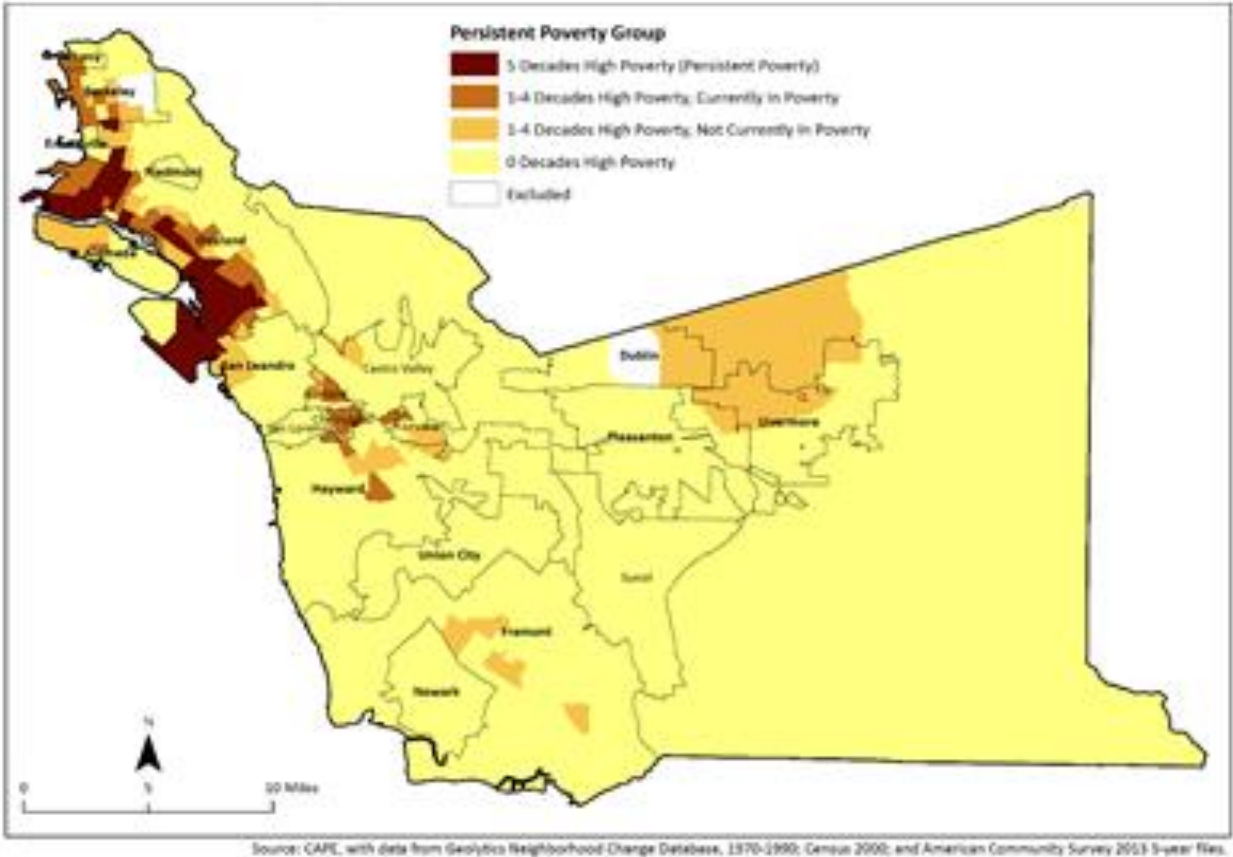


Historical and Present-Day Inequities Matter

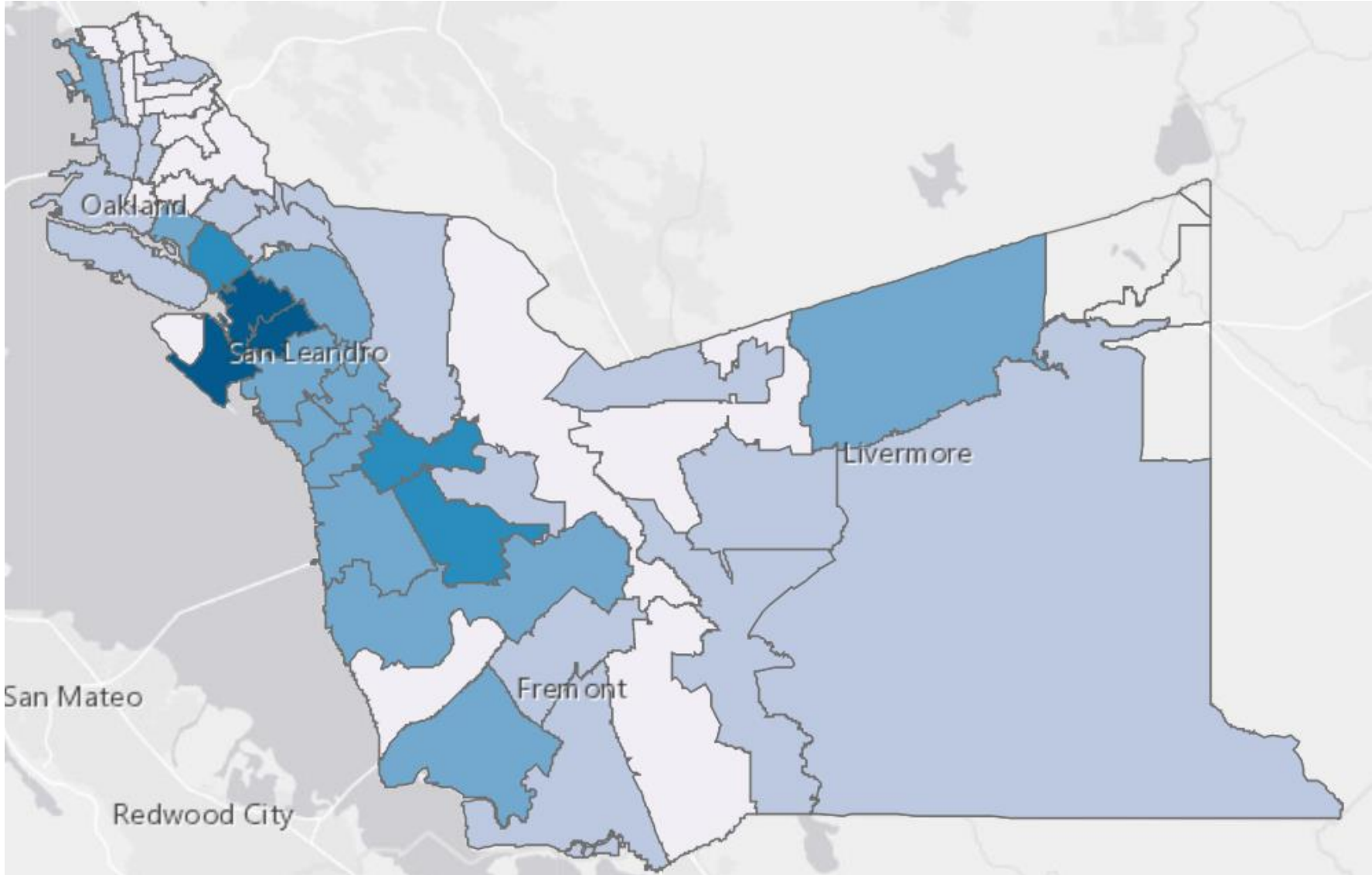
Home Owners Loan Corporation (HOLC) Map, Oakland-Berkeley-Northern Alameda County, 1937



Persistence of Neighborhood Poverty by Census Tract, Alameda County, 1970-2010



Cumulative COVID-19 Case Rates by Zip Code



2. Alameda County's Vaccine Plan



Vaccine Plan Involves Federal, State and Local Decisions

Federal agencies:

- *Which* vaccines are approved for use in United States (FDA)
- *How much* vaccine allocated to each state (CDC)

California Department of Public Health (CDPH):

- *How much* vaccine allocated to each local health jurisdiction/county
- State-specific framework for who gets it *when* (per federal guidelines)
- Which data systems used across to monitor vaccine distribution and uptake

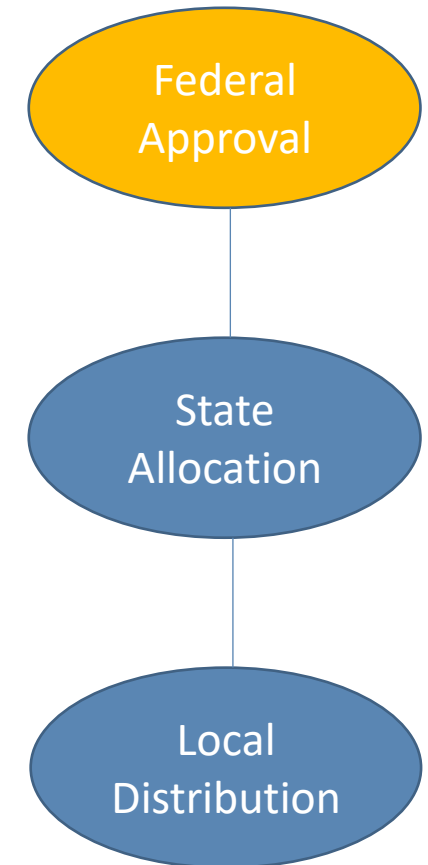
Alameda County Health Care Services Agency:

- Promote *equitable distribution* across local communities
- Ongoing data reporting and monitoring

CDPH in regular communication with local health departments

Weekly calls, webinars, technical assistance

Priorities change week to week and day to day!

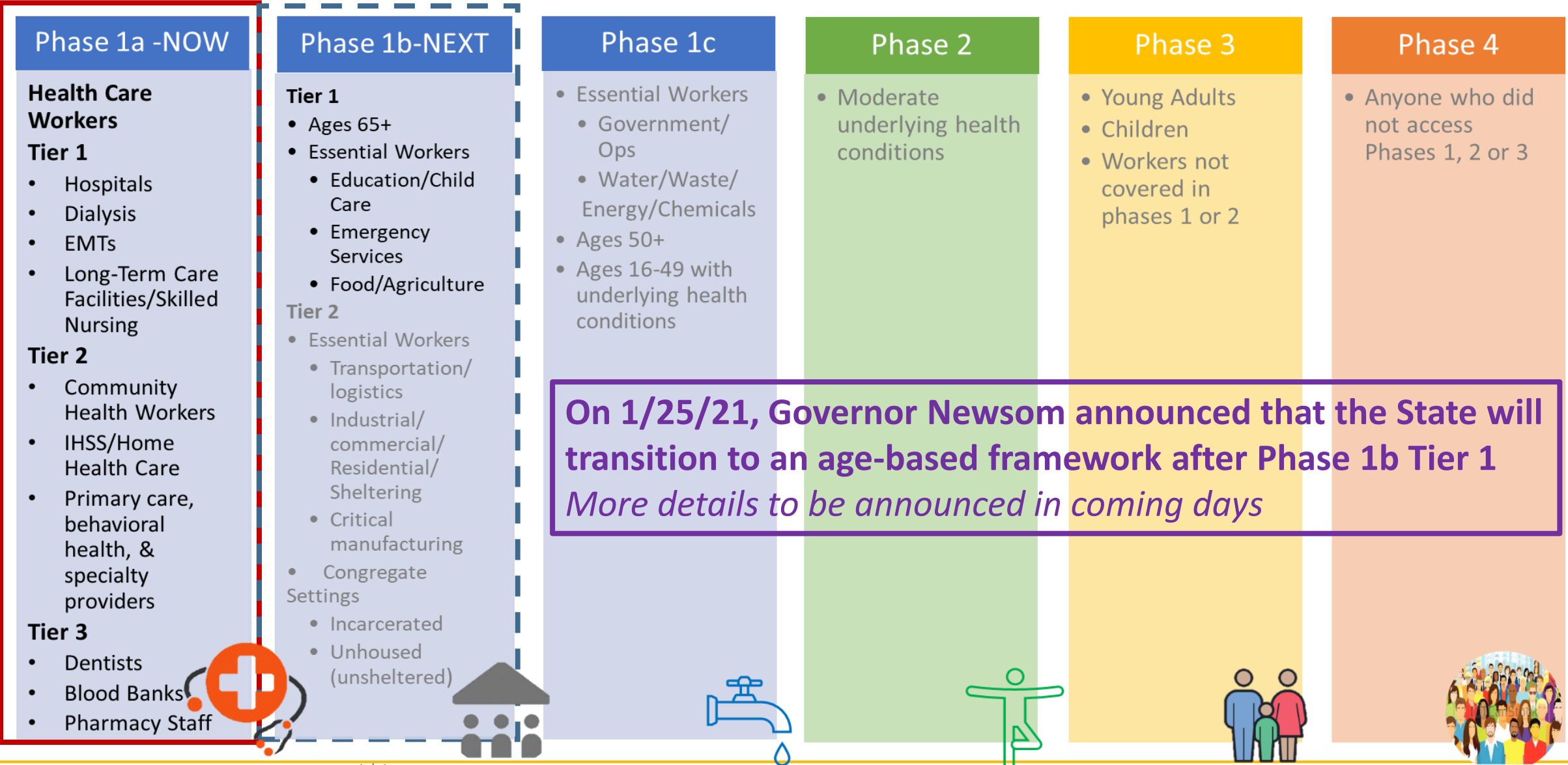


Alameda County Vaccine (COVAX) Values & Principles

- Provide **transparent and accurate** information to help residents **make own vaccine decisions**
- Lead with **equity and data**
- Ensure **safe and equitable** distribution
- Leverage all venues and **partners** for wide distribution



Vaccine Prioritization Framework *as of 1/25/21*



How to Get Vaccinated in Alameda County

Where will people get vaccinated?

- **County Points of Distribution (PODs)**
 - 3 operational now, adding more
 - Planned “Mega” PODs and Mobile PODs
- **Health Care Providers**
(as supply increases)
 - Provider's office
 - Community Clinics
 - Urgent Care
 - Hospitals/Multi-County Entities
(Kaiser, Sutter, Stanford, etc. updates)

How will they know it's their turn?

- Employer
- Medical Insurance
- Medical Care Provider
- Community Groups
- Public Communications/Messaging

VACCINATION GUIDANCE & RESOURCES

General information about COVID-19 vaccine planning and administration

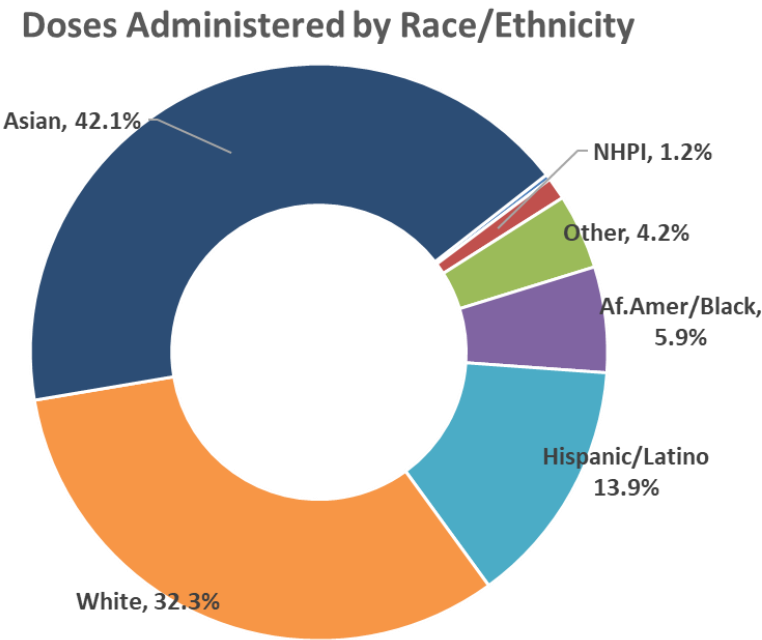
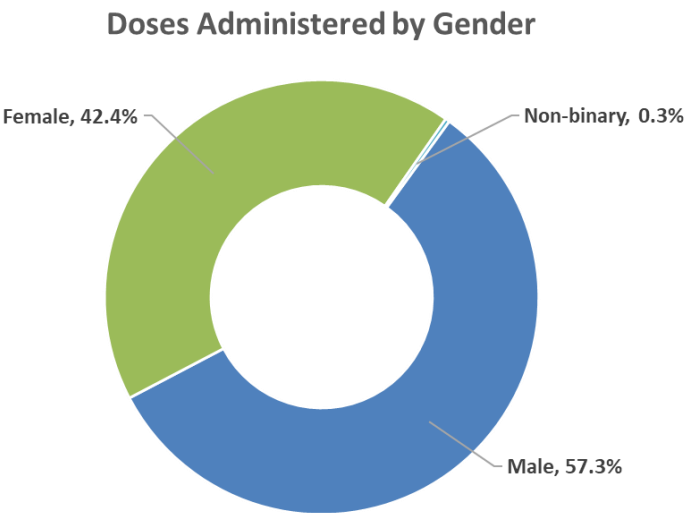
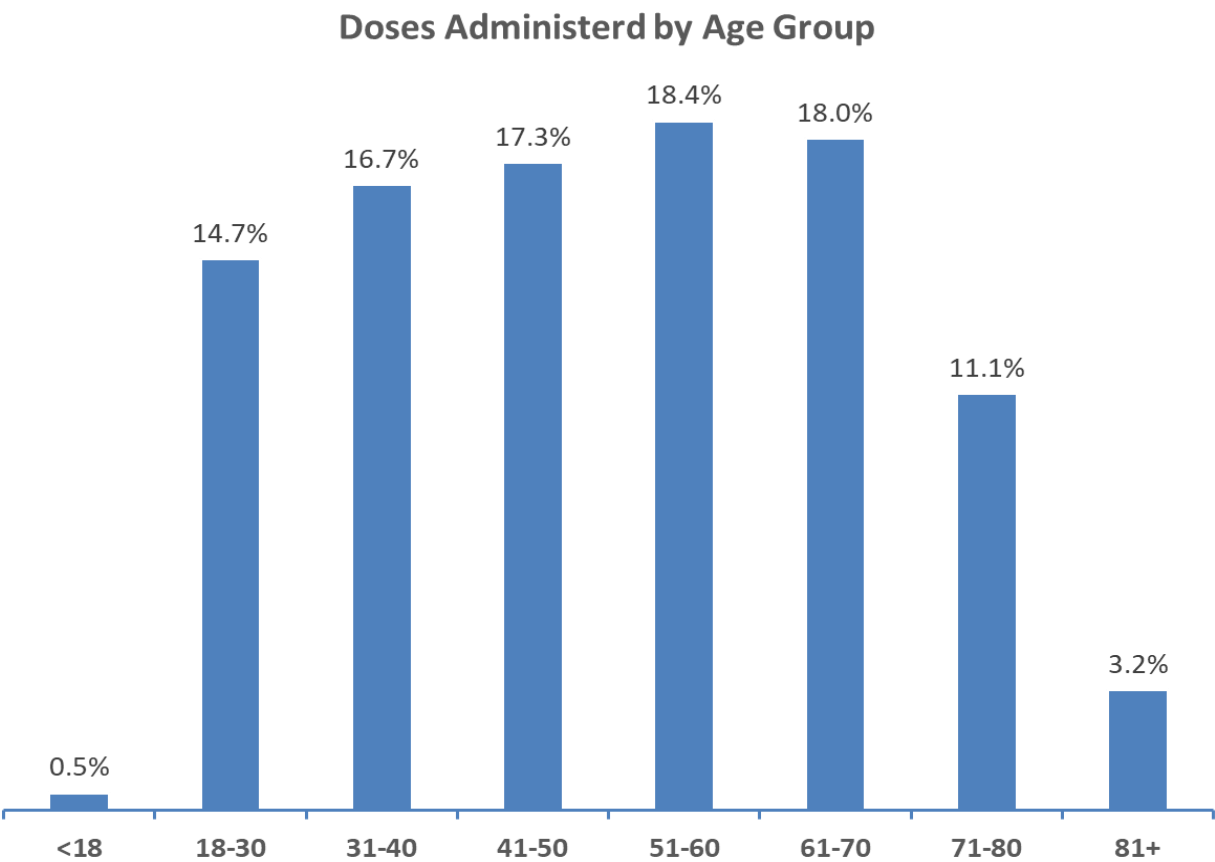


<https://covid-19.acgov.org/vaccines>

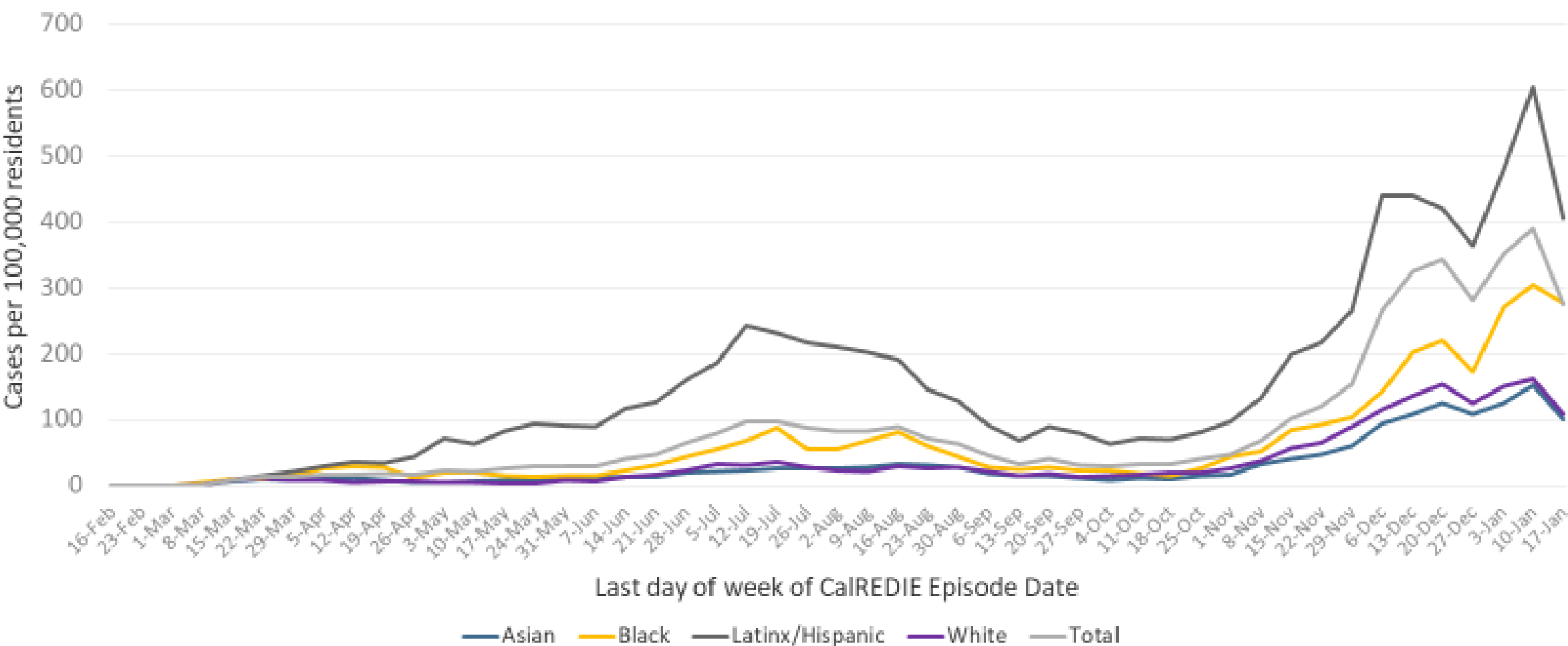


Who Has Been Vaccinated at County PODs?

January 9 – January 22, 2021; n=16,903



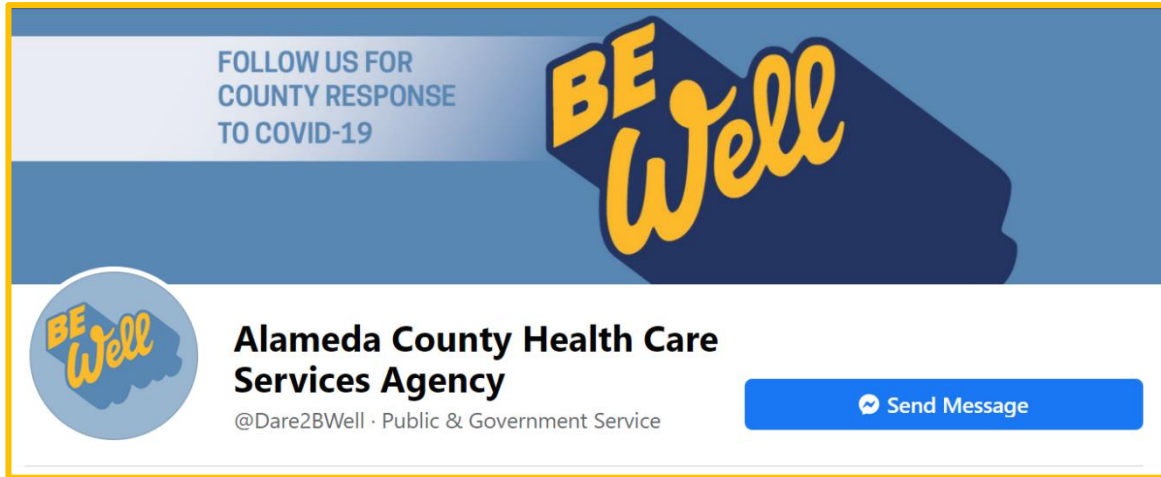
Alameda County COVID-19 weekly case rate



Includes City of Berkeley
Cases source: CalREDIE Data Distribution Portal download January 21, 2021 9:30 am.

3. Staying Informed

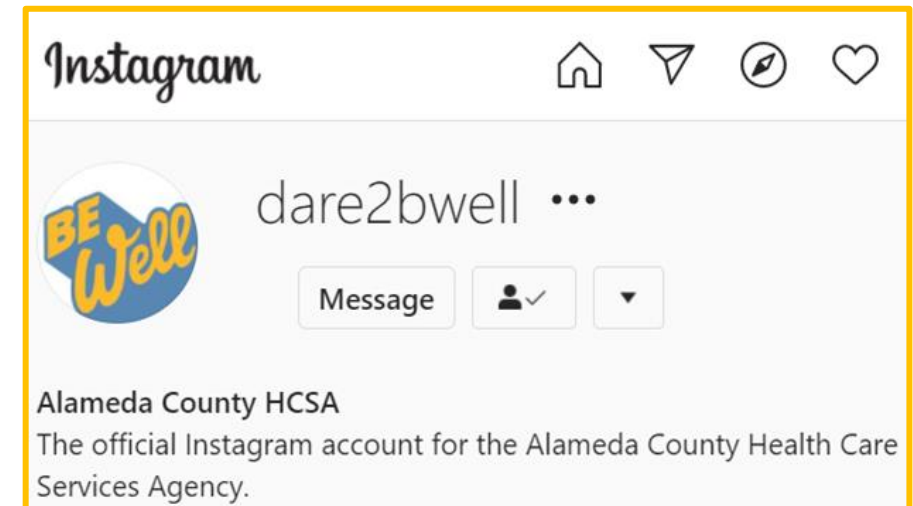
Follow us @Dare2BWell



Social Media: [Facebook](#) · [Instagram](#) · [Twitter](#)

Vaccines Webpage: covid-19.acgov.org/vaccines

Email (Vaccines): covax@acgov.org






LA VACUNA DEL COVID-19 ESTÁ AQUÍ

MANTENTE INFORMADO. SIGUE USANDO MASCARILLA.

- Validada por los principales expertos médicos del país por su seguridad y eficacia
- Proporcionada sin costo
- Plan de distribución por fases basado en el riesgo y el nivel de exposición
- Ampliamente disponible más adelante en 2021




covid19.ca.gov/es/vaccines **Vaccinate ALL 58**

COVID-19 VACCINE AT A GLANCE

- Validated by the nation's top medical experts to be safe and effective
- Health care workers and residents in long-term care will be the first to be vaccinated
- Provided at no cost
- Phased distribution plan based on risk and level of exposure
- Widely available later in 2021

STAY INFORMED. KEEP WEARING YOUR MASK.



covid19.ca.gov/vaccines **Vaccinate ALL 58**

How do we reach you?