

Fresno County Department of Public Health COVID-19 Response

Rais Vohra MD

Interim Health Officer

Fresno County Department of Public Health



Agenda

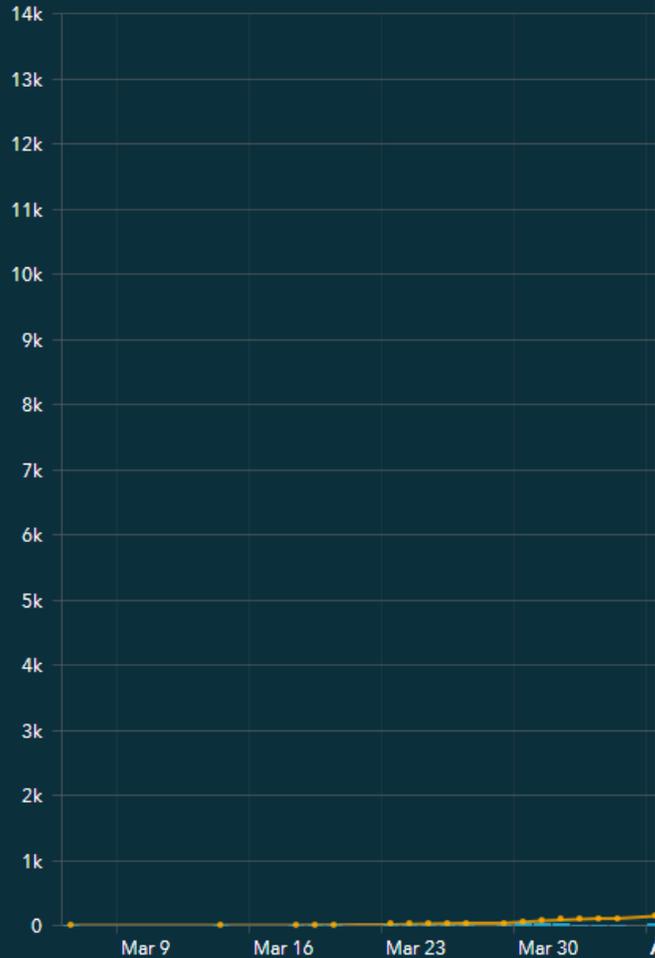
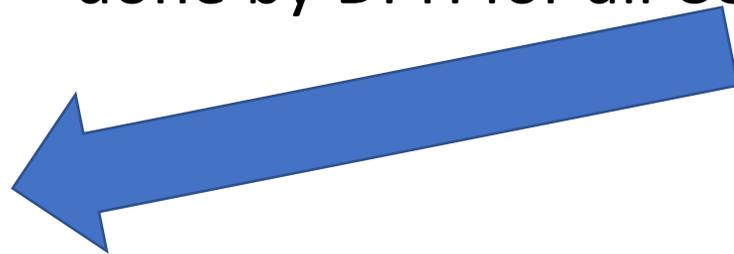
Brief Timeline for COVID-19 in Fresno County

Lessons Learned

Strategic Health Care Response for COVID-19

March

- Emergency declaration by Fresno County
- City of Fresno Shelter in place order
- Statewide Shelter in Place order
- Schools closed and other activities stopped to slow the spread
- Worldwide: COVID-19 diagnosed in multiple countries, cruise ship passengers returning to US
- Testing, quarantine and contact investigations are done by DPH for all COVID-19 cases in Fr. County

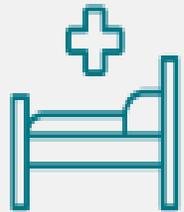


April



- Curve stays “flat” statewide and locally
- Testing capacity not great but expanding
- Symptom screens and temp checks start
- Workplace screening and monitoring starts
- Hospitals/MDs reporting fewer patient visits
- Governor’s Roadmap to Recovery (6 steps)
 - Testing, isolation, contact tracing
 - Protecting vulnerable populations
 - Hospital surge capacity
 - Develop effective treatments
 - Social distancing in workplaces and schools
 - Reinstate stay-at-home orders as needed

Safeguards In Place Before Opening



Ensuring health care system capacity



Protecting vulnerable populations

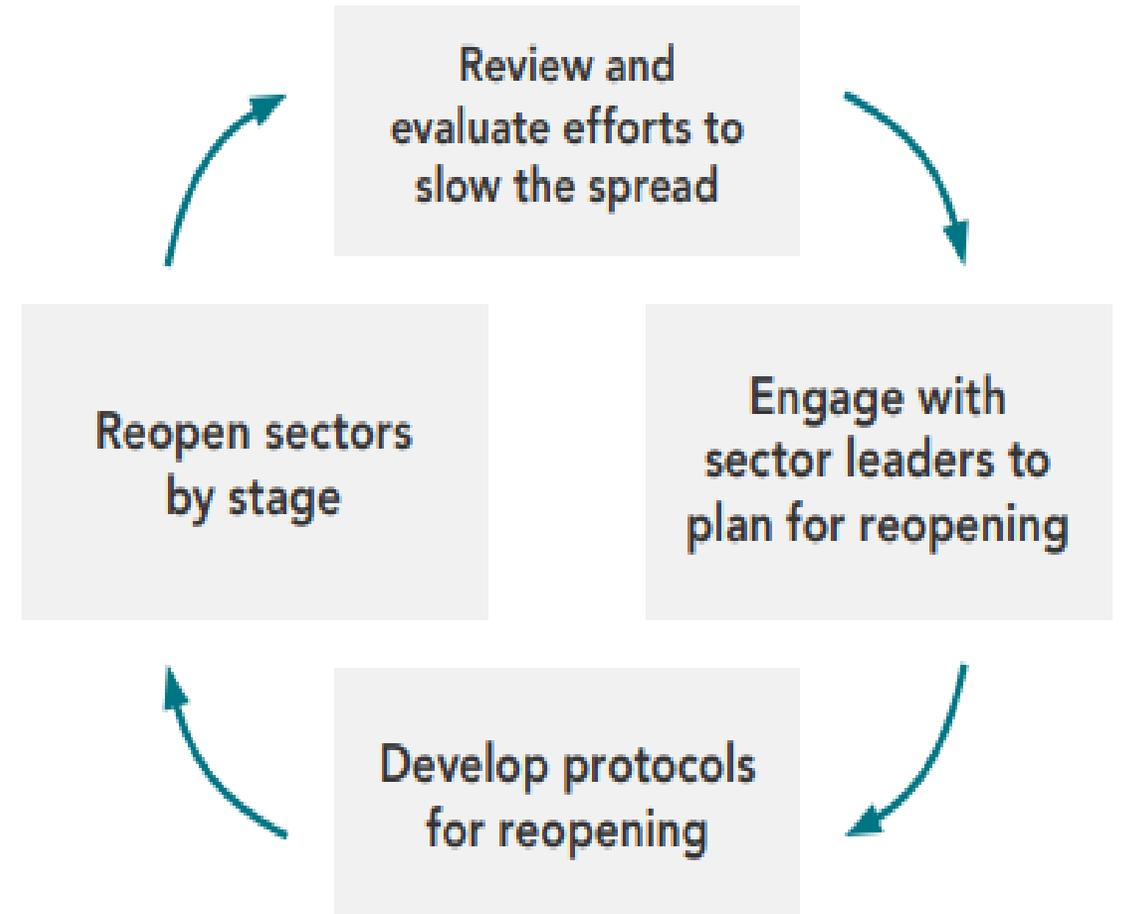


Ensuring public health capacity to test, trace and isolate



Developing protocols to keep workers and residents safe

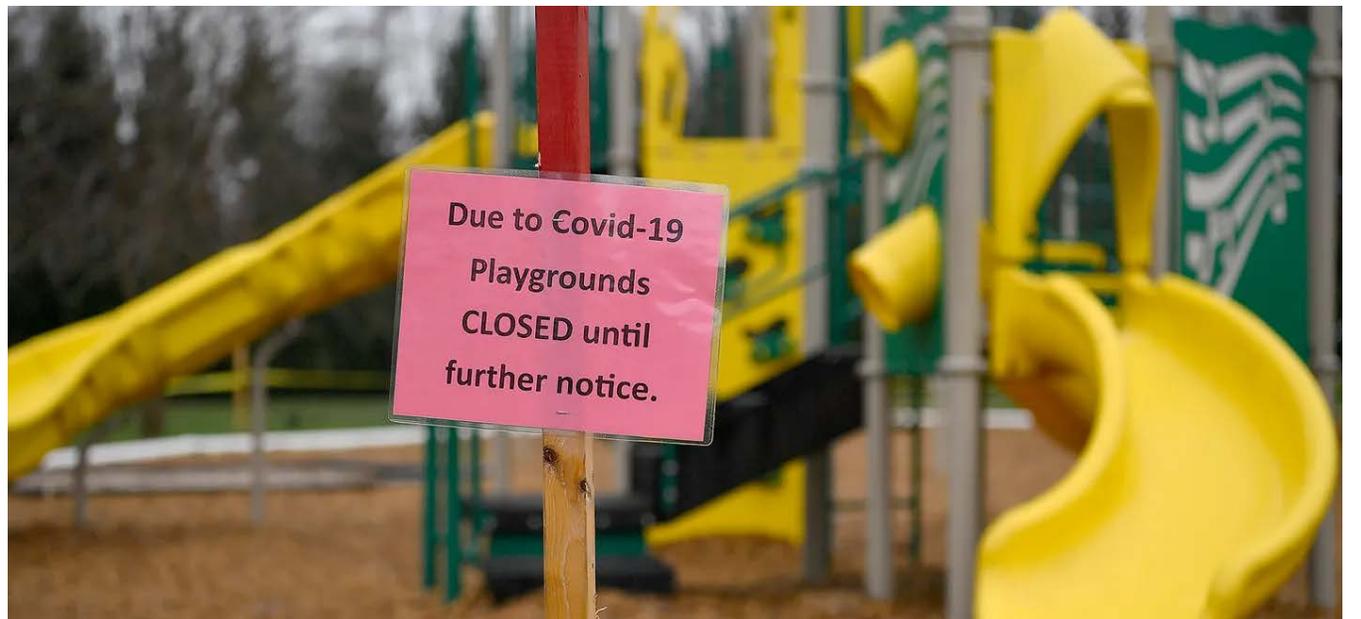
Process for Staged Reopening



May



- Case counts (and fatalities) keep rising
- DPH testing set up at 2 sites (FCC/ Sanger)
- “Quarantine fatigue”
- Business community anxious to reopen
- Variance Attestation is submitted to allow reopening with a plans for mitigation and containment



June: Activities (and Cases) Rise More Rapidly



July: The Bend Becomes a Surge Becomes a Disaster

Total Cases

 **12,148**
of 112,528 Total Tests

Active Cases

 **8,722**
of 12,148 Total Cases

Recovered

 **3,314**
of 12,148 Cases

Deceased

 **112**
of 12,148 Cases

14k
13k
12k
11k
10k
9k
8k
7k
6k
5k
4k
3k
2k
1k
0

All cities and zip codes in Fresno County are now affected by COVID

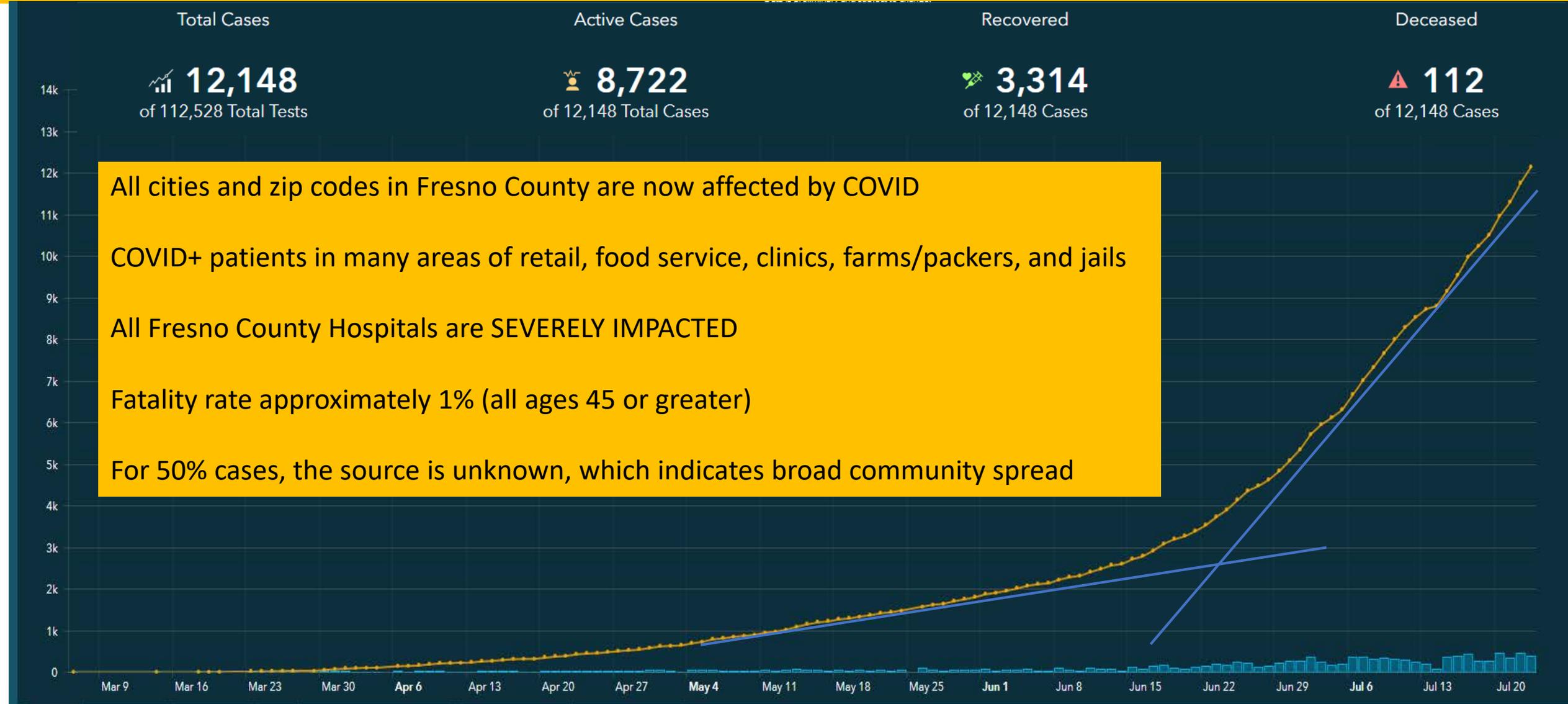
COVID+ patients in many areas of retail, food service, clinics, farms/packers, and jails

All Fresno County Hospitals are SEVERELY IMPACTED

Fatality rate approximately 1% (all ages 45 or greater)

For 50% cases, the source is unknown, which indicates broad community spread

Mar 9 Mar 16 Mar 23 Mar 30 Apr 6 Apr 13 Apr 20 Apr 27 May 4 May 11 May 18 May 25 Jun 1 Jun 8 Jun 15 Jun 22 Jun 29 Jul 6 Jul 13 Jul 20



Hospital Capacity is Maxed Out, Staffing is Low, and Tents Are Being Used For Emergency Care Services



History Repeating Itself?

LEFT: Oakland Influenza Field Hospital, 1918

BELOW: FRESNO COUNTY ALTERNATE CARE SITE
@ Fresno Convention Center Exhibit Hall, 2020





ALTERNATIVE CARE SITE Fresno Convention Center

WHAT IT CONTAINS:

Hard metal cots

Folding Chairs

Toiletries bag (1 per bed)

Paper linens

First Aid Kits

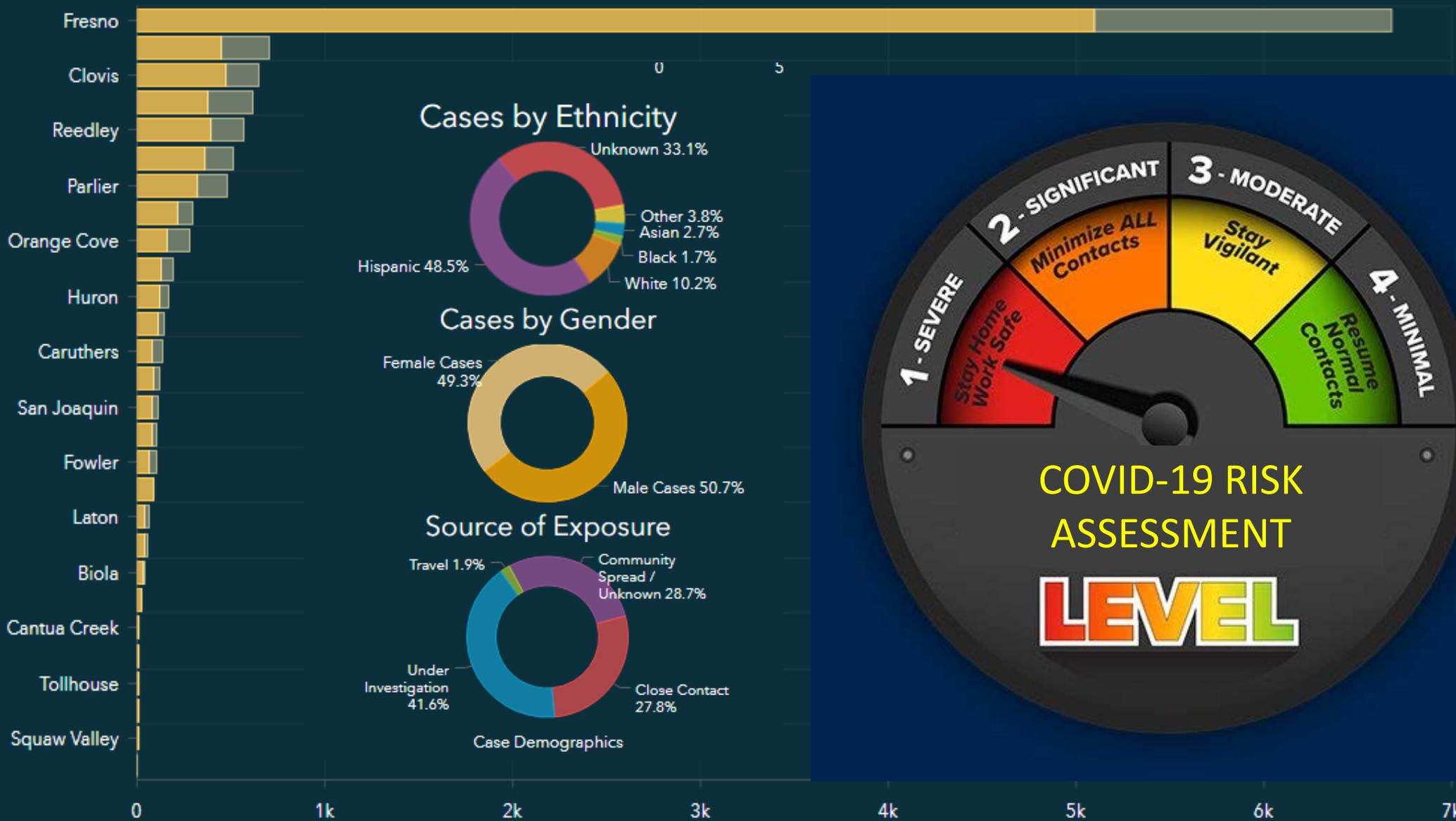
Flashlights

Toddler Beds/ Pack'n' Plays

WHAT IT LACKS:

STAFFING, privacy, lab, xray

COMMUNICATING DATA TRENDS TO THE PUBLIC: THE STRUGGLE IS REAL



* Summarized communities under 5 cases

What Have We Learned Through Our Response?

Multiple factors have led to a COVID-related crisis for Fresno County

Reopening safely will require a coordination of health policy, prevention education, and public participation in safe behaviors

Young people in crowds spread C-19 most

Rare but serious complications are being seen in the young/healthy demographic

Chronic illnesses are higher risk conditions

Crowded or congregate settings (nursing homes, shelters, jails) and essential worksites are all experiencing outbreaks where virus spreads quickly and silently

Social outings, backyard parties and group social activities all contribute to the spread

Outdoor activity is less risky than indoors

We can respond successfully in two ways:

1. SLOW THE SPREAD

2. BUILD MORE MEDICAL CAPACITY

3. What about the value of effective medications, herd immunity, or a vaccine?

- *It will take at least another 6-12 months for proven pharmaceuticals to become routine in COVID care*
- *Drugs will not reverse every complication in the very ill*
- *Supplies are-- and will be -- limited for anything worthwhile*
- *Herd immunity doesn't work for all viruses (HIV, Hep C, etc)*

Successful navigation of this crisis is still possible!

Communication and teamwork will be essential.

Time is scarce, denial is deadly, and failure is not an option

SLOW THE SPREAD & ADD MEDICAL CAPACITY

The virus needs breathing humans to replicate!

We can outsmart the virus based on this fact by:

- staying home whenever possible
- using social distancing outside our households
- wearing masks to prevent viral spread to others
- cleaning surfaces and hands that harbor droplets
- doing as much social activity outdoors as possible
- promoting prevention and safety education for all

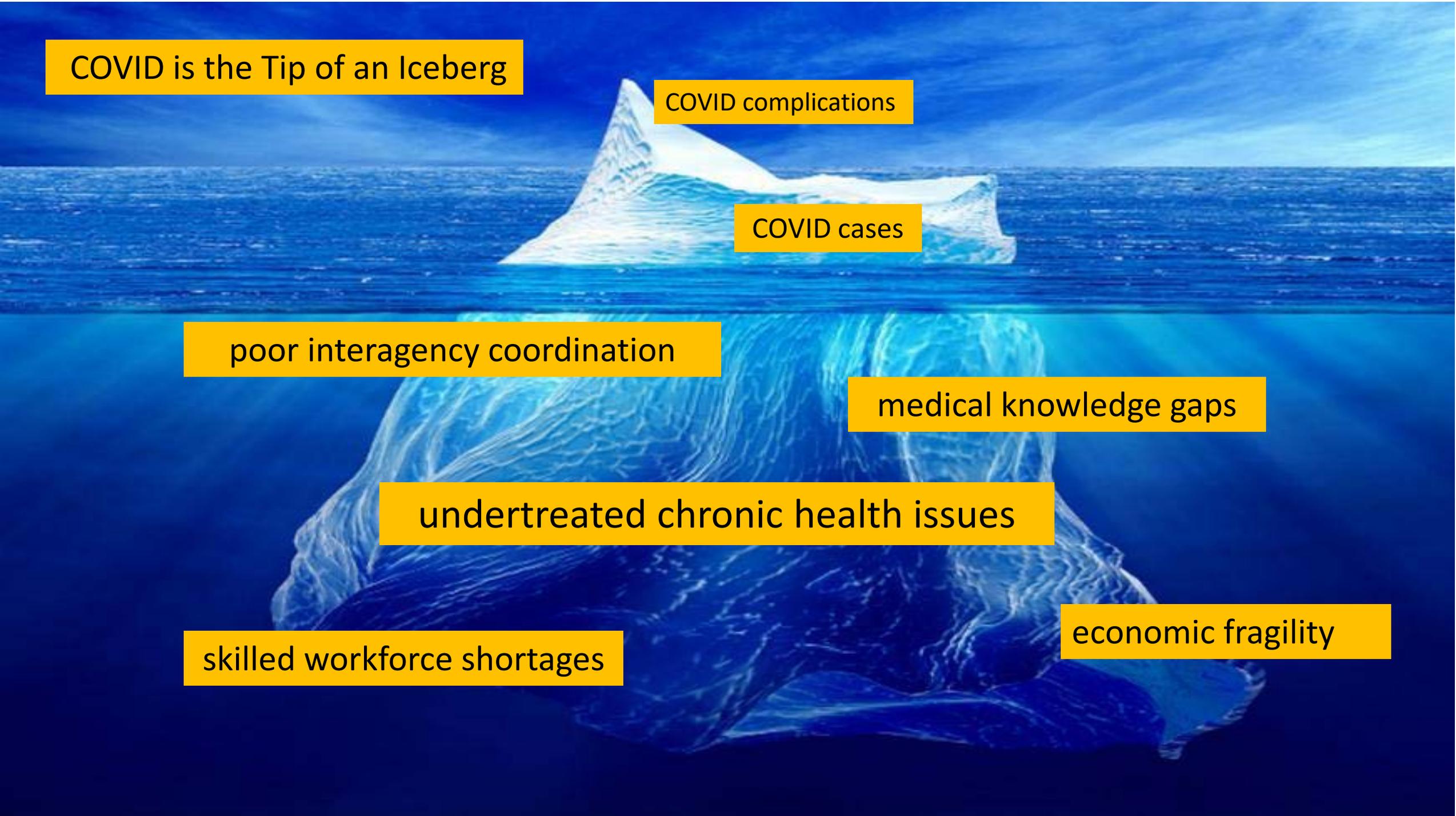
We can add health care capacity in these ways:

- expanding the number of hospital beds and staffing
- creating alternative care sites for recovering patients
- develop, test, and distribute effective medications
- test people with symptoms and deliver fast results
- train people to track close contacts of COVID patients
- ensure that infected people can stay away from others
- creating support services to quarantine successfully

Together, this set of strategies can help us lower case counts and deaths.

While none of these is 100% effective, they all work together to help flatten the curve of cases

Our best evidence suggests that, in this epidemic, changes are MOST effective if they are community-wide.

An iceberg floating in the ocean. The tip of the iceberg is above the water, and the much larger submerged part is below. Labels in yellow boxes point to various parts of the iceberg.

COVID is the Tip of an Iceberg

COVID complications

COVID cases

poor interagency coordination

medical knowledge gaps

undertreated chronic health issues

skilled workforce shortages

economic fragility

Where Do We Go Next? Our Strategic Plan

Fresno County's public health response needs these elements:

Prevention Education that reaches ALL County Residents

Testing frequently and widely with rapid results

Tracing to identify/quarantine those who are high risk

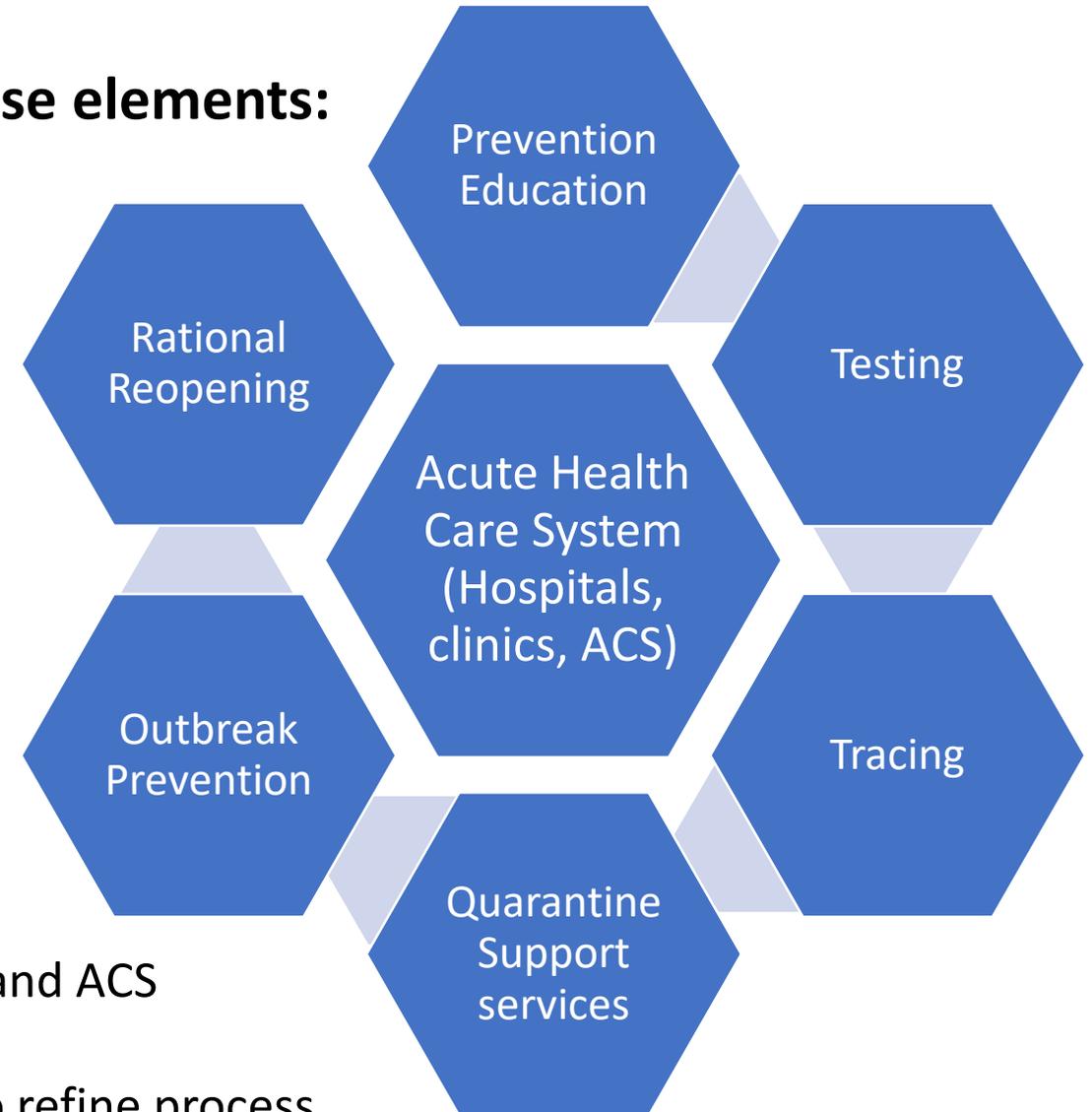
Quarantine Support Services to ensure success with above

Outbreak Investigation and Prevention in crowded areas

Rational and safe reopening of schools, businesses, etc

Coordinated Acute Health Response: Hospitals, clinics, EMS and ACS

Continuous reassessment and feedback from stakeholders to refine process





thank you

Sort by
Positive Cases

Positive Cases by County

| | |
|-----------------|---------------|
| Los Angeles | 174,322 |
| Riverside | 35,636 |
| Orange | 34,352 |
| San Bernardino | 29,545 |
| San Diego | 26,986 |
| Kern | 17,394 |
| Fresno | 13,209 |
| San Joaquin | 10,637 |
| Alameda | 10,489 |
| Santa Clara | 8,986 |
| Sacramento | 8,972 |
| Tulare | 8,392 |
| Stanislaus | 8,228 |
| Imperial | 7,781 |
| Contra Costa | 7,095 |
| Ventura | 6,844 |
| Santa Barbara | 5,939 |
| San Francisco | 5,823 |
| San Mateo | 5,078 |
| Marin | 4,595 |
| Monterey | 3,901 |
| Kings | 3,591 |
| Merced | 3,251 |
| Solano | 3,197 |
| Sonoma | 2,503 |
| Madera | 1,744 |
| Placer | 1,628 |
| San Luis Obispo | 1,565 |
| Yolo | 1,408 |
| Santa Cruz | 970 |
| Butte | 822 |
| Napa | 769 |

Fresno CASE STATISTICS

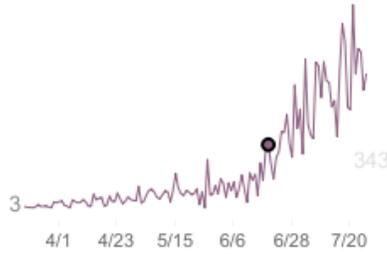
Positive Cases

13,209

1 Day Δ +343 +2.7%
14 Day Δ +4,802 +57.1%

US Total Cases: 4,163,892

Day-Over-Day New Cases



Note: Numbers may not represent true day-over-day change as reporting of test results can be delayed.

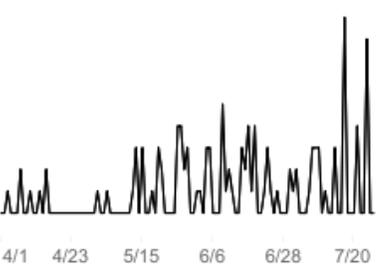
Deaths

112

1 Day Δ +0 +0.0%
14 Day Δ +24 +27.3%

US Total Deaths: 145,982

Day-Over-Day New Deaths



CASE DEMOGRAPHICS

= California Population %

Gender

Female 50%
Male 49%
Unknown 1%

Age

0-17 9%
18-49 60%
50-64 19%
65+ 11%
Missing 0%

Race/Ethnicity

AIAN 0%
Asian 6%
Black 4%
Latino 56%
White 18%
Other 15%
Multi-Race 1%
NHPI 1%

Gender

Female 43%
Male 57%
Unknown 0%

Age

0-17 0%
18-49 7%
50-64 17%
65+ 76%
Missing 0%

Race/Ethnicity

AIAN 0%
Asian 13%
Black 9%
Latino 46%
White 30%
Other 1%
Multi-Race 1%
NHPI 1%

Note: Demographic percentages may not add up to 100% due to rounding. Breakdown of deaths is a subset of total deaths as reported by law enforcement.

CALIFORNIA TESTING RESULTS

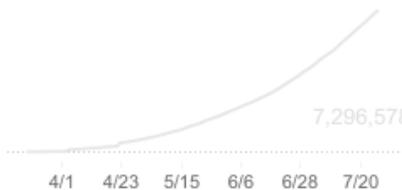
Tests Reported (by 25 public labs)

7,296,578

1 Day Δ +128,439 +1.8%
14 Day Δ +1,752,213 +31.6%

Positivity:
7 Day: 7.8%
14 Day: 7.5%

Cumulative Total Tests Reported



Select KPI
Positive Patients

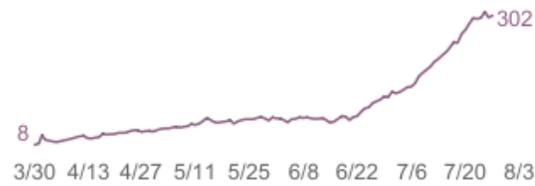
Note: HHS Significantly changed reporting requirements resulting in historical data from non-reporting facilities not being part of today's update. This data will be added back in as soon as it is available.

Positive Patients by County

| | |
|----------------|------------|
| Los Angeles | 2,051 |
| Orange | 661 |
| San Bernardino | 609 |
| Riverside | 488 |
| San Diego | 369 |
| Fresno | 302 |
| Kern | 260 |
| Sacramento | 246 |
| San Joaquin | 227 |
| Stanislaus | 209 |
| Alameda | 188 |
| Santa Clara | 171 |
| Contra Costa | 103 |
| Tulare | 102 |
| San Francisco | 99 |
| Kings | 85 |
| Ventura | 85 |
| Santa Barbara | 80 |
| Imperial | 75 |
| San Mateo | 70 |
| Merced | 61 |
| Placer | 57 |
| Madera | 52 |
| Solano | 48 |
| Sonoma | 46 |
| Monterey | 39 |
| Yuba | 25 |
| Butte | 22 |
| Marin | 21 |

Positive Patients

302 1 Day Δ +4 +1.3% 14 Day Rolling Avg. 268



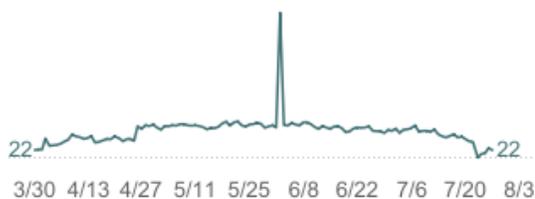
ICU Positive Patients

52 1 Day Δ -13 -20.0% 14 Day Rolling Avg. 54



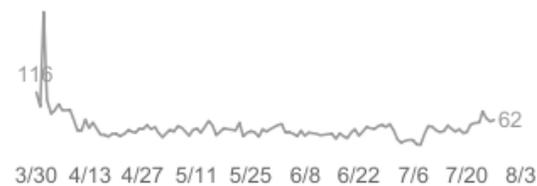
ICU Available Beds

22 1 Day Δ -5 -18.5%



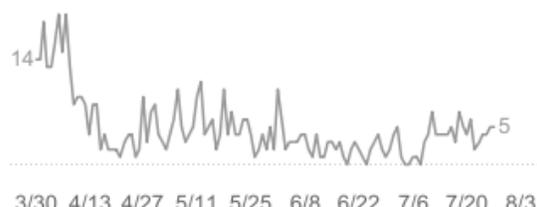
Suspected Patients

62 1 Day Δ +3 +5.1% 14 Day Rolling Avg. 52

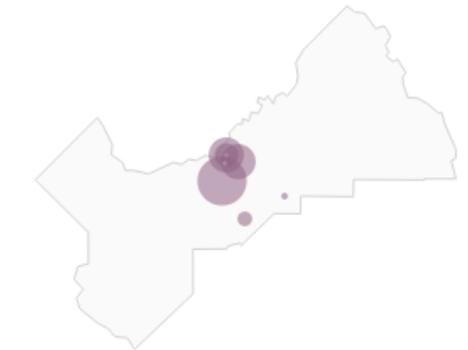


ICU Suspected Patients

5 1 Day Δ +0 +0.0% 14 Day Rolling Avg. 4



Positive Patients by Facility/County



© Mapbox © OSM

Daily Survey Response Rates

89% of facilities (8 of 9) **96%** of licensed beds (1,688 of 1,750)

There are 416 licensed facilities (1 in suspense); one or more facilities can operate under the same license.

Note: Due to a recent change by HHS, NICU bed counts are no longer provided.