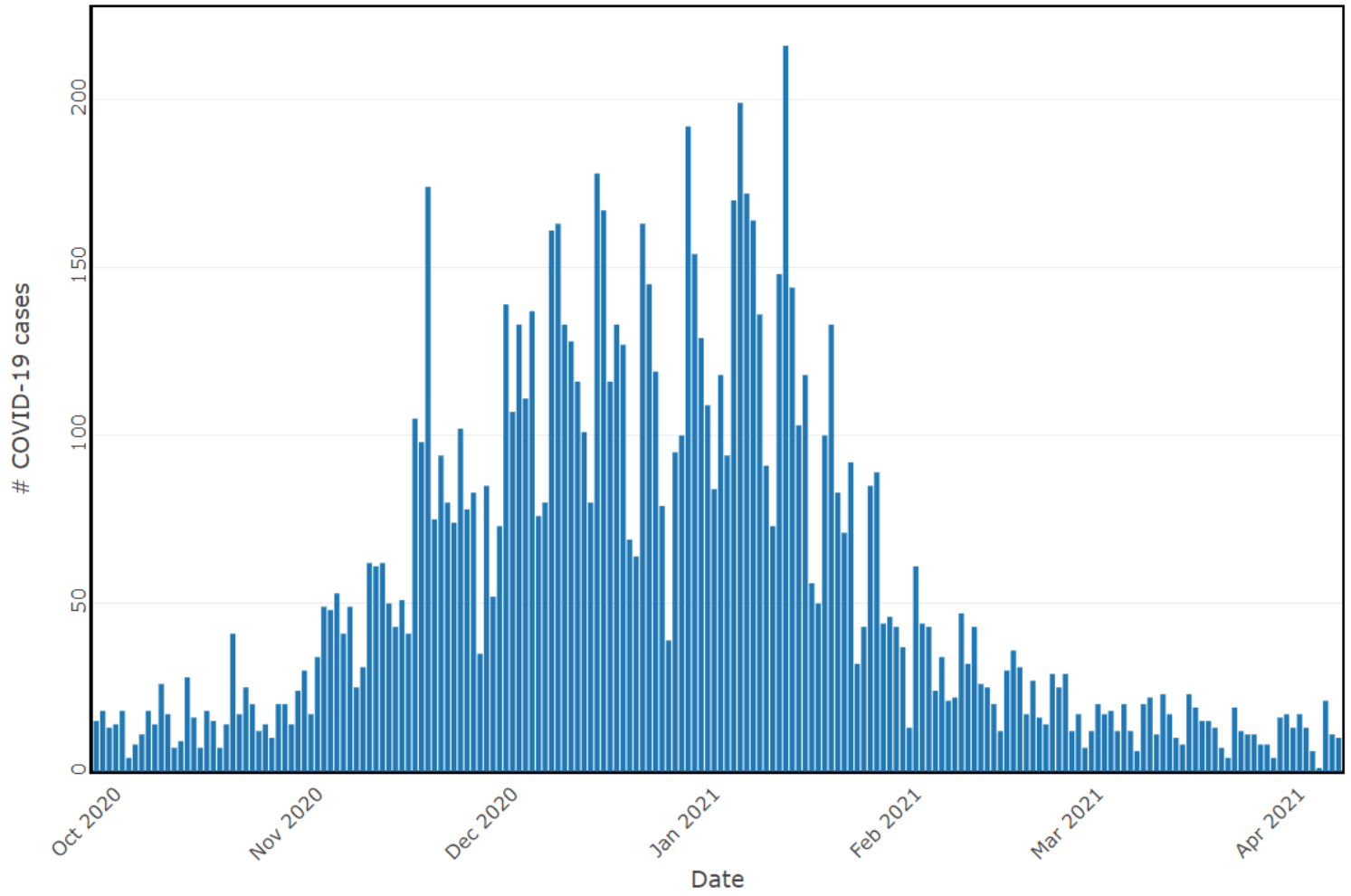
Overview

- Case trends
- Variants
- Swiss cheese model
- Testing

Daily COVID-19 cases have stopped declining.



Date	Adjusted Case Rate (per 100k)
4/20	2.4
4/13	2.4
4/6	2.3
3/30	2.8

Yolo County remains in Orange tier until at least 5/5.

4/20 Yolo County Metrics (Based on data for 4/4-4/10)

Adjusted case rate for tier assignment:

2.4 (2.4 last week)

Unadjusted case rate:

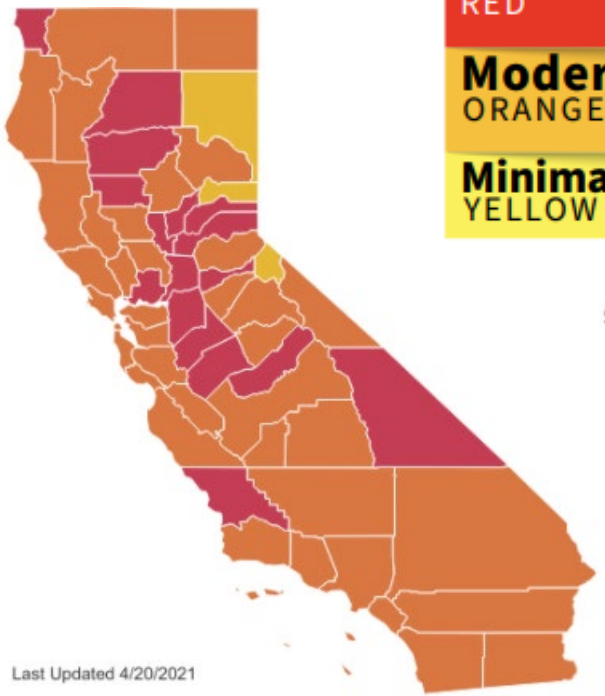
4.9 (4.9 last week)

Positivity Rate:
Entire County

0.6% (0.5% last week)

Health Equity Quartile

2.0% (2.5% last week)



Tier Level	New Cases per 100,000*	Positive Tests
Widespread PURPLE	More than 10	More than 8% testing positivity rate
Substantial RED	6 to 10	5 - 8%
Moderate ORANGE	2 to 5.9	2 - 4.9%
Minimal YELLOW	Less than 2	Less than 2%

More infectious variants are spreading.

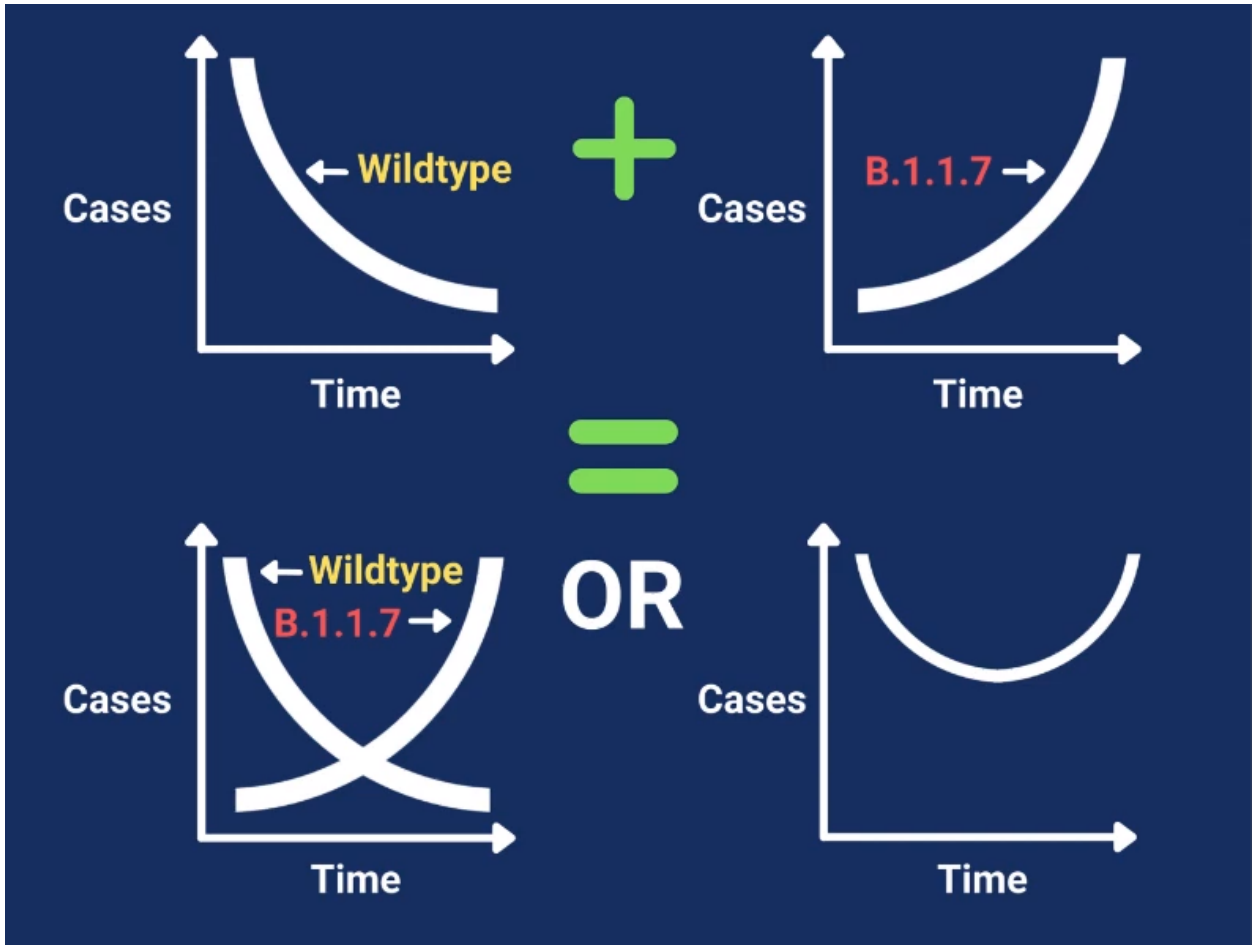
- UC Davis's Genome Center genotypes every positive specimen collected through Healthy Davis Together and UC Davis campus
- Cases of B.1.1.7 (UK) variant are increasing
- B.1.1.7 is 50% more transmissible, and more likely to cause severe disease/death
- B.1.1.7 responsible for current surge in Michigan, also Europe
- P.1 (Brazil) and B.1.351 (South Africa) also detected in Yolo County

Week	Cases of B.1.1.7	Total Positives	% B.1.1.7
2/21	1	26	4%
2/28	2	28	7%
3/7	2	16	13%
3/14	2	28	7%
3/21	3	20	15%
3/28	14	31	45%
4/3*	15	29	52%
4/10*	15	48	31%

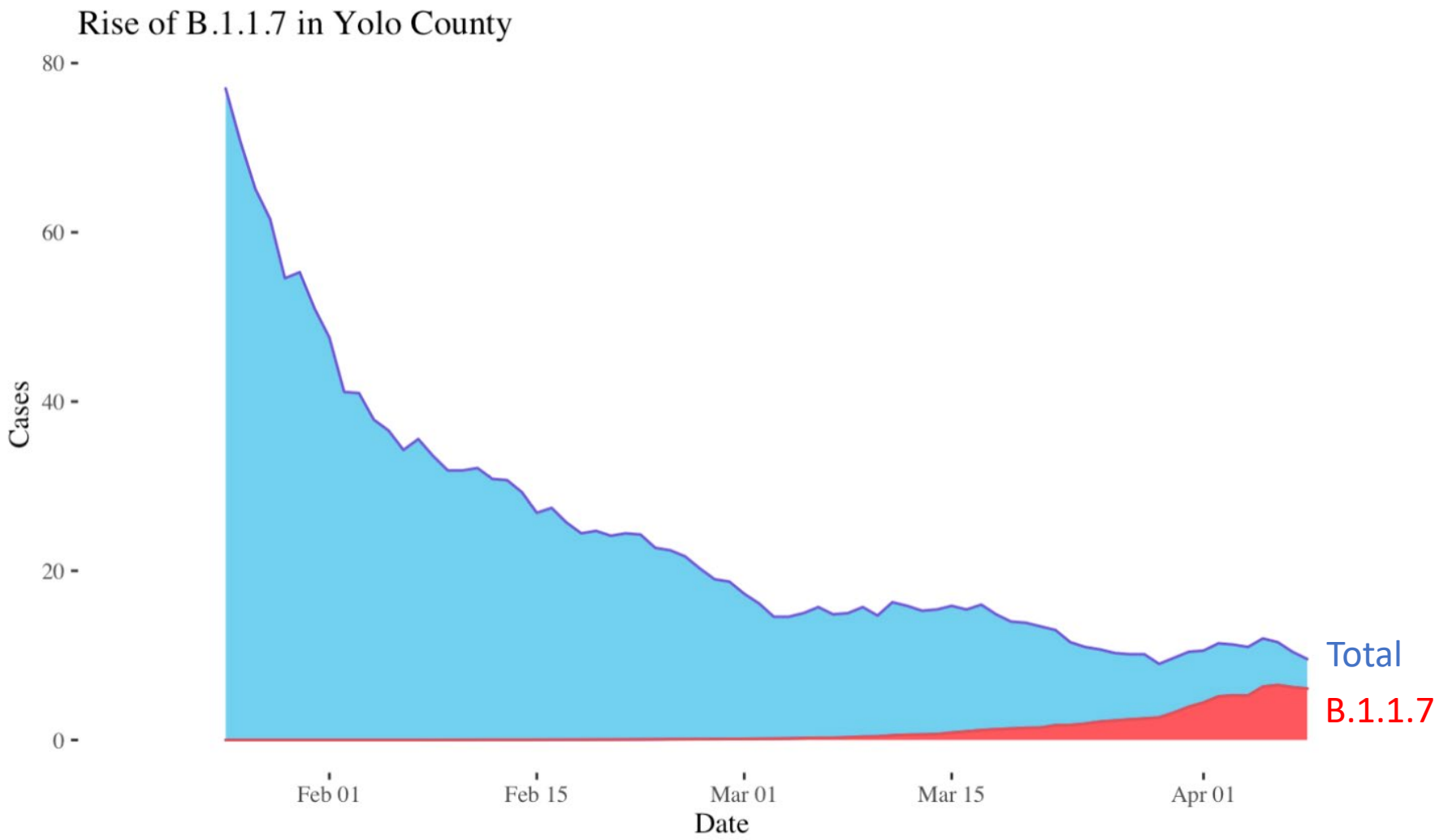
* Testing ongoing; numbers subject to change

Steady case numbers hide separate epidemics.

- Cases of wildtype/“usual” virus decreasing (yellow)
- Cases of B.1.1.7 increasing (red)
- Right now, curves cancel each other out, creating flat line
- But soon, exponential growth of B.1.1.7 may cause surge in cases



Flat total cases obscure rising B.1.1.7 cases.

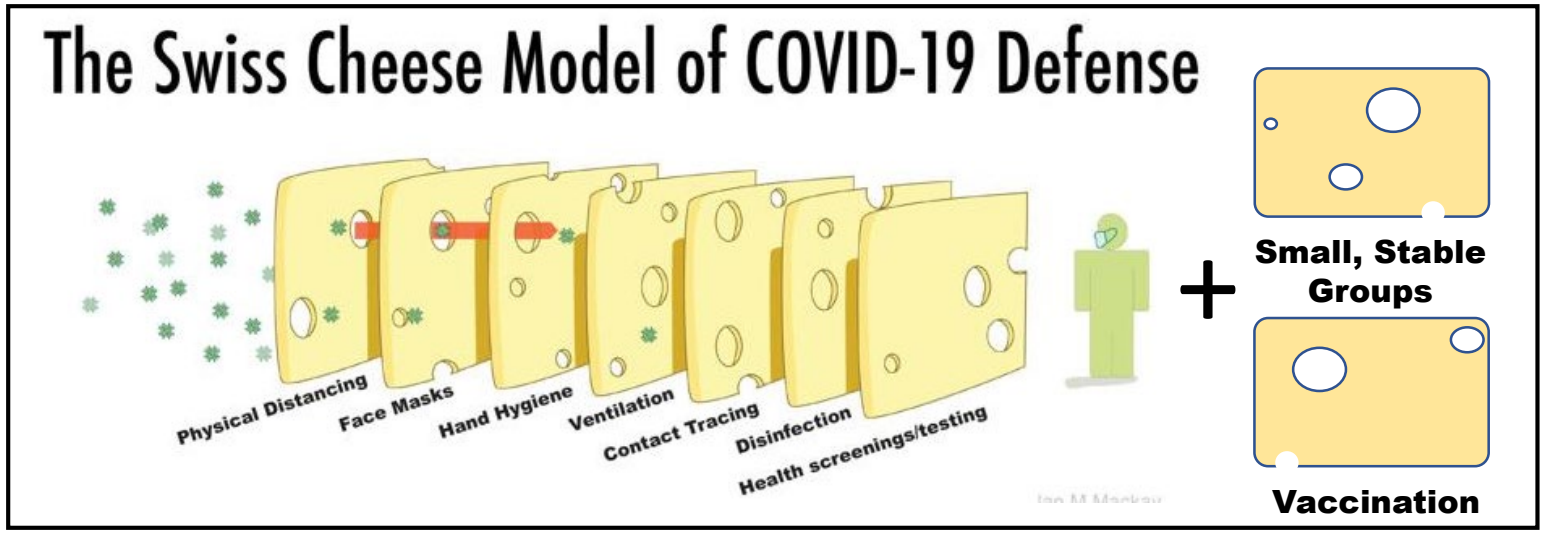


We are at a critical moment.

- More infectious variants are rising
- Less than half of population has received any vaccine
- Changes to Blueprint framework are allowing more indoor activities to resume, along with larger gatherings
- We cannot let up on protective measures
  - Masking, distancing, testing, vaccination, opting outdoors
- AND students and staff can safely stay in classrooms with protective measures
  - This may change if case rates increase

Schools can safely remain open.

- Keeping schools safely open in-person is a priority
- Schools rely on layers of preventive strategies to protect students and staff:
  - Masking
  - Small, stable groups
  - Symptom screening
  - Ventilation
  - Testing
  - Vaccination
  - Contact tracing



- Cases among students and staff have occurred, but limited school-based transmission and no outbreaks to date

Testing is an important strategy as variants spread.

- Large body of evidence that schools can reopen safely without asymptomatic (screening) testing…with wildtype virus
- Situation different with more infectious variant (B.1.1.7) predominating
- Testing is an added layer of protection
- HDT's on-site, saliva-based PCR makes screening testing easy
- Strongly encourage all unvaccinated persons to participate in testing