



# COVID-19 Update

*May 15, 2020*

# Overview

---

- Our **healthcare system and testing capacity** are ready to handle a significant increase in COVID-19 patients.
  - We have prepared and staged **facilities, providers and a robust stockpile of PPE.**
- **COVID-19 is a serious threat**, we all have a role to play in protecting the most vulnerable.
- **Without a vaccine, we will continue to see the spread of COVID-19** in this community. We must learn to live with it.
- Second order consequences have become a serious concern. (Financial stability and Behavioral Health of our residents)
  - Economic destruction and isolation is leading to additional crises that will have long-term consequences.

# Key Performance Indicators Decision Matrix

<b>COVID Patient Volume</b>	<b>Concerning:</b> Additional Measures Needed	<b>Cautious:</b> Maintain Current Restrictions	<b>Comfortable:</b> Support Reducing Restrictions	<b>Current Status</b>
<b>Inpatient Hospitalization</b>	Over 12 patients at one time	8-12 patient at one time	Under 8 patients at one time	<b>Comfortable</b>
<b>Outpatient:</b> Colorado Mtn Medical & Urgent Care	Over 100 patients per day	50-100 patients per day	Under 50 patients per day	<b>Comfortable</b>
<b>Sick Hospital Clinicians</b>	Over 10 clinicians out at one time	6-10 clinicians out at one time	Under 6 clinicians out at one time	<b>Comfortable</b>

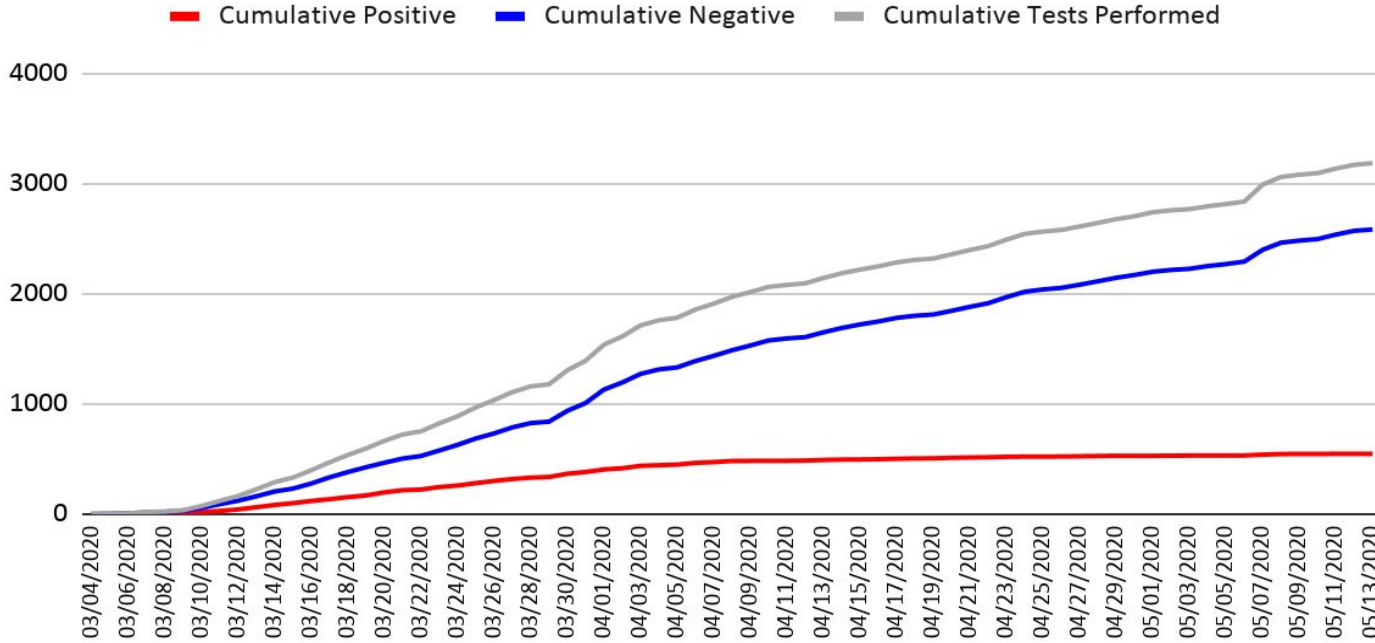
# Diagnostic Testing

---

- Genetic test using RT-PCR (Quest Labs)
  - Identifies the virus, no cross reactivity
  - If present at the FDA's detection level, 95% of the time the test will be positive. This is a very accurate test.
- We have substantial testing capacity
  - Tested more than any other town/city in U.S. per capita (~7% of population)
  - Receiving test results within 24-48 hours
  - Point of care tests (45 mins) available in the hospital
  - Testing Valley-wide - all communities, all abilities to pay
- The percent returning positive continues to stay below 10% (Over 30 days and counting)

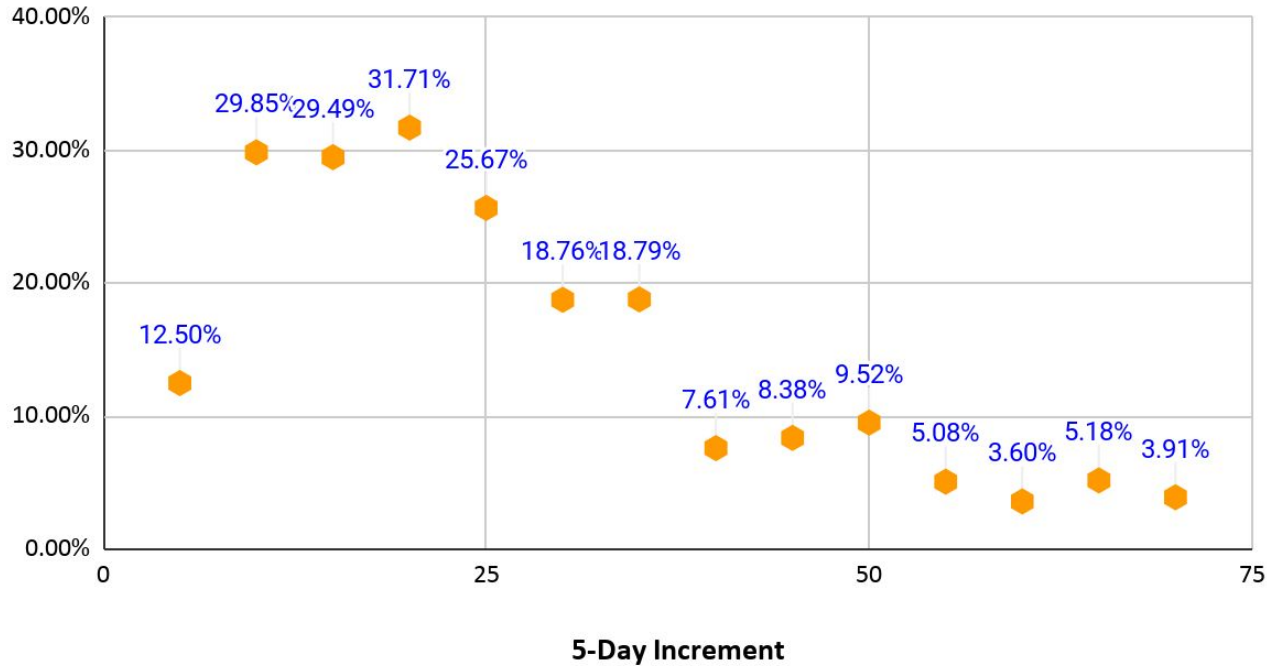
# Diagnostic Testing - Vail Valley Specific

## Cumulative Testing Data



# Diagnostic % Positive Tracking - VH/CMM Data

Running 5 Day % Positive



# Antibody Testing

---

- Identifies the antibodies for COVID-19 (Quest Labs)
  - Testing at 15 days or more from onset of symptoms (takes time to develop antibodies)
  - If antibodies are present then 90-100% of the test will be positive
    - It is true positive 99% of the time
- Does NOT tell us if patient currently has COVID-19, if patient is infectious, or if patient has long-term immunity
  - Scientists are still studying the the long-term immunity to SARS-COV-2
- We have substantial testing capacity
  - Testing offered at all Colorado Mountain Medical (CMM) offices, and walk up testing offered at Avon CMM office

# Summary Testing Data

Testing Data Across Vail Health and Colorado Mountain Medical	
<b>Total Diagnostic (Genetic) Tests Performed</b>	3,207
Pending	54
Negative	2,584
Invalid/Test Not Performed	21
<b>Positive 2019-nCoV</b>	<b>548</b>
% of population tested (est. 45K Eagle River Valley)	<b>7.13%</b>
<b>Total Antibody (Serology) Tests Performed</b>	3850
Pending	1
Negative	3511
Positive SARS-COV-2 Antibody	428
% of tests Positive	<b>10.87%</b>
% of population tested (est. 45K Eagle River Valley)	8.56%

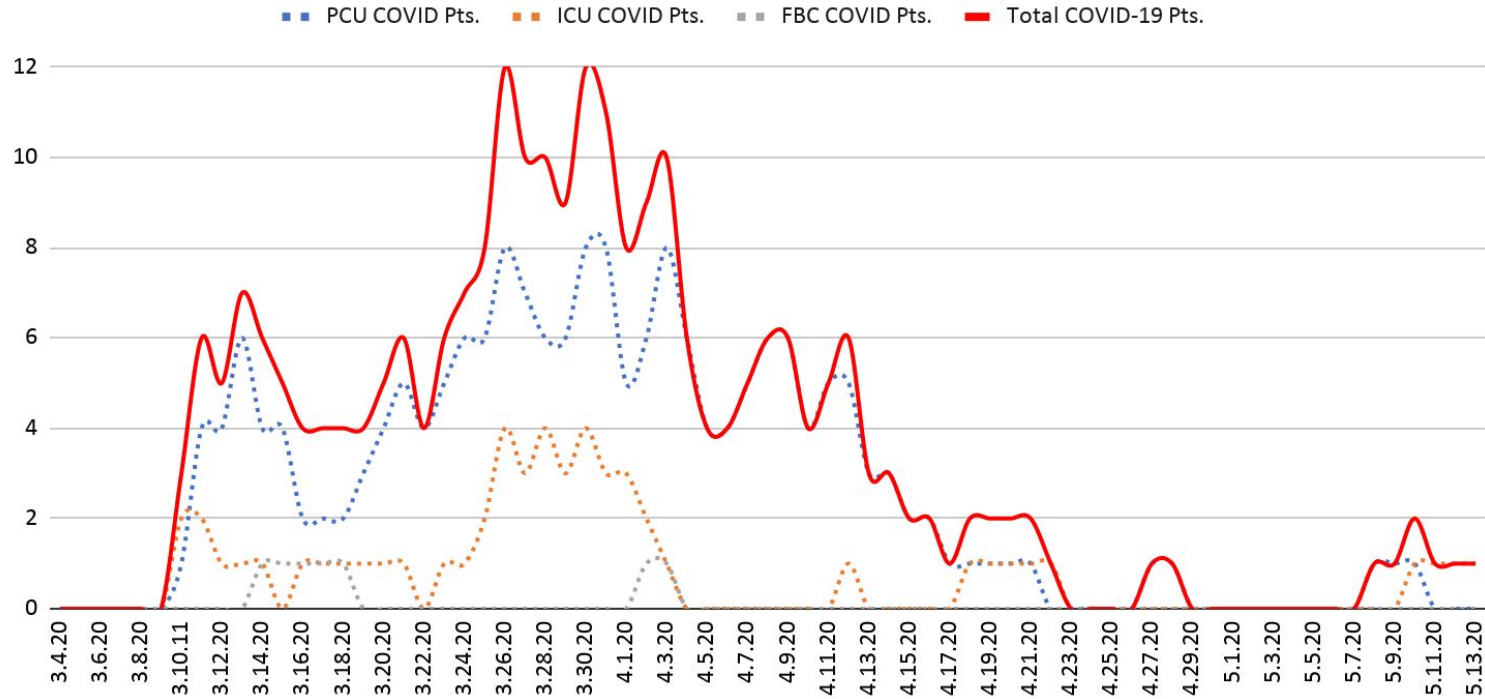


# Testing Data Insights

---

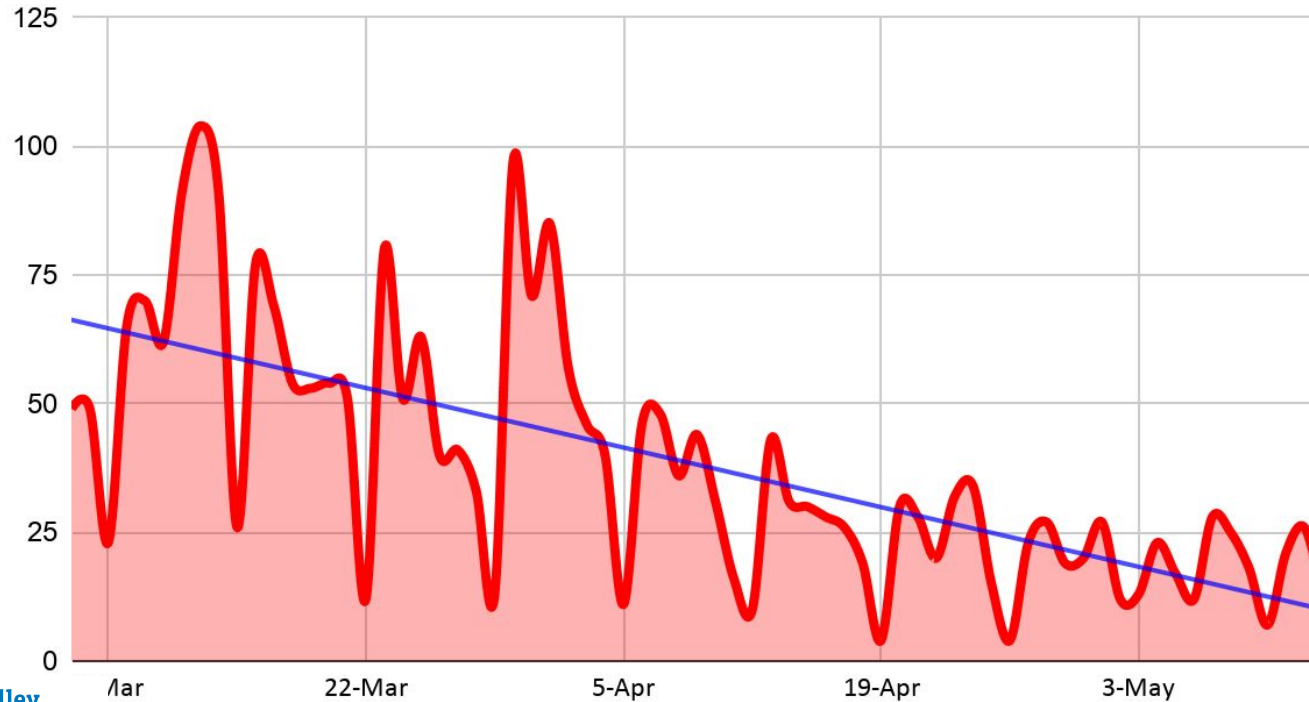
- In this Valley testing is not and has never been a barrier, rather **it is one of our strengths.**
- Rate of COVID-19 transmissions (spread) has been decreasing since the end of March.
- We estimate that ~ 11% of our population has contracted COVID-19 which means ~ **89% of our population is still susceptible.**

# COVID-19/ Suspected Inpatient Volumes Decreasing



# COVID-19 Outpatient Visits Decreasing

Total Outpatient COVID-19 Visits



# COVID-19 is a Serious Disease

---

- Number of COVID inpatients since March: ~35
  - **5-10 times as many inpatient COVID's over a few months vs. Influenza over an entire season**
- **Length of stay for COVID is at least twice as long**
  - Average COVID length of stay: 4 days
  - Average flu length of stay: 1-2 days
- **>15 ICU COVID patients since March; vs. No ICU flu patients in several years**

# What we know: Early March vs. Today

Early March	Today
<ul style="list-style-type: none"><li>● Did <b>not</b> know Ro (Rate of transmissibility)</li><li>● Did <b>not</b> know Case Fatality Rate</li><li>● Did <b>not</b> have comprehensive testing capability</li><li>● Staff had <b>not</b> seen it</li><li>● Our system capacity had <b>not</b> been tested</li><li>● Community exposure was <b>not</b> known</li><li>● Co-circulating Influenza</li><li>● <b>100K visitors &amp; seasonal workers</b></li></ul>	<ul style="list-style-type: none"><li>● Case Fatality Rate much lower than thought</li><li>● Tremendous testing capacity</li><li>● Staff trained and experienced</li><li>● Ability to surge/add 30 additional beds</li><li>● Can surge an addl. 20 negative pressure rooms</li><li>● PPE Stockpile<ul style="list-style-type: none"><li>○ 8 weeks of surge PPE on hand</li></ul></li><li>● Trained and practiced public on personal hygiene and physical separation</li><li>● The extent of the Economic and Behavioral Health impact on the Valley</li></ul>

# Our Underlying Health is Better



REPORTS

STATES

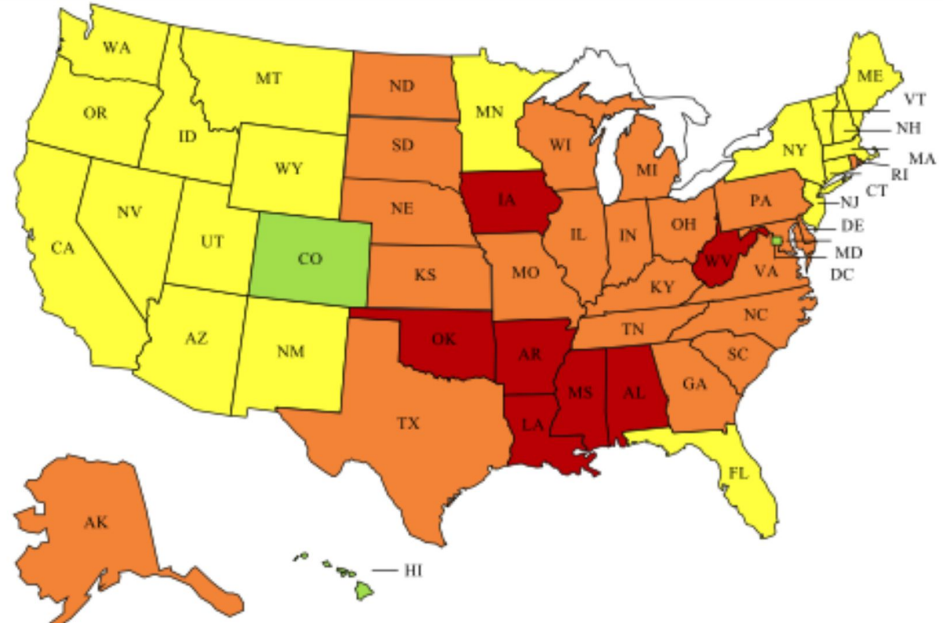
ISSUES

INITIATIVES

ABOUT ▾



Eagle County has one of the lowest levels of obesity in America.



# Projections - Estimated Impacts on Eagle County

Est. prevalence of Antibodies in the community	<b>10.87%</b>
COVID-19 Deaths in the County	<b>8</b>
Est. population of the County	55,000
Est. number who have had COVID-19	5,976.14
Est. COVID-19 CFR	<b>0.13%</b>
CFR Per 1,000 individuals infected with COVID-19	<b>1.34</b>
Est. total COVID-19 deaths over 18-24 month period if 70% of our residents contract COVID-19	51.54
Est. number of additional deaths we could see in Eagle County	<b>43.54</b>

# COVID-19 Vaccine Development

---

- Many companies and countries around the world are working on a vaccine.
- **BEST estimates, a validated, tested, and deployable vaccine still 18-24 months out.**
- It is not certain that a vaccine will ever be developed.
  - There are many diseases for which a vaccine has never been successful developed
    - HIV
    - Common Cold (also a Coronavirus)
    - Malaria
    - Dengue



# You can't shelter in place if you don't have shelter

---

- The majority of our Valley's population cannot afford to stay locked down for the next 18-24 months.
- COVID-19 is endemic, it is not going away.
- 60-70% of the population will likely contract COVID-19 over the next 18-24 months before population immunity and or a vaccine is readily available.
- We must learn to live with COVID-19 as we have other infectious diseases of the past.

# Balancing Economic with Health Impacts

---

- Spread the cases out over time, at a manageable level.
  - Do not want a few cases this summer then a large surge in the winter. (1918 influenza pandemic).
- Now is the time to stress test our healthcare system. Otherwise we can not say if we are prepared for a winter surge in visitors.
- **We support all visitors and 2nd homeowners visiting the Eagle River Valley**
  - Given the restrictions in air travel, economic limitations and fear of the population we know we will see a fraction of the visitors we would normally expect.
- Vail Health is prepared and expecting an increase in cases.

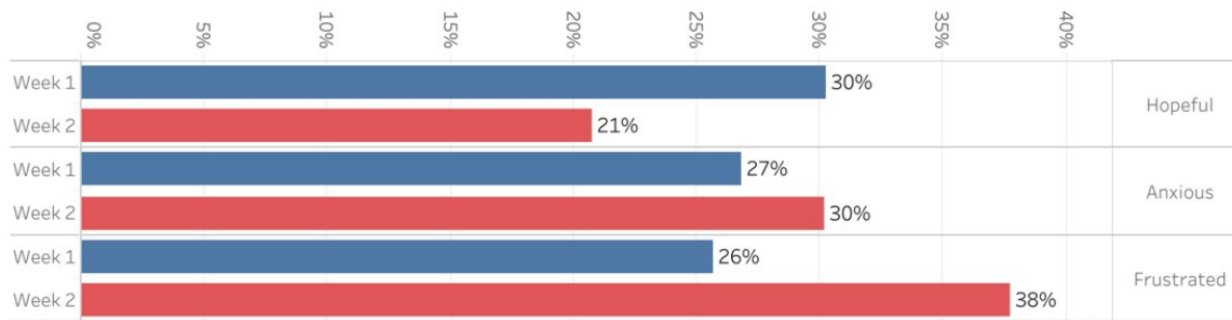
# Eagle River Valley Community Survey - Economy

- 82% 'strongly agree' or 'agree' that they are concerned the pandemic will have long lasting negative consequences for Eagle County's economy
- 66% 'strongly agree' or 'agree' that they are anxious about the financial implications of missing work
  - 1 week increase of 12%**
- 48% 'strongly agree' or 'agree' that they are anxious about lifting restrictions
  - 1 week decrease of 11%**

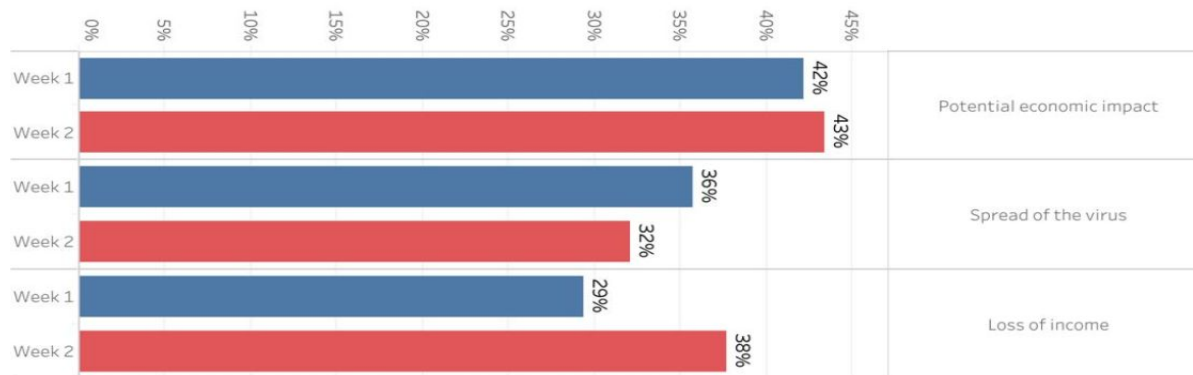


# Eagle Valley Community Survey - Behavioral Health

**In one week: Decrease in people feeling hopeful & increase in people feeling anxious/frustrated due to COVID-19**



**More people are concerned about economic impact/loss of income than are concerned about the spread of virus**



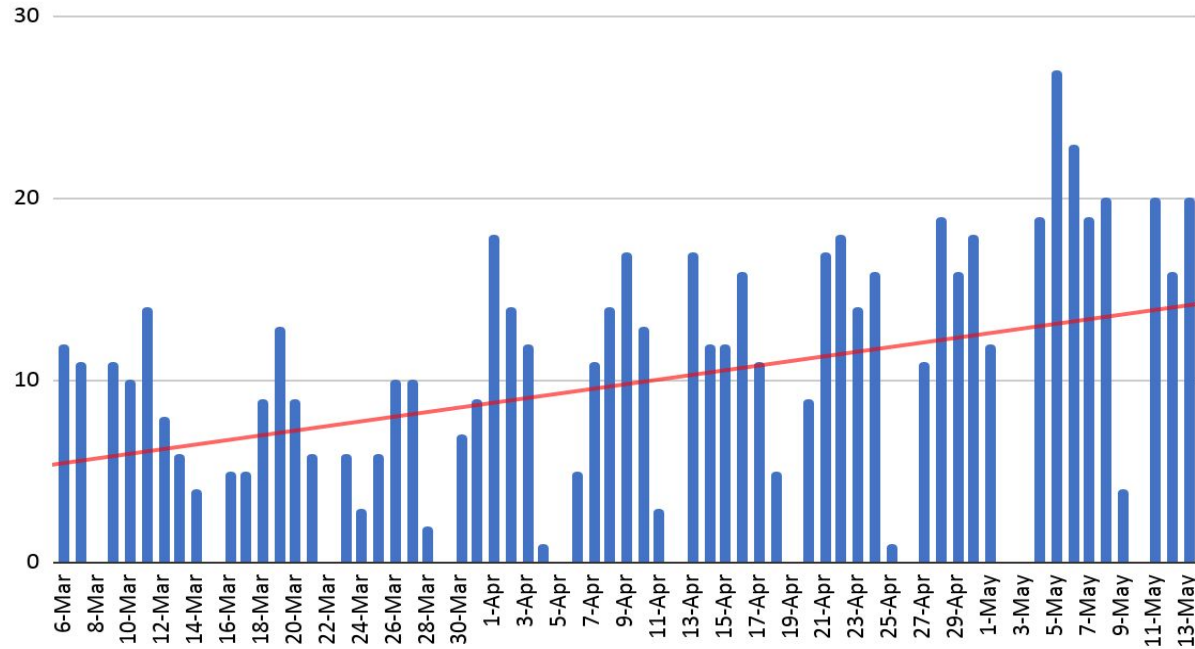
# Behavioral Health Emergency

---

- **More people are becoming poor than are getting sick from COVID-19 in this Valley**
  - Week after week increase for BH services
  - Providers reporting increased substance use/abuse concerns
  - Nonprofits are seeing increased BH concerns across all ages, including young elementary school students

# Behavioral Health Visits Increasing

Total CMM Behavioral Health Appointments



# COVID-19 Is Here to Stay

---

- Until there is a vaccine readily available and or we achieve population immunity we will continue to see cases and deaths from COVID-19 in this Valley
- Moving forward- **Personal Responsibility**
  - Frequent hand washing
  - Stay home when sick
  - Get tested rapidly when sick, follow Public Health guidance
  - Invest in your personal health/wellness
- We must balance the Health Risks with the Economic and Behavioral Health Risks.

# Personal Preparedness

---

We cannot neglect our overall physical and mental health while we are battling COVID – that means getting in for annual wellness checkups, prevention screenings like mammograms and colonoscopies, cardiology visits, etc. Don't let COVID be the reason something more serious goes undiscovered, like changes in blood work, heart issues, cancer detection or behavioral health needs.





# Q&A

