



# Board of Supervisors The Novel Coronavirus (COVID-19)

September 14, 2021

# Briefing Topics

- COVID-19 Dashboard Recap
- Hospital Data
- Testing Questions & Facts



# Santa Barbara County by the Numbers

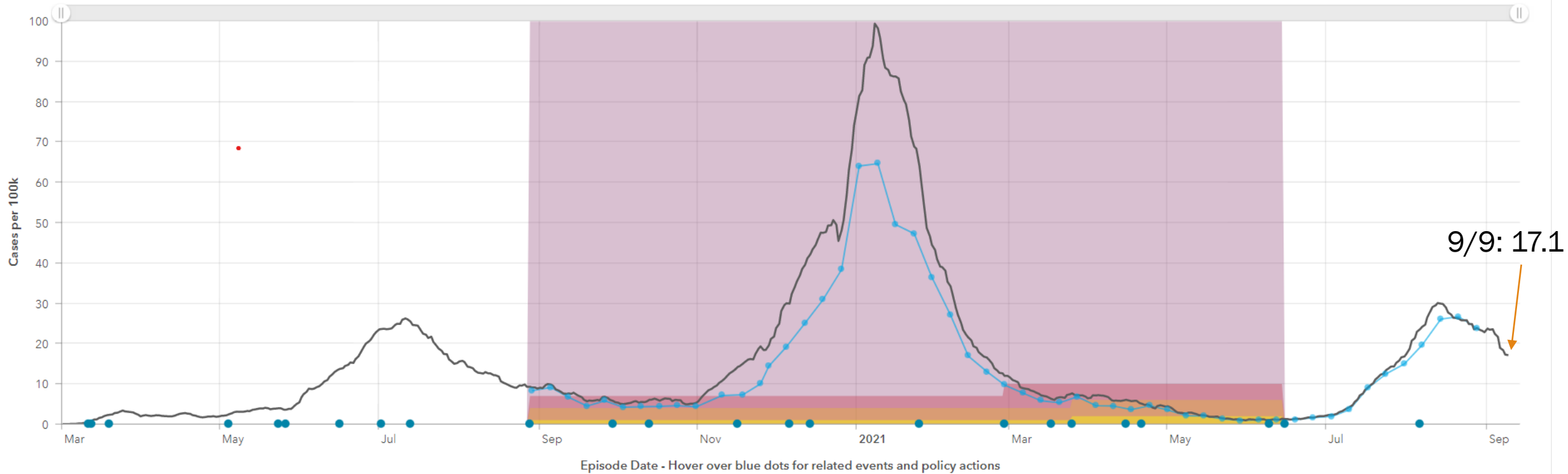
		September 13, 2021 Updated M-F except holidays	
New Cases 63 ↓ 0% from 2 week avg of 117		New Deaths 1 ↑ 7% from 2 week avg of 1	
Active Cases 563 ↓ 0% from 2 week avg of 587		Hospitalized 66 ↓ 0% from 2 week avg of 72	
Total Cases 40,752		Total Deaths 489	
Case Rate per 100k as of September 9, 2021 17.1		Test Positivity as of September 9, 2021 5.2%	



# Case Rate

## Case Rate per 100k People

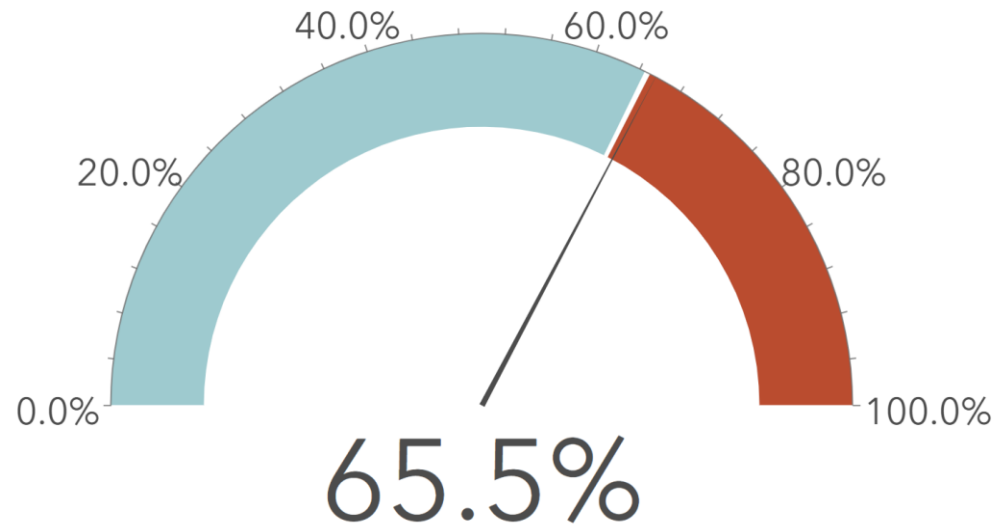
Actual and CA adjusted



# Hospital Capacity, 9/13

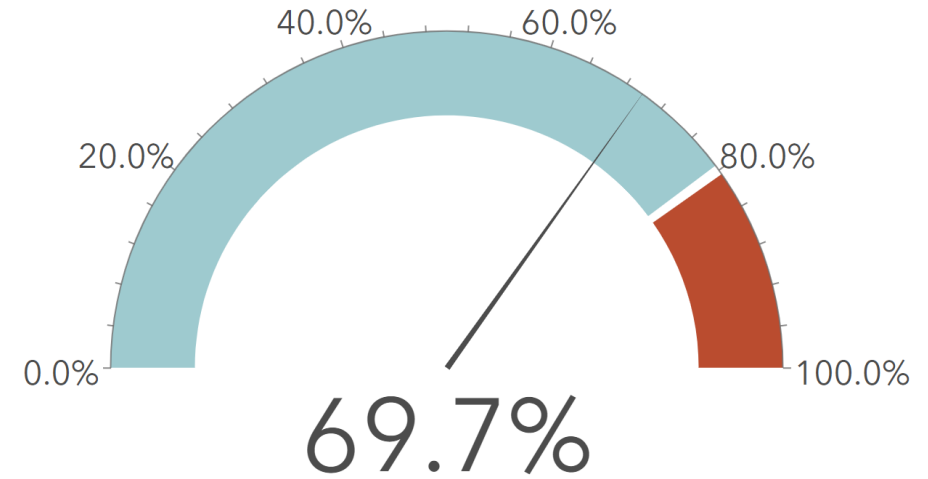
## % Hospital Beds in Use

Red Zone <35% available

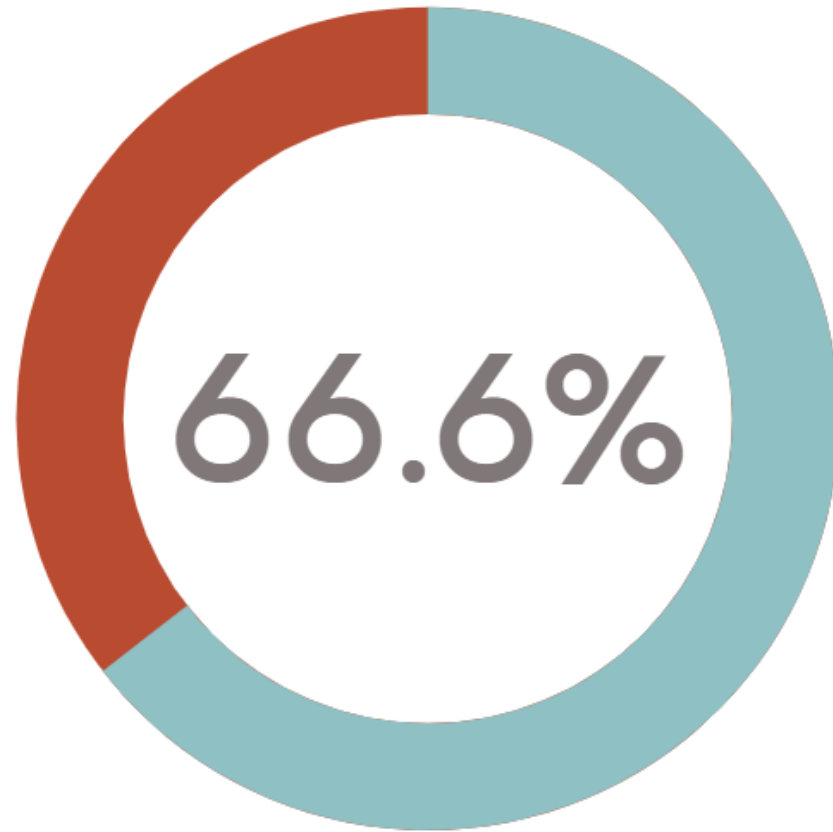


## % Staffed Adult ICU Beds in Use

Does not include ICU Surge. Red Zone < 20% available



# Vaccination Rates, 9/13



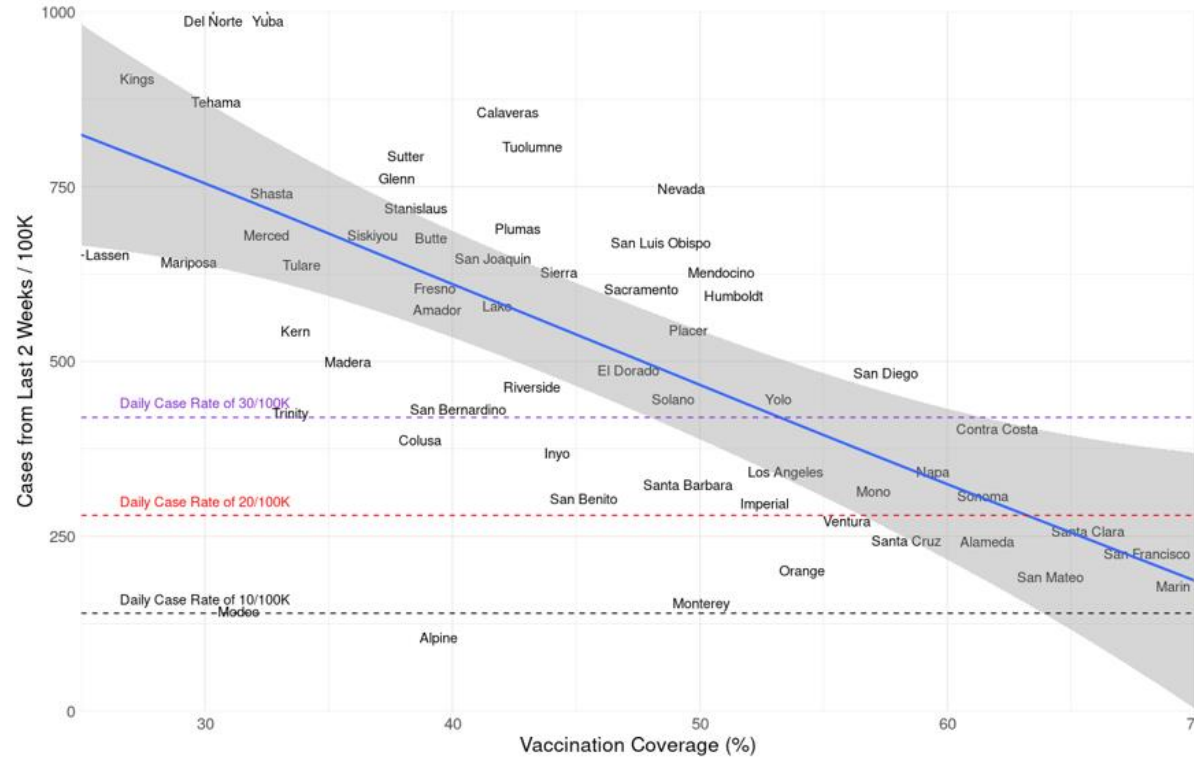
**Percentage of  
Eligible  
Santa Barbara  
County Residents  
Fully Vaccinated**

**1 in 3 eligible persons in Santa Barbara County is unvaccinated**



# Vaccination & Rates

## Vaccination Coverage vs. Case Rate (from Last 2 Weeks)



Note: Vaccine coverage is % of total county population, not eligible population, so number may appear lower than it appears elsewhere.



# Fully Vaccinated Rate by Zip Code, 9/7

Zip Code	VEM	12+ Population Size	City	31-Aug	7-Sep	% Change
93429	3	144	Casmalia, Antonio	34.0%	34.0%	0.0%
93117	3	53768	Goleta, Isla Vista, Gaviota, Naples, Capitan	56.6%	56.9%	0.3%
93436	2	46237	Lompoc, Vandenberg Village, Mission Hills, Concepcion, Acorn	56.1%	57.1%	1.0%
93254	1	590	New Cuyama	57.0%	57.5%	0.5%
93455	3	38992	Santa Maria, Orcutt, Betteravia	57.0%	57.8%	0.8%
93458	1	43263	Santa Maria	60.3%	61.7%	1.4%
93454	2	32043	Santa Maria, Sisquoc, Garey	62.2%	63.4%	1.2%
93427	3	5341	Buellton, Las Cruces	63.9%	64.6%	0.8%
93463	4	7101	Santa Ynez, Solvang, Los Olivos, Ballard	66.3%	66.9%	0.6%
93460	4	4623	Santa Ynez	68.1%	68.5%	0.4%
93434	1	5926	Guadalupe	67.2%	68.7%	1.6%
93105	4	25430	Santa Barbara, Mission Canyon	70.1%	70.5%	0.4%
93440	3	1389	Los Alamos	69.4%	70.8%	1.4%
93110	3	15103	Santa Barbara, Hope Ranch	71.3%	72.0%	0.7%
93101	3	27818	Santa Barbara	73.3%	74.1%	0.7%
93109	4	10019	Santa Barbara	73.7%	74.3%	0.5%
93103	3	17933	Santa Barbara	73.7%	74.3%	0.7%
93013	4	14495	Carpinteria, Summerland, Toro Canyon	74.0%	74.7%	0.7%
93108	4	9321	Santa Barbara, Montecito, Summerland, Toro Canyon	77.1%	77.8%	0.7%
93111	4	15517	Goleta	83.7%	84.1%	0.4%
93441	4	837	Los Olivos	92.7%	93.5%	0.7%
93067	3	405	Carpinteria	100.0%	100.0%	0.0%





# Vaccination Rate By Zip Code, 9/7

➤ Greatest percent increase from previous week observed in:

Zip Code	City	% Change Among Partially Vaccinated	% Change Among Fully Vaccinated
93434	Guadalupe	1.2%	1.6%
93458	Santa Maria	1.1%	1.4%
93454	Santa Maria, Sisquoc, Garey	0.9%	1.2%
93440	Los Alamos	0.6%	1.4%
93436	Lompoc, Vandenberg Village, Mission Hills, Concepcion, Acorn	0.7%	1.0%
93455	Santa Maria, Orcutt, Betteravia	0.7%	0.8%
93429	Casmalia, Antonio	0.7%	0.0%



# Current Outbreaks

## 57 Active Outbreaks



**11** Businesses



**25** Schools



**21** Congregate  
Living  
Facilities



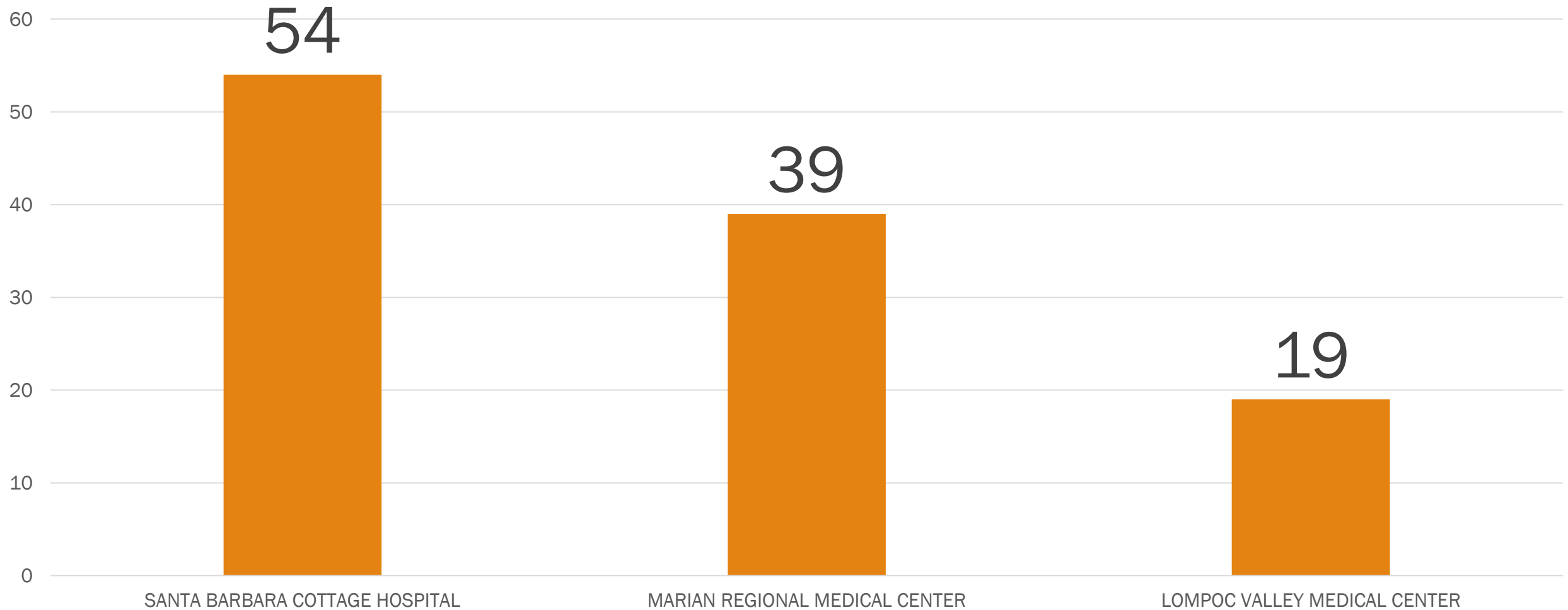
# August Admission Hospitalization Data

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FOR SANTA BARBARA COUNTY RESIDENTS ADMITTED IN SANTA  
BARBARA COUNTY, AS OF 9.9.21



# August Admissions by Hospitals: N= 112



# Length of Stay

- Length of stay ranged from same day discharge to 25 days
- The median length of stay was 4 days



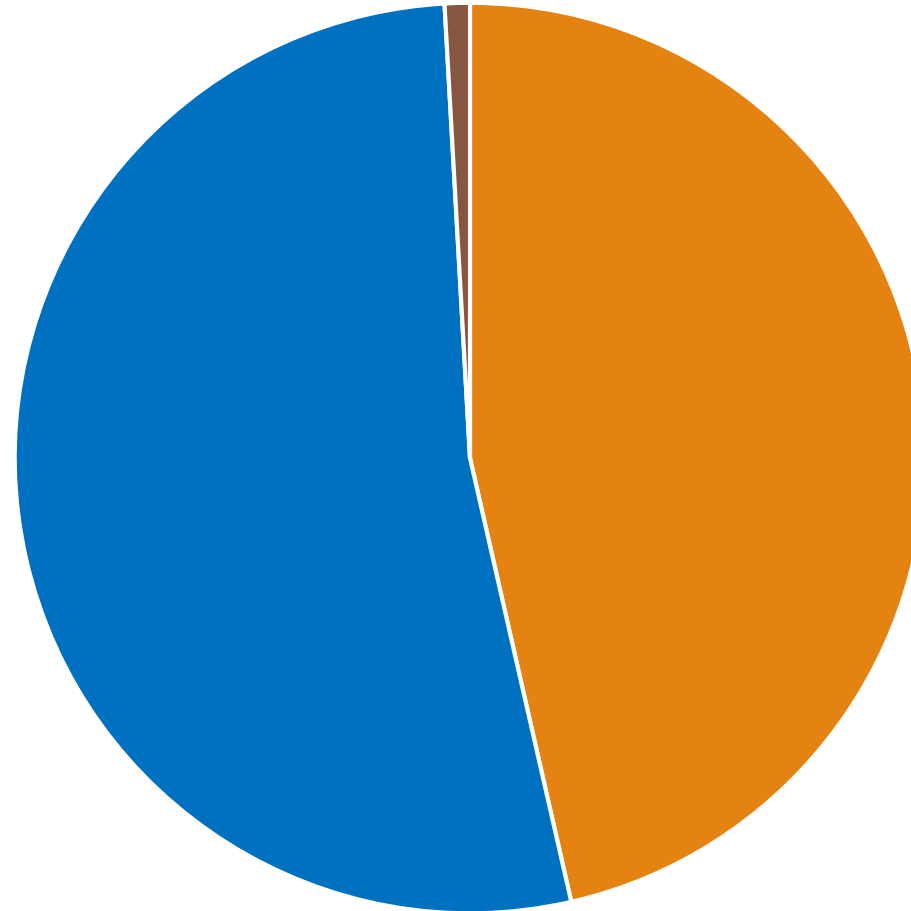
# ICU and Deaths

- Of 112 hospitalization, 10 were admitted to the ICU
  - Of these 10 ICU admissions, 1 died during hospitalization
- Of 112 hospitalizations, 9 died during hospitalization



# August Admissions by Gender

Female:  
59, 53%

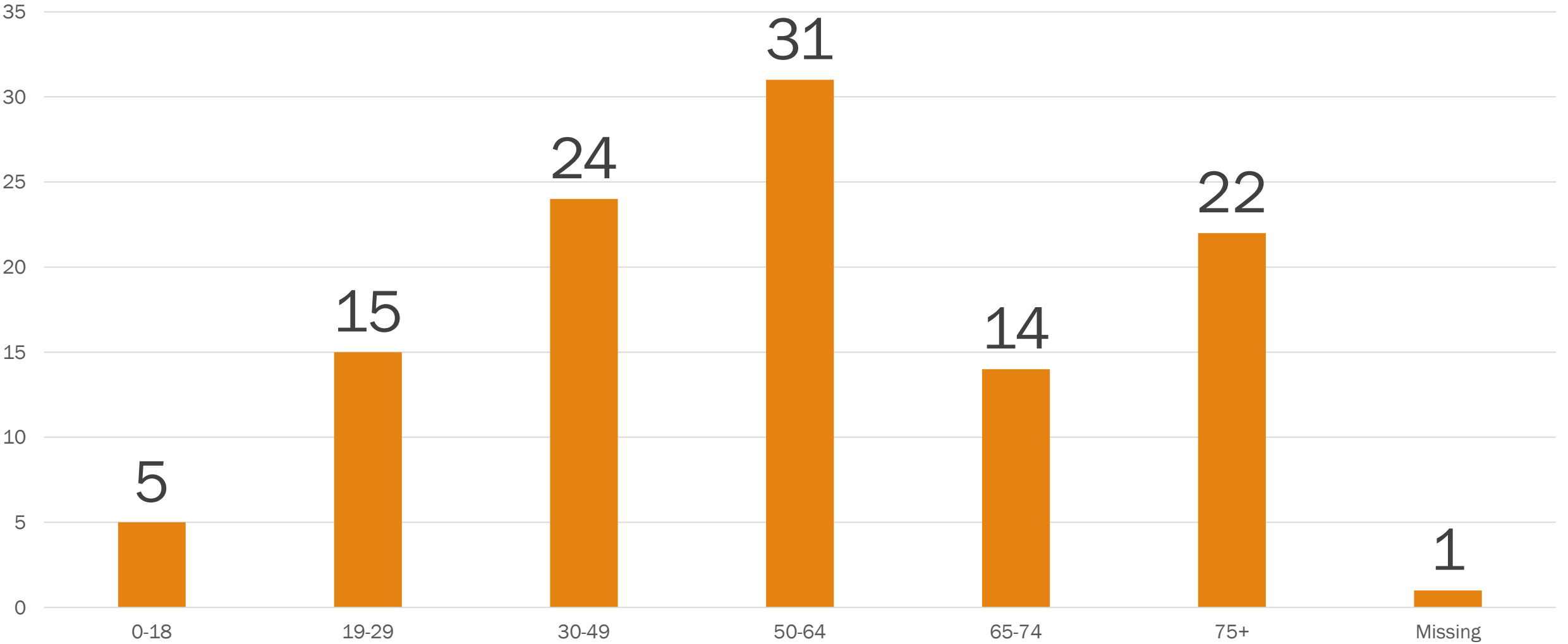


Male:  
52, 46%

■ Male ■ Female ■ Other



# August Admissions by Age Group



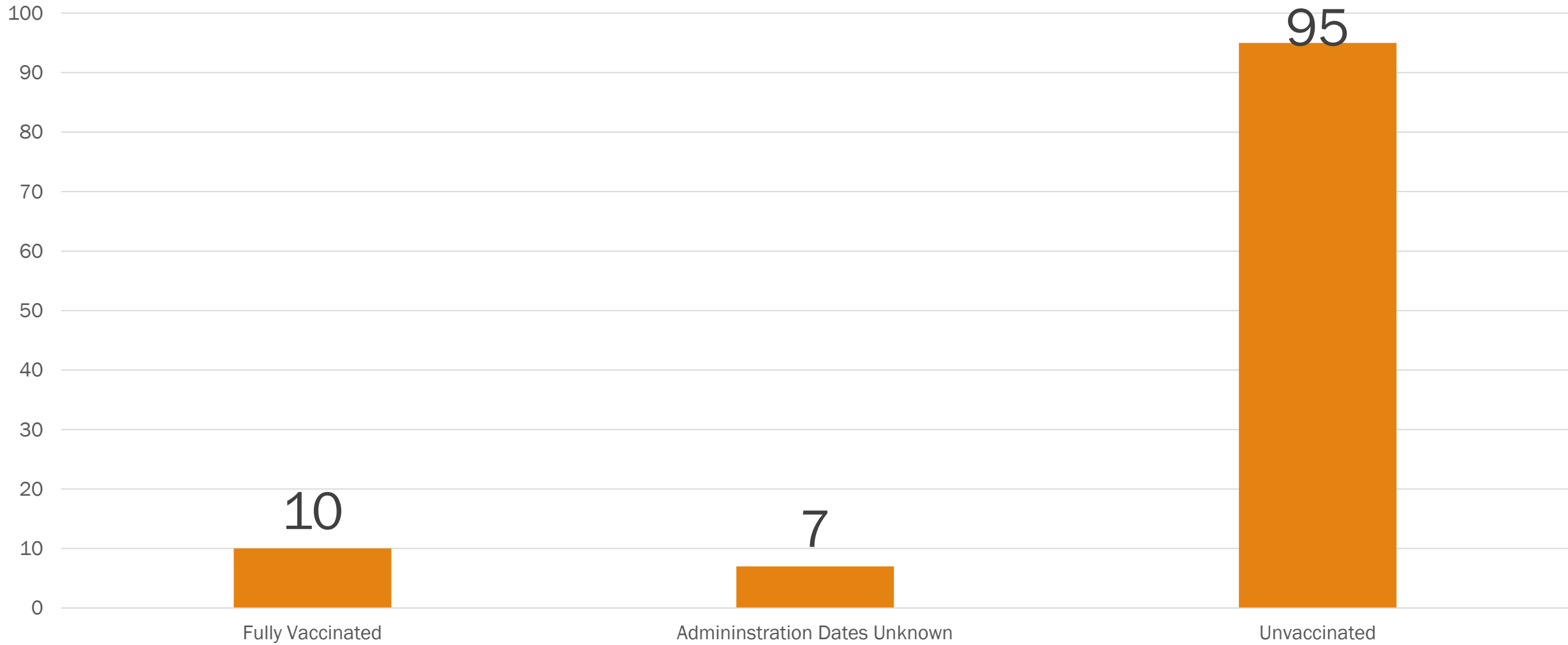


# Median Age

- The overall median age was 54 years
- Among unvaccinated, the median age was 52.5 years
- Among vaccinated, the median age was 80 years



# August Admissions by Vaccination Status



# Summary of CDPH Data

- There were 112 admissions in August in Santa Barbara County hospitals
- Most hospitalizations occurred at Cottage followed by Marian and Lompoc
- 53% of admissions were female and 47% were male
- 61% of admissions were over 50 years of age
- The age group with the most admissions was 50-64 year olds followed by 30-49 year olds and 75+ year olds
- 85% of admissions were unvaccinated



# Testing Update

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# Testing Capacity

- Employer Based via State Partnership
  - Schools
  - Agricultural
  - Shelters
  - Open to all organizations/employers
- Goleta Valley Community Center
  - 198/day; Thurs-Tues; 7 am – 7 pm
- Buellton
  - 126/day; Mon-Sat; 10 am - 6 pm
- Santa Maria FairPark
  - 336/day; Sun-Thurs; 10 am – 6 pm
- Santa Barbara HCC
  - 84/day; Mon-Fri; 8:30 am - 4:30 pm
- Lompoc HCC
  - 84/day; Mon-Fri; 8:30 am - 4:30 pm
- Coming soon: additional mini-bus (168/day) to Goleta/Santa Barbara



# Antigen Test vs PCR

*Question: Are antigen tests only accurate and suitable for symptomatic individuals?*

FACT:



The following statement comes directly from the FDA site current as of 7 SEP 2021

The BinaxNOW™ COVID-19 Antigen Self Test is a lateral flow immunoassay intended for the qualitative detection of nucleocapsid protein antigen from SARS-CoV-2 from **individuals with or without symptoms** or other epidemiological reasons to suspect COVID-19 infection when tested twice over three days with at least 36 hours between tests.



# Summary of FDA-EUA Approved Antigen Tests

## Sensitivity (PPA)

☐ Tier 1 (93.9 – 97.7%)

☐ Tier 2 (85.0 – 91.1%) ≥

☐ Tier 3 (80.0 – 84.4%)

15 FDA-EUA Approved Antigen Tests  
This FDA version effective 24 August 2021

### Notes:

1. There are effectively 15 unique current FDA-EUA Antigen Tests
2. Three tiers as it applies to current FDA-EUA Antigen Tests (see above)
3. SB Public Health uses one of the top 3 best performing antigen kits with Positive Agreement with PCR  $\geq 97\%$



# PCR Test

*Question: Was the PCR test designed to detect COVID-19 infection?*

**FACT:** All viral upper respiratory infections are tested by PCR test. In fact, the first FDA approved (not EUA but full FDA 510K approval) is a PCR analyzer that tests upper respiratory viruses and bacteria.

## Molecular SARS-CoV-2 Diagnostic Tests for COVID-19 that have been granted a De Novo, 510(k) clearance or PMA

- BioFire Respiratory Panel 2.1 (RP2.1) - On March 17, 2021, FDA granted the first marketing authorization using the De Novo review pathway for the [BioFire Respiratory Panel 2.1 \(RP2.1\)](#) (PDF - 630 KB). The BioFire RP2.1 is for the simultaneous qualitative detection and identification of multiple respiratory viral and



Content current as of:

09/10/2021





# PCR Test

*Question: Does the PCR test produce enormously high number of false positives?*

## FACTS:

1. The False Positive rate for SARS-CoV-2 is lower than any prior upper respiratory virus namely SARS-CoV-1, MERS, H1N1 (flu), Dengue, Ebola and Zika (similar to Measles of 0.8%)

Cohen AN. et al. medRxiv Sept 28, 2020; [www.medrxiv.org/content/10.1101/2020.04.26.20080911.v4](https://www.medrxiv.org/content/10.1101/2020.04.26.20080911.v4)

Data from External Quality Assessments of PCR tests for other RNA viruses

- FPR usually between 0.8% and 4.0%
- Median = 2.3%; Pooled mean = 3.2%

Data from External Quality Assessments of PCR tests for COVID-19

- FPR between <0.4% and 0.7%
- Pooled mean = 0.6%



# PCR Test

## FACTS:

2. Recently published report from Canada where 95,919 samples were tested at the Alberta Public Health and had only 49 discordant patients (or  $< 0.06\%$  discordant rates).
3. Please see the detailed slides



# CDC SARS-CoV-2 Culture + with Ct Values

European Journal of Clinical Microbiology & Infectious Diseases (2020) 39:1059–1061  
<https://doi.org/10.1007/s10096-020-03913-9>

## BRIEF REPORT

### Viral RNA load as determined by cell culture as a management tool for discharge of SARS-CoV-2 patients from infectious disease wards

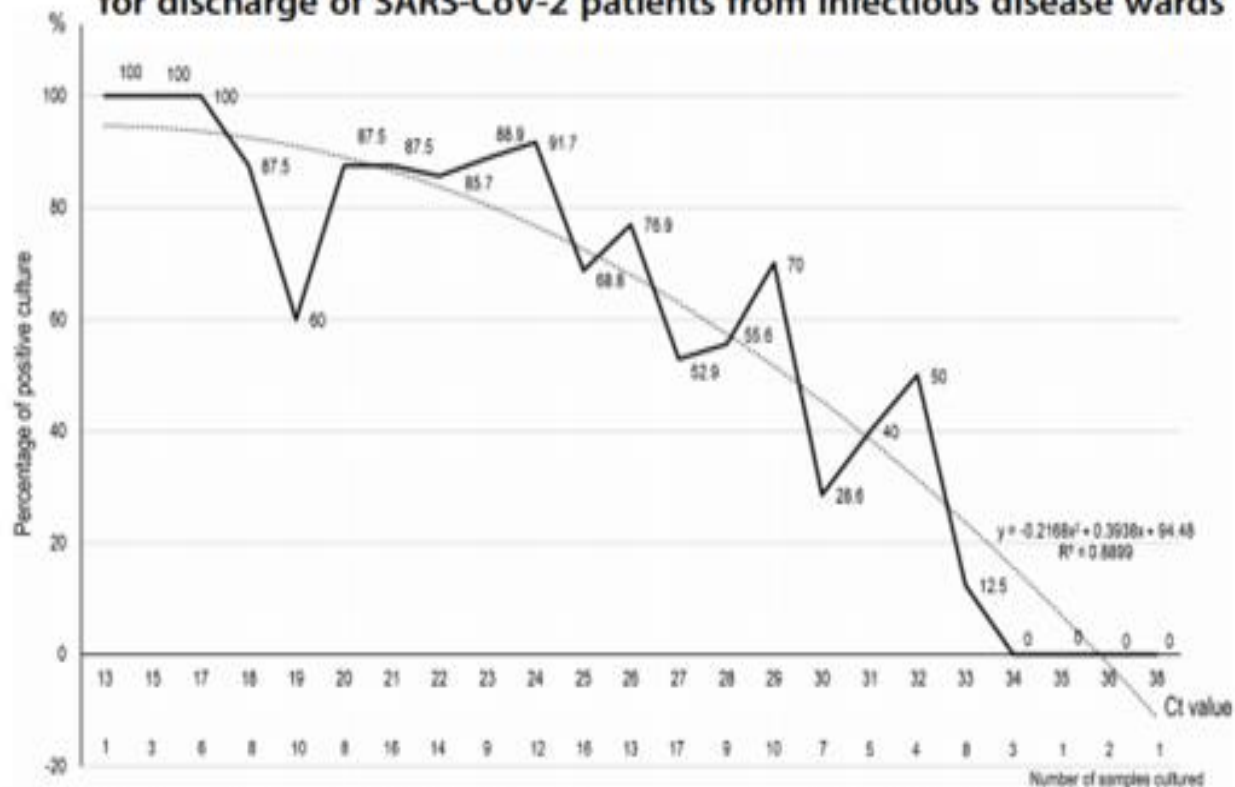
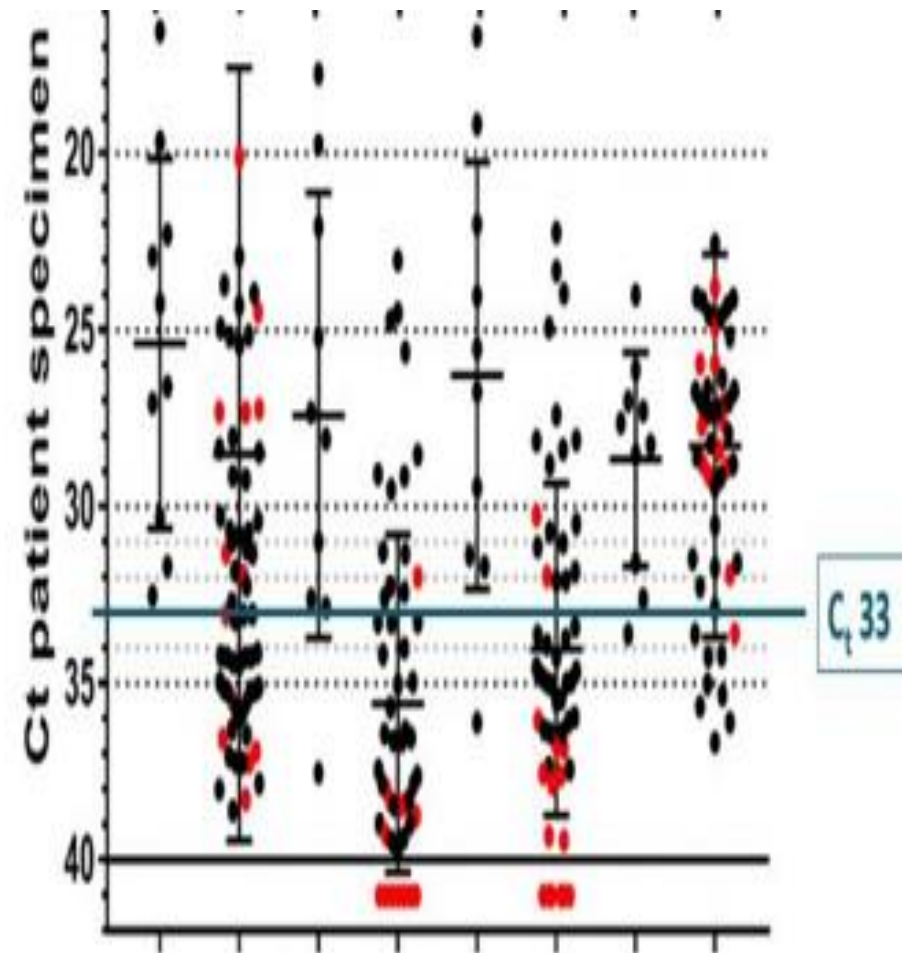


Fig. 1 Percentage of positive viral culture of SARS-CoV-2 PCR-positive nasopharyngeal samples from Covid-19 patients, according to Ct value (plain line). The dashed curve indicates the polynomial

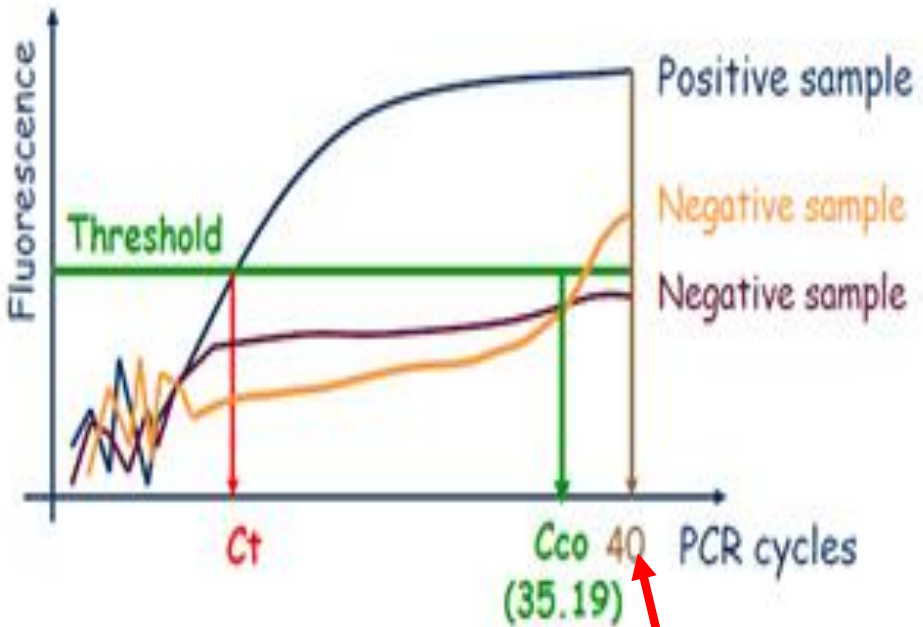


Independent Study showing no COVID with  $C_t > 34$

CDC data showed that only 1 virus with  $C_t$  value  $> 33$  had + SARS-CoV-2 culture

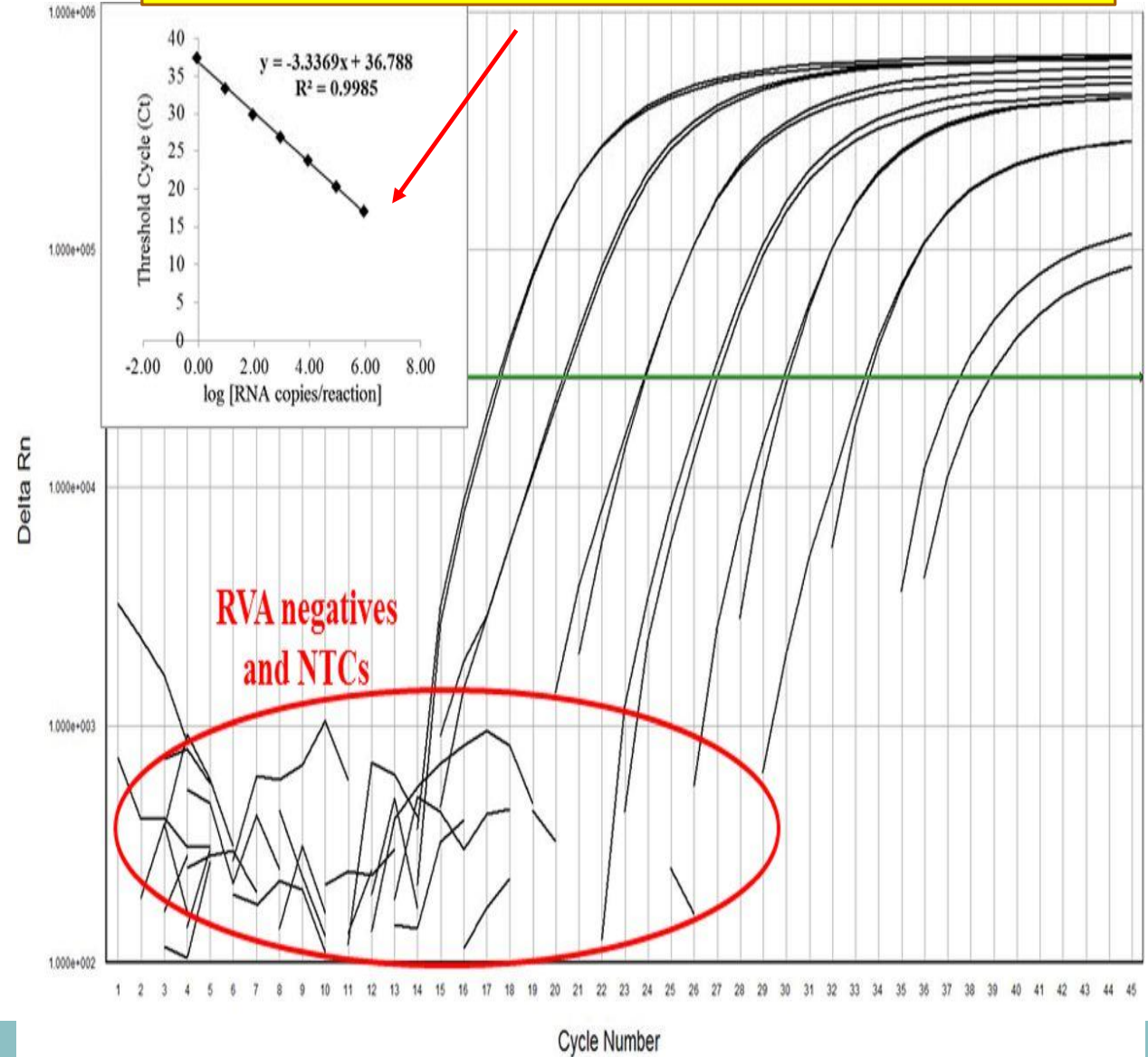


# How Should higher Ct values be reported as Positive, Presumptive Positive or Negative



If you have a  $C_t > 35$  is it a transmissible virus ?

Standard Curve -  $C_t$  value = # of Virus Organism.



# PCR Test

*Question: Does the PCR test uses swabs that are coated with cancer-causing chemicals?*

**FACT:** The materials used in swabs include rayon, which is a semi-synthetic material created from solubilizing cellulose (or wood pulp) including of the most common types of rayon is viscose rayon, (similar to cotton) and is a moisture-absorbent material, a popular choice for casual and athletic wear. It also shows up in dresses, blouses, and outerwear. When it's bleached, a byproduct called dioxin is released, which in high quantities is known to be toxic to humans causes cancer. The toxicity is clear from high-dose oral exposure and there is no significant evidence of toxicity from percutaneous nor inhalation exposure by the FDA, CDC nor EPA.

*Please note that these same swabs have been used for decades for collecting patient specimens for a host of infections.*



# Outreach...

## FREE WALK-IN COVID-19 VACCINATION CLINIC

-PFIZER AND J&J COVID VACCINES  
-FLU VACCINES

**LOCATION: GOOD SAMARITAN EMERGENCY SHELTER**

401 W MORRISON AVE, SANTA MARIA

**DATES: WEDNESDAY, SEPTEMBER 15TH**

3:00 P.M. – 7:00 PM

Individuals who receive a COVID vaccine will receive a **\$25 Visa gift card** and will be entered in a **raffle to win a bicycle.**

Need a ride? Call 805-680-7962 for more information.



PublicHealthSBC.org **FIGHTING BACK** Santa Barbara County **PUBLIC Health** DEPARTMENT  
Fighting for our future, one kid at a time. SANTA MARIA VALLEY

