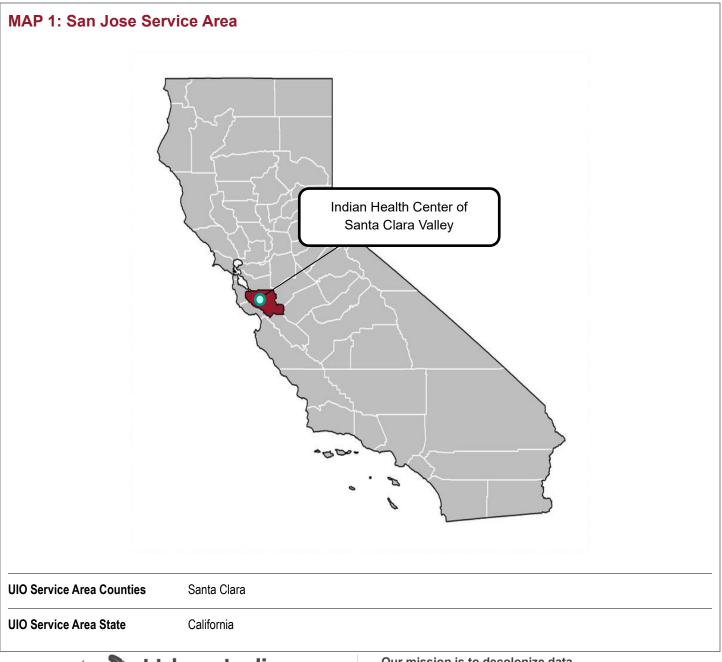
# COVID-19 URBAN INDIAN ORGANIZATION SUMMARY JANUARY 20, 2020–SEPTEMBER 28, 2021

# San Jose Service Area

COVID-19 Case Surveillance Information for American Indians and Alaska Natives living in the county served by Urban Indian Organizations (UIOs) in the San Jose Service Area





Urban Indian Health Institute Our mission is to decolonize data, for indigenous people, by indigenous people. 611 12th Avenue South, Seattle, WA 98144 206–812–3030 | info@uihi.org | www.uihi.org

#### Introduction

The COVID-19 pandemic resulted in a disproportionate loss of life among American Indians and Alaska Natives.<sup>1,2</sup> To quantify this impact, Urban Indian Health Institute (UIHI) prepared this report to provide surveillance information for areas served by Urban Indian Organizations. This report contains information regarding COVID-19 cases, hospitalizations, and deaths. Please note that this data reflects information available from counties overall and does not represent individual organizations or providers.

#### About UIHI

As a Public Health Authority and one of 12 Tribal Epidemiology Centers in the country—and the only one that serves Urban Indian Organizations nationwide—UIHI conducts research and evaluation, collects and analyzes data, and provides disease surveillance to strengthen the health of American Indian and Alaska Native communities. UIHI's mission is to decolonize data, for Indigenous people, by Indigenous people.

#### **Data Quality**

The data used in this report is from the Centers for Disease Control and Prevention (CDC) COVID-19 Case Surveillance Data, which may differ from what is shown on your county's public health dashboard. To assess discrepancies in CDC and state data, we present metrics on data quality. The quality of COVID-19 data is measured in two ways: the completeness of racial data sent to the CDC and the proportion of cases sent to the CDC from the state.

Not all COVID-19 cases within counties have been reported to the CDC. To assess the overall representativeness of the CDC COVID-19 Case Surveillance Data, we compare the total number of COVID-19 cases reported to the CDC by county with the total number of cases reported to the New York Times.<sup>3</sup> The number of COVID-19 cases reported by the New York Times in a given county vary based on whether they include confirmed COVID-19 cases or confirmed and probable COVID-19 cases. Therefore, the cases reported by New York Times provide an upper limit for the number of COVID-19 cases in a county.

For the data presented in this report to be of high quality, racial data needs to be both collected by states and relayed to the CDC. Unfortunately, many states have poor collection of racial data and/or do not send most COVID-19 data to the CDC. We recommend using caution when interpreting these numbers in the absence of the quality of their data. These data quality issues vary over time. Data is especially poor around the peaks of COVID-19 case burden. Please refer to Figure 1 and Table 1 to assess the overall quality of COVID-19 data in this service region.

#### **Methods**

The Centers for Disease Control and Prevention COVID-19 Case Surveillance Data are voluntarily submitted by local health jurisdictions to the CDC using the COVID-19 Case Report Form.<sup>4</sup> This data is then transmitted to UIHI for analysis. Population denominators use the 2020 postcensal estimates.

The COVID-19 Case Report Form allows for the selection of multiple racial identities independent of ethnicity, however, many states and counties do not report data to the CDC in this format. Due to the methods of data collection and reporting, American Indian and Alaska Natives (AI/ANs) were defined as non-Hispanic AI/AN alone in this report. Using other definitions of AI/ANs would result in rates that underestimate the burden of COVID-19 among AI/ANs. Because of the under-reporting of racial data, the statistics presented in this analysis are only applicable to non-Hispanic single race AI/ANs, a portion of the entire AI/AN population. The non-Hispanic White (NHW) population is included as a comparison population to assess disparities in COVID-19 incidence, hospitalization, and mortality in recognition of the effects of structural racism.

Ethnicity categories are captured as "Hispanic/Latino", "Non-Hispanic/Latino", or "Unknown". Age is calculated by the provided date of birth. Cases were assigned to individual counties based on their listed county of residence. Sex is recorded in the Case Report Form as "Male", "Female",

"Other", or "Unknown". The 2020 postcensal estimates do not provide estimates for individuals whose sex is not male or female, thus case rates for "Other" or "Unknown" patients cannot be calculated.

Cases were defined as individuals with a positive PCR test for COVID-19. Cases were excluded when an individual did not report county of residence. COVID-19 case dates were assigned based on when COVID-19 cases were reported to the CDC.

Age-adjusted case, hospitalization, and mortality rates stratified by race and gender are presented in this report. Age adjustment for incidence rates were calculated using the direct method applying weights from the U.S. 2000 Standard Population. Age adjustment for relative risks was performed via logistic regression.

Case counts that are less than 10 are suppressed in this report to protect confidentiality. Rates are presented with an asterisk (\*) when its relative standard error (RSE) is greater than or equal to 25%. RSE provides a measure of reliability. Where the RSE is greater than or equal to 25%, the estimate is unreliable. Analyses adhere to Washington Department Of Health guidelines for the reporting of data with small numbers.<sup>5</sup>

Data were analyzed using R version 4.2.

#### **GLOSSARY OF TERMS**

#### Age-adjusted

This report refers to several analyses as age-adjusted. Age-adjustment is a statistical approach that allows for communities with different underlying age compositions to be compared. For example, COVID-19 has had disproportionate impacts based on age.<sup>6</sup> As a population, AI/AN are younger than NHW.<sup>7</sup> As a result of these two factors, any analysis that does not undergo age adjustment when comparing COVID-19 rates between AI/AN to NHW may only reflect that, as a population, AI/AN are younger than NHW and therefore have different rates of COVID-19. To adjust for this effect, our analysis compares individuals with similar ages to one another separately and then combines those values after appropriately weighting them.

#### **Confirmed COVID-19**

COVID-19 is determined to be "Confirmed" if there is confirmatory laboratory evidence, which requires detection of SARS-CoV-2 RNA in a clinical specimen using a molecular amplification detection test.

#### **Confidence Interval**

A confidence interval is a statistical tool used to describe the uncertainty of our estimates. It provides a range of values that is likely to include the true population value with a certain degree of confidence. It is often expressed as a percent whereby the true population value lies between an upper and lower interval. In this report, many of our estimates are presented with 95% confidence intervals. A 95% confidence interval can be interpreted as, we are 95% confident that the true value of an estimate lies within the confidence interval range.

#### Incidence

Incidence refers to the occurrence, rate, or frequency of disease. In this report, incidence refers to the total number of COVID-19 infections, hospitalizations, or deaths divided by the total number of individuals at risk of infection. In this report we present incidence as the number of cases per 100,000 individuals to standardize the numbers across analyses with a different total number of individuals that could have been infected with COVID-19.

#### **Relative Risk**

Relative risk in this report refers to the probability of an individual who is Al/AN being infected, hospitalized, or dying from COVID-19 relative to a non-Hispanic White individual. A relative risk greater than one indicates that Al/AN individuals had a greater risk of infection, hospitalization, or death relative to NHW. Conversely, a relative risk less than one indicates that Al/AN individuals had a lower risk relative to NHWs.

#### Relative Standard Error (RSE)

Standard error tells you how accurate the estimate is compared to the true value. The greater the standard error is, the more likely that the estimate is an inaccurate representation of the true value. Relative standard error is used to show how large the standard error is, relative to the size of the estimated value. For this report, we determine our estimates to be unreliable when the relative standard error of an estimate is greater than 25%. We recommend caution when using estimates with an RSE greater than 25% due to their low reliability.

#### **Rolling Average**

A rolling or moving 14-day average is the average number of confirmed COVID-19 cases, hospitalizations, or deaths over a 14-day period. It is calculated for each day by averaging the values of that day and the 13 days before. This method is used to reduce fluctuations that occur on a weekly or daily basis due to external factors such as specimen processing and reporting time.

#### Service Area

Urban Indian Organization's service areas are defined by the Urban Indian Organizations who described to UIHI the counties they serve.

#### **EXECUTIVE SUMMARY**

#### **COVID-19 Cases**

Since January 20, 2020, a total of 139 AI/ANs residing in the San Jose UIO service county have been reported to the CDC as having confirmed COVID-19. This corresponds to an age-adjusted incidence of 3,530 COVID-19 cases per 100,000 or approximately 4 in every 100 AI/ANs in the San Jose Service Area were diagnosed with COVID-19. Compared to their non-Hispanic White counterparts of similar age, there was not a statistically significant difference in the rate of COVID-19 infections among AI/AN individuals.

#### **COVID-19 Hospitalizations**

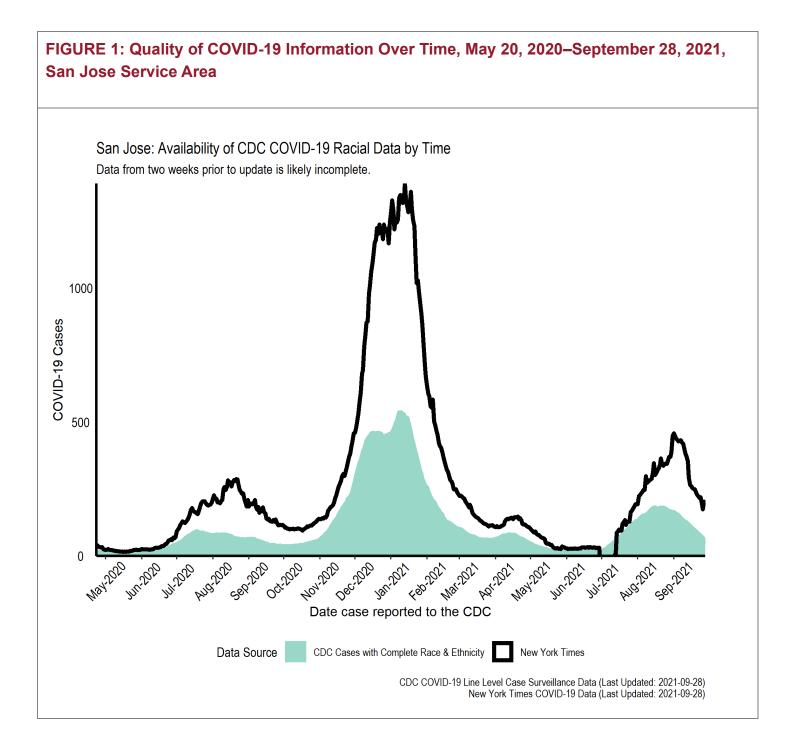
Since January 20, 2020, a total of 15 Al/ANs residing in the San Jose UIO service county have been reported to the CDC as hospitalized with confirmed COVID-19. This corresponds to an ageadjusted incidence of 323 COVID-19 hospitalizations per 100,000 people. Compared to their non-Hispanic White counterparts of similar age, Al/AN individuals were 2.19 times more likely to be hospitalized with COVID-19.

#### **COVID-19 Deaths**

Since January 20, 2020 a total of <10 Al/ANs residing in the San Jose UIHO service county have been reported to the CDC as having died due COVID-19. As there were less than 10 Al/ANs deaths we do not compute incidences or relative risks.

#### **Data Quality**

Of the 141,944 total COVID-19 cases reported by the New York Times in the San Jose UIO service county, the CDC has complete race and ethnicity available for 61,054 (43.0%) of cases. This report does not contain information regarding whether COVID-19 hospitalizations or deaths were reported to the CDC. However, of the hospitalizations and deaths in the CDC data, there is complete racial information available for 56.6% and 70.8% of cases, respectively.



# TABLE 1: Overall Data Quality for San Jose Service Area COVID-19 Data,January 20, 2020–September 28, 2021

Data Quality Element	Data Source	Subset	# of COVID-19 Cases	Percent Completion	
Completeness of Race &	CDC	Case Reported to CDC with Complete Race & Ethnicity	61,054	43.0%	
Ethnicity in CDC Dataset	CDC	All Cases 141,899			
Completeness of Race & Ethnicity for Cases who	CDC	Case Hospitalized with Complete Race 4,018		56.6%	
were Hospitalized in CDC Dataset	CDC	All Hospitalized COVID-19 Patients 7,098			
Completeness of Race & Ethnicity for Cases who	CDC	COVID-19 Case Died with Complete Race & Ethnicity	1,318	70.8%	
Died in CDC Dataset	CDC	All COVID-19 Cases who Died	1,861		
	CDC	All Cases	141,899	- 100.0%	
Cases Sent to the CDC	NYT	All Cases	141,944		
Completeness of CDC Racial Data in	CDC	Case Reported to CDC with Complete Race & Ethnicity	61,054	43.0%	
Comparison to All Known Cases	NYT	All Cases	141,944	43.0 %	

CDC = COVID-19 Case Surveillance Data Centers for Disease Control & Prevention, NYT = New York Times \*Due to discrepancies in data reporting, CDC occasionally has greater cases than as reported by the New York Times

# TABLE 2: Incidence of COVID-19 among Non-Hispanic American Indians and Alaska Natives (Al/ANs) and Non-Hispanic Whites (NHWs), January 20, 2020– September 28, 2021, San Jose Service Area

	Geography	AI/AN Cases	AI/AN Population	<b>AI/AN</b> Age-adjusted Incidence per 100k (95% CI)	NHW Age-adjusted Incidence per 100k (95% CI)	Relative Risk Age-adjusted (95% Cl)
OVERALL	UIO Service Area	139	3,777	3,530 (2,990, 4,169)	3,320 (3,270, 3,371)	1.06 (0.90, 1.26)*
	State Overall	11,036	160,801	6,335 (6,218, 6,455)	5,056 (5,044, 5,069)	1.25 (1.23, 1.28)
BY SEX						
Female	UIO Service Area	73	1,834	3,758 (2,989, 4,726)	3,271 (3,200, 3,344)	1.15 (0.91, 1.45)*
	State Overall	5,873	81,454	6,512 (6,347, 6,681)	5,129 (5,111, 5,147)	1.27 (1.24, 1.30)
Male	UIO Service Area	65	1,943	3,258 (2,556, 4,152)	3,310 (3,240, 3,382)	0.98 (0.77, 1.26)
	State Overall	5,086	79,347	6,055 (5,890, 6,224)	4,925 (4,907, 4,943)	1.23 (1.20, 1.26)
Other or Unknown	UIO Service Area	<10	NA	NA	NA	NA
	State Overall	77	NA	NA	NA	NA
BY AGE						
0–19	UIO Service Area	<10	934	Suppressed	2,994 (2,886, 3,106)	Suppressed
	State Overall	2,239	35,730	6,266 (6,012, 6,531)	4,311 (4,285, 4,337)	1.45 (1.39, 1.52)
20–54	UIO Service Area	91	1,731	5,257 (4,281, 6,456)	3,976 (3,899, 4,055)	1.32 (1.08, 1.63)*
	State Overall	6,371	75,299	8,461 (8,256, 8,671)	6,612 (6,592, 6,632)	1.28 (1.25, 1.31)
55+	UIO Service Area	39	1,112	3,507 (2,562, 4,800)	3,021 (2,949, 3,095)	1.16 (0.85, 1.59)*
	State Overall	2,426	49,772	4,874 (4,684, 5,072)	4,463 (4,446, 4,481)	1.09 (1.05, 1.14)
Unknown	UIO Service Area	<10	NA	NA	NA	NA
	State Overall	<10	NA	NA	NA	NA

# TABLE 3: Incidence of COVID-19 Hospitalizations among Non-Hispanic American Indians and Alaska Natives (AI/ANs) and Non-Hispanic Whites (NHWs), January 20, 2020 – September 28, 2021, San Jose Service Area

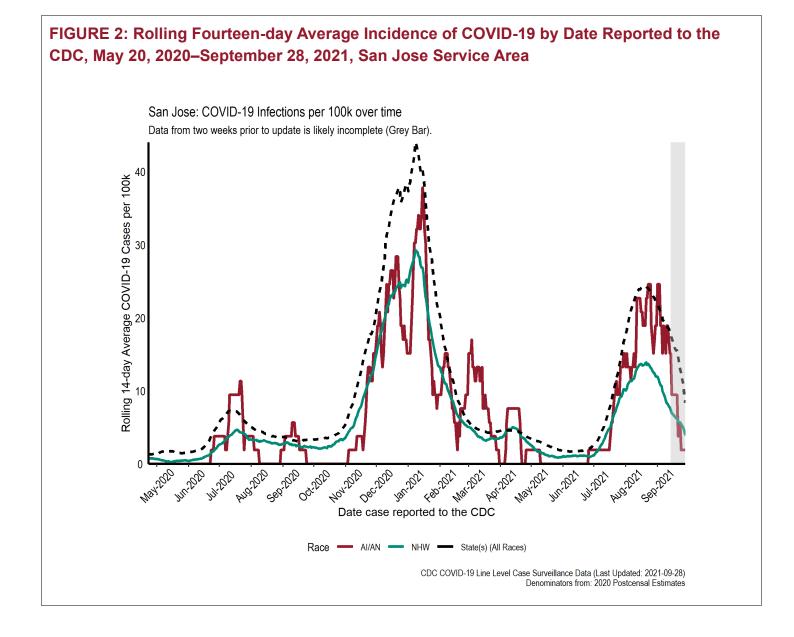
	Geography	Al/AN Cases	AI/AN Population	AI/AN Age-adjusted Incidence per 100k (95% CI)	NHW Age-adjusted Incidence per 100k (95% CI)	Relative Risk Age-adjusted (95% CI)
OVERALL	UIO Service Area	15	3,777	323 (194, 537)*	147 (134, 162)	2.19 (1.32, 3.64)*
	State Overall	671	160,801	289 (267, 312)	209 (205, 213)	1.38 (1.28, 1.49)
BY SEX						
Female	UIO Service Area	<10	1,834	Suppressed	135 (117, 156)	Suppressed
	State Overall	319	81,454	280 (250, 313)	199 (194, 204)	1.40 (1.26, 1.57)
Male	UIO Service Area	<10	1,943	Suppressed	158 (139, 178)	Suppressed
	State Overall	352	79,347	297 (267, 330)	216 (210, 222)	1.37 (1.24, 1.53)
Other or Unknown	UIO Service Area	<10	NA	NA	NA	NA
	State Overall	<10	NA	NA	NA	NA
BY AGE						
0–19	UIO Service Area	<10	934	Suppressed	41 (30, 56)	Suppressed
	State Overall	15	35,730	42 (25, 70)*	35 (32, 37)	1.21 (0.73, 2.02)*
20–54	UIO Service Area	<10	1,731	Suppressed	105 (93, 119)	Suppressed
	State Overall	239	75,299	317 (280, 360)	177 (174, 180)	1.79 (1.58, 2.04)
55+	UIO Service Area	<10	1,112	Suppressed	466 (439, 496)	Suppressed
	State Overall	417	49,772	838 (761, 922)	764 (757, 771)	1.10 (1.00, 1.21)*
Unknown	UIO Service Area	<10	NA	NA	NA	NA
	State Overall	<10	NA	NA	NA	NA

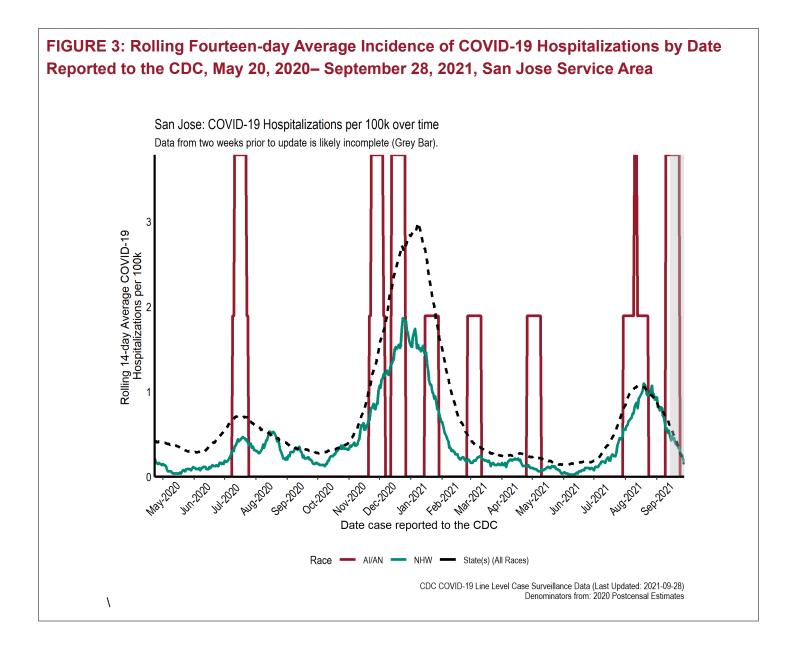
# TABLE 4: Incidence of COVID-19 Deaths among Non-Hispanic American Indians and Alaska Natives (AI/ANs) and Non-Hispanic Whites (NHWs), January 20, 2020–September 28, 2021, San Jose Service Area

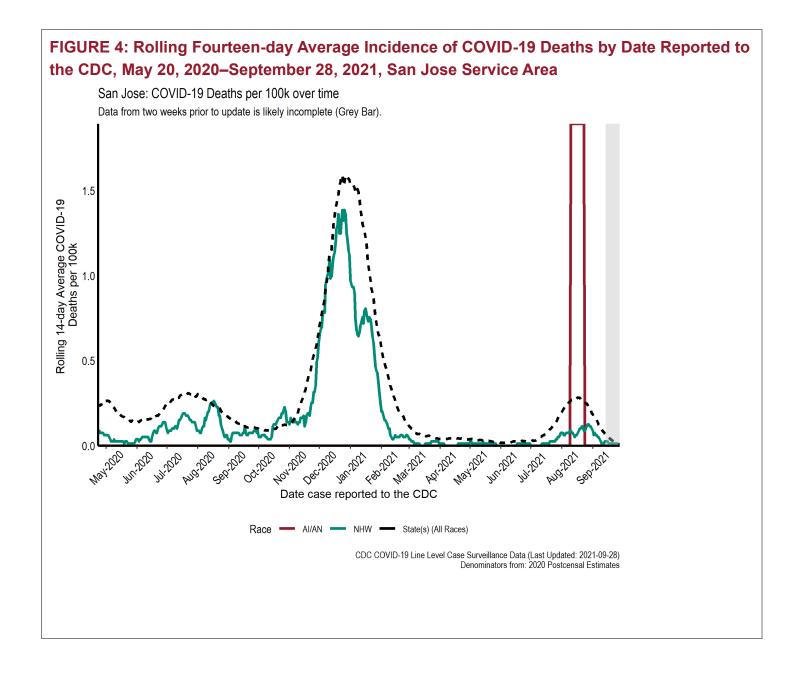
	Geography	AI/AN Cases	AI/AN Population	AI/AN Age-adjusted Incidence per 100k (95% CI)	NHW Age-adjusted Incidence per 100k (95% CI)	Relative Risk, Age-adjusted (95% CI)
OVERALL	UIO Service Area	<10	3,777	Suppressed	16 (11, 24)	Suppressed
	State Overall	246	160,801	29 (24, 37)	20 (17, 24)	1.48 (1.31, 1.68)
BY SEX						
Female	UIO Service Area	<10	1,834	Suppressed	14 (9, 24)	Suppressed
	State Overall	115	81,454	27 (21, 36)	17 (14, 21)	1.61 (1.34, 1.93)
Male	UIO Service Area	<10	1,943	Suppressed	23 (15, 35)	Suppressed
	State Overall	131	79,347	34 (26, 45)	24 (20, 30)	1.41 (1.18, 1.67)*
Other or Unknown	UIO Service Area	<10	NA	NA	NA	NA
	State Overall	<10	NA	NA	NA	NA
BY AGE						
0–19	UIO Service Area	<10	934	Suppressed	Suppressed	Suppressed
	State Overall	<10	35,730	Suppressed	1 (0, 1)	Suppressed
20–54	UIO Service Area	<10	1,731	Suppressed	9 (6, 14)	Suppressed
	State Overall	36	75,299	48 (34, 66)	17 (16, 18)	2.83 (2.03, 3.94)
55+	UIO Service Area	<10	1,112	Suppressed	232 (213, 253)	Suppressed
	State Overall	210	49,772	422 (369, 483)	374 (369, 379)	1.13 (0.98, 1.29)*
Unknown	UIO Service Area	<10	NA	NA	NA	NA
	State Overall	<10	NA	NA	NA	NA

# TABLE 5: Incidence of COVID-19 among Non-Hispanic America Indians/Alaska Natives (AI/AN) and Non-Hispanic Whites (NHW), January 20, 2020–September 28, 2021, San Jose Service Area

County	Geography	AI/AN Cases	AI/AN Population	Al/AN Age-adjusted Incidence per 100k (95% Cl)	NHW Age-adjusted Incidence per 100k (95% CI)	Relative Risk Age-adjusted (95% Cl)
Santa Clara	County	139	3,777	3,530 (2,990, 4,169)	3,320 (3,270, 3,371)	1.06 (0.90, 1.26)*
All California	State	11,036	160,801	6,335 (6,218, 6,455)	5,056 (5,044, 5,069)	1.25 (1.23, 1.28)







To request technical assistance in interpreting this report, or to request additional information, email Scott Erickson at <a href="mailto:scotte@uihi.org">scotte@uihi.org</a>

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