COVID-19 Watch

Prepared by Epidemiology and Immunization Services Branch
www.sdepi.org

September 1, 2022

Cases 910,352
Deaths 5,456
Outbreaks 4,660

Report Content Links
Page 2: Summary
Page 3: COVID-19 Infections by Vaccination Status
Page 4: COVID-19 Hospitalizations by Vaccination Status
Page 5: COVID-19 Deaths by Vaccination Status
Page 6: COVID-19 Spread in San Diego County: R-effective Trend
Page 7: Daily COVID-19 Counts by Vaccination Status – Previous 3 Months
Page 8: Weekly COVID-19 Counts by Age – Previous 3 Months
Page 9: Selected Characteristics of COVID-19 Cases, Hospitalizations, and Deaths
Page 10: Age-Adjusted COVID-19 Case Rates by Race/Ethnicity
Page 11: Age-Adjusted COVID-19 Hospitalization Rates by Race/Ethnicity
Page 12: Case Rates by Zip Code of Residence
Page 13: Number of Vaccinations Administered and Cumulative Number of Persons Fully Vaccinated Percent Fully Vaccinated by Zip Code of Residence
Page 14: COVID-19 Vaccinations by Race/Ethnicity and Health Equity
Page 15: COVID-19 Cases in Children and Outbreaks by Setting
Page 16: COVID-19 Laboratory Test Positivity Rate – Previous 12 Months Emergency Department Data – Previous 12 Months
Page 17: COVID-19 Pandemic at a Glance

Please visit the COVID-19 data dashboards, which debuted on the County of San Diego COVID-19 website on March 16, 2022. They include much of the same data as the COVID-19 Watch, but in a more interactive format.
Figure 1. COVID-19 Confirmed and Probable Cases and 7-Day Rolling Average Case Rate by Episode Date*, San Diego County Residents, N=132,374

Table 1. Summary of Cases, Deaths, and Outbreaks by Date Reported

<table>
<thead>
<tr>
<th></th>
<th>8/21– 8/27/2022</th>
<th>8/14– 8/20/2022</th>
<th>Cumulative</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Cases</strong></td>
<td>4,199 (↓)</td>
<td>5,007</td>
<td>910,352</td>
</tr>
<tr>
<td><strong>Avg Daily Cases</strong></td>
<td>600 (↓)</td>
<td>715</td>
<td>1,008</td>
</tr>
<tr>
<td><strong>Deaths</strong></td>
<td>8 (↓)</td>
<td>11</td>
<td>5,456</td>
</tr>
<tr>
<td><strong>Outbreaks</strong></td>
<td>13 (↓)</td>
<td>23</td>
<td>4,660</td>
</tr>
</tbody>
</table>
COVID-19 WATCH

COVID-19 Infections by Vaccination Status

Case rate for not fully vaccinated residents is 2 times higher than those fully vaccinated + booster residents.

<table>
<thead>
<tr>
<th>Vaccination Status</th>
<th>Case Rate (per 100K - 12+ yrs)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Not Fully Vaccinated*</td>
<td>50.51</td>
</tr>
<tr>
<td>Fully Vaccinated†</td>
<td>17.20</td>
</tr>
<tr>
<td>Fully Vaccinated + Booster‡</td>
<td>25.46</td>
</tr>
</tbody>
</table>

Dates: 8/7-8/13/2022

Table 2. COVID-19 Cases by Vaccination Status Among All San Diego County Residents with Episode Dates during Previous Three Months

<table>
<thead>
<tr>
<th></th>
<th>Not Fully Vaccinated*</th>
<th>Fully Vaccinated†</th>
<th>Fully Vaccinated + Booster‡</th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cases</td>
<td>39,301 (35.3%)</td>
<td>23,778 (21.3%)</td>
<td>48,359 (43.4%)</td>
<td>111,438</td>
</tr>
<tr>
<td>Hospitalizations</td>
<td>1,061 (33.1%)</td>
<td>796 (24.9%)</td>
<td>1,345 (42.0%)</td>
<td>3,202</td>
</tr>
<tr>
<td>Deaths</td>
<td>31 (31.3%)</td>
<td>28 (28.3%)</td>
<td>40 (40.4%)</td>
<td>99</td>
</tr>
</tbody>
</table>

According to CDC, several factors likely affect crude case rates by vaccination and booster dose status, making interpretation of recent trends difficult.

* Not fully vaccinated includes individuals with one dose of the two-dose series, no doses, or unknown vaccination status. Individuals who are not yet eligible for the vaccine are also included.

† Cases who first tested positive (based on specimen collection date) greater than or equal to 14 days after receiving the final dose of COVID-19 vaccine.

‡ Cases who first tested positive (based on specimen collection date) greater than or equal to 14 days after receiving a booster dose of COVID-19 vaccine at least 2 months after a J&J vaccine or 5 months after a Pfizer or Moderna vaccine series.

§ Episode date is the earliest of the following available dates: symptom onset date, specimen collection date, date of death, date reported.

¶ Percentages are among total cases, hospitalizations, and deaths for the time period. Cases with recent infection or onset dates may not yet be reported and vaccination data for recently reported cases may be incomplete. Hospitalizations and deaths from the last 14 days may not yet be reported. To account for this, data for the most recent two weeks are not included.

San Diego County Population from SANDAG 2019 Population Estimates (Prepared June 2020). The fully vaccinated population and the boosted population for each day is the cumulative number of county residents documented to have received the final or booster dose of COVID-19 vaccine at least 14 days prior to that day. The not fully vaccinated population is the estimated total county population minus the fully vaccinated and boosted populations.

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Page 3
COVID-19 Hospitalizations by Vaccination Status

<table>
<thead>
<tr>
<th>Vaccination Status</th>
<th>Hospitalization Rate (per 100K - 12+ yrs)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Not Fully Vaccinated*</td>
<td>3.45</td>
</tr>
<tr>
<td>Fully Vaccinated†</td>
<td>1.12</td>
</tr>
<tr>
<td>Fully Vaccinated + Booster‡</td>
<td>1.44</td>
</tr>
</tbody>
</table>

Dates: 7/24-8/6/2022

Hospitalization rate for not fully vaccinated residents is 2 times higher than fully vaccinated + booster residents.

According to CDC, several factors likely affect crude case rates by vaccination and booster dose status, making interpretation of recent trends difficult. Limitations include higher prevalence of previous infection among the unvaccinated and un-boosted groups; difficulty in accounting for time since vaccination and waning protection; and possible differences in testing practices (such as at-home tests) and prevention behaviors by age and vaccination status.

*Not fully vaccinated includes individuals with one dose of the two-dose series, no doses, or unknown vaccination status. Individuals who are not yet eligible for the vaccine are also included.

†Cases who first tested positive (based on specimen collection date) greater than or equal to 14 days after receiving the final dose of COVID-19 vaccine.

‡Cases who first tested positive (based on specimen collection date) greater than or equal to 14 days after receiving a booster dose of COVID-19 vaccine at least 2 months after a J&J vaccine or 5 months after a Pfizer or Moderna vaccine series.

San Diego County Population from SANDAG 2019 Population Estimates (Prepared June 2020). The fully vaccinated population for each day is the cumulative number of county residents documented to have received the final dose of COVID-19 vaccine at least 14 days prior to that day. The not fully vaccinated population is the estimated total county population minus the fully vaccinated population.
COVID-19 Deaths by Vaccination Status

Death rate for not fully vaccinated residents is **3 times higher** than fully vaccinated + booster residents.

<table>
<thead>
<tr>
<th>Vaccination Status</th>
<th>Death Rate (per million – 12+ yrs)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Not Fully Vaccinated*</td>
<td>1.22</td>
</tr>
<tr>
<td>Fully Vaccinated†</td>
<td>0.63</td>
</tr>
<tr>
<td>Fully Vaccinated + Booster‡</td>
<td>0.44</td>
</tr>
</tbody>
</table>

Dates: 7/10-8/6/2022

* Not fully vaccinated includes individuals with one dose of the two-dose series, no doses, or unknown vaccination status. Individuals who are not yet eligible for the vaccine are also included.
† Cases who first tested positive (based on specimen collection date) greater than or equal to 14 days after receiving the final dose of COVID-19 vaccine.
‡ Cases who first tested positive (based on specimen collection date) greater than or equal to 14 days after receiving a booster dose of COVID-19 vaccine at least 2 months after a J&J vaccine or 5 months after a Pfizer or Moderna vaccine series.

Figure 4. 28-Day Rolling Average COVID-19 Death Rate by Vaccination Status in San Diego County Residents Age 12 Years and Older in the Previous Three Months

*Not fully vaccinated includes individuals with one dose of the two-dose series, no doses, or unknown vaccination status. Individuals who are not yet eligible for the vaccine are also included.
† Cases who first tested positive (based on specimen collection date) greater than or equal to 14 days after receiving the final dose of COVID-19 vaccine.
‡ Cases who first tested positive (based on specimen collection date) greater than or equal to 14 days after receiving a booster dose of COVID-19 vaccine at least 2 months after a J&J vaccine or 5 months after a Pfizer or Moderna vaccine series.

San Diego County Population from SANDAG 2019 Population Estimates (Prepared June 2020). The fully vaccinated population for each day is the cumulative number of county residents documented to have received the final dose of COVID-19 vaccine at least 14 days prior to that day. The not fully vaccinated population is the estimated total county population minus the fully vaccinated population.
The effective reproduction number (R effective or R-eff) is the average number of people each infected person will pass the virus onto and represents the rate at which a virus is spreading. If R-eff >1, the number of infected persons will increase. If R-eff <1, the number of infected persons will decrease. If R-eff =1, the number of infected persons is constant.

R effective should be interpreted with caution. It is based on a theoretical set of assumptions to derive an average number across San Diego County. It does not take into account factors such as local population density or social behavior.

These R effective estimates come from the California COVID Assessment Tool Nowcasts (https://calcat.covid19.ca.gov/cacovidmodels/). Each estimate on the graph comes from a different group with different modeling methods. The ensemble takes the median of all the nowcasts available on a given date and smooths it with a three-day moving average.

Figure 5. R-effective Trend in San Diego County Over the Past Three Months

Latest estimate of R-effective is:

0.87

Spread of COVID-19 is likely decreasing

Source: https://calcat.covid19.ca.gov/cacovidmodels/
Figures 6-8. Daily COVID-19 Counts by Vaccination Status – Previous 3 Months

Data for this period may be incomplete.

- Confirmed Cases
- Hospitalizations
- Deaths

Confirmed Cases

Hospitalizations

Deaths

Data through 8/27/2022

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Data for this period may be incomplete.

- **Confirmed Cases**
  - 0-11 years
  - 12-19 years
  - 20-39 years
  - 40-59 years
  - 60+ years

- **Hospitalizations**

- **Deaths**


Data through 8/27/2022

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Page 8
## COVID-19 Watch
### Weekly Coronavirus Disease 2019 (COVID-19) Surveillance Report

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**Page 9**

Data through 8/27/2022

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### Table 3. Confirmed Cases by Date Reported, Last Two Weeks vs. Cumulative

<table>
<thead>
<tr>
<th>Confirmed Cases</th>
<th>August 14, 2022 – August 27, 2022</th>
<th>February 14, 2020 – August 27, 2022</th>
</tr>
</thead>
<tbody>
<tr>
<td>Confirmed cases</td>
<td>9,206</td>
<td>910,352</td>
</tr>
<tr>
<td>Median age</td>
<td>40 years</td>
<td>34 years</td>
</tr>
<tr>
<td>Age range</td>
<td>0-100+ years</td>
<td>0-100+ years</td>
</tr>
<tr>
<td>Male</td>
<td>4,231 (47%)</td>
<td>429,194 (48%)</td>
</tr>
<tr>
<td>Female</td>
<td>4,810 (53%)</td>
<td>472,570 (52%)</td>
</tr>
<tr>
<td>PEH*</td>
<td>54 (0.6%)</td>
<td>2,744 (0.3%)</td>
</tr>
</tbody>
</table>

Note: Includes persons known to be experiencing homelessness (PEH) based on available information but does not present a comprehensive picture of PEH diagnosed with COVID-19. Data are not complete due to a move away from universal case investigation and contact tracing.

### Table 4. Confirmed Hospitalizations by Date of Admission, Last Two Weeks vs. Cumulative

<table>
<thead>
<tr>
<th>Hospitalizations</th>
<th>August 14, 2022 – August 27, 2022</th>
<th>February 14, 2020 – August 27, 2022</th>
</tr>
</thead>
<tbody>
<tr>
<td>Hospitalizations</td>
<td>26 (0.3%)</td>
<td>33,973 (4%)</td>
</tr>
<tr>
<td>Median age</td>
<td>72 years</td>
<td>62 years</td>
</tr>
<tr>
<td>Age range</td>
<td>27-97 years</td>
<td>0-100+ years</td>
</tr>
<tr>
<td>Male</td>
<td>13 (50%)</td>
<td>17,665 (52%)</td>
</tr>
<tr>
<td>Female</td>
<td>13 (50%)</td>
<td>16,254 (48%)</td>
</tr>
<tr>
<td>PEH*</td>
<td>0 (0%)</td>
<td>628 (2%)</td>
</tr>
</tbody>
</table>

Sex is unknown for 0 hospitalization for the last two weeks and for 54 hospitalizations cumulatively.

Note: Percentage hospitalized is calculated based on the total number of cases; information may be unknown in some cases. Hospitalization counts are likely underreported and may increase as additional information is obtained.

### Table 5. Confirmed Deaths by Date of Death, Last Two Weeks vs. Cumulative

<table>
<thead>
<tr>
<th>Deaths</th>
<th>August 14, 2022 – August 27, 2022</th>
<th>February 14, 2020 – August 27, 2022</th>
</tr>
</thead>
<tbody>
<tr>
<td>Deaths</td>
<td>5</td>
<td>5,456</td>
</tr>
<tr>
<td>Case Fatality Ratio</td>
<td>N/A†</td>
<td>0.6%</td>
</tr>
<tr>
<td>Underlying Conditions‡</td>
<td>5 (100%)</td>
<td>5,216 (96%)</td>
</tr>
<tr>
<td>Median age</td>
<td>83 years</td>
<td>76 years</td>
</tr>
<tr>
<td>Age range</td>
<td>67-94 years</td>
<td>10-100+ years</td>
</tr>
<tr>
<td>Male</td>
<td>4 (80%)</td>
<td>3,263 (60%)</td>
</tr>
<tr>
<td>Female</td>
<td>1 (20%)</td>
<td>2,193 (40%)</td>
</tr>
<tr>
<td>PEH*</td>
<td>0 (0%)</td>
<td>41 (0.8%)</td>
</tr>
</tbody>
</table>

*PEH = Persons Experiencing Homelessness.
†Data are incomplete for this time period.
‡Refer to the graph on page 18 for more details.

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Data through 8/27/2022

Page 9
Age-Adjusted COVID-19 Case Rates by Race/Ethnicity

Figure 12. Age-Adjusted Rates of Confirmed Cases by Race/Ethnicity, San Diego County Residents

- Hispanic/Latino: 3,156
- White: 2,085
- Black: 3,019
- Asian: 3,088
- NHPI*: 7,938
- AIAN*: 2,011
- Multiple Race: 471*
- All County Residents: 2,576

The black lines represent the 95% confidence intervals (error bars). Rates are not calculated for fewer than 20 events.

*NHPI=Native Hawaiian/Pacific Islander, AIAN=American Indian/Alaska Native.

Figure 13. Age-Adjusted Rates of Confirmed Cases by Race/Ethnicity, San Diego County Residents

- Hispanic/Latino: 29,951
- White: 16,617
- Black: 21,112
- Asian: 17,002
- NHPI*: 56,033
- AIAN*: 16,466
- Multiple Race: 5,262
- All County Residents: 20,914

The black lines represent the 95% confidence intervals (error bars). Rates are not calculated for fewer than 20 events.

*NHPI=Native Hawaiian/Pacific Islander, AIAN=American Indian/Alaska Native.
Age-Adjusted COVID-19 Hospitalization Rates by Race/Ethnicity

Figure 14. Age-Adjusted Rates of Hospitalizations by Race/Ethnicity, San Diego County Residents

Figure 15. Age-Adjusted Rates of Hospitalizations by Race/Ethnicity, San Diego County Residents

The black lines represent the 95% confidence intervals (error bars).

Rates are not calculated for fewer than 20 events. Hospitalization rates were not calculated for the last three months for AI/AN because this category have fewer than 20 events.

*NHPI=Native Hawaiian/Pacific Islander, AIAN=American Indian/Alaska Native.
Data through 8/27/2022

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COVID-19 WATCH

Figure 16. Confirmed Case Rate by Zip Code of Residence, 8/14/2022-8/27/2022, San Diego County
(Countywide Rate = 275 per 100,000 Population)

Figure 17. Cumulative Confirmed Case Rate by Zip Code of Residence, San Diego County
(Countywide Rate = 27,160 per 100,000 Population)

Rates calculated using 2019 population estimates from the San Diego Association of Governments. Rates not calculated for counts under 5 cases or populations less than 10,000. Zip code is zip code of residence, which may not be location of exposure. Case counts and rates for each zip code are updated routinely on the County of San Diego COVID-19 website.
Beginning 3/16/22, the maps use quartiles to categorize the data rather than natural breaks.
COVID-19 Vaccinations

Figure 18. Number of COVID-19 Vaccinations Administered and Cumulative Number of Persons Fully Vaccinated by Week Among San Diego County Residents

The bars show vaccines administered, not individuals vaccinated. The line shows the cumulative number of persons fully vaccinated per the dose and schedule regimen for the vaccine received. The San Diego Immunization Registry (SDIR) transitioned to the California Immunization Registry (CAIR2) on Monday, April 25, 2022. All vaccination data is now being pulled from CAIR2. Due to differences in the programming of each system, the overall count of vaccinations, count of vaccinated individuals, and demographic data may differ slightly from previously-reported data.

Figure 19. Percentage of the Total Population of San Diego County Residents Who are Fully Vaccinated, by Zip Code of Residence

Only includes vaccines that have been recorded in the California Immunization Registry (CAIR2). Some healthcare providers, including Veteran’s Affairs, the Department of Defense, some tribal entities, and prisons do not report to CAIR2. See this dashboard, updated daily, for more detailed vaccine status information for San Diego County.


Data through 8/27/2022

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Page 13
COVID-19 Vaccinations by Race/Ethnicity and Health Equity

**Figure 20. Vaccination Status by Race/Ethnicity, San Diego County Residents**

<table>
<thead>
<tr>
<th>Race/Ethnicity</th>
<th>Fully Vaccinated + Booster</th>
<th>Fully Vaccinated</th>
<th>Partially Vaccinated</th>
<th>Not Vaccinated</th>
</tr>
</thead>
<tbody>
<tr>
<td>AI/AN</td>
<td>56%</td>
<td>6%</td>
<td>45%</td>
<td>24%</td>
</tr>
<tr>
<td>Asian</td>
<td>21%</td>
<td>23%</td>
<td>5%</td>
<td>5%</td>
</tr>
<tr>
<td>Black</td>
<td>5%</td>
<td>5%</td>
<td>35%</td>
<td>49%</td>
</tr>
<tr>
<td>Hispanic or Latino</td>
<td>11%</td>
<td>9%</td>
<td>44%</td>
<td>32%</td>
</tr>
<tr>
<td>NHPI</td>
<td>18%</td>
<td>44%</td>
<td>99%</td>
<td>5%</td>
</tr>
<tr>
<td>Other/Multiple Race*</td>
<td>27%</td>
<td>23%</td>
<td>25%</td>
<td>46%</td>
</tr>
<tr>
<td>White</td>
<td>21%</td>
<td>21%</td>
<td>23%</td>
<td>25%</td>
</tr>
</tbody>
</table>

**Figure 21. Vaccination Progress by Healthy Places Index Quartile, San Diego County Residents**

<table>
<thead>
<tr>
<th>Quartile</th>
<th>Least Healthy</th>
<th>Most Healthy</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>850,049</td>
<td>816,687</td>
</tr>
<tr>
<td>2</td>
<td>785,150</td>
<td>848,843</td>
</tr>
<tr>
<td>3</td>
<td>424,832</td>
<td>23,843</td>
</tr>
<tr>
<td>4</td>
<td>50,374</td>
<td>17,745</td>
</tr>
</tbody>
</table>

*The California Healthy Places Index. Beginning 6/9/2022, HPI 3.0 is used instead of HPI 2.0. The change in methodology may affect the percentages. In addition, note that the order of the quartiles, reflecting least to most healthy, has been reversed.

^The percentage and rate of the population vaccinated with at least one dose of COVID-19 vaccine may approach, or exceed, 99% or 999 per 1,000 San Diego residents. The most recent race/ethnicity populations are 2019 estimates, which may underestimate the current population. When these demographics are analyzed, the population estimates may not reflect social and environmental changes of a community, possibly leading to an under- or overestimate of a population.

Individuals vaccinated by Veterans Affairs or Department of Defense are not included.

COVID-19 Cases in Children and Outbreaks by Setting

**Figure 22. COVID-19 Confirmed Cases for Ages 0-18 Years by Week of Episode Date,**
San Diego County Residents, N=18,657

Week Ending

- 0-5 years
- 6-11 years
- 12-14 years
- 15-18 years

*Episode date is the earliest of the following available dates: symptom onset date, specimen collection date, date of death, date reported.

**Figure 23. COVID-19 Outbreaks by Date of Onset, N=258**

Week Ending

- TK-12th Grade*
- Community
- Acute Care Hospital
- Non-SNF† Congregate
- SNF†

*Due to widespread use of self-administered antigen tests, available school outbreak data are not considered representative of current activity.
†Skilled Nursing Facility

Data through 8/27/2022
COVID-19 Laboratory Test Positivity Rate – Previous 12 Months

Figure 24. COVID-19 Testing Volume and Positivity by Week of Specimen Collection, San Diego County

Includes PCR tests performed by COSD Public Health, hospital, and reference laboratories and reported via Electronic Laboratory Reporting (ELR) and line lists. Excludes invalid, indeterminate, and unsatisfactory results.

Emergency Department Data – Previous 12 Months

Figure 25. Percent of Emergency Department Visit Chief Complaints for ILL, Respiratory Symptoms, or COVID-like Illness* by Week, San Diego County

Categories are not mutually exclusive. *COVID-like Illness includes fever and cough, shortness of breath, or difficulty breathing OR coronavirus diagnostic codes.
COVID-19 Pandemic at a Glance

Figure 26. COVID-19 Confirmed and Probable Cases by Week of Episode Date*, San Diego County Residents, N=980,218

*Episode date is the earliest of the following available dates: symptom onset date, specimen collection date, date of death, date reported.
**Probable cases are antigen positive tests received since August 1, 2020.

Figure 27. COVID-19 Deaths by Week of Death, San Diego County Residents, N=5,456

Data for this period may be incomplete.
Figure 28. Age-Adjusted Rates of COVID-19-associated Deaths by Race/Ethnicity, San Diego County Residents, N=5,332*

<table>
<thead>
<tr>
<th>Race/Ethnicity</th>
<th>Number of Deaths</th>
<th>Rate</th>
</tr>
</thead>
<tbody>
<tr>
<td>Hispanic / Latino</td>
<td>2,371</td>
<td>145.652</td>
</tr>
<tr>
<td>White</td>
<td>2,082</td>
<td>109.452</td>
</tr>
<tr>
<td>Black</td>
<td>229</td>
<td>132.908</td>
</tr>
<tr>
<td>Asian</td>
<td>525</td>
<td>31.275</td>
</tr>
<tr>
<td>NHPI**</td>
<td>45</td>
<td>8.797</td>
</tr>
<tr>
<td>AI/AN**</td>
<td>27</td>
<td>5.067</td>
</tr>
<tr>
<td>Multiple Race</td>
<td>53</td>
<td>5.067</td>
</tr>
<tr>
<td>All County Residents</td>
<td>5,332</td>
<td>145.652</td>
</tr>
</tbody>
</table>

The black lines represent the 95% confidence intervals (error bars). Rates are not calculated for fewer than 20 events.
*Race/ethnicity are unknown for 124 deaths.
**NHPI=Native Hawaiian/Pacific Islander, AIAN=American Indian/Alaska Native.

Figure 29. Common Underlying Conditions, COVID-19-associated Deaths

- Hypertension: 41%
- Diabetes: 34%
- Cardiac Disease: 26%
- Dementia/Alzheimer’s: 17%
- Chronic Kidney Disease: 16%
- COPD/Asthma: 13%
- Obesity: 10%
- Immunocompromised: 7%
- No Underlying Condition: 3%

Persons may have more than one underlying condition. These data are abstracted from death certificates and available medical records and may not reflect a complete list of underlying conditions for each person.
The purpose of the weekly COVID-19 Watch is to summarize current COVID-19 surveillance in San Diego County.

Data are preliminary and may change due to delayed reporting and additional information obtained during investigations.

For information on influenza in San Diego County, please see the weekly Influenza Watch surveillance report. Additional influenza data and resources and a link to subscribe to the Influenza Watch are available on the Epidemiology Unit website.

Note: Starting 3/9/2022, the figures, Potential Exposure Settings and Community Setting Outbreaks, (formerly Figures 18 and 19 on page 13) are no longer included due to a move from universal case investigation and contact tracing to reprioritization of high-risk individuals and settings. The figures Cases Physically Present at K-12 Schools During Exposure Period and Cases Physically Present at K-12 Schools During Communicable Period (formerly Figures 26 and 27 on page 17) are no longer included due to increased use of home antigen test and changes to school-based case investigations and contact tracing.