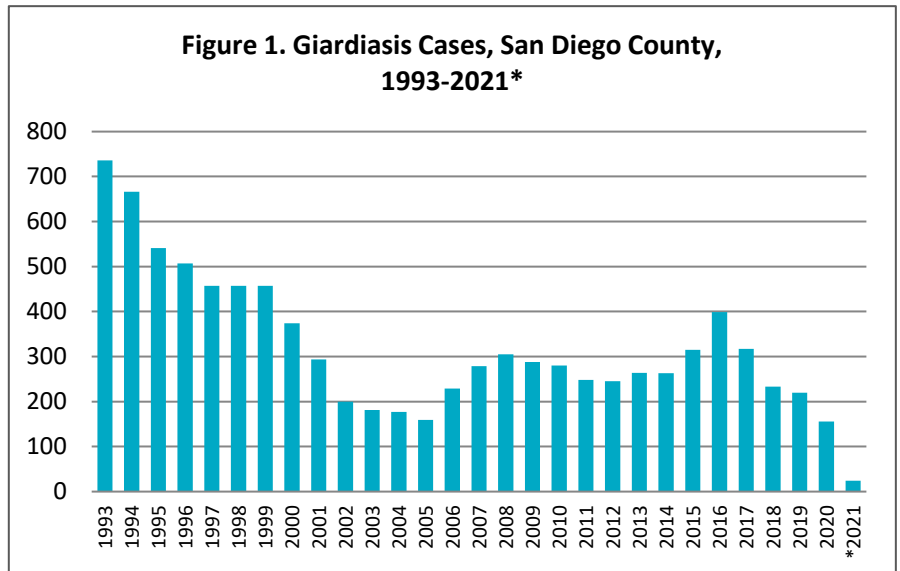


### GIARDIASIS

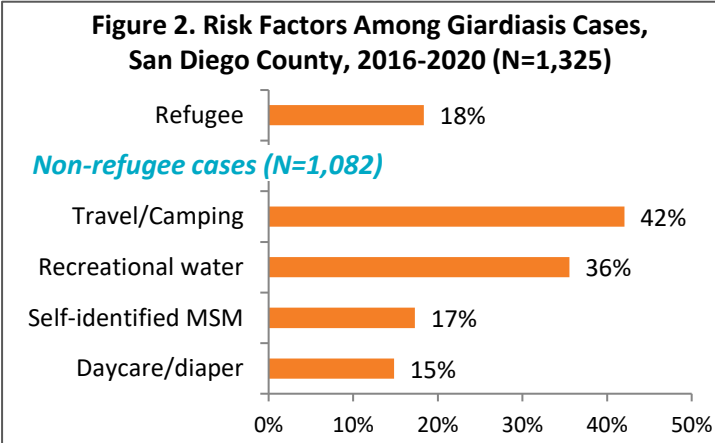
Giardiasis is an intestinal infection caused by the protozoan parasite *Giardia intestinalis* (also known as *Giardia lamblia* or *Giardia duodenalis*). Symptoms, which may include diarrhea, gas, bloating, abdominal cramps, nausea, and dehydration, usually begin one to three weeks after infection and may last two to four weeks or longer. Nearly 50% of infections are asymptomatic.

*Giardia* are transmitted fecal-orally. People often become infected after swallowing *Giardia* cysts in contaminated food or water. Contact with recreational water and consumption of untreated drinking water (e.g., while camping or backpacking or traveling in developing countries) are frequent sources of exposure. During 2012-2017 in the United States (U.S.), waterborne and person-to-person exposures were the leading causes of 111 [giardiasis outbreaks](#) (760 cases) from 26 states. Private residences and child care facilities were the most common settings for these outbreaks. Transmission from [animal to person](#) is less likely because the type of *Giardia* that infects humans is usually different than that causing infection in dogs and cats.

Giardiasis is a common infection worldwide, though it is more prevalent in areas with poor sanitation. In the U.S., it is the most common human intestinal parasitic disease, causing an estimated [1.2 million infections](#) annually. In 2018, the national incidence rate was 4.8 cases per 100,000 persons (15,548 reported cases), compared to a rate of 6.6 (2,636 cases) in California and 7.0 (233 cases) in San Diego County.



\*2021 data are year-to-date; current as of 4/15/2021. Data are provisional and subject to change as additional information becomes available. Grouped by CDC disease years.



Risk factors are not confirmed sources of infection. Cases with missing data are excluded from non-refugee risk factor calculations (denominators range from 740-804), except MSM, which is a percentage of all non-refugee cases. Of adult men with complete information, 46% report sex with men. Data are provisional and subject to change as additional information becomes available.

Over the past five years, 18% of San Diego cases have been in refugees, who are routinely screened for giardiasis when they arrive in the U.S. Among non-refugee cases, travel or camping and recreational water were the most frequently-reported potential exposures. The median age of refugee cases was eight years, compared to 41 for non-refugee cases. Among all cases, 34% were under age 25 and 61% were male.

#### Resources

- [Centers for Disease Control and Prevention \(CDC\) Giardiasis website](#)
- [CDC Health Information for International Travel \(the Yellow Book\) - Giardiasis](#)
- [CDC Healthy Water website](#)
- [California Department of Public Health \(CDPH\) Giardiasis website](#)

The Monthly Communicable Disease Surveillance Report is a publication of the County of San Diego Public Health Services Epidemiology and Immunization Services Branch (EISB). EISB works to identify, investigate, register, and evaluate communicable, reportable, and emerging diseases and conditions to protect the health of the community. The purpose of this report is to present trends in communicable disease in San Diego County. To subscribe to this report, visit the [Statistics and Reports](#) page on the Epidemiology Program website ([www.sdepi.org](http://www.sdepi.org)) and click on the subscribe link.



# MONTHLY COMMUNICABLE DISEASE REPORT

MARCH 2021

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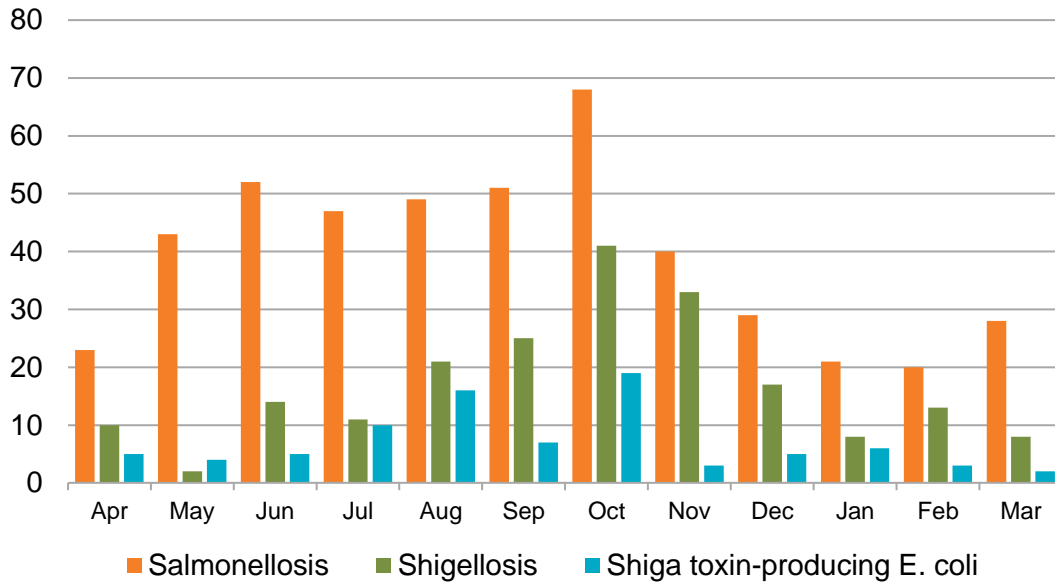


| Table 1. Select Reportable Diseases                   |       | 2021          |             |                    | Prior Years |                        |            |
|---|-------|---------------|-------------|--------------------|-------------|------------------------|------------|
|   |       | Current Month | Prior Month | Year-to-Date (YTD) | 2020 YTD    | Avg YTD, Prior 3 Years | 2020 Total |
| Botulism (Foodborne, Infant, Wound, Other)            | C,P   | 0             | 1           | 1                  | 0           | 1.3                    | 2          |
| Brucellosis   | C,P   | 0             | 0           | 0                  | 0           | 0.3                    | 0          |
| Campylobacteriosis                                    | C,P   | 75            | 49          | 156                | 142         | 161.7                  | 596        |
| Chickenpox, Hospitalization or Death                  | C,P   | 2             | 1           | 3                  | 0           | 0.3                    | 0          |
| Chikungunya   | C,P   | 0             | 0           | 0                  | 0           | 0.0                    | 1          |
| Coccidioidomycosis                                    | C     | 44            | 50          | 149                | 132         | 108.0                  | 278        |
| Cryptosporidiosis                                     | C,P   | 1             | 2           | 3                  | 14          | 12.7                   | 29         |
| Dengue Virus Infection                                | C,P   | 0             | 0           | 0                  | 2           | 1.3                    | 5          |
| Encephalitis, All                                     | C     | 2             | 1           | 7                  | 10          | 12.0                   | 26         |
| Giardiasis  | C,P   | 6             | 7           | 23                 | 41          | 61.3                   | 149        |
| Hepatitis A, Acute                                    | C     | 1             | 1           | 2                  | 12          | 10.3                   | 15         |
| Hepatitis B, Acute                                    | C     | 0             | 2           | 2                  | 2           | 2.7                    | 7          |
| Hepatitis B, Chronic                                  | C,P   | 77            | 60          | 210                | 209         | 223.7                  | 638        |
| Hepatitis C, Acute                                    | C,P   | 0             | 0           | 0                  | 23          | 12.7                   | 25         |
| Hepatitis C, Chronic                                  | C,P   | 240           | 85          | 502                | 989         | 1,042.7                | 2,714      |
| Legionellosis   | C     | 3             | 5           | 16                 | 10          | 12.7                   | 36         |
| Listeriosis   | C     | 0             | 0           | 0                  | 1           | 1.3                    | 17         |
| Lyme Disease  | C,P   | 1             | 1           | 4                  | 1           | 1.3                    | 1          |
| Malaria   | C     | 0             | 0           | 0                  | 5           | 2.7                    | 7          |
| Measles (Rubeola)                                     | C     | 0             | 0           | 0                  | 0           | 0.0                    | 0          |
| Meningitis, Aseptic/Viral                             | C,P,S | 2             | 8           | 12                 | 23          | 24.7                   | 61         |
| Meningitis, Bacterial                                 | C,P,S | 1             | 2           | 9                  | 8           | 11.7                   | 20         |
| Meningitis, Other/Unknown                             | C     | 1             | 0           | 1                  | 1           | 4.7                    | 6          |
| Meningococcal Disease                                 | C,P   | 0             | 0           | 0                  | 4           | 3.7                    | 4          |
| Mumps   | C,P   | 0             | 0           | 0                  | 15          | 8.7                    | 16         |
| Pertussis   | C,P,S | 2             | 1           | 8                  | 193         | 196.0                  | 220        |
| Rabies, Animal  | C     | 0             | 0           | 1                  | 1           | 1.0                    | 8          |
| Rocky Mountain Spotted Fever                          | C,P   | 0             | 1           | 1                  | 1           | 0.3                    | 3          |
| Salmonellosis (Non-Typhoid/Non-Paratyphoid)           | C,P   | 28            | 20          | 69                 | 92          | 109.3                  | 501        |
| Shiga toxin-Producing <i>E. coli</i> (including O157) | C,P   | 2             | 3           | 11                 | 32          | 30.3                   | 100        |
| Shigellosis   | C,P   | 8             | 13          | 29                 | 68          | 71.3                   | 238        |
| Typhoid Fever   | C,P   | 0             | 1           | 1                  | 1           | 2.0                    | 4          |
| Vibriosis   | C,P   | 0             | 1           | 1                  | 7           | 6.3                    | 37         |
| West Nile Virus Infection                             | C,P   | 0             | 0           | 0                  | 0           | 0.0                    | 2          |
| Yersiniosis   | C,P   | 0             | 1           | 3                  | 6           | 7.7                    | 27         |
| Zika Virus  | C,P   | 0             | 0           | 0                  | 0           | 1.0                    | 0          |

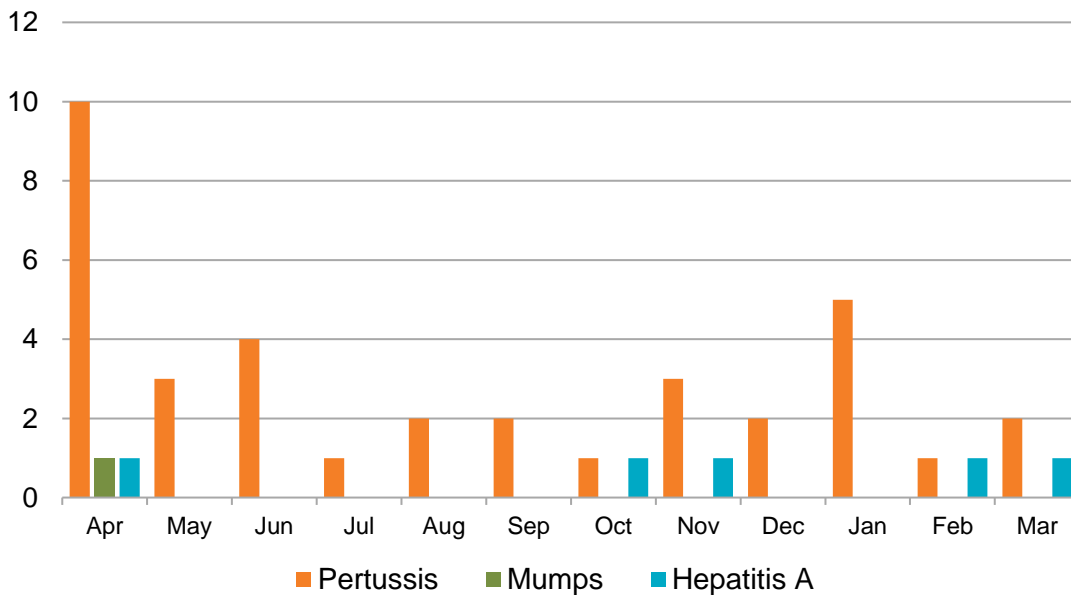
**Case counts are provisional and subject to change as additional information becomes available.** Cases are grouped into calendar months and calendar years on the basis of the earliest of the following dates: onset, lab specimen collection, diagnosis, death, and report received. Counts may differ from previously or subsequently reported counts due to differences in inclusion or grouping criteria, late reporting, or updated case information. Inclusion criteria (C,P,S = Confirmed, Probable, Suspect) based on Council of State and Territorial Epidemiologists/Centers for Disease Control and Prevention (CSTE/CDC) surveillance case criteria.



**Figure 3. Select Enteric Infections by Month  
April 2020 – March 2021**

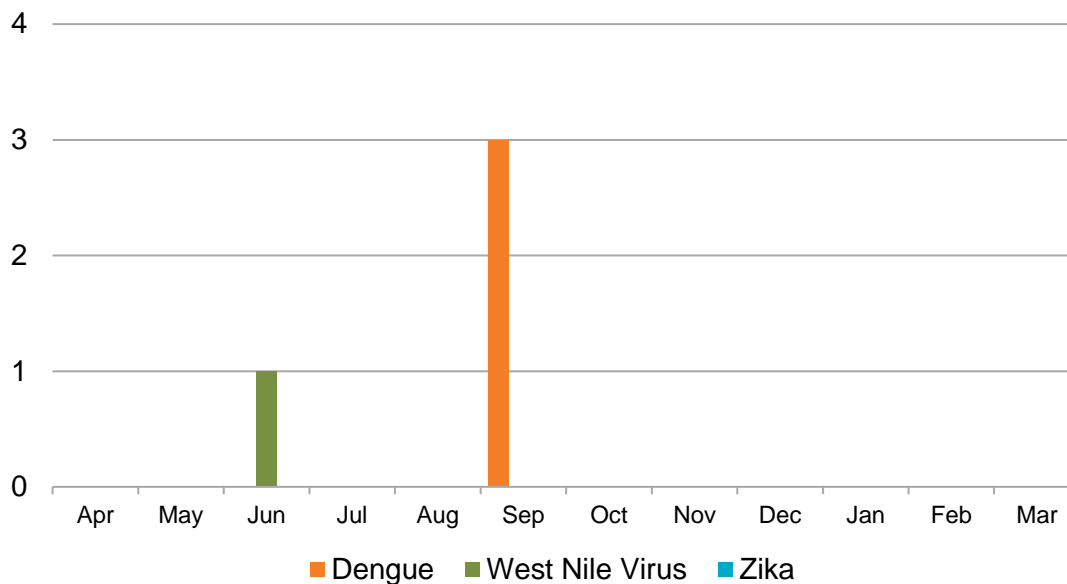


**Figure 4. Select Vaccine-Preventable Infections by Month  
April 2020 – March 2021**



**Case counts are provisional and subject to change as additional information becomes available.** Cases are grouped into calendar months and calendar years on the basis of the earliest of the following dates: onset, lab specimen collection, diagnosis, death, and report received. Counts may differ from previously or subsequently reported counts due to differences in inclusion or grouping criteria, late reporting, or updated case information. Inclusion criteria (C,P,S = Confirmed, Probable, Suspect) based on Council of State and Territorial Epidemiologists/Centers for Disease Control and Prevention (CSTE/CDC) surveillance case criteria.

**Figure 5. Select Vector-Borne Infections by Month  
April 2020 – March 2021**



All of the dengue and Zika virus cases are travel-associated. For additional information on Zika cases, see the [HHS Agency Zika Virus webpage](#). For more information on West Nile virus, see the [County West Nile virus webpage](#). **Case counts are provisional and subject to change as additional information becomes available.** Cases are grouped into calendar months and calendar years on the basis of the earliest of the following dates: onset, lab specimen collection, diagnosis, death, and report received. Counts may differ from previously or subsequently reported counts due to differences in inclusion or grouping criteria, late reporting, or updated case information. Inclusion criteria (C,P,S = Confirmed, Probable, Suspect) based on Council of State and Territorial Epidemiologists/Centers for Disease Control and Prevention (CSTE/CDC) surveillance case criteria.

### Disease Reporting in San Diego County

San Diego County communicable disease surveillance is a collaborative effort among Public Health Services, hospitals, medical providers, laboratories, and the [San Diego Health Connect](#) Health Information Exchange (HIE). The data presented in this report are the result of this effort.

Reporting is crucial for disease surveillance and detection of disease outbreaks. Under the California Code of Regulations, Title 17 (Sections [2500](#), [2505](#), and [2508](#)), public health professionals, medical providers, laboratories, schools, and others are mandated to report more than 80 diseases or conditions to San Diego County Health and Human Services Agency.

To report a communicable disease, contact the Epidemiology Program by phone at (619) 692-8499 or download and print a Confidential Morbidity Report form and fax it to (858) 715-6458. For urgent matters on evenings, weekends or holidays, dial (858) 565-5255 and ask for the Epidemiology Program duty officer. For more information, including a complete list of reportable diseases and conditions in California, visit the Epidemiology Program website, [www.sdepi.org](http://www.sdepi.org).

Tuberculosis, sexually transmitted infections, and HIV disease are covered by other programs within Public Health Services. For information about reporting and data related to these conditions, search for the relevant program on the Public Health Services website, <http://www.sandiegocounty.gov/content/sdc/hhsa/programs/phs.html>.