

County of Orange Health Care Agency

Epidemiology and Assessment

CASES AND CASE RATES (PER 100,000 POPULATION) OF REPORTABLE DISEASES THROUGH THE THIRD QUARTER OF
2004-2008

| Quarter 3 through September 27¹ | 2004 | | 2005 | | 2006 | | 2007 | | 2008² | |
|---|------------------|-------------------------|------------------|-------------------------|------------------|-------------------------|------------------|-------------------------|-------------------------|-------------------------|
| JANUARY 1 POPULATION* | 3,017,390 | | 3,045,218 | | 3,066,483 | | 3,089,707 | | 3,121,251 | |
| DISEASE | NUMBER | RATE³ | NUMBER | RATE³ | NUMBER | RATE³ | NUMBER | RATE³ | NUMBER | RATE³ |
| Amebiasis | 11 | 0.5 | 8 | 0.4 | 8 | 0.3 | 11 | 0.5 | 12 | 0.5 |
| Botulism | 0 | -- | 2 | -- | 7 | 0.3 | 6 | 0.3 | 1 | -- |
| Botulism-Infant | 0 | -- | 0 | -- | 0 | -- | 4 | -- | 0 | -- |
| Brucellosis | 1 | -- | 0 | -- | 3 | -- | 0 | -- | 2 | -- |
| Campylobacteriosis | 184 | 8.1 | 134 | 5.9 | 180 | 7.8 | 280 | 12.1 | 245 | 10.5 |
| Chancroid | 0 | -- | 0 | -- | 0 | -- | 0 | -- | 0 | -- |
| Chlamydial Infection | 4,713 | 208.3 | 5,600 | 245.2 | 6,175 | 268.5 | 5,884 | 253.9 | 6,187 | 264.3 |
| Cholera | 0 | -- | 0 | -- | 0 | -- | 0 | -- | 0 | -- |
| Coccidioidomycosis | 17 | 0.8 | 25 | 1.1 | 25 | 1.1 | 20 | 0.9 | 28 | 1.2 |
| Conjunctivitis, Newborn | 0 | -- | 0 | -- | 0 | -- | 1 | -- | 0 | -- |
| Creutzfeldt-Jakob Disease ⁴ | NA | -- | NA | -- | NA | -- | NA | -- | 2 | -- |
| Cryptosporidiosis | 9 | 0.4 | 5 | 0.2 | 9 | 0.4 | 11 | 0.5 | 10 | 0.4 |
| Cysticercosis | 7 | 0.3 | 6 | 0.3 | 8 | 0.3 | 1 | -- | 7 | 0.3 |
| Dengue | 3 | -- | 1 | -- | 0 | -- | 1 | -- | 3 | -- |
| Encephalitis, Total | 18 | 0.8 | 23 | 1.0 | 22 | 1.0 | 13 | 0.6 | 23 | 1.0 |
| Encephalitis, Bacterial | 0 | -- | 0 | -- | 0 | -- | 0 | -- | 1 | -- |
| Encephalitis, Fungal | 0 | -- | 0 | -- | 0 | -- | 0 | -- | 0 | -- |
| Encephalitis, Unknown | 15 | 0.7 | 17 | 0.7 | 17 | 0.7 | 10 | 0.4 | 19 | 0.8 |
| Encephalitis, Viral | 3 | -- | 6 | 0.3 | 5 | 0.2 | 3 | -- | 3 | -- |
| <i>Escherichia coli</i> / Shiga Toxin Producing Infection - Total | 9 | 0.4 | 7 | 0.3 | 9 | 0.4 | 35 | 1.5 | 6 | 0.3 |
| <i>E. coli</i> O157:H7 Infection | 7 | 0.3 | 6 | 0.3 | 9 | 0.4 | 31 | 1.3 | 5 | 0.2 |
| <i>E. coli</i> Shiga Toxin Producing | 1 | -- | 0 | -- | 0 | -- | 3 | -- | 1 | -- |
| <i>E. coli</i> / Shiga Toxin Producing Infection with Hemolytic Uremic Syndrome | 1 | -- | 1 | -- | 0 | -- | 1 | -- | 0 | -- |
| Giardiasis | 74 | 3.3 | 77 | 3.4 | 90 | 3.9 | 133 | 5.7 | 124 | 5.3 |
| Gonococcal Infection | 710 | 31.4 | 875 | 38.3 | 846 | 36.8 | 664 | 28.7 | 682 | 29.1 |
| <i>Haemophilus influenzae</i> , Invasive Disease, less than 18 years of age | 3 | -- | 5 | 0.2 | 10 | 0.4 | 2 | -- | 4 | -- |
| Hemolytic Uremic Syndrome | 1 | -- | 0 | -- | 0 | -- | 1 | -- | 0 | -- |
| Hepatitis A | 28 | 1.2 | 32 | 1.4 | 30 | 1.3 | 19 | 0.8 | 18 | 0.8 |
| Hepatitis B, Acute | 19 | 0.8 | 5 | 0.2 | 14 | 0.6 | 12 | 0.5 | 9 | 0.4 |
| Hepatitis B, Chronic ⁵ | 757 | 33.5 | 379 | 16.6 | 1,017 | 44.2 | 615 | 26.5 | 254 | 10.9 |
| Hepatitis B, Perinatal | 2 | -- | 4 | -- | 1 | -- | 2 | -- | 2 | -- |
| Hepatitis C, Acute | 4 | -- | 2 | -- | 1 | -- | 4 | -- | 5 | 0.2 |
| Hepatitis C, Chronic ⁶ | 926 | 40.9 | 77 | 3.4 | 104 | 4.5 | 140 | 6.0 | 98 | 4.2 |
| Hepatitis D (Delta) | 0 | -- | 0 | -- | 0 | -- | 0 | -- | 0 | -- |
| Hepatitis, Other/Unknown | 2 | -- | 1 | -- | 4 | -- | 1 | -- | 4 | -- |
| Kawasaki Syndrome | 16 | 0.7 | 18 | 0.8 | 16 | 0.7 | 19 | 0.8 | 16 | 0.7 |
| Legionellosis | 9 | 0.4 | 8 | 0.4 | 15 | 0.7 | 11 | 0.5 | 11 | 0.5 |
| Leprosy (Hansen's Disease) | 0 | -- | 0 | -- | 0 | -- | 0 | -- | 0 | -- |
| Listeriosis | 13 | 0.6 | 3 | -- | 9 | 0.4 | 6 | 0.3 | 4 | -- |
| Lyme Disease | 0 | -- | 1 | -- | 2 | -- | 1 | -- | 2 | -- |
| Malaria | 9 | 0.4 | 6 | 0.3 | 8 | 0.3 | 4 | -- | 2 | -- |
| Measles (Rubeola) | 0 | -- | 0 | -- | 0 | -- | 1 | -- | 0 | -- |
| Meningitis, Total | 413 | 18.2 | 236 | 10.3 | 132 | 5.7 | 165 | 7.1 | 227 | 9.7 |
| Meningitis, Bacterial | 9 | 0.4 | 23 | 1.0 | 18 | 0.8 | 13 | 0.6 | 13 | 0.6 |
| Meningitis, Fungal | 13 | 0.6 | 8 | 0.4 | 5 | 0.2 | 9 | 0.4 | 8 | 0.3 |
| Meningitis, Parasitic | 0 | -- | 0 | -- | 0 | -- | 0 | -- | 0 | -- |
| Meningitis, Unknown | 3 | -- | 0 | -- | 2 | -- | 6 | 0.3 | 0 | -- |
| Meningitis, Other | 0 | -- | 0 | -- | 0 | -- | 0 | -- | 0 | -- |
| Meningitis, Viral (Aseptic) | 388 | 17.1 | 205 | 9.0 | 107 | 4.7 | 137 | 5.9 | 206 | 8.8 |
| Meningococcal Disease, Total | 16 | 0.7 | 6 | 0.3 | 13 | 0.6 | 11 | 0.5 | 4 | -- |
| Mumps | 2 | -- | 3 | -- | 2 | -- | 0 | -- | 0 | -- |
| Outbreaks, Total | 34 | 1.5 | 34 | 1.5 | 64 | 2.8 | 53 | 2.3 | 65 | 2.8 |
| Foodborne Disease Outbreaks | 22 | 1.0 | 19 | 0.8 | 18 | 0.8 | 14 | 0.6 | 12 | 0.5 |
| Other Outbreaks | 12 | 0.5 | 15 | 0.7 | 46 | 2.0 | 39 | 1.7 | 53 | 2.3 |
| Paragonimiasis | 0 | -- | 0 | -- | 10 | 0.4 | 1 | -- | 1 | -- |
| Pelvic Inflammatory Disease | 38 | 1.7 | 39 | 1.7 | 32 | 1.4 | 37 | 1.6 | 32 | 1.4 |

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| JANUARY 1 POPULATION* | 3,017,390 | | 3,045,218 | | 3,066,483 | | 3,089,707 | | 3,121,251 | |
| DISEASE | NUMBER | RATE³ | NUMBER | RATE³ | NUMBER | RATE³ | NUMBER | RATE³ | NUMBER | RATE³ |
| Pertussis (Whooping Cough) | 80 | 3.5 | 62 | 2.7 | 42 | 1.8 | 14 | 0.6 | 23 | 1.0 |
| Psittacosis | 0 | -- | 0 | -- | 1 | -- | 0 | -- | 0 | -- |
| Q-fever | 1 | -- | 0 | -- | 0 | -- | 0 | -- | 0 | -- |
| Relapsing Fever | 0 | -- | 0 | -- | 0 | -- | 0 | -- | 0 | -- |
| Reye Syndrome | 0 | -- | 0 | -- | 0 | -- | 0 | -- | 0 | -- |
| Rheumatic Fever, Acute | 0 | -- | 0 | -- | 0 | -- | 0 | -- | 0 | -- |
| Rocky Mountain Spotted Fever | 0 | -- | 0 | -- | 0 | -- | 0 | -- | 0 | -- |
| Rubella (German Measles) | 0 | -- | 0 | -- | 0 | -- | 0 | -- | 0 | -- |
| Rubella Syndrome, Congenital | 0 | -- | 0 | -- | 0 | -- | 0 | -- | 0 | -- |
| Salmonellosis (Non-Typhoid Fever) | 196 | 8.7 | 191 | 8.4 | 221 | 9.6 | 195 | 8.4 | 174 | 7.4 |
| Scombroid Fish Poisoning | 4 | -- | 3 | -- | 2 | -- | 2 | -- | 3 | -- |
| Shigellosis, Total | 75 | 3.3 | 78 | 3.4 | 40 | 1.7 | 33 | 1.4 | 57 | 2.4 |
| <i>Shigella dysenteriae</i> - A | 0 | -- | 1 | -- | 1 | -- | 0 | -- | 0 | -- |
| <i>Shigella flexneri</i> - B | 28 | 1.2 | 36 | 1.6 | 18 | 0.8 | 14 | 0.6 | 20 | 0.9 |
| <i>Shigella boydii</i> - C | 4 | -- | 0 | -- | 0 | -- | 1 | -- | 3 | -- |
| <i>Shigella sonnei</i> - D | 43 | 1.9 | 41 | 1.8 | 21 | 0.9 | 18 | 0.8 | 34 | 1.5 |
| <i>Shigella, Species Unknown</i> | 0 | -- | 0 | -- | 0 | -- | 0 | -- | 0 | -- |
| Streptococcal Infection, Invasive Group A | 31 | 1.4 | 29 | 1.3 | 26 | 1.1 | 34 | 1.5 | 26 | 1.1 |
| <i>Streptococcus pneumoniae</i> Invasive Disease | 99 | 4.4 | 72 | 3.2 | 81 | 3.5 | 83 | 3.6 | 99 | 4.2 |
| Syphilis, Total, All Stages | 230 | 10.2 | 270 | 11.8 | 213 | 9.3 | 312 | 13.5 | 178 | 7.6 |
| Syphilis, Congenital | 3 | -- | 3 | -- | 4 | -- | 3 | -- | 1 | -- |
| Syphilis, Early Latent | 21 | 0.9 | 38 | 1.7 | 43 | 1.9 | 51 | 2.2 | 36 | 1.5 |
| Syphilis, Latent | 11 | 0.5 | 14 | 0.6 | 18 | 0.8 | 27 | 1.2 | 8 | 0.3 |
| Syphilis, Late Latent | 164 | 7.2 | 136 | 6.0 | 88 | 3.8 | 116 | 5.0 | 69 | 2.9 |
| Syphilis, Primary | 9 | 0.4 | 23 | 1.0 | 22 | 1.0 | 27 | 1.2 | 19 | 0.8 |
| Syphilis, Secondary | 21 | 0.9 | 56 | 2.5 | 38 | 1.7 | 88 | 3.8 | 45 | 1.9 |
| Syphilis, Other | 1 | -- | 0 | -- | 0 | -- | 0 | -- | 0 | -- |
| Taeniasis | 0 | -- | 2 | -- | 0 | -- | 0 | -- | 1 | -- |
| Tetanus | 0 | -- | 1 | -- | 1 | -- | 0 | -- | 0 | -- |
| Toxic Shock Syndrome (TSS) | 9 | 0.4 | 2 | -- | 2 | -- | 2 | -- | 4 | -- |
| Staphylococcal TSS | 4 | -- | 1 | -- | 1 | -- | 1 | -- | 2 | -- |
| Streptococcal TSS | 5 | 0.2 | 1 | -- | 1 | -- | 1 | -- | 2 | -- |
| Toxoplasmosis | 1 | -- | 0 | -- | 2 | -- | 5 | 0.2 | 2 | -- |
| Tuberculosis ⁷ | 120 | 5.3 | 116 | 5.1 | 152 | 6.6 | 132 | 5.7 | 114 | 4.9 |
| Tularemia | 0 | -- | 0 | -- | 0 | -- | 0 | -- | 0 | -- |
| Typhoid Fever, Carrier | 3 | -- | 0 | -- | 0 | -- | 0 | -- | 1 | -- |
| Typhoid Fever, Case | 3 | -- | 6 | 0.3 | 0 | -- | 4 | -- | 2 | -- |
| Typhus Fever | 0 | -- | 0 | -- | 0 | -- | 6 | 0.3 | 11 | 0.5 |
| Varicella hospitalization | 3 | -- | 2 | -- | 4 | -- | 9 | 0.4 | 4 | -- |
| <i>Vibrio</i> Infections | 1 | -- | 3 | -- | 7 | 0.3 | 11 | 0.5 | 4 | -- |
| Waterborne Outbreaks | 0 | -- | 0 | -- | 0 | -- | 0 | -- | 0 | -- |
| West Nile Infections, Total | 28 | 1.2 | 9 | 0.4 | 6 | 0.3 | 6 | 0.3 | 31 | 1.3 |
| West Nile Neuroinvasive Disease | 18 | 0.8 | 3 | -- | 3 | -- | 2 | -- | 16 | 0.7 |
| West Nile Fever | 10 | 0.4 | 4 | -- | 2 | -- | 3 | -- | 10 | 0.4 |
| West Nile Asymptomatic | 0 | -- | 0 | -- | 1 | -- | 1 | -- | 5 | 0.2 |
| West Nile Acute Flaccid Paralysis | 0 | -- | 2 | -- | 0 | -- | 0 | -- | 0 | -- |
| Yersiniosis | 7 | 0.3 | 7 | 0.3 | 8 | 0.3 | 14 | 0.6 | 6 | 0.3 |

¹ Quarters correspond to CDC disease weeks, which approximate calendar quarters but may include or omit the first/last week of each.

² Data for 2008 are considered preliminary.

³ Rates are annualized quarterly rates per 100,000 population; rates are not calculated for diseases with less than five reported cases.

⁴ Creutzfeldt-Jakob Disease became reportable as of August 2007

⁵ From September 2004 through October 2005, and from July 2007 to the present, E&A stopped reporting chronic hepatitis B except for cases that meet selected criteria.

⁶ In September 2004, E&A stopped reporting chronic hepatitis C except for cases that meet selected criteria.

⁷ The number of tuberculosis cases is higher since 2006 due to more timely case report completion and reporting to California Department of Public Health.

*Source: Population Data from State of California, Department of Finance, E-4 Population Estimates for Cities, Counties and the State, 2001-2008, with 2000 Benchmark. Sacramento, California, May 2008.

Communicable Diseases Data from County of Orange Health Care Agency, Epidemiology & Assessment Unit, Weekly Morbidity Data, October 2008