

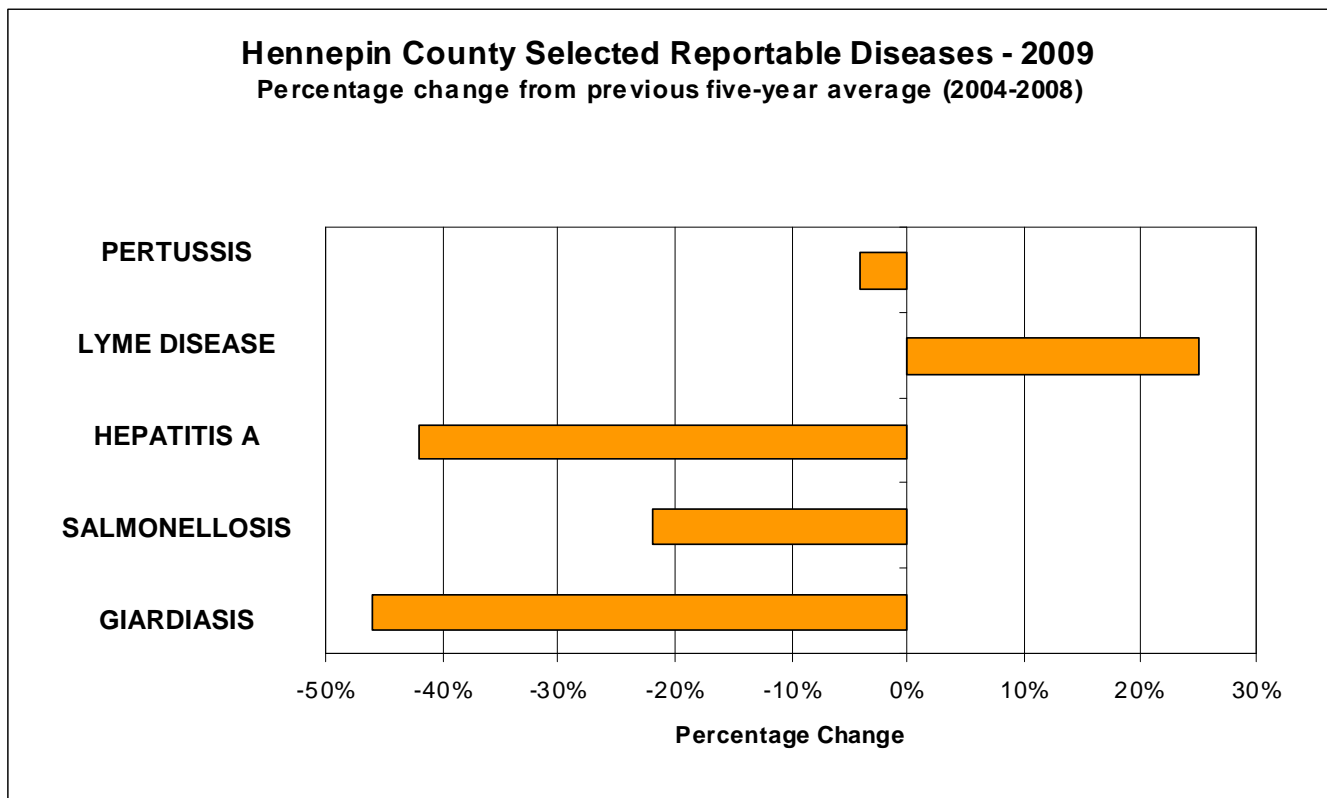
# Epidemiology Update Supplement

## Selected Reportable Diseases for Hennepin County – 2009 Year-end Report

This is the 2009 summary of selected reportable diseases for Hennepin County. The Hennepin County data is obtained from the reportable disease surveillance data collected by the Minnesota Department of Health (MDH). This report is a supplement to the *Epidemiology Updates* that describe trends of specific infectious diseases and environmental conditions. Past issues of *Epidemiology Updates* are available at [www.hennepin.us/epidemiologyupdates](http://www.hennepin.us/epidemiologyupdates)

The chart represents the percent change for selected reported diseases between 2009 and the previous five-year average.

The table includes the number of reported cases of selected diseases during 2009 for Minneapolis, Bloomington/Edina/Richfield, greater Hennepin County and the total for all of Hennepin County. In addition, the previous five-year average and the highest and lowest number of cases for that period are listed.



## KEY FINDINGS

**Pertussis:** Pertussis (whooping cough) cases in Hennepin County increased slightly between 2008 and 2009 (187 to 190 cases, 2% increase). However, the number of cases in 2009 was 4% less than the average number of cases in the past five years. Exposure can occur when a person with pertussis coughs or sneezes tiny droplets with pertussis bacteria into the air and another person breathes them in. Cases usually occur in infants less than six months of age, adolescents, and young adults who are not up-to-date on immunizations or have waning immunity. Healthcare providers should recommend the one-time Tdap vaccine (combined tetanus, diphtheria, and pertussis booster) for adolescents 11-12 years of age before they start middle school, in place of the Td (tetanus and diphtheria) booster. Older adolescents and adults should receive a one time Tdap in place of the Td booster, especially if they care for infants less than 12 months of age. If there is a high index of suspicion that a person has pertussis, healthcare providers should test the patient and remind him/her to stay home from school, work and other activities until five days of antibiotic treatment have been completed or until the laboratory test comes back negative. An Epidemiology Update on pertussis was written in 2010 can be found at [www.hennepin.us/epiupdates](http://www.hennepin.us/epiupdates).

**Lyme Disease:** While Hennepin County Lyme disease cases decreased by one percent between 2008 and 2009 (197 to 195 cases), the 2009 case count was 25% greater than the previous five-year average. Lyme disease is transmitted by blacklegged ticks, also referred to as deer ticks. While Hennepin County is not one of the high risk areas for tick-borne disease in Minnesota, it does border part of the high risk region (east-central, north-central and southeast Minnesota) and precautions should be taken when recreating outdoors. Tick-borne disease prevention includes avoiding activities in wooded or brushy areas, using insect repellents containing DEET or permethrin, wearing long-sleeved shirts and long pants while outdoors, and remembering to check for ticks and promptly removing any using a pair of tweezers.

**Hepatitis A:** The number of hepatitis A cases between 2008 and 2009 did not change, but the case count in 2009 was 40% less than the previous five-year average. Hepatitis A is an infection of

the liver caused by the hepatitis A virus, which is spread by the fecal-oral route. Outbreaks commonly occur when food or beverages are contaminated. A vaccine for hepatitis A is currently available for anyone 12 months of age and older who wants to be protected against the disease and is recommended for all children at 12 months of age. Prophylaxis may be given to prevent the onset of symptoms in unvaccinated persons exposed to hepatitis A within the previous two weeks. The prophylaxis recommendation for healthy persons 12 months of age to 40 years of age is the hepatitis A vaccine. The prophylaxis recommendation for persons under 12 months of age or older than 40 year of age is immune globulin (IG).

**Salmonellosis:** Cases of salmonellosis decreased 32% between 2008 and 2009 (188 to 128 cases). The 2009 case count was 22% less than the previous five-year average. *Salmonella* is a bacterium causing diarrheal illness that is spread through the fecal-oral route. Most outbreaks of salmonellosis are associated with eating undercooked or raw food items that are contaminated with feces, such as eggs, poultry, meat, fruits and vegetables. Other modes of exposure include having contact with farm animals and pets (such as reptiles, baby chicks, and ducklings) and drinking raw, unpasteurized milk. Exposure to *Salmonella* can be prevented by not eating raw or undercooked eggs, poultry, or meat; preventing cross-contamination in the kitchen when preparing raw meats, poultry, and seafood; and not drinking unpasteurized milk. Also, patients infected with *Salmonella* should not use swimming beaches, pools, water parks, and spas for two weeks after diarrhea has stopped.

**Giardiasis:** Cases of giardiasis, a gastrointestinal disease, only decreased by two percent between 2008 and 2009 (168 to 164 cases); however, the 2009 case numbers were 46% less than the previous five-year average. The *Giardia* parasite is shed in the stool of both humans and animals and is spread by fecal-oral transmission. *Giardia* is recognized as one of the most common causes of waterborne disease. Spread is reduced by thorough handwashing, not swallowing water when swimming, and not drinking untreated water. Also, anyone with giardiasis should not use swimming beaches, pools, water parks, and spas for two weeks after diarrhea has stopped.

## Hennepin County Selected Reportable Diseases 2009 Year-End Report

| DISEASE   | 2009          |       |       |                      | 2004–2008 Total County |                      |                     |
|---|---------------|-------|-------|----------------------|------------------------|----------------------|---------------------|
|   | 2009<br>TOTAL | MPLS* | BER** | GREATER<br>COUNTY*** | 5 Year<br>Average      | Highest<br>No. Cases | Lowest<br>No. Cases |
| Amebiasis   | 10            | 6     | 1     | 3                    | 27                     | 53                   | 7                   |
| Aseptic meningitis                                | 51            | 16    | 4     | 31                   | 76                     | 109                  | 56                  |
| Campylobacteriosis                                | 179           | 67    | 21    | 91                   | 192                    | 204                  | 187                 |
| Chlamydia   | 4729          | 2643  | 414   | 1672                 | 4538                   | 5003                 | 4072                |
| Cryptosporidiosis                                 | 14            | 6     | 2     | 6                    | 18                     | 32                   | 9                   |
| Diphtheria  | 0             | 0     | 0     | 0                    | 0                      | 1                    | 0                   |
| Encephalitis, West Nile                           | 0             | 0     | 0     | 0                    | 2                      | 5                    | 0                   |
| Shiga toxin producing <i>E. coli</i>              | 21            | 6     | 2     | 13                   | 23                     | 42                   | 13                  |
| Giardiasis  | 164           | 79    | 21    | 64                   | 304                    | 392                  | 168                 |
| Gonorrhea   | 1050          | 673   | 81    | 296                  | 1592                   | 1727                 | 1445                |
| <i>Haemophilus influenzae</i><br>invasive disease | 15            | 9     | 2     | 4                    | 14                     | 24                   | 9                   |
| Hepatitis A                                       | 9             | 5     | 0     | 4                    | 15                     | 35                   | 7                   |
| Hepatitis B                                       | 13            | 4     | 2     | 7                    | 14                     | 22                   | 5                   |
| Hepatitis C                                       | 4             | 2     | 2     | 0                    | 4                      | 7                    | 2                   |
| HIV infection                                     |               |       |       |                      |                        |                      |                     |
| AIDS cases  | 85            | 55    | 6     | 24                   | 91                     | 106                  | 78                  |
| Antibody positive (non-AIDS)                      | 146           | 95    | 12    | 39                   | 136                    | 157                  | 104                 |
| Legionellosis                                     | 8             | 4     | 0     | 4                    | 7                      | 11                   | 2                   |
| Listeriosis                                       | 1             | 0     | 0     | 1                    | 3                      | 6                    | 1                   |
| Lyme disease                                      | 195           | 62    | 24    | 109                  | 156                    | 197                  | 113                 |
| Malaria   | 20            | 6     | 0     | 14                   | 17                     | 22                   | 12                  |
| Meningococcal disease (invasive<br>disease)       | 5             | 1     | 0     | 4                    | 7                      | 9                    | 4                   |
| Mumps   | 4             | 1     | 0     | 3                    | 10                     | 30                   | 0                   |
| Pertussis   | 190           | 47    | 29    | 114                  | 198                    | 357                  | 69                  |
| Polio   | 0             | 0     | 0     | 0                    | 0                      | 0                    | 0                   |
| Rubella (German measles)                          | 0             | 0     | 0     | 0                    | 0                      | 0                    | 0                   |
| Rubeola (measles)                                 | 0             | 0     | 0     | 0                    | 0                      | 0                    | 0                   |
| Salmonellosis                                     | 128           | 42    | 22    | 64                   | 164                    | 205                  | 130                 |
| Shigellosis                                       | 25            | 11    | 3     | 11                   | 69                     | 129                  | 27                  |
| Strep gr A invasive disease                       | 41            | 19    | 2     | 20                   | 33                     | 40                   | 21                  |
| Strep gr B invasive disease                       | 102           | 32    | 20    | 50                   | 88                     | 118                  | 75                  |
| <i>S. pneumoniae</i> invasive disease             | 71            | 23    | 11    | 37                   | 57                     | 66                   | 48                  |
| Syphilis (total for all stages)                   | 121           | 87    | 8     | 26                   | 117                    | 161                  | 73                  |
| Tetanus   | 0             | 0     | 0     | 0                    | 0                      | 0                    | 0                   |
| Toxic shock syndrome                              | 2             | 1     | 0     | 1                    | 2                      | 4                    | 1                   |
| Tuberculosis                                      | 61            | 34    | 5     | 22                   | 102                    | 114                  | 95                  |
| Typhoid fever                                     | 1             | 0     | 0     | 1                    | 3                      | 6                    | 2                   |
| West Nile fever                                   | 0             | 0     | 0     | 0                    | 2                      | 7                    | 0                   |
| Yersiniosis                                       | 3             | 2     | 1     | 0                    | 3                      | 5                    | 1                   |

\*MPLS=Minneapolis; \*\*BER=Bloomington, Edina, Richfield; \*\*\*GREATER COUNTY=All other Hennepin County suburbs