

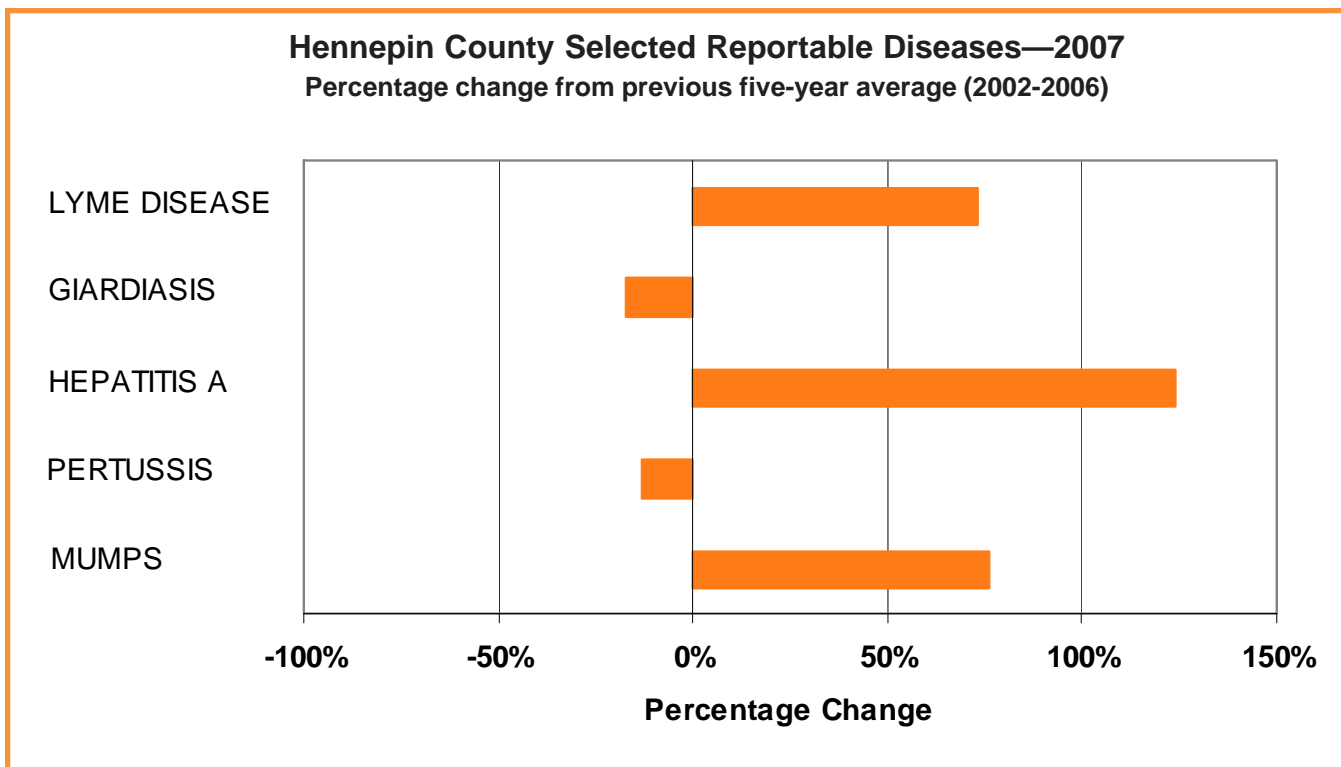
Epidemiology Update Supplement

Selected Reportable Diseases for Hennepin County—2007 Year-end Report

This is the 2007 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.

The CHART represents the percent change for selected reported diseases between 2007 and the previous five-year average.

The TABLE includes the number of reported cases of selected diseases during 2007 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:

Lyme Disease: Lyme disease cases in Hennepin County increased between 2006 and 2007 (127 to 196 cases, a 54% increase). The number of cases in 2007 was 73% greater than the average number of cases in the past five years. Cases of babesiosis and human anaplasmosis, two diseases also transmitted by blacklegged ticks (deer ticks), have significantly increased in comparison to the previous five-year averages (275% and 214%, respectively). 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.

Giardiasis: Cases of giardiasis, a gastrointestinal disease, decreased by 27% between 2006 and 2007 (350 to 257 cases) and decreased by 17% compared to 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, avoiding 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.

Hepatitis A: It was interesting to note that hepatitis A cases increased by 400% between 2006 and 2007 (7 to 35 cases). Overall, hepatitis A cases increased by 124% compared to the average number of cases in the past five years. This increase was largely due to a foodborne outbreak, person-to-person transmission in a home setting, and international travel to countries with hepatitis A virus endemicity. The hepatitis A virus is spread by fecal-oral transmission and is best prevented by vaccination. The vaccine is recommended for children at age 1 year, men who have sex with men, persons who use street drugs, travelers to countries with endemic hepatitis A, and for all others who wish to be protected against hepatitis A.

Pertussis: Pertussis cases in Hennepin County increased between 2006 and 2007 (60 to 144 cases); however, the number of cases in 2007 was 13% less than the average number of cases in the past five years (the highest number of cases was 357, reported in 2004). Cases usually occur in infants less than 6 months of age and in 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 booster. Adolescents 13-18 years of age should receive Tdap if they have not received a Td booster within the last 5 years 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.

Mumps: Twelve cases of mumps were reported in 2007, which is 60% less than the number of cases reported in 2006 (30 cases). Overall, the 2007 case count is 76% greater than the average number of cases in the past five years (before the mumps activity beginning in 2006, no mumps cases had been identified in the county since 2002). Minnesota healthcare providers and school and college officials should ensure patients are up-to-date on MMR vaccinations and should be on high alert for mumps cases when patients demonstrate parotid swelling. Immediately report suspected mumps cases to the MDH.

**Hennepin County
SELECTED REPORTABLE DISEASES
2007 Year End Report**

DISEASE	2007 TOTAL	GREATER COUNTY			2001-2006 Total County		
		MPLS *	BER **	COUNTY ***	5 Year Average	Highest No.Cases	Lowest No. Cases
Amebiasis	14	8	1	5	27	53	1
Aseptic Meningitis	78	26	9	43	69	109	51
Campylobacteriosis	187	74	27	86	206	229	191
Chlamydia	4738	2753	408	1577	4231	4573	4017
Cryptosporidiosis	32	11	3	18	13	23	6
Diphtheria	0	0	0	0	0	0	0
Encephalitis, West Nile	5	3	0	2	3	8	0
<i>E.coli</i> O157:H7	42	9	6	27	20	24	14
Giardiasis	257	118	29	110	310	392	225
Gonorrhea	1651	1190	90	371	1667	1750	1445
Haemophilus Influenzae (Invasive disease)	17	6	3	8	13	24	7
Hepatitis A	35	20	2	13	16	23	7
Hepatitis B	5	5	0	0	20	29	16
Hepatitis C	7	4	0	3	2	6	0
HIV Infection AIDS Cases	78	50	5	23	91	106	82
Antibody Positive (Non-AIDS)	140	88	7	45	122	145	104
Legionellosis	11	2	0	9	5	11	2
Listeriosis	2	0	1	1	2	5	0
Lyme Disease	196	53	29	114	114	149	66
Malaria	12	3	1	8	16	22	12
Meningococcal Disease (Invasive disease)	8	3	1	4	6	10	2
Mumps	12	1	8	3	7	30	0
Pertussis	144	48	11	85	166	357	68
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	162	49	26	87	149	205	116
Shigellosis	83	49	10	24	56	99	27
Strep gr A (Invasive disease)	37	19	6	12	32	38	21
Strep gr B (Invasive disease)	75	28	15	32	83	90	75
<i>S.pneumoniae</i> (Invasive disease)	66	30	8	28	65	105	48
Syphilis (Total)	112	81	7	24	106	129	73
Tetanus	0	0	0	0	0	0	0
Toxic Shock Syndrome	2	1	0	1	3	4	1
Tuberculosis	114	69	10	35	109	128	95
Typhoid Fever	6	2	1	3	3	4	1
West Nile Fever	7	0	1	6	2	4	0
Yersiniosis	2	1	0	1	3	5	1

*MPLS=Minneapolis; **BER=Bloomington, Edina, Richfield; ***GREATER COUNTY=All Other Suburbs

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