

EPI Gram is a monthly publication of the Stark County Public Health Coalition. It contains a summary of provisional communicable disease reports and other key public health indicators, with summary tables for Stark County, Ohio. Some reportable conditions may be under investigation; and, at any given time, data may fluctuate from month to month for a specific category.

IN THE NEWS: Notables in 2009

During 2009, Stark County saw declines in reporting of certain Sexually Transmitted Diseases, including, gonorrhea and syphilis, as well as declines in Cryptosporidiosis and Shigellosis. A reduction in outbreaks in 2009 likely led to the reduction in both Shigellosis and Cryptosporidiosis.

2009 also saw increases in infectious diseases, including giardia, legionella, and pertussis, with pertussis at double expected values. Pertussis, a vaccine preventable disease, had reports of individuals who were up-to-date, behind, and not immunized at all, or simply too young to be vaccinated.

2009 also saw the introduction of several newly reportable diseases, with the most noteworthy being Influenza associated hospitalizations. Reports of hospitalization related to influenza are expected between November and March, however in 2009 the reports were received in two distinct waves, the first for seasonal influenza which peaked in CDC week 8 (Feb 22-28, 2009) as well as a second in CDC Week 42 (Oct 18-24, 2009). These two peaks were indicative of two waves of influenza viral strains, the first was dominated by a seasonal H1N1 as well as a type B Influenza, and the second was dominated by a novel strain now commonly referred to as 2009 H1N1. There were significant demographic differences in those affected by each wave, with the first striking all age groups and appearing relatively mild in the very young with only two hospitalizations in children 4 and under. While the 2009 H1N1 wave had striking differences in children and young adults 0 – 24 year olds. In the first wave there were only 15 total hospitalizations in 0 – 24 year olds compared with 44 in the second wave. Additional information on influenza can be found in weekly reports at: <http://www.cantonhealth.org/ophi/?pg=244>

Tuberculosis Quarterly Report: Stark County’s number of tuberculosis cases for 2009 is down slightly as compared to 3 cases in 2008. Likewise, Suspect Cases of Reported Mycobacterium TB and Mycobacterium Other Than TB (MOTTs) decreased in comparison to 2008. None of the 2009 cases were INH resistant or multi-drug resistant. See the table below for additional details.

Stark County Tuberculosis Case Registry, 4th Quarter and End of Year Report 2009	4th Quarter 2009	YTD 2009	YTD 2008
Suspect Cases of Reported Mycobacterium TB	14	36	50
Culture Confirmed Mycobacterium Tuberculosis (TB)	1	2	3
Culture Confirmed Mycobacterium Other Than TB (MOTTs)	9	21	26
Not TB, Not MOTTs	1	13	21
Suspects Pending	3	0	2

Source: Stark County TB Registrar, Leanne R Frye, RN

Table 2 Summary of Select Vital Statistics for Stark County, Ohio

	Dec-09	YTD 2009	2008 Total
Live Births	382	4839	5169
Births to Teens	53	521	580
Deaths	219	2728	4027

Due to the current method of reporting, all data is provisional.

Table 3 Stark County Crude Birth and Death Rates per 100,000 Population

Rates are based on the US Census 2000 Stark County population of 377,438.

	2004	2005	2006	2007	2008
Birth	1240	1211	1282	1340	1369
Death	1040	1140	1076	1076	1067

If you have any questions, including how to receive copies of this report, please contact Karen Schanz at 330.493.9928 or Schanzk@starkhealth.org or Christina Henning at 330.489.3327 or Chenning@cantonhealth.org. Copies of this report can be found at <http://www.cantonhealth.org/ophi/?pg=245>.

Table 4-Jurisdictional summary of reportable diseases in Stark County, Ohio in Oct, Nov, and Dec 2009.

	Alliance City			Canton City			Massillon City			Stark County			County		
	Oct	Nov	Dec	Oct	Nov	Dec	Oct	Nov	Dec	Oct	Nov	Dec	Oct	Nov	Dec
Campylobacteriosis	0	1	0	1	1	0	1	0	0	1	3	2	3	5	2
Chlamydia infection	7	9	8	45	47	47	8	11	7	27	27	41	87	94	103
Creutzfeldt-Jakob Disease	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1
Cryptosporidiosis	1	1	0	0	1	0	0	0	0	0	3	1	1	5	1
Cytomegalovirus -congenital (CMV)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
E. coli - enterohemorrhagic (STP) - Not O157:H7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
E. coli - enterohemorrhagic (STP) O157:H7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
E. coli - enterohemorrhagic (STP) Unk serotype	0	0	0	0	0	0	0	0	0	0	1	0	0	1	0
Giardiasis	0	0	1	0	0	0	0	0	0	2	0	0	2	0	1
Gonococcal infection	5	4	2	15	26	23	4	3	4	8	4	9	32	37	38
Haemophilus influenzae (invasive disease)	0	0	0	2	0	0	0	0	0	0	1	0	2	1	0
Hepatitis A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Hepatitis B (including delta) - acute	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Hepatitis B (including delta) - chronic	0	0	0	4	0	0	0	1	0	1	0	0	5	1	0
Hepatitis C - acute	1	2	0	0	0	0	0	0	0	0	0	0	1	2	0
Hepatitis C - chronic	1	1	1	7	8	3	1	5	1	11	11	3	20	25	8
Herpes - congenital	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0
Influenza A - novel virus infection	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Influenza-associated hospitalization	2	5	0	29	24	2	8	4	2	27	27	4	66	60	8
Legionellosis - Legionnaires' Disease	0	0	0	1	0	1	1	0	0	1	0	1	3	0	2
Listeriosis	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Lyme Disease	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Malaria	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Meningitis - aseptic/viral	0	0	0	0	1	0	1	1	0	4	1	1	5	3	1
Meningitis - bacterial (Not N. meningitidis)	0	0	0	0	0	0	0	0	0	1	0	0	1	0	0
Meningococcal disease - Neisseria meningitidis	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Mumps	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1
Mycobacterial disease - other than tuberculosis	1	0	0	0	0	0	0	1	0	0	1	1	1	2	1
Pertussis	0	0	0	0	0	0	0	0	0	2	1	1	2	1	1
Salmonellosis	0	0	0	0	0	0	0	0	0	1	2	2	1	2	2
Shigellosis	0	0	0	1	2	0	0	0	0	0	0	0	1	2	0
Streptococcal - Group A -invasive	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1
Streptococcal - Group B - in newborn	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Strep pneumo invasive antibiotic resistance unk or non-resistant	0	0	0	1	1	1	0	0	0	2	2	0	3	3	1
Strep pneumo invasive antibiotic resistant/intermediate	0	0	1	2	0	0	1	0	0			0	3	0	1
Syphilis, Total	0	0	0	1	0	0	0	0	0	0	0	0	1	0	0
Syphilis, Pri & Secondary	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Typhoid Fever	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Varicella	0	1	0	0	1	0	0	0	0	2	7	4	2	9	4

Case Definitions for Infectious Conditions Under Public Health Surveillance can be found in "MMWR 1997; 46 (No. RR-10). This report contains confirmed, probable and suspect cases, as reported by the local health jurisdictions in Stark County, Ohio.

Table 5 – Summary Table of Diseases Reported in the previous 5 years within Stark County, Ohio.(provisional data only) December 2009 (with updates through March 2010)

	Stark County Totals				
	Dec	2009	2008	5 Yr annual average	Rate
Amebiasis	0	0	0	0.2	0.05
Anaplasmosis	0	0	0	0.2	0.05
Campylobacteriosis	2	55	56	50.8	13.44
Chlamydia	103	1190	1122	1216	321.61
Creutzfeldt-Jakob Disease (CJD)	1	3	3	1.4	0.37
Cryptosporidiosis	1	19	24	18.6	4.92
Cytomegalovirus (CMV), Congenital	0	1	1	1.2	0.32
Dengue	0	0	0	0.2	0.05
Escherichia coli , STP, Not O157:H7	0	3	0	0.4	0.11
Escherichia coli , STP, Unk Serotype	0	4	1	2.2	0.58
Escherichia coli O157:H7	0	1	1	2.8	0.74
Encephalitis, Post Other Infection	0	0	1	0.2	0.05
Encephalitis, Primary Viral	0	0	2	1.6	0.42
Giardiasis	1	57	38	43.8	11.58
Gonorrhea	38	435	592	567	149.96
Haemophilus influenzae , Invasive Disease	0	9	8	5.8	1.53
Hemolytic Uremic Syndrome (HUS)	0	0	2	0.8	0.21
Hepatitis A	0	2	4	3	0.79
Hepatitis B, Acute	0	2	4	3	0.79
Hepatitis B, Chronic	0	39	37	29.4	7.78
Hepatitis C, Acute	0	4	5	2.8	0.74
Hepatitis C, Past or Present	8	190	215	216.6	57.29
Herpes, Congenital	0	1	1	0.4	0.11
Influenza A - novel virus infection	0	2	0	0.4	0.11
Influenza-associated hospitalization	8	194	N/A	N/A	N/A
Legionellosis	2	21	16	14.8	3.91
Listeriosis	0	4	3	3.2	0.85
Lyme Disease	0	4	1	1.4	0.37
Malaria	0	3	0	0.6	0.16
Meningitis, Aseptic	1	23	28	40.2	10.63
Meningitis, Other Bacterial	0	5	3	2.2	0.58
Meningococcal Disease	0	1	1	1.2	0.32
Mumps	1	1	3	1	0.26
Mycobacterial disease - other than tuberculosis	1	20	24	5.8	1.53
Pertussis	1	48	3	22	5.82
Rheumatic Fever	0	0	1	0.2	0.05
Rocky Mountain Spotted Fever (RMSF)	0	0	0	0.2	0.05
Salmonellosis	2	39	45	39.4	10.42
Shigellosis	0	28	213	51.8	13.70
Streptococcal Disease, Group A, Invasive	1	7	10	7.6	2.01
Streptococcal Disease, Group B, in Newborn	0	5	2	3.2	0.85
Streptococcal Toxic Shock Syndrome (STSS)	0	0	1	0.6	0.16
Streptococcus pneumo invasive antibiotic resistance unk or non-resistant	1	31	29	31	8.20
Streptococcus pneumoniae - invasive antibiotic resistant/intermediate	1	16	26	24.2	6.40
Syphilis, Total	0	9	19	10.4	2.75
Syphilis, Primary and Secondary	0	4	4	4.6	1.22
Toxic Shock Syndrome (TSS)	0	0	2	0.4	0.11
Typhoid Fever	0	0	0	0.2	0.05
Varicella	4	61	54	121	32.00
West Nile Virus	0	0	0	0.8	0.21
Yersiniosis	0	0	3	1.6	0.42

This report includes confirmed, probable and suspect cases, as reported in the Ohio Disease Reporting System (ODRS).

*Annual Rate per 100,000 population is derived from a five year average of disease incidence and for a total population of 378,098