

EPI GRAM September, 2009

A Monthly Publication of the Stark Public Health Infrastructure Coalition

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.

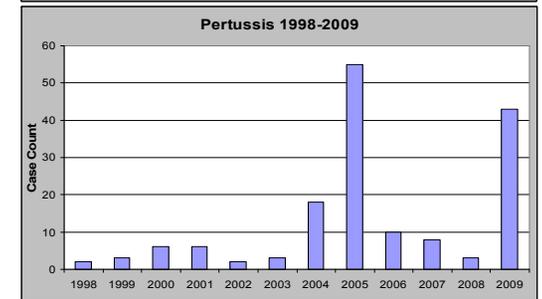
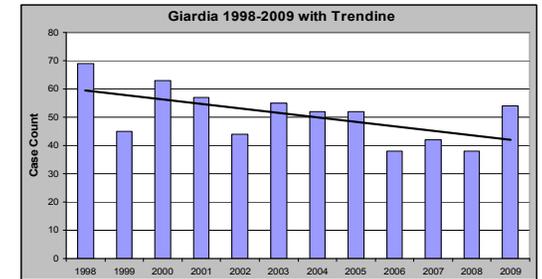
IN THE NEWS:

Pertussis and Giardia continue to escalate breaking previous downward trends. This month 12 additional cases of Pertussis and 5 cases of Giardia were reported in Stark County.

Giardia is a parasitic disease that usually causes very severe and profuse watery diarrhea and stomach cramping. The total number of Giardia cases in 2009 reported to the Ohio Department of Health is 54, possibly halting a several year declining trend in cases. Stark County cases continue to be well dispersed throughout the county, with no apparent case clustering identified.

Pertussis (commonly known as whooping cough) is a highly communicable vaccine preventable disease which may cause very severe and life threatening symptoms in the very young. In infants and small children pertussis typically presents with paroxysmal spasms of severe coughing, whooping and posttussive vomiting. In older children and adults the only symptom may be cold like symptoms and a persistent and unrelenting cough lasting greater than 2 weeks.

Pertussis surveillance indicates both nationally and locally that pertussis peaks in 3 to 5 year waves. As can be seen in the graph to the right Stark County appears to be entering another wave after several years of decreasing counts. In Stark County the pertussis case count has climbed to 43 and continues to be identified particularly in large family settings with underimmunized household contacts. Three of the 12 pertussis cases reported in September, ranging in age from 3 weeks to 3 months, were too young to be vaccinated.



Hospitalized Influenza Reporting: In August, the state of Ohio added the 2009 H1N1 Influenza strain, formerly known as Swine Flu, to its list of seasonal flu viruses. This change requires reporting of suspect cases only when associated with hospitalization or as part of an identified cluster. There were no changes made to reporting Pediatric Associated Deaths from Influenza or from Novel Influenza if a yet unknown strain of influenza is suspected. In terms of this report, Novel influenza cases are from those recognized from April through August 5th, 2009. All new cases are only reportable as described above. Details on the increasing influenza activity in Stark County can be found at the following website:

<http://www.cantonhealth.org/ophi/?pg=244>

Table 1 Summary of Air Quality Index, Pollen, and Mold Counts for Stark County, Ohio, including limited historical data.

	Sep 2009				Oct 2008			
	Monthly High	Monthly Low	Monthly Mean	Counts in highest reported health risk category	Monthly High	Monthly Low	Monthly Mean	Counts in highest reported health risk category
Pollen Count	85	5	28.5	N/A	10	1	4	N/A
Mold Count	26,360	3,380	8,790	1 High	18,430	1,170	7,994	4 High
Air Quality Index	61	28	48.35	11 Moderate	43	15	26	0 High

See the following website for source information: <http://www.cantonhealth.org>.

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

	Sep-09	YTD 2009	2008 Total
Live Births	435	3735	5169
Births to Teens	51	393	580
Deaths	241	2059	4027

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

If you have any questions, including how to receive copies of this report, please contact Karen Schanz at 330.493.9928 or Schanzk@starkhealthn.org or Christina Henning at 330.489.3327 or Chenning@cantonhealth.org.

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

Table 4-Jurisdictional summary of reportable diseases in Stark County, Ohio in September 2009.

	Alliance City		Canton City		Massillon City		Stark County		All	
	Sep	YTD	Sep	YTD	Sep	YTD	Sep	YTD	Sep	YTD
Campylobacteriosis	0	3	1	4	0	5	4	33	5	45
Chlamydia infection	6	80	49	474	13	72	48	273	116	899
Creutzfeldt-Jakob Disease	0	0	0	0	0	1	1	1	1	2
Cryptosporidiosis	1	2	0	3	0	0	0	7	1	12
Cytomegalovirus -congenital (CMV)	0	1	0	0	0	0	0	0	0	1
E. coli (STP) - Not O157:H7	0	0	0	0	0	0	0	1	0	1
E. coli (STP) O157:H7	0	0	0	0	0	0	0	3	0	3
E. coli (STP) Unknown serotype	0	0	0	0	0	1		2	0	3
Giardiasis	0	2	0	11	1	4	4	51	5	68
Gonococcal infection	0	12	19	231	2	25	8	53	29	321
Haemophilus influenzae bacterial	0	0	0	2	0	1	0	3	0	6
Hepatitis A	0	0	0	1	0	0	0	0	0	1
Hepatitis B - acute	0	0	0	0	0	0	0	2	0	2
Hepatitis B - chronic	0	2	1	9	0	4	1	21	2	36
Hepatitis C - acute	0	0	1	1	0	1	0	1	1	3
Hepatitis C - past or present	1	8	8	64	2	17	6	50	17	139
Influenza A - novel virus infection	0	0	0	0	0	0	0	2	0	2
Influenza-hospitalization	0	1	1	32	0	3	1	27	2	63
Legionellosis	0	0	0	5	0	1	1	10	1	16
Listeriosis	0	1	0	1	0	0	1	2	1	4
Lyme Disease	0	1	0	0	0	0	0	1	0	2
Malaria	0	0	0	0	0	0	0	3	0	3
Meningitis - aseptic/viral	0	3	0	0	2	2	2	9	4	14
Meningitis - bacterial	0	1	0	2	0	0	0	1	0	4
Meningococcal disease	0	0	0	0	0	0	0	1	0	1
Pertussis	2	10	0	3	7	7	3	23	12	43
Salmonellosis	0	2	0	2	1	3	3	27	4	34
Shigellosis	0	1	0	9	0	2	1	13	1	25
Streptococcal - Group A -invasive	0	0	0	1	0	0	0	5	0	6
Streptococcal-Group B- newborn	0	0	0	1	0	1	1	3	1	5
Strep pneumo, Invasive <5 Yrs	0	1	0	0	0	0	0	0	0	1
Strep pneumo, Resistant, 5+ yrs	0	1	0	4	0	1	1	4	1	10
Strep pneumo, Suscep or Unk, 5+ yrs	0	2	1	4	0	1	0	18	1	25
Syphilis, Total	0	0	2	5	0	1	0	1	2	7
Syphilis, Pr & Secondary	0	0	0	4	0	0	0	0	0	4
Varicella	1	5	0	5	0	2	4	34	5	46

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)

	Stark County Totals					
	Sep	YTD 2009	YTD 2008	All of 2008	5 Yr annual average	Rate
Amebiasis	0	0	0	0	0.4	0.11
Anaplasmosis	0	0	0	0	0.2	0.05
Campylobacteriosis	5	45	47	56	48	12.7
Chlamydia	114	896	358	1122	1174.8	310.71
Creutzfeldt-Jakob Disease	1	2	3	3	0.8	0.21
Cryptosporidiosis	1	12	19	24	17.2	4.55
Cytomegalovirus, Congenital	0	1	1	1	1	0.26
Dengue	0	0	0	0	0.2	0.05
Enceph., Post Other	0	0	1	1	0.2	0.05
Enceph, Primary viral	0	0	2	2	1.8	0.48
E. coli - enterohemorrhagic (STP) NOT O157:H7	0	1	0	0	0.2	0.05
E. coli - enterohemorrhagic (STP) O157:H7	0	3	1	1	2.8	0.74
E coli , STP, Unknown	0	3	1	1	2	0.53
Giardiasis	5	54	27	38	43.2	11.43
Gonorrhea	28	321	102	592	599	158.42
Haemo. Influz., Bacteria	0	6	7	8	5.6	1.48
Hemolitic Uremic Syndrome	0	0	2	2	0.8	0.21
Hepatitis A	1	2	4	4	2.8	0.74
Hep B, Acute	0	2	3	4	3.4	0.9
Hep B, Chronic	2	34	25	35	23.6	6.24
Hep C, Acute	1	3	3	5	1.8	0.48
Hep C, Past or Present	17	140	167	215	221.5	58.58
Herpes, Congenital	0	0	1	1	0.4	0.11
Influenza A - novel virus infection	0	2	0	0	0	0
Influenza-Hospitalized	2	62		N/A	N/A	N/A
LaCrosse Encephalitis	0	0	0	0	0.2	0.05
Legionellosis	1	16	14	16	12	3.17
Listeriosis	1	4	2	3	2.8	0.74
Lyme Disease	0	2	1	1	0.6	0.16
Malaria	0	3	0	0	0.2	0.05
Meningitis, Asep	4	14	22	28	44.4	11.74
Meningitis Bac.	0	4	3	3	1.8	0.48
Meningococcal Dis.	0	1	1	1	1.4	0.37
Mumps	0	0	2	3	0.8	0.21
Pertussis	12	43	3	3	16	4.23
Rheumatic fever	0	0	1	1	0.2	0.05
Rocky Mountain Spotted	0	0	0	0	0.2	0.05
Salmonellosis	4	34	27	44	41.4	10.95
Shigellosis	1	25	134	213	46.6	12.32
Strep Inv A GAS	0	6	10	10	7.6	2.01
Strep B Newborn	1	5	2	2	2.8	0.74
Strep toxic shock (STSS)	0	0	1	1	0.8	0.21
Streptococcus pneumoniae , Invasive Disease, Ages < 5 Yrs	0	1	3	3	4.8	1.27
Strep pneumo, Invasive Disease, Drug Resistant, Ages 5+ Yrs	1	10	22	25	21	5.55
Strept pneumo, Invasive, Susceptible or Unk, Ages 5+ Yrs	1	25	19	27	24.8	6.56
Syphilis, Total	2	7	11	17	22.8	6.03
Syphilis, Pri & Secondary	0	4		11	9.4	2.49
Toxic shock syndrome (TSS)	0	0	1	2	0.4	0.11
Toxoplasmosis, Congenital	0	0	0	0	0	0
Typhoid Fever	0	0	0	0	0.2	0.05
Varicella#	5	46	40	54	136	35.97
Vibriosis (Not Cholera)	0	0	0	0	0.2	0.05
West Nile Virus	0	0	0	0	1.2	0.32
Yersiniosis	0	0	3	3	2.4	0.63

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 on a total population of 378,098