

# EPI GRAM August, 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:** Since January of this year, 31 cases of pertussis have been identified in Stark County. This is greater than the previous three years combined and above our 5-year average. The average age of the 2009 cases is 13 years, with a median of 10 years. Five of the affected were 6 months of age or under. These infants, all too young to be vaccinated, were exposed by unvaccinated and/or undervaccinated household contacts with extended and undiagnosed pertussis symptoms. The primary reason stated for not receiving full vaccinations within the affected households was due to religious beliefs. The cases have been spread throughout our county with no jurisdiction left unaffected.

Of particular concern at this time of year, is that the catarrhal stage of pertussis presents with mild flu like symptoms. Thus, with our elevated influenza activity currently present in the community, it is possible that further cases will go undiagnosed. Vigilance in distinguishing early cases of pertussis from the relatively mild strain of 2009 H1N1 influenza A is necessary to reduce the burden of both diseases in our community. Immunization remains the most effective means of prevention for both of these diseases, while the 2009 H1N1 Influenza A vaccine is currently not available; there is no shortage of pertussis containing vaccine for children and adults.

**Novel Influenza A H1N1:** 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 5<sup>th</sup>, 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/flu\\_reports.htm](http://www.cantonhealth.org/flu_reports.htm).

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

	Aug 2009				Sep 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	75	25	49	N/A	195	5	51.9	N/A
Mold Count	13,710	1,270	5,902	1 High	20,140	3,250	9,145	2 High
Air Quality Index	94	19	56.1	14 Moderate	64	23	35.8	2 High

See the following website for source information: [http://www.cantonhealth.org/air\\_quality.htm](http://www.cantonhealth.org/air_quality.htm).

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

	Aug-09	YTD 2009	2008 Total
Live Births	384	3300	5169
Births to Teens	42	345	580
Deaths	207	1818	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@starkhealth.org](mailto:Schanzk@starkhealth.org) or Christina Henning at 330.489.3327 or [Chenning@cantonhealth.org](mailto: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 August 2009.**

	Alliance City		Canton City		Massillon City		Stark County		All	
	Aug	YTD	Aug	YTD	Aug	YTD	Aug	YTD	Aug	YTD
Campylobacteriosis	0	3	1	3	3	5	2	29	6	40
Chlamydia infection	4	74	45	433	6	60	29	227	84	794
Creutzfeldt-Jakob Disease	0	0	0	0	0	1	0	0	0	1
Cryptosporidiosis	0	1	0	3	0	0	2	7	2	11
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	1	3	1	3
E. coli (STP) Unknown serotype	0	0	0	0	0	1	0	2	0	3
Ehrlichiosis-Ehrlichia chaffeensis	0	0	0	0	0	0	0	0	0	0
Giardiasis	0	2	1	11	0	3	2	33	3	49
Gonococcal infection	3	12	27	215	2	23	4	47	36	297
Haemophilus influenzae bacterial	0	0	0	2	0	1	0	3	0	6
Hepatitis A	0	0	0	1	0	0	0		0	1
Hepatitis B - acute	0	0	0	0	0	0	0	2	0	2
Hepatitis B - chronic	1	2	2	8	1	4	5	18	9	32
Hepatitis C - acute	0	0	0	0	0	1	0	1	0	2
Hepatitis C - past or present	3	7	1	56	0	15	8	44	12	122
Influenza A - novel virus infection	0	0	0	0	0	0	0	2	0	2
Influenza-hospitalization	0	1	1	31	0	3	0	25	1	60
Legionellosis	0	0	1	5	0	1	5	9	6	15
Listeriosis	1	1	1	1	0	0	0	1	2	3
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	0	0	1	7	1	10
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	0	8	0	3	0	0	8	20	8	31
Salmonellosis	0	2	1	2	0	2	3	24	4	30
Shigellosis	0	1	0	9	0	2	0	12	0	24
Streptococcal - Group A -invasive	0	0	0	1	0	0	0	5	0	6
Streptococcal-Group B- newborn	0	0	0	1	1	1	1	2	2	4
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	0	3	0	9
Strep pneumo, Suscep or Unk, 5+ yrs	0	2	0	3	0	1	0	18	0	24
Syphilis, Total	0	0	0	4	1	1	0	1	1	6
Syphilis, Pr & Secondary	0	0	0	4	0	0	0	0	0	4
Varicella	0	4	0	5	0	2	2	30	2	41

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					
	Aug	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	6	40	40	56	48	12.7
Chlamydia	84	794		1122	1174.8	310.71
Creutzfeldt-Jakob Disease	0	1	3	3	0.8	0.21
Cryptosporidiosis	2	11	18	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	0	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	1	3	1	1	2.8	0.74
E coli , STP, Unknown	0	3	1	1	2	0.53
Giardiasis	3	49	24	38	43.2	11.43
Gonorrhea	36	297		592	599	158.42
Haemo. Influz., Bacteria	0	6	7	8	5.6	1.48
Hemolitic Uremic Syndrome	0	0	1	2	0.8	0.21
Hepatitis A	0	1	3	4	2.8	0.74
Hep B, Acute	0	2	3	4	3.4	0.9
Hep B, Chronic	9	32	25	35	23.6	6.24
Hep C, Acute	0	2	3	5	1.8	0.48
Hep C, Past or Present	12	122	153	215	221.5	58.58
Herpes, Congenital	0	0	0	1	0.4	0.11
Influenza A - novel virus infection	0	2	0	0	0	0
Influenza-Hospitalized	1	60	N/A	N/A	N/A	N/A
LaCrosse Encephalitis	0	0	0	0	0.2	0.05
Legionellosis	6	15	10	16	12	3.17
Listeriosis	2	3	2	3	2.8	0.74
Lyme Disease	0	2	0	1	0.6	0.16
Malaria	0	3	0	0	0.2	0.05
Meningitis, Asep	1	10	20	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	8	31	1	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	30	23	44	41.4	10.95
Shigellosis	0	24	114	213	46.6	12.32
Strep Inv A GAS	0	6	10	10	7.6	2.01
Strep B Newborn	2	4	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	0	9	19	25	21	5.55
Strept pneumo, Invasive, Susceptible or Unk, Ages 5+ Yrs	0	24	19	27	24.8	6.56
Syphilis, Total	1	6	8	17	22.8	6.03
Syphilis, Pri & Secondary	0	4		11	9.4	2.49
Toxic shock syndrome (TSS)	0	0	0	2	0.4	0.11
Toxoplasmosis, Congenital	0	0	0	0	0	0
Typhoid Fever	0	0	0	0	0.2	0.05
Varicella#	2	41	36	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