

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:

Shigellosis: May 19, 2008 marked the day that Shigellosis took an unflinching hold in our community. This year (01/01/2008-08/06/2008) we have received at least 87 reported cases. This is more than double any of the previous 11 years, and more than has been reported in the previous 8 years combined. The cases are primarily associated with person-to-person spread among daycare attendees and secondary spread to family members (76%). Other cases are associated with swimming in unchlorinated water sources such as kiddie-style wading pools (7%). The cases range in age from 1 to 59 years with a median of 6 years; 58 (76%) are Female and the remaining 29 (33%) are Male. The cases are geographically clustered in an area from central Stark County out to the Western border through Massillon and Navarre and areas North. These clusters are closely associated with either locations of daycares or neighborhood kiddie pools.

In order to curb the ongoing spread, strict restriction policies have been established in all affected daycares. Confirmed cases from daycares must wait 48 hours after antibiotic use to obtain two negative stools collected 24 hours apart before reentering the daycare. Daycares are also screening all classroom contacts of confirmed cases. Physicians have been asked to screen suspect cases and their family members, as well as to educate patients on the need for hand washing and to remain out of recreational water activities for at least 14 days after a diarrheal episode. Health Alert Network messages were sent to all known daycares in Stark County as well as to select physicians, emergency rooms and other key personnel. These messages helped to explain the need for testing, education, and vigilance on the part of daycare operators and parents.

It is the public health departments' firm belief that a response to a public health event cannot be accomplished by public health departments alone, and can only be overcome with the assistance of our public health partners. As a team we hope that Shigella can be brought under control in our community.

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

	May 2008				June 2007			
	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	2320	5	407	N/A	185	15	70.75	N/A
Mold Count	8190	630	4115	2 Moderate	13160	3460	6928	1 High
Air Quality Index	67	25	41.8	3 Moderate	89	23	51.9	8 Moderate

Pollen and Mold counts are derived from rotorod samples on the 2nd story roof of Canton City Hall. The readings are from a 24 hour period/24 hour avg. on all work days. Mold counts of 6,500-12,999 are moderate and many individuals sensitive to molds may experience symptoms. Counts of 13,000 to 49,999 are high and most individuals with any sensitivity to molds will experience symptoms. These indices are produced from March to October. The Air Quality Index (AQI) is derived by comparison to EPA standards from the following readings: Particulate Matter 10, Particulate Matter 2.5 continuous monitoring on CCHD 2nd floor roof top; Sulfur Dioxide at Malone College; and ozone monitors in Canton, Brewster, Alliance, and Middlebranch. AQI ratings are 151-200: unhealthy (UH); 101-150: unhealthy for sensitive groups (UH sg); 51-100: moderate (M); 0-50: good (g).

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

	May 2008	YTD 2008	2007
Live Births	406	2013	5057
Births to Teens	34	223	537
Deaths	331	1906	4061

Due to the current method of reporting live births, 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.

	2003	2004	2005	2006	2007
Birth	1260	1240	1211	1282	1342
Death	1110	1040	1140	1076	1076

Table 4 – Summary of Select Reportable Diseases for May 2008 in Stark County, Ohio (provisional data only)

Refer to “Case Definitions for Infectious Conditions Under Public Health Surveillance,” MMWR (Morbidity and Mortality Weekly Report) 1997; 46 (No. RR-10), the Ohio Department of Health Infectious Disease Control Manual or visit www.cdc.gov/epo/dphsi/casedef/index.htm for case definitions.

This report includes confirmed, probable and suspect cases.

	Alliance City			Canton City			Massillon City			Stark County			Stark County Totals			
	May 2008	YTD 2008	YTD 2007	May 2008	YTD 2008	YTD 2007	May 2008	YTD 2008	YTD 2007	May 2008	YTD 2008	YTD 2007	May 2008	YTD 2008	YTD 2007	5 Year annual average
Amebiasis	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.4
Campylobacteriosis	0	0	0	1	1	1	0	1	1	1	6	8	2	8	10	51.8
Chlamydia	6	33	29	62	273	182	4	36	17	25	120	97	97	462	325	1126.4
Creutzfeldt-Jakob Ds	0	0	0	0	1	0	0	0	0	0	1	0	0	2	0	0.6
Cryptosporidiosis	0	0	0	0	1	1	0	0	2	1	5	3	1	6	6	14
E Coli 0157	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2.4
E Coli	0	0	0	0	0	0	0	0	0	0	1	0	0	1	0	3
Enceph., WNV	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3.6
Enceph., Other	1	1	0	0	0	0	0	0	0	0	1	0	1	2	0	2.8
Giardiasis	0	1	3	0	3	1	1	1	2	2	11	6	3	16	12	49.2
Gonorrhea	1	10	7	26	159	154	3	14	16	8	37	46	38	220	223	646
Haemo. Influz., Bac	0	0	0	0	2	1	0	0	0	1	2	0	1	4	1	5.8
Hepatitis A	0	0	1	0	0	0	2	2	0	0	0	0	2	2	1	8
Hepatitis B*	1	1	0	0	6	4	0	3	2	0	5	4	1	15	10	44.6
Hepatitis C*#	2	13	8	5	27	36	0	10	3	12	43	38	19	93	85	273.5
Kawasaki Syndrome	0	0	0	1	1	0	0	0	0	0	0	0	1	1	0	3.6
Legionellosis	0	0	0	0	1	0	0	0	0	2	3	0	2	4	0	12.2
Listeriosis	0	0	0	0	0	0	0	0	0	0	2	1	0	2	1	2.4
Lyme Disease	0	0	0	0	0	0	0	0	1	0	3	0	0	3	1	2.6
Malaria	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.8
Meningitis, Asep	0	1	0	0	2	5	0	0	1	1	3	4	1	6	10	53.8
Meningitis Bac.	0	0	0	1	1	0	0	0	0	1	2	0	2	3	0	4.4
Meningococcal Dis.	0	0	0	0	0	0	0	0	0	0	1	1	0	1	1	2.4
Mumps	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0.4
Pertussis	0	0	0	0	0	2	0	0	0	0	0	5	0	0	7	17
Salmonellosis	0	0	2	1	1	2	0	0	0	3	9	7	4	10	11	49.4
Shigellosis	0	0	0	4	11	0	1	1	0	3	5	0	8	17	0	11.8
Strep Inv A GAS	0	0	0	1	1	3	0	0	0	1	8	2	2	9	5	12.2
Strep B Newborn	0	0	0	0	0	0	0	0	0	1	2	0	1	2	0	2
Strep Pneu ISP	0	1	0	0	6	9	0	2	1	3	23	14	3	32	24	47.8
Strep TSS	0	1	0	0	0	0	0	0	0	0	1	2	0	2	2	0.4
Syphilis	0	0	0	0	0	0	0	1	0	0	0	3	0	1	3	21.6
Typhoid Fever	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.4
Varicella#	0	2	5	0	6	16	0	1	4	3	23	77	3	32	102	
Vibriosis	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.2
Yersiniosis	0	0	0	0	1	0	0	0	0	0	2	4	0	3	4	2

*This includes all hepatitis reports; acute, chronic, and status not known. # Incomplete 5 yr average due to a change in reporting.

If you have any questions, including how to receive copies of this report, please contact Karen Schanz at (330) 493-9928 x287 or Schanzk@starkhealth.org or Christina Henning at (330) 489-3327 or Chenning@cantonhealth.org.