

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: Seven cases of Pertussis have been confirmed in Stark County this year. These cases are unique from those seen during the previous 4 years. Additionally, there is a concern that the pattern of illness could be a precursor to a community-wide outbreak. Our last community outbreak was observed in 2005 when 52 cases were identified. All of our current cases are:

- children and infants from 2 weeks to 9 years of age,
- all children eligible for vaccination were vaccinated in accordance with APIC recommendations, 2 were too young for any vaccinations,
- 6 of the 7 have no known source of illness,
- the youngest infant required intubation and nearly a two week hospitalization.

The Centers for Disease Control and Prevention (CDC) describes, “The primary goal of pertussis outbreak control efforts is to decrease morbidity and mortality among infants; a secondary goal is to decrease morbidity among persons of all ages.” With 6 out of 7 cases of Pertussis reported this year having no known source of illness, the community as a whole must respond to reduce the burden of disease in the youngest and least tolerant in our society. Suggested efforts to prevent morbidity in infants within our medical community include all of the following:

- vaccinate all eligible medical personnel with the Tdap vaccine, particularly those having contact with pregnant women and under vaccinated youth;
- include pertussis in your rule out diagnosis in patients with unknown source of cough illness greater than 2 weeks;
- strongly encourage Tdap vaccination in parents, caregivers, and household contacts of newborns. If they are unable to afford a vaccination, one may be available at their local health department;
- instruct patients on risk reduction, including avoidance of symptomatic family and friends and proper vaccination;
- spread the word and protect our infants. Pertussis is preventable!

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

| | May 2010 | | | | Jun 2009 | | | |
|-------------------|--------------|-------------|----------------|---|--------------|-------------|----------------|---|
| | Monthly High | Monthly Low | Monthly Median | Counts in highest reported health risk category | Monthly High | Monthly Low | Monthly Median | Counts in highest reported health risk category |
| Pollen Count | 445 | 9 | 162 | N/A | 100 | 5 | 51.8 | N/A |
| Mold Count | 5690 | 760 | 2896 | All at Low Levels | 7100 | 2570 | 4586 | 2 Moderate Level |
| Air Quality Index | 116 | 26 | 56.6 | ** 2 Unhealthy for Sensitive Groups. | 80 | 34 | 51.3 | ** 8 .Moderate |

**See the following website for updated Air Quality Index terminology and color coding <http://www.airnow.gov/index.cfm?action=aqibasics.aqi> Data source for this table is the Air Quality Division of the Canton City Health Department.

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

| | May-2010 | YTD 2010 | 2009 Total |
|-----------------|----------|----------|------------|
| Live Births | 405 | 1849 | 4839 |
| Births to Teens | 37 | 196 | 521 |
| Deaths | 348 | 1650 | 4110 |

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

*Source: Ohio Department of Health Data Warehouse

| | 2004 | 2005 | 2006 | 2007 | 2008 |
|-------|-------|-------|-------|-------|-------|
| Birth | 1172* | 1163* | 1191* | 1190* | 1166* |
| Death | 971* | 1022* | 1000* | 1035* | 1067 |

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 or Christina Henning at 330.489.3327 or Chenning@cantonhealth.org.

Table 4: Jurisdictional summary of reportable diseases in Stark County, Ohio

| | Alliance City | | Canton City | | Massillon City | | Stark County | | All | |
|--|---------------|-----|-------------|-----|----------------|-----|--------------|-----|-----|-----|
| | May | YTD | May | YTD | May | YTD | May | YTD | May | YTD |
| Campylobacteriosis | 0 | 0 | 3 | 5 | 0 | 2 | 1 | 5 | 4 | 12 |
| Chlamydia infection | 14 | 43 | 70 | 305 | 8 | 53 | 33 | 174 | 125 | 575 |
| Creutzfeldt-Jakob Disease | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Cryptosporidiosis | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 5 | 1 | 5 |
| Cytomegalovirus -congenital (CMV) | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| E. coli (STP) - Not O157:H7 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| E. coli (STP) O157:H7 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 0 | 2 |
| E. coli (STP) Unknown serotype | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Giardiasis | 0 | 0 | 1 | 3 | 0 | 1 | 1 | 8 | 2 | 12 |
| Gonococcal infection | 5 | 13 | 18 | 83 | 3 | 17 | 17 | 50 | 43 | 163 |
| Haemophilus influenzae bacterial | 0 | 0 | 0 | 1 | 0 | 0 | 1 | 2 | 1 | 3 |
| Hepatitis A | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Hepatitis B - acute | 0 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 2 |
| Hepatitis B - chronic | 2 | 3 | 4 | 8 | 0 | 0 | 1 | 8 | 7 | 19 |
| Hepatitis C - acute | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 1 |
| Hepatitis C - past or present | 1 | 9 | 5 | 33 | 2 | 14 | 6 | 43 | 14 | 99 |
| Influenza A - novel virus infection | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Influenza-hospitalization | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 1 |
| Legionellosis | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 1 | 0 | 2 |
| Listeriosis | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Lyme Disease | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 1 |
| Malaria | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 1 |
| Meningitis - aseptic/viral | 0 | 1 | 1 | 4 | 0 | 0 | 1 | 7 | 2 | 12 |
| Meningitis - bacterial | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Meningococcal disease | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 1 |
| Mumps | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| Mycobacterial disease - other than tuberculosis | 0 | 2 | 1 | 3 | 0 | 0 | 2 | 7 | 3 | 12 |
| Pertussis | 2 | 2 | 1 | 1 | 0 | 0 | 1 | 4 | 4 | 7 |
| Salmonellosis | 0 | 1 | 2 | 3 | 0 | 0 | 5 | 9 | 7 | 13 |
| Shigellosis | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 4 | 0 | 4 |
| Streptococcal - Group A -invasive | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 0 | 2 |
| Streptococcal-Group B- newborn | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 1 | 0 | 2 |
| Streptococcus pneumoniae - invasive antibiotic resistance unknown or non-resistant | 0 | 0 | 1 | 1 | 0 | 0 | 2 | 10 | 3 | 11 |
| Streptococcus pneumoniae - invasive antibiotic resistant/intermediate | 0 | 0 | 0 | 3 | 0 | 1 | 0 | 3 | 0 | 7 |
| Syphilis, Total | 0 | 2 | 0 | 2 | 0 | 0 | 1 | 2 | 1 | 6 |
| Syphilis, Pr & Secondary | 0 | 1 | 0 | 0 | 0 | 0 | 1 | 2 | 1 | 3 |
| Varicella | 0 | 2 | 1 | 3 | 0 | 0 | 10 | 18 | 11 | 23 |

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 | | | | | |
|--|---------------------|----------|----------|-------------|---------------------|--------|
| | May 2010 | YTD 2010 | YTD 2009 | All of 2009 | 5 Yr annual average | Rate |
| Amebiasis | 0 | 0 | 0 | 0 | 0.2 | 0.05 |
| Anaplasmosis | 0 | 0 | 0 | 0 | 0.2 | 0.05 |
| Campylobacteriosis | 4 | 11 | 21 | 55 | 50.8 | 13.44 |
| Chlamydia | 125 | 575 | 488 | 1199 | 1216 | 321.61 |
| Creutzfeldt-Jakob Disease | 0 | 0 | 1 | 3 | 1.4 | 0.37 |
| Cryptosporidiosis | 1 | 5 | 8 | 19 | 18.6 | 4.92 |
| Cytomegalovirus, Congenital | 0 | 0 | 1 | 1 | 1.2 | 0.32 |
| Dengue | 0 | 0 | 0 | 0 | 0.2 | 0.05 |
| Enceph., Post Other | 0 | 0 | 0 | 0 | 0.2 | 0.05 |
| Enceph, Primary viral | 0 | 0 | 0 | 0 | 1.6 | 0.42 |
| E. coli - enterohemorrhagic (STP) NOT O157:H7 | 0 | 0 | 1 | 3 | 0.4 | 0.11 |
| E. coli - enterohemorrhagic (STP) O157:H7 | 0 | 2 | 2 | 4 | 2.8 | 0.74 |
| E coli , STP, Unknown | 0 | 0 | 0 | 1 | 2.2 | 0.58 |
| Giardiasis | 2 | 12 | 37 | 57 | 43.8 | 11.58 |
| Gonorrhea | 42 | 162 | 181 | 442 | 567 | 149.96 |
| Haemo. Influz., Bacteria | 1 | 3 | 6 | 9 | 5.8 | 1.53 |
| Hemolitic Uremic Syndrome | 0 | 0 | 0 | 0 | 0.8 | 0.21 |
| Hepatitis A | 0 | 0 | 1 | 2 | 3 | 0.79 |
| Hep B, Acute | 0 | 3 | 2 | 2 | 3 | 0.79 |
| Hep B, Chronic | 7 | 19 | 18 | 39 | 29.4 | 7.78 |
| Hep C, Acute | 0 | 1 | 1 | 4 | 2.8 | 0.74 |
| Hep C, Past or Present | 14 | 100 | 69 | 193 | 216.6 | 57.29 |
| Herpes, Congenital | 0 | 0 | 0 | 1 | 0.4 | 0.11 |
| Influenza A - novel virus infection | 0 | 0 | 0 | 2 | 0.4 | 0.11 |
| Influenza-Hospitalized | 0 | 1 | 59 | 195 | N/A | N/A |
| Legionellosis | 0 | 2 | 3 | 21 | 14.8 | 3.91 |
| Listeriosis | 0 | 0 | 1 | 5 | 3.2 | 0.85 |
| Lyme Disease | 0 | 1 | 0 | 4 | 1.4 | 0.37 |
| Malaria | 0 | 1 | 0 | 3 | 0.6 | 0.16 |
| Meningitis, Asep | 2 | 12 | 3 | 23 | 40.2 | 10.63 |
| Meningitis Bac. | 0 | 0 | 2 | 5 | 2.2 | 0.58 |
| Meningococcal Dis. | 0 | 1 | 1 | 1 | 1.2 | 0.32 |
| Mumps | 0 | 1 | 0 | 1 | 1 | 0.26 |
| Mycobacterial disease - other than tuberculosis | 3 | 12 | 5 | 20 | 5.6 | 1.47 |
| Pertussis | 4 | 7 | 18 | 48 | 22 | 5.82 |
| Rheumatic fever | 0 | 0 | 0 | 0 | 0.2 | 0.05 |
| Rocky Mountain Spotted | 0 | 0 | 0 | 0 | 0.2 | 0.05 |
| Salmonellosis | 8 | 14 | 16 | 39 | 39.4 | 10.42 |
| Shigellosis | 0 | 4 | 23 | 29 | 51.8 | 13.7 |
| Strep Inv A GAS | 0 | 2 | 5 | 7 | 7.6 | 2.01 |
| Strep B Newborn | 0 | 2 | 1 | 6 | 3.2 | 0.85 |
| Strep toxic shock (STSS) | 0 | 0 | 0 | 0 | 0.6 | 0.16 |
| Streptococcus pneumoniae - invasive antibiotic resistance unknown or non-resistant | 3 | 11 | 24 | 31 | 31 | 8.2 |
| Streptococcus pneumoniae - invasive antibiotic resistant/intermediate | 0 | 7 | 7 | 16 | 24.2 | 6.4 |
| Syphilis, Total | 1 | 6 | 4 | 9 | 14 | 3.7 |
| Syphilis, Pri & Secondary | 1 | 3 | 3 | 4 | 4.6 | 1.22 |
| Toxic shock syndrome (TSS) | 0 | 0 | 0 | 0 | 0.4 | 0.11 |
| Typhoid Fever | 0 | 0 | 0 | 0 | 0.2 | 0.05 |
| Varicella# | 10 | 23 | 34 | 61 | 121 | 32 |
| West Nile Virus | 0 | 0 | 0 | 0 | 0.8 | 0.21 |
| Yersiniosis | 0 | 0 | 0 | 0 | 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 on a total population of 378,098