

EPI Gram is a bimonthly publication of the Stark County Public Health Infrastructure 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.

Monthly Highlight: Hand, Foot, and Mouth Disease

Stark County has had three daycare based Hand, Foot, and Mouth Disease outbreaks in the month of June. These were preceded by daycare outbreaks in both April and May. Coxsackie16 is the most common virus seen to cause Hand, Foot, and Mouth Disease, though Enterovirus71 has also been associated with such outbreaks. This virus initially causes a fever and then after a day or two leads to sores which form in the back of the mouth. A skin rash may also develop with blisters on the palms of the hands and feet as well as knees and elbows. Transmission can occur through the fluid in the blisters as well as through general nose and throat secretions and the stool. It can spread through personal contact, contact with infected feces, contact with infected objects or surfaces and through the air when someone coughs or sneezes. Warmer weather seems to favor transmission of these viruses and so it is typical to see an increase in such cases during the summer and fall months. Complications may occur with Hand, Foot, and Mouth Disease including viral or “aseptic” meningitis. At this time there is no treatment for this disease except to treat the symptoms such as medications to reduce the fever and pain and making sure the child stays hydrated. Prevention is pertinent and a child’s risk can be reduced by maintain good hand washing habits and avoiding close contact with someone who has the disease.



Recommended Exclusion Criteria Among Daycare Facilities for Hand, Foot, and Mouth Disease:

- Children should be excluded from the facility until their sores are no longer seeping.
- Infants or babies that are drooling should be excluded from the facility until they no longer have sores in their mouths.
- Facility employees should be aware that children are still infectious through their stool for up to a month after sores disappear.

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

| | June 2014 | | | | July 2013 | | | |
|-------------------|--------------|-------------|----------------|---|--------------|-------------|----------------|---|
| | 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 | 350 | 5 | 50 | N/A | 25 | 5 | 10 | N/A |
| Mold Count | 11,280 | 1,840 | 5,210 | 6 Moderate | 12,750 | 1,700 | 4,370 | 4 Moderate |
| Air Quality Index | 65 | 25 | 42 | 3 Moderate | 60 | 27 | 46.5 | 8 Moderate |

**See the following websites for updated Air Quality Index and mold index terminology and color-coding <http://www.airnow.gov/index.cfm?action=aqibasics.aqi> https://pollen.aaaai.org/nab/index.cfm?p=reading_charts
Data source for this table is the Air Quality Division of the Canton City Health Department.

Table 2 Summaries of Select Vital Statistics for Stark County

| | June 2014 | YTD 2014 | 2013 |
|-----------------|-----------|----------|-------|
| Live Births | 422 | 2,029 | 4,211 |
| Births to Teens | 29 | 171 | 370 |
| Deaths | 405 | 2,254 | 4,229 |

Birth and Death Data is reported by the 4 health districts and may include non county residents.

Table 3 Stark County Crude Birth Rate and Death Rates

| | 2008 | 2009 | 2010 | 2011 | 2012 |
|-------|------|------|------|------|------|
| Birth | 11.8 | 11.4 | 10.8 | 10.8 | 10.9 |
| Death | 11.4 | 10.9 | 10.9 | 11.3 | 11.4 |

*Source: Ohio Department of Health Data Warehouse. Rates are per 1,000 population.

If you have any questions, including how to receive copies of this report, please contact Julia Wagner at 330.493.9914 or Wagnerj@starkhealth.org.

Table 4: Jurisdictional Summary of Reportable Diseases in Stark County, OH

| | Alliance City | | Canton City | | Massillon City | | Stark County | | All of Stark County | |
|--|---------------|-----|-------------|-----|----------------|-----|--------------|-----|---------------------|-----|
| | June | YTD | June | YTD | June | YTD | June | YTD | June | YTD |
| Campylobacteriosis | 0 | 1 | 3 | 10 | 0 | 0 | 6 | 22 | 9 | 33 |
| Chlamydia infection | 11 | 44 | 51 | 348 | 13 | 84 | 44 | 316 | 119 | 792 |
| Cryptosporidiosis | 0 | 1 | 0 | 0 | 1 | 2 | 1 | 11 | 2 | 14 |
| E. coli-Not O157:H7 | 0 | 0 | 0 | 2 | 0 | 0 | 0 | 1 | 0 | 3 |
| Giardiasis | 0 | 0 | 0 | 1 | 0 | 0 | 1 | 3 | 1 | 4 |
| Gonococcal infection | 1 | 44 | 26 | 194 | 2 | 21 | 12 | 80 | 41 | 339 |
| Haemophilus Influenzae | 0 | 0 | 1 | 2 | 0 | 0 | 0 | 1 | 1 | 3 |
| Hepatitis A | 0 | 1 | 0 | 0 | 1 | 1 | 0 | 2 | 1 | 4 |
| Hepatitis B - Acute | 0 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 2 |
| Hepatitis B - chronic | 0 | 1 | 0 | 3 | 1 | 5 | 1 | 19 | 2 | 28 |
| Hepatitis C - Acute | 0 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 2 |
| Hepatitis C - chronic | 1 | 4 | 3 | 53 | 3 | 17 | 13 | 66 | 20 | 140 |
| Influenza-associated hospitalization | 0 | 10 | 0 | 48 | 0 | 15 | 0 | 130 | 0 | 203 |
| Legionellosis | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 1 |
| Lyme Disease | 0 | 0 | 0 | 1 | 0 | 0 | 1 | 2 | 1 | 3 |
| Measles-indigenous to Ohio | 0 | 0 | 0 | 0 | 0 | 0 | 6 | 7 | 6 | 7 |
| Meningitis - aseptic/viral | 0 | 0 | 0 | 4 | 0 | 0 | 0 | 7 | 0 | 11 |
| Meningitis - bacterial (Not N. meningitidis) | 0 | 0 | 1 | 1 | 0 | 0 | 0 | 1 | 1 | 2 |
| Meningococcal disease | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 1 |
| Mumps | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 3 | 2 | 3 |
| Mycobacterial disease - other than tuberculosis | 0 | 0 | 1 | 6 | 0 | 1 | 4 | 11 | 5 | 18 |
| Pertussis | 0 | 1 | 4 | 7 | 0 | 8 | 4 | 20 | 8 | 36 |
| Salmonellosis | 0 | 0 | 2 | 3 | 0 | 0 | 3 | 15 | 5 | 18 |
| Shigellosis | 0 | 3 | 2 | 27 | 0 | 1 | 1 | 18 | 3 | 49 |
| Streptococcal - Group A - invasive | 0 | 0 | 0 | 1 | 0 | 0 | 1 | 6 | 1 | 7 |
| Streptococcal toxic shock syndrome (STSS) | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 1 | 0 | 2 |
| Streptococcus pneumoniae - invasive antibiotic resistance unknown or non-resistant | 0 | 4 | 0 | 7 | 0 | 1 | 0 | 5 | 0 | 17 |
| Streptococcus pneumoniae - invasive antibiotic resistant/intermediate | 0 | 0 | 0 | 1 | 0 | 0 | 1 | 3 | 1 | 4 |
| Syphilis, Total | 2 | 2 | 0 | 0 | 2 | 2 | 0 | 0 | 2 | 4 |
| Syphilis, Primary and Secondary | 2 | 2 | 0 | 0 | 2 | 2 | 0 | 0 | 2 | 4 |
| Varicella | 0 | 0 | 2 | 3 | 0 | 0 | 0 | 10 | 2 | 13 |
| Vibriosis-Other (not cholera) | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 1 |

Source: Ohio Disease Reporting System, downloaded 7/14/2014.

Table 5–Summary Table of Diseases Reported in the Previous 5 years within Stark County

| (Provisional Data) | June 2014 | June 2013 | YTD 2014 | YTD 2013 | All of 2013 | 5 Yr Annual Average | 5 Yr Annual Rate |
|--|-----------|-----------|----------|----------|-------------|---------------------|------------------|
| Brucellosis | 0 | 0 | 0 | 0 | 0 | 0.2 | 0.053 |
| Campylobacteriosis | 9 | 11 | 33 | 31 | 67 | 55.4 | 14.75 |
| Chlamydia | 119 | 109 | 792 | 788 | 1445 | 1391 | 370.46 |
| Coccidioidomycosis | 0 | 0 | 0 | 0 | 0 | 0.2 | 0.053 |
| Creutzfeldt-Jakob Disease | 0 | 0 | 0 | 1 | 1 | 1.2 | 0.32 |
| Cryptosporidiosis | 2 | 1 | 14 | 14 | 26 | 25.8 | 6.87 |
| Cyclosporiasis | 0 | 0 | 0 | 0 | 1 | 0.2 | 0.053 |
| Dengue | 0 | 0 | 0 | 0 | 0 | 0.8 | 0.213 |
| Escherichia coli , STP, Not O157:H7 | 0 | 0 | 03 | 2 | 2 | 1.8 | 0.479 |
| Escherichia coli O157:H7 | 0 | 0 | 0 | 0 | 0 | 2.4 | 0.639 |
| Escherichia coli , STP, Unk Serotype | 0 | 0 | 0 | 0 | 0 | 0.6 | 0.16 |
| Ehrlichiosis/Anaplasmosis | 0 | 0 | 0 | 0 | 1 | 0.4 | 0.107 |
| Giardiasis | 1 | 4 | 4 | 27 | 37 | 52.6 | 14.01 |
| Gonorrhea | 41 | 53 | 339 | 315 | 612 | 543.2 | 144.63 |
| Haemophilus influenzae , Invasive | 1 | 0 | 3 | 5 | 7 | 8 | 2.13 |
| Hepatitis A | 1 | 0 | 4 | 2 | 8 | 3.4 | 0.91 |
| Hepatitis B-Perinatal | 0 | 0 | 0 | 0 | 6 | 2.4 | 0.639 |
| Hepatitis B, Acute | 0 | 1 | 2 | 7 | 8 | 4.4 | 1.172 |
| Hepatitis B, Chronic | 2 | 2 | 28 | 10 | 22 | 32.4 | 8.627 |
| Hepatitis C, Acute | 0 | 0 | 2 | 5 | 7 | 5.6 | 1.491 |
| Hepatitis C, Chronic | 20 | 9 | 140 | 102 | 202 | 231 | 61.5 |
| Hepatitis E | 0 | 0 | 0 | 0 | 0 | 0.2 | 0.053 |
| Influenza-associated hospitalization | 0 | 1 | 203 | 290 | 332 | 165.2 | 43.99 |
| Influenza-associated pediatric mortality | 0 | 0 | 0 | 1 | 1 | 0.2 | 0.053 |
| LaCrosse virus disease | 0 | 0 | 0 | 0 | 0 | 0.8 | 0.213 |
| Legionellosis | 1 | 4 | 1 | 14 | 21 | 16.6 | 4.42 |
| Listeriosis | 0 | 0 | 0 | 1 | 2 | 2 | 0.533 |
| Lyme Disease | 1 | 1 | 3 | 4 | 15 | 9.8 | 2.609 |
| Malaria | 0 | 0 | 0 | 0 | 1 | 1.4 | 0.373 |
| Measles (Indigenous to Ohio) | 6 | 0 | 7 | 0 | 0 | 0 | 0 |
| Meningitis, Aseptic | 0 | 0 | 11 | 4 | 24 | 35.4 | 9.425 |
| Meningitis, Other Bacterial | 1 | 0 | 2 | 3 | 5 | 3.8 | 1.012 |
| Meningococcal Disease | 0 | 0 | 1 | 0 | 0 | 0.8 | 0.213 |
| Mumps | 2 | 0 | 3 | 0 | 0 | 0.6 | 0.16 |
| Mycobacterial disease - Not TB | 5 | 1 | 18 | 18 | 34 | 27.6 | 7.349 |
| Pertussis | 8 | 1 | 36 | 8 | 16 | 39 | 10.384 |
| Q fever, acute | 0 | 1 | 0 | 2 | 2 | 0.4 | 0.107 |
| Salmonellosis | 5 | 9 | 18 | 26 | 46 | 38 | 10.12 |
| Shigellosis | 3 | 1 | 49 | 14 | 87 | 25.6 | 6.816 |
| Spotted Fever Rickettsiosis | 0 | 0 | 0 | 0 | 0 | 0.6 | 0.16 |
| Streptococcal Dis, Group A, Invasive | 1 | 0 | 7 | 10 | 14 | 15.2 | 4.047 |
| Streptococcal Dis, Group B, in Newborn | 0 | 1 | 0 | 2 | 2 | 3.2 | 0.852 |
| Streptococcal Toxic Shock Syndrome | 0 | 0 | 2 | 0 | 0 | 0.6 | 0.16 |
| Streptococcus pneumoniae - invasive antibiotic resistance unknown or non-resistant | 0 | 0 | 17 | 21 | 33 | 36.6 | 9.745 |
| Streptococcus pneumo - inv antibiotic resistant/intermediate | 1 | 0 | 4 | 19 | 27 | 20.2 | 5.378 |
| Syphilis, Total | 2 | 1 | 4 | 9 | 14 | 11.6 | 3.089 |
| Syphilis, Primary and Secondary | 2 | 0 | 4 | 5 | 8 | 3.4* | 0.91* |
| Toxic Shock Syndrome (TSS) | 0 | 0 | 0 | 3 | 3 | 0.8* | 0.213* |
| Tuberculosis | 0 | 0 | 0 | 0 | 0 | 2.4 | 0.639 |
| Typhus Fever | 0 | 0 | 0 | 0 | 1 | 0.2 | 0.053 |
| Varicella | 2 | 1 | 13 | 12 | 23 | 42.4 | 11.29 |
| Vibriosis - other (not cholera) | 0 | 0 | 1 | 1 | 1 | 0.4 | 0.107 |
| Vibriosis parahaemolyticus | 0 | 0 | 0 | 1 | 1 | 0.2 | 0.053 |
| West Nile Virus | 0 | 0 | 0 | 0 | 0 | 0.2 | 0.053 |
| Yersiniosis | 0 | 0 | 0 | 1 | 1 | 0.6 | 0.16 |

Source: Ohio Disease Reporting System, downloaded 7/14/2014. Rates are per 100K population and based on 5 yr average incidence 09-13.*08-12 from ODH Stats pg.