

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: Vaccine Preventable Disease

Internationally, few areas are without an outbreak of a vaccine preventable disease (See map to the right, source: http://www.cfr.org/interactives/GH_Vaccine_Map/#map), highlighting the need for awareness by clinicians and travelers alike. Locally, sporadic cases of three vaccine preventable diseases have been reported within Stark County in 2014: Influenza-Associated Hospitalization (127), Mumps (1) and Pertussis (17). Additionally, in Ohio significant outbreaks of Measles, Mumps and Pertussis continue to dominate the media and serve to further highlight the need for travelers to be aware that exposure to these diseases can occur locally, nationally and internationally.

To prevent the spread of vaccine preventable diseases-

The public is encouraged to:

- ☐ ensure all scheduled vaccines are up-to-date,
- ☐ be aware of risks in areas where travel is planned,
- ☐ plan ahead to provide the time necessary to obtain needed vaccinations, and
- ☐ if ill following travel, call your physicians office and/or seek medical care.

Clinicians are encouraged to:

- ☐ obtain a travel history from patients and include in differential diagnoses,
- ☐ help travelers prepare (note many health departments have travel clinics specifically to prepare the public for travel), and
- ☐ report suspected reportable diseases to local health departments immediately.

For more information on Traveler's Health, visit <http://wwwnc.cdc.gov/travel/>, which includes information for both travelers and clinicians.



Figure 1: CFR:Vaccine Preventable Outbreaks

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

	April 2014				May 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	685	5	45		1,780	110	470	
Mold Count	1,290	250	450	All Good	9,230	610	1,840	1 Moderate
Air Quality Index	96	26	40.5	2 Moderate	86	31	46	4 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

	Apr 2014	YTD 2014	2013
Live Births	262	1,172	4,211
Births to Teens	22	107	370
Deaths	344	1,494	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 Christina Henning at 330.489.3327 or Chenning@cantonhealth.org.

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

	Alliance City		Canton City		Massillon City		Stark County		All of Stark County	
	Mar	YTD	Mar	YTD	Mar	YTD	Mar	YTD	Mar	YTD
Campylobacteriosis	0	1	2	3	0	0	1	6	3	10
Chlamydia infection	4	21	54	188	11	45	51	150	120	404
Cryptosporidiosis	0	1	0	2	1	1	5	7	6	11
Giardiasis	0	0	1	1	0	0	1	1	2	2
Gonococcal infection	3	11	28	97	2	10	10	39	43	157
Haemophilus influenzae	0	0	0	0	0	0	1	1	1	1
Hepatitis A	1	1	0	0	0	0	0	0	1	1
Hepatitis B-Acute	1	1	1	1	0	0	0	0	2	2
Hepatitis B (including delta) - chronic	0	0	1	1	0	3	4	12	5	16
Hepatitis C-Acute	0	0	1	1	0	0	0	0	1	1
Hepatitis C - chronic	1	2	11	32	3	7	9	24	24	65
Influenza-associated hospitalization	2	10	4	43	1	14	8	60	15	127
Lyme Disease	0	0	0	1	0	0	0	0	0	1
Meningitis - aseptic/viral	0	0	2	2	0	0	2	3	4	5
Meningitis - bacterial (Not N. meningitidis)	0	0	0	0	0	0	0	1	0	1
Meningococcal Disease	0	0	1	1	0	0	0	0	1	1
Mycobacterial disease - other than tuberculosis	0	1	0	2	0	0	0	5	0	8
Pertussis	0	0	2	3	3	7	1	4	6	14
Salmonellosis	0	0	0	1	0	0	2	4	2	5
Shigellosis	1	3	4	13	0	0	3	10	8	26
Streptococcal - Group A - invasive	0	0	0	0	0	0	0	1	0	1
Streptococcal toxic shock syndrome (STSS)	0	0	0	1	0	0	0	0	0	1
Streptococcus pneumoniae - invasive antibiotic resistance unknown or non-resistant	0	1	2	6	0	0	0	1	2	8
Streptococcus pneumoniae - invasive antibiotic resistant/intermediate	0	0	0	0	0	0	0	1	0	1
Varicella	0	0	0	1	0	0	2	4	2	5

Source: Ohio Disease Reporting System, downloaded 5/5/2014.

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

	Alliance City		Canton City		Massillon City		Stark County		All of Stark County	
	Apr	YTD	Apr	YTD	Apr	YTD	Apr	YTD	Apr	YTD
Campylobacteriosis	0	1	1	4	0	0	2	8	3	13
Chlamydia infection	3	24	48	237	10	55	70	219	131	535
Cryptosporidiosis	0	1	0	2	0	1	2	9	2	13
Giardiasis	0	0	0	1	0	0	0	1	0	2
Gonococcal infection	2	13	28	125	4	14	16	55	50	207
Haemophilus Influenzae	0	0	0	0	0	0	0	1	0	1
Hepatitis A	0	1	0	0	0	0	0	0	0	1
Hepatitis B - Acute	0	1	0	1	0	0	0	0	0	2
Hepatitis B (including delta) - chronic	0	0	1	2	0	3	3	15	4	20
Hepatitis C-Acute	0	0	0	1	0	0	0	0	0	1
Hepatitis C - chronic	0	2	6	39	4	10	10	35	20	86
Influenza-associated hospitalization	0	10	5	48	1	15	3	63	9	136
Lyme Disease	0	0	0	1	0	0	1	1	1	2
Meningitis - aseptic/viral	0	0	1	3	0	0	1	4	2	7
Meningitis - bacterial (Not N. meningitidis)	0	0	0	0	0	0	0	1	0	1
Meningococcal disease	0	0	0	1	0	0	0	0	0	1
Mumps	0	0	0	0	0	0	1	1	1	1
Mycobacterial disease - other than tuberculosis	0	1	1	3	0	0	2	6	3	10
Pertussis	0	0	0	3	1	8	2	6	3	17
Salmonellosis	0	0	0	1	0	0	3	7	3	8
Shigellosis	0	3	4	17	0	0	2	12	6	32
Streptococcal - Group A - invasive	0	0	0	0	0	0	2	3	2	3
Streptococcal toxic shock syndrome (STSS)	0	0	0	1	0	0	1	1	1	2
Streptococcus pneumoniae - invasive antibiotic resistance unknown or non-resistant	3	4	1	7	0	0	3	4	7	15
Streptococcus pneumoniae - invasive antibiotic resistant/intermediate	0	0	0	0	0	0	0	1	0	1
Tuberculosis	0	0	1	1	0	0	0	0	1	1
Varicella	0	0	0	1	0	0	4	8	4	9

Source: Ohio Disease Reporting System, downloaded 5/5/2014.

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

(Provisional Data)	Mar-14	April-14	April-13	YTD 2014	YTD 2013	2013	5 Yr Annual Average	5 Yr Annual Rate
Brucellosis	0	0	0	0	0	0	0.2	0.053
Campylobacteriosis	3	3	3	13	13	67	55.4	14.75
Chlamydia	120	131	114	535	470	1448	1391	370.46
Coccidioidomycosis	0	0	0	0	0	0	0.2	0.053
Creutzfeldt-Jakob Disease	0	0	1	0	1	1	1.2	0.32
Cryptosporidiosis	6	2	2	13	9	26	25.8	6.87
Cyclosporiasis	0	0	0	0	0	1	0.2	0.053
Dengue	0	0	0	0	0	0	0.8	0.213
Escherichia coli , STP, Not O157:H7	0	0	1	0	2	2	1.8	0.479
Escherichia coli O157:H7	0	0	0	0	0	0	2.4	0.639
Escherichia coli , STP, Unk Serotype	0	0	0	0	0	0	0.6	0.16
Ehrlichiosis/Anaplasmosis	0	0	0	0	0	1	0.4	0.107
Giardiasis	2	0	7	2	20	37	52.6	14.01
Gonorrhea	43	50	46	207	188	612	543.2	144.63
Haemophilus influenzae , Invasive	1	0	2	1	5	7	8	2.13
Hepatitis A	1	0	1	1	2	8	3.4	0.91
Hepatitis B-Perinatal	0	0	0	0	1	7	2.4	0.639
Hepatitis B, Acute	2	0	0	2	2	9	4.4	1.172
Hepatitis B, Chronic	5	4	0	20	6	21	32.4	8.627
Hepatitis C, Acute	1	0	0	1	3	6	5.6	1.491
Hepatitis C, Chronic	24	20	29	86	74	205	231	61.5
Hepatitis E	0	0	0	0	0	0	0.2	0.053
Influenza-associated hospitalization	15	9	14	136	286	332	165.2	43.99
Influenza-associated pediatric mortality	0	0	0	0	0	1	0.2	0.053
LaCrosse virus disease	0	0	0	0	0	0	0.8	0.213
Legionellosis	0	0	2	0	6	21	16.6	4.42
Listeriosis	0	0	0	0	1	2	2	0.533
Lyme Disease	0	1	0	2	2	15	9.8	2.609
Malaria	0	0	0	0	0	1	1.4	0.373
Meningitis, Aseptic	4	2	0	7	2	24	35.4	9.425
Meningitis, Other Bacterial	0	0	0	1	1	5	3.8	1.012
Meningococcal Disease	1	0	0	1	0	0	0.8	0.213
Mumps	0	1	0	1	0	0	0.6	0.16
Mycobacterial disease - Not TB	0	3	5	10	11	37	27.6	7.349
Pertussis	6	3	0	17	5	16	39	10.384
Q fever, acute	0	0	0	0	1	2	0.4	0.107
Salmonellosis	2	3	2	8	12	46	38	10.12
Shigellosis	8	6	7	32	12	87	25.6	6.816
Spotted Fever Rickettsiosis	0	0	0	0	0	0	0.6	0.16
Streptococcal Dis, Group A, Invasive	0	2	4	3	10	14	15.2	4.047
Streptococcal Dis, Group B, in Newborn	0	0	0	0	1	2	3.2	0.852
Streptococcal Toxic Shock Syndrome	0	1	0	2	0	0	0.6	0.16
Streptococcus pneumoniae - invasive antibiotic resistance unknown or non-resistant	2	7	5	15	17	33	36.6	9.745
Streptococcus pneumo - inv antibiotic resistant/intermediate	0	0	5	1	17	27	20.2	5.378
Syphilis, Total	0	0	0	0	3	10	11.6	3.089
Syphilis, Primary and Secondary	0	0	0	0	1	5	3.4*	0.91*
Toxic Shock Syndrome (TSS)	0	0	0	0	2	3	0.8*	0.213*
Tuberculosis	0	1	0	1	0	0	2.4	0.639
Typhus Fever	0	0	0	0	0	1	0.2	0.053
Varicella	2	4	1	9	10	23	42.4	11.29
Vibriosis - other (not cholera)	0	0	1	0	1	1	0.4	0.107
Vibriosis parahaemolyticus	0	0	1	0	1	1	0.2	0.053
West Nile Virus	0	0	0	0	0	0	0.2	0.053
Yersiniosis	0	0	0	0	1	1	0.6	0.16

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