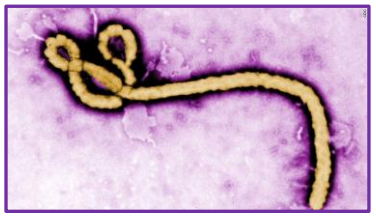
EPI GRAM October, 2014

A Monthly Publication of the Stark Public Health Infrastructure Coalition

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: Ebola Virus Disease (EVD)



On 10/15/14 it was learned that a nurse from Dallas who tested positive for Ebola Virus Disease (EVD) had traveled to northeast Ohio from 10/10/14 to 10/13/14. After contact tracing was completed the associated health jurisdictions were notified and Stark County as a whole had several contacts. All of these contacts had various interventions including active monitoring with a home visit from public health, verified phone self-monitoring, and self-monitoring. These interventions included monitoring of their symptoms for the 21 day incubation period starting from their last contact with the nurse. All remained symptom free and were released from monitoring by Monday 11/3/14.

Though Stark County is no longer monitoring Ebola contacts for symptoms there is still potential for international travelers coming from the affected areas to come into the county. A process has been developed and is currently being implemented in order to monitor these incoming travelers in order to detect anyone who may develop EVD as early as possible. The process is as follows:

1. The Centers for Disease Control and Prevention Division of Global Migration and Quarantine (DGMQ) conducts screenings on each traveler arriving from an affected country. This is in addition to the interview each traveler goes through prior to leaving one of those countries.
2. DGMQ then notifies the state health departments that each traveler resides in.
3. The state health departments then notify the local health departments (LHD) where each traveler resides
4. The LHD completes a questionnaire to verify the traveler's Ebola risk exposure and carries out verified self-monitoring (twice-daily temperature and symptoms monitoring which the traveler reports to the LHD) for 21 days after their departure date from the affected country.
5. The LHD will report the completed interview initially and then the monitoring status of the traveler to the state health department every day during the 21 day incubation period.

➢ *An infected person is only capable of spreading the virus if they are symptomatic. In order to contract the virus an individual must have direct contact with the virus as well as a point of entry on their body for the virus to enter. This virus can be spread through droplets of bodily fluid, but cannot spread through the air. There is no cure for EVD, but treatment for the symptoms can help. The symptoms include things such as fever, severe headache, muscle pain, vomiting, diarrhea, stomach pain, or unexplained bleeding or bruising.*

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

	October 2014				November 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	5	5	5	N/A	Reported Seasonally; Not Currently Available			
Mold Count	9,790	980	4,790	**1**				
Air Quality Index	52	37	41	**1**	43	30	33	**0**

**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

	October 2014	YTD 2014	2013
Live Births	403	3,515	4,211
Births to Teens	29	298	370
Deaths	323	3,473	4,229

Birth and Death Data is reported by the four 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		Total	
	Oct.	YTD	Oct.	YTD	Oct.	YTD	Oct.	YTD	Oct.	YTD
Campylobacteriosis	1	2	3	18	1	4	7	44	12	68
Chlamydia infection	7	69	68	586	11	134	41	487	127	1,276
Chikungunya	0	0	0	0	0	0	0	1	0	1
Coccidioidomycosis	0	0	0	0	0	0	0	1	0	1
Cryptosporidiosis	0	2	1	5	0	3	2	18	3	28
E. coli-Not O157:H7	0	0	0	0	0	0	0	2	0	2
E. coli-O157:H7	0	0	0	0	0	2	0	4	0	6
Giardiasis	1	1	1	3	0	0	5	11	7	15
Gonococcal infection	2	19	32	295	1	31	9	108	44	453
Haemophilus Influenzae	0	0	0	3	0	0	1	3	1	6
Hemolytic Uremic Syndrome	0	0	0	1	0	0	0	0	0	1
Hepatitis A	0	1	0	0	0	1	1	5	1	7
Hepatitis B - acute	0	1	0	1	0	0	1	4	1	6
Hepatitis B - chronic	1	3	0	5	2	7	0	23	3	38
Hepatitis B - perinatal	0	0	0	0	0	0	0	1	0	1
Hepatitis C - acute	0	1	1	2	0	0	0	0	1	3
Hepatitis C - chronic	1	11	4	86	1	20	10	106	16	223
Influenza-associated hospitalization	0	10	0	48	1	17	1	65	3	140
Legionellosis	0	0	0	0	0	0	0	4	0	4
Lyme Disease	0	0	0	2	0	0	1	8	1	10
Malaria	0	0	0	0	0	0	0	1	0	1
Measles-indigenous to Ohio	0	2	0	0	0	0	0	7	0	9
Meningitis - aseptic/viral	1	3	1	6	0	0	1	10	3	19
Meningitis - bacterial (Not N. meningitidis)	0	0	0	1	0	0	0	1	0	2
Meningococcal disease	0	0	0	1	0	0	0	0	0	1
Mumps	0	0	0	0	0	0	0	4	0	4
Mycobacterial disease - other than tuberculosis	0	0	0	6	1	3	3	21	4	30
Pertussis	0	5	4	14	4	16	5	42	13	77
Salmonellosis	0	2	0	4	0	0	0	25	0	31
Shigellosis	0	5	1	37	0	1	1	25	2	68
Streptococcal - Group A -invasive	0	0	0	1	0	0	2	8	2	9
Streptococcal - Group B -newborn	0	0	0	0	0	0	0	1	0	1
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	8	0	1	1	7	1	20
Streptococcus pneumoniae - invasive antibiotic resistant/intermediate	1	1	0	1	0	0	1	5	2	7
Syphilis, Total	0	2	0	0	0	2	0	1	0	5
Syphilis, Primary and Secondary	0	2	0	0	0	2	0	1	0	5
Tuberculosis	0	0	0	0	0	0	0	1	0	1
Typhoid Fever	0	0	0	0	0	0	0	1	0	1
Varicella	0	0	1	5	0	0	2	15	3	20
Vibriosis-Other (not cholera)	0	0	0	0	0	0	0	1	0	1
Yersiniosis	0	1	0	0	0	0	0	1	0	2
Total	15	143	117	1,140	23	240	95	1,074	250	2,597

Source: Ohio Disease Reporting System, downloaded 11/7/2014.

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

(Provisional Data)	Oct. 2014	Oct. 2013	YTD 2014	YTD 2013	All of 2013	5 Yr. Annual Average	5 Yr. Annual Rate
Campylobacteriosis	12	10	68	57	67	55.4	14.75
Chikungunya	0	0	1	0	0	0	0
Chlamydia	127	100	1,276	1,188	1445	1391	370.46
Coccidioidomycosis	0	0	1	0	0	0.2	0.053
Creutzfeldt-Jakob Disease	0	0	0	1	1	1.2	0.32
Cryptosporidiosis	3	3	28	25	26	25.8	6.87
Cyclosporiasis	0	0	0	1	1	0.2	0.053
Escherichia coli , STP, Not O157:H7	0	0	2	1	2	1.8	0.479
Escherichia coli O157:H7	0	0	6	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	1	1	0.4	0.107
Giardiasis	7	0	15	32	37	52.6	14.01
Gonorrhea	44	63	453	506	612	543.2	144.63
Haemophilus influenzae , Invasive	1	0	6	7	7	8	2.13
Hemolytic Uremic Syndrome	0	0	1	0	0	0	0
Hepatitis A	1	1	7	5	8	3.4	0.91
Hepatitis B-Acute	1	0	6	8	8	4.4	1.172
Hepatitis B, Chronic	3	2	38	20	22	32.4	8.627
Hepatitis B, Perinatal	0	1	1	2	6	2.4	0.639
Hepatitis C, Acute	1	0	3	7	7	5.6	1.491
Hepatitis C, Chronic	16	14	223	157	202	231	61.5
Influenza-associated hospitalization	3	0	140	290	332	165.2	43.99
Influenza-associated pediatric mortality	0	0	0	0	1	0.2	0.053
Legionellosis	0	1	4	19	21	16.6	4.42
Listeriosis	0	0	0	2	2	2	0.533
Lyme Disease	1	1	10	14	15	9.8	2.609
Malaria	0	0	1	1	1	1.4	0.373
Measles (Indigenous to Ohio)	0	0	9	0	0	0	0
Meningitis, Aseptic	3	4	19	21	24	35.4	9.425
Meningitis, Other Bacterial	0	1	2	5	5	3.8	1.012
Meningococcal Disease	0	0	1	0	0	0.8	0.213
Mumps	0	0	4	0	0	0.6	0.16
Mycobacterial disease - Not TB	4	4	30	30	34	27.6	7.349
Pertussis	13	2	77	13	16	39	10.384
Q fever, acute	0	0	0	2	2	0.4	0.107
Salmonellosis	0	5	31	39	46	38	10.12
Shigellosis	2	12	68	30	87	25.6	6.816
Streptococcal Dis, Group A, Invasive	2	2	9	13	14	15.2	4.047
Streptococcal Dis, Group B, in Newborn	0	0	1	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	1	1	20	26	33	36.6	9.745
Streptococcus pneumo - invasive antibiotic resistant/intermediate	2	3	7	23	27	20.2	5.378
Syphilis, Total	0	0	5	13	14	11.6	3.089
Syphilis, Primary and Secondary	0	0	5	8	8	3.4*	0.91*
Toxic Shock Syndrome (TSS)	0	0	0	3	3	0.8*	0.213*
Tuberculosis	0	0	1	0	0	2.4	0.639
Typhoid Fever	0	0	1	0	0	0.2	0.053
Typhus Fever	0	1	0	1	1	0.2	0.053
Varicella	3	5	20	19	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
Yersiniosis	0	0	2	1	1	0.6	0.16

Source: OH Disease Reporting System, downloaded 11/7/2014. Rates are per 100K population and based on 5 yr. average incidence 09-13.*08-12 from ODH Stats pg.