A Monthly Publication of the

Stark Public Health Infrastructure Coalition

EPI Gram is a monthly 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.

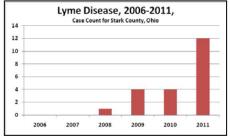
Monthly Highlight: 2011 Communicable Disease, Outbreak and Vital Statistics Surveillance.

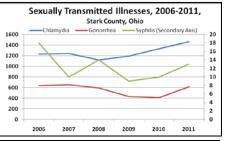
In 2011, four outbreaks were reported in Stark County. Two of the four outbreaks were in skilled nursing facilities with the agent identified as norovirus. The other two outbreaks were in daycare/school settings. One was confirmed as lice the other as ringworm. In each of the four outbreaks, a rapid and appropriate response by the affected organizations led to minimal spread and no poor outcomes.

One method of monitoring communicable disease includes observing the number of cases reported and comparing it to an upper threshold of expected cases. Different values can be used for the upper threshold. This report is based on the use of the confidence interval (CI) which provides a statistical calculation for the expected number of cases within a preset confidence range. In 2011, there were numerous commonly and rarely reported diseases that exceeded a 90% CI, where a rarely reported disease is defined as having an average annual rate of less than 1 per 100,000 Stark County residents.

In 2011, rarely reported diseases that exceeded the 90% CI threshold were Ehrlichiosis, Dengue, E coli, Acute Hepatitis C, Lyme, RMSF, STSS and Vibriosis. The most notable was the dramatic increase observed in the number of Lyme disease cases, from a previous 5-year average of 2 cases per year to 12 cases reported in 2011. Commonly reported diseases that exceeded the 90% CI include Chlamydia, Giardiasis, Chronic Hepatitis C, Aseptic Meningitis, Group A Streptococcal Disease and Syphilis. The top and middle graphs to the right depict the observed increases in the number of cases of Lyme Disease and Sexually Transmitted Infections (STIs) among Stark County Residents.

Despite increases in STIs, the number of Teen Births has decreased for the 3rd consecutive year. Additionally, the number of low birth weight babies born to teen moms (2500g) has been cut by nearly 49% since 2006, from 63 in '06 to 32 in '11. (See line graph to the right of this paragraph) Additional information on birth records collected through local vital statistics units can be obtained by contacting local health departments respective Epidemiologist.





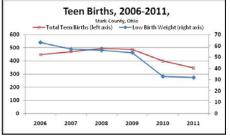


Table 1 Summary of Air Quality Index, Pollen, and Mold Counts for Stark County, Ohio, including historical data.

			Decemb	er 2011	January 2011						
	Monthly High	Monthly	Monthly	Counts in highest reported	Monthly	Monthly Low	Monthly Median	Counts in highest reported health risk			
	Low 1		Median	health risk category	High Monthly Lo		Wionung Wiedian	category			
Pollen Count]	c	T.T.		Cil-, IIil-kl-						
Mold Count		3	leasonally U	navanable	Seasonally Unavailable						
Air Quality Index	70	7	19	2 Moderate	46	1	22	All Good			

^{**}See the following websites for updated Air Quality Index and mold index terminology and color-coding 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

	Dec 2011	2011	2010
Live Births	224	3934	4075
Births to Teens	25	346	399
Deaths	355	4205	4110

Table 3 Stark County Crude Birth and Death Rates

	2006	2007	2008	2009	2010
Birth	1191*	1190*	1166*	1139	1085
Death	1000*	1035*	1055*	1072	1094

*Source: Ohio Department of Health Data Warehouse. Rates are per 100,000 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 or Lauren Drinkard at 330.493.9928 or Drinkard @starkhealth.org.

Table 4: 2011 Jurisdictional Summary of Reportable Diseases in Stark County, OH

Table 4. 2011 Julisuictions	11 Jurisdictional Summar		or Reporta		Massillon		Stark		County, On	
	Alliance City		Canton City		City		County		All Depa	artments
	Dec	YTD	Dec	YTD	Dec	YTD	Dec	YTD	Dec	YTD
Campylobacteriosis	1	5		5		4	2	26	3	40
Chlamydia infection	12	139	66	716	12	141	37	468	127	1464
Creutzfeldt-Jakob Disease								2	0	2
Cryptosporidiosis				3				13	0	16
Dengue								2	0	2
E Coli (STP) NOT O157:H7								2	0	2
E Coli (STP) O157:H7						1		1	0	2
Ehrlichiosis				1					0	1
Giardiasis		2		13		2	3	45	3	62
Gonococcal infection	6	74	24	366	2	44	15	131	47	615
Haemophilus influenzae		1		2			1	5	1	8
Hepatitis A								1	0	1
Hepatitis B- Perinatal Infection				1				2	0	3
Hepatitis B- Acute								2	0	2
Hepatitis B-Chronic		2	1	7		2		12	1	23
Hepatitis C - acute				3		2		1	0	6
Hepatitis C - chronic	1	18	10	85	2	36	14	145	27	284
Influenza-associated hospitalized	1	9		41		12		81	1	143
LaCrosse Virus								1	0	1
Legionellosis	1	2				2	1	5	2	9
Listeriosis								2	0	2
Lyme Disease		1		2			1	9	1	12
Malaria								1	0	1
Meningitis - aseptic/viral		9	1	17		14	1	23	2	63
Meningitis - bacterial (Not N.										
meningitidis)				1		1	1	1	1	3
Meningococcal disease -								1	0	1
Mycobacterial disease-Not TB		2		2		1	2	18	2	23
Pertussis						1		10	0	11
Rocky Mountain Spotted Fever		1						1	0	2
Salmonellosis		2		4		1	3	25	3	32
Shigellosis				_				1	0	1
Streptococcal - Group A -Invas				5				17	0	22
Streptococcal -Group B in										
Newborn			1	2				1	1	3
Streptococcus Toxic Shock STSS				1				1	0	2
Strep pneumo resistance unk or			4	7			2	24	2	27
non-resistant		2	1	7		4	2	24	3	37
Strep pneumo antibiotic resistant/intermediate		4		2		2		9	0	17
		4	2				4			
Syphilis, Total			3	9		1	1	3	4	13
Syphilis, Pr & Secondary			3	8		1	1	1	4	10
Varicella		5		3		2	3	24	3	34
Vibriosis - other (not cholera)				1					0	1

Source: Ohio Disease Reporting System, downloaded 01/23/2012.

Table 5 – 2011 Summary Table of Diseases Reported in the previous 5 years within Stark County, OH.

Table 5 – 2011 Summary Table of Diseases Rep	Jonteu III	the previo	ous 5 year	5 WILLIIII		nty, On.
(Provisional Data)					5 Yr	
	5 44	YTD	YTD	All of	annual	_
	Dec 11	2011	2010	2010	average	Rate
Anaplasmosis	0	0	0	0	0.2	0.05
Campylobacteriosis	3	40	50	50	50	13.31
Chlamydia	127	1464	1333	1333	1269.6	338.03
Creutzfeldt-Jakob Disease (CJD)	0	2	0	0	1.6	0.43
Cryptosporidiosis	0	16	23	23	21.2	5.64
Cytomegalovirus (CMV), Congenital	0	0	0	0	0.4	0.11
Dengue	0	2	1	1	0.6	0.16
Ehrlichiosis-Ehrlichia chaffeensis	0	1	0	0	0.2	0.05
Encephalitis, Post Other Infection	0	0	0	0	0.2	0.05
Encephalitis, Primary Viral	0	0	0	0	0.8	0.21
Escherichia coli , Shiga Toxin-Producing, Not O157:H7	0	2	1	1	1	0.27
Escherichia coli , Shiga Toxin-Producing, Unknown Serotype	0	0	1	1	1.4	0.37
Escherichia coli O157:H7	0	2	3	3	2	0.53
Giardiasis	3	62	69	69	52.2	13.90
Gonorrhea	47	615	410	410	540.4	143.88
Haemophilus influenzae , Invasive Disease	1	8	8	8	7	1.86
Hemolytic Uremic Syndrome (HUS)	0	0	0	0	0.6	0.16
Hepatitis A	0	1	0	0	2.4	0.64
Hepatitis B, Acute	0	2	5	5	3.4	0.04
Hepatitis B, Chronic	1	23	39	39	36.4	9.69
•	0	1	4	4	4.2	1.12
Hepatitis C, Acute	-	6			239.8	63.85
Hepatitis C, Past or Present	27	284	234	234		
Hepatitis E	0	1	0	0	0.2	0.05
Herpes, Congenital	0	0	0	0	0.4	0.11
Influenza A - novel virus infection	0	0	0	0	0.4	0.11
Influenza-associated hospitalization	1	143	7	7	N/A	N/A
LaCrosse virus disease (other California serogroup virus disease)	0	1	2	2	0.6	0.16
Legionellosis	2	9	16	16	14.2	3.78
Listeriosis	0	2	1	1	2.4	0.64
Lyme Disease	1	12	4	4	4.2	1.12
Malaria	0	1	2	2	1.2	0.32
Meningitis, Aseptic	2	63	33	33	40.8	10.86
Meningitis, Other Bacterial	1	3	2	2	2.6	0.69
Meningococcal Disease	0	1	2	2	1.2	0.32
Mumps	0	0	1	1	0.8	0.21
Mycobacterial disease - other than tuberculosis	2	23	33	33	24	6.39
Pertussis	0	11	106	106	34	9.05
Rheumatic Fever	0	0	0	0	0.2	0.05
Rocky Mountain Spotted Fever (RMSF)	0	2	1	1	0.6	0.16
Salmonellosis	3	32	34	34	36.4	9.69
Shigellosis	0	1	4	4	50	13.31
Streptococcal Disease, Group A, Invasive	0	22	12	12	10.6	2.82
Streptococcal Disease, Group B, in Newborn	1	3	4	4	3.6	0.96
Streptococcal Toxic Shock Syndrome (STSS)	0	2	0	0	1	0.27
Streptococcus pneumoniae - invasive antibiotic resistance						
unknown or non-resistant	3	37	25	25	30.8	8.20
Streptococcus pneumoniae - invasive antibiotic						
resistant/intermediate	0	17	20	20	20.2	5.38
Syphilis, Total	4	13	10	10	11.2	2.98
Syphilis, Primary and Secondary	4	10	4	4	4.2	1.12
Toxic Shock Syndrome (TSS)	0	0	1	1	0.6	0.16
Tuberculosis	0	2	5	5	2.6	0.69
Varicella	3	34	57	57	68.6	18.26
Vibriosis - other (not cholera)	0	1	0	0	0.2	0.05
				0		0.32
Yersiniosis	0	0	0	0	1.2	0.52

This report includes confirmed, probable and suspect cases, as reported in the Ohio Disease Reporting System (ODRS) from 01/01/2007.

^{*}Annual Rate per 100,000 population is derived from a five year average of disease incidence and on a total 2010 census population of 375,586