

*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:

“Scabies is an ectoparasitic infestation of the skin caused by the human itch mite, *Sarcoptes scabiei* var. *hominis*.”

(1) Two clinical presentations are associated with an infestation, typical and atypical; the latter is also known as crusted and formerly as Norwegian Scabies. In the typical presentation, approximately 15 live adult mites may be found on an individual. Typical scabies presents approximately 4-6 weeks after direct skin-to-skin exposure with an infested person. Symptoms include intense pruritis, usually worse at night, and a papular rash with or without burrows (See figure 1). The rash and pruritis result from an immune-mediated delayed hypersensitivity reaction to the mite, its eggs, and fecal material. (1) In an atypical presentation, the Centers for Disease Control and Prevention (CDC) states there may be up to 2 million mites on one severely infected individual. Clinically, the atypical presentation will have hyperkeratotic skin lesions with crusting and scaling (See figure 2). Immunocompromised and elderly are more susceptible to an atypical presentation. Atypical crusted scabies can have a devastating impact on a person’s quality of life. Both clinical presentations are treated with a skin cream, usually 5% permethrin cream; crusted has additional treatment recommendations which may include the use of an oral medication, Ivermectin.

Due to the overwhelming number of mites related to a single case of crusted scabies, rapid identification of the case and their contacts and aggressive facility and environmental control procedures are necessary. Contacts should be identified and evaluated for the need for prophylactic treatment. Contacts to crusted scabies may develop symptoms of typical scabies in as little as a few days, therefore any delay in prophylactic treatment of contacts can lead to rapid spread throughout a facility or household. If spread occurs within a facility, public health departments may be involved and provide additional prevention, control and surveillance activities.

1: [http://publichealth.lacounty.gov/acd/docs/ScabiesGuidelinesFinal8.20.09\\_1.pdf](http://publichealth.lacounty.gov/acd/docs/ScabiesGuidelinesFinal8.20.09_1.pdf). Last accessed 06/24/2013.



Figure 1: Typical Scabies Presentation



Figure 2: Atypical Scabies Presentation

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

	May 2013				June 2012			
	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	1,780	110	470	N/A	135	10	30	N/A
Mold Count	9,230	610	1,840	<b>1 Moderate</b>	11,140	980	3,680	<b>4 Moderate</b>
Air Quality Index	85	31	46	<b>5 Moderate</b>	164	27	49	<b>1 Unhealthy</b>

\*\*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](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**

	May 2013	YTD 2013	2012
Live Births	324	1631	4058
Births to Teens	32	157	365
Deaths	366	1885	4110

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

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](mailto:Chenning@cantonhealth.org) or Lauren Drinkard at 330.493.9928 or [Drinkardl@starkhealth.org](mailto:Drinkardl@starkhealth.org).

**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.

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

(Provisional Data, as of 06/23/2013)	Alliance City		Canton City		Massillon City		Stark County		All Departments	
	May	YTD	May	YTD	May	YTD	May	YTD	May	YTD
Campylobacter	0	0	0	6	0	0	3	10	3	16
Chlamydia	11	47	76	307	9	46	61	227	157	627
Creutzfeldt-Jakob Disease	0	0	0	0	0	1	0	0	0	1
Cryptosporidium	0	0	1	5	0	0	2	7	3	12
E. coli - enterohemorrhagic STP-Not O157:H7	0	0	0	1	0	0	0	1	0	2
Giardia	0	0	1	7	0	2	2	14	3	23
Gonorrhea	8	22	29	141	1	20	18	61	56	244
Haemophilus influenzae	0	1	0	2	0	0	0	2	0	5
Hepatitis A	0	0	0	0	0	0	0	2	0	2
Hepatitis B - Perinatal Infection	0	0	0	0	0	0	1	2	1	2
Hepatitis B - acute	1	1	1	2	0	0	0	1	2	4
Hepatitis B - chronic	0	0	0	1	0	0	2	7	2	8
Hepatitis C - acute	0	1	0	3	0	1	0	0	0	5
Hepatitis C - chronic	0	8	9	35	4	15	9	43	22	101
Influenza-associated hospitalization	0	7	0	92	0	29	3	161	3	289
Influenza-associated pediatric mortality	0	0	0	0	0	0	1	1	1	1
Legionella	0	0	0	0	0	1	0	5	0	6
Listeria	0	0	0	1	0	0	0	0	0	1
Lyme Disease	0	0	0	0	0	0	1	3	1	3
Meningitis - aseptic/viral	0	0	0	1	0	0	1	2	1	3
Meningitis - bacterial (Not N. meningitidis)	0	0	0	0	0	0	2	3	2	3
Mycobacterial disease - other than TB	1	2	0	1	0	1	2	9	3	13
Pertussis	0	1	0	0	0	0	1	5	1	6
Q fever, chronic	0	0	0	0	0	0	0	1	0	1
Salmonella	0	0	1	4	1	2	0	8	2	14
Shigella	0	0	1	8	0	2	0	3	1	13
Streptococcal - Group A	0	0	0	1	0	2	0	7	0	10
Streptococcal - Group B - in newborn	0	0	0	1	0	0	0	0	0	1
Streptococcus pneumo antibiotic resistance unk or non-resistant	0	1	0	6	0	1	3	12	3	20
Streptococcus pneumo antibiotic resistant/intermediate	0	1	0	7	0	2	1	8	1	18
Toxic shock syndrome (TSS)	0	0	0	0	0	0	1	3	1	3
Varicella	0	1	0	0	0	0	0	9	0	10
Syphilis, Total			2	3	1	2	2	3	5	8
Syphilis, Primary and Secondary			2	2	0	0	2	3	4	5
Vibrio parahaemolyticus infection	0	1	0	0	0	0	0	0	0	1
Yersiniosis	0	0	0	1	0	0	0	0	0	1

Source: Ohio Disease Reporting System, downloaded 6/23/2013.

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

(Provisional Data, as of 06/23/2013)	May-2013	May-2012	YTD 2013	YTD 2012	2012	5 Yr annual average	Rate
Brucellosis	0	0	0	1	1	0.2	0.053
Campylobacteriosis	3	6	16	13	65	52.8	14.058
Chlamydia	157	119	627	624	1529	1327.4	353.421
Coccidioidomycosis	0	0	0	1	1	0.2	0.053
Creutzfeldt-Jakob Disease	0	0	1	0	0	1.6	0.426
Cryptosporidiosis	3	2	12	10	45	25.2	6.71
Cytomegalovirus, Congenital	0	0	0	0	0	0.4	0.107
Dengue	0	0	0	1	1	0.8	0.213
Ehrlichiosis	0	0	0	0	0	0.2	0.053
Escherichia coli , STP, Not O157:H7	0	0	2	0	1	1.2	0.32
Escherichia coli O157:H7	0	0	0	0	3	2.2	0.586
Escherichia coli , STP, Unk Serotype	0	0	0	0	1	1.4	0.373
Giardiasis	3	3	23	14	38	51.8	13.792
Gonorrhea	56	36	244	235	647	539.6	143.669
Haemophilus influenzae , Invasive	0	1	5	3	8	8.2	2.183
Hemolytic Uremic Syndrome (HUS)	0	0	0	0	0	0.4	0.107
Hepatitis A	0	1	2	3	6	2.6	0.692
Hepatitis B, Acute	2	1	4	2	4	3.6	0.959
Hepatitis B, Chronic	2	8	8	18	37	34	9.053
Hepatitis C, Acute	0	1	5	1	10	6	1.598
Hepatitis C, Chronic	22	15	101	96	219	227.4	60.545
Hepatitis E	0	0	0	0	0	0.2	0.053
Herpes, Congenital	0	0	0	0	0	0.4	0.107
Influenza A - novel virus infection	0	0	0	0	0	0.4	0.107
Influenza-associated hospitalization	3	1	289	15	150	123.5*	32.882
Influenza-associated pediatric mortality	1	0	1	0	0	0	0
LaCrosse virus disease	0	0	0	0	1	0.8	0.213
Legionellosis	0	2	6	4	16	15.6	4.154
Listeriosis	0	0	1	0	1	2.2	0.586
Lyme Disease	1	1	3	6	14	7	1.864
Malaria	0	0	0	0	0	1.2	0.32
Meningitis, Aseptic	1	0	3	5	34	35.8	9.532
Meningitis, Other Bacterial	2	0	3	3	4	3.2	0.852
Meningococcal Disease	0	0	0	0	0	1	0.266
Mumps	0	0	0	0	1	1	0.266
Mycobacterial disease - Not TB	3	4	13	10	26	24.8	6.603
Pertussis	1	0	6	3	14	36.4	9.692
Q fever, acute	0	0	1	0	0	0	0
Rocky Mountain Spotted Fever	0	0	0	0	0	0.6	0.16
Salmonellosis	2	1	14	10	39	37.2	9.905
Shigellosis	1	0	13	0	8	50.4	13.419
Streptococcal Dis, Group A, Invasive	0	3	10	13	21	13.4	3.568
Streptococcal Dis, Group B, in Newborn	0	0	1	0	2	3.2	0.852
Streptococcal Toxic Shock Syndrome	0	0	0	0	1	0.8	0.213
Streptococcus pneumoniae - invasive antibiotic resistance unknown or non-resistant	3	5	20	34	58	36	9.585
Streptococcus pneumo - inv antibiotic resistant/intermediate	1	1	18	9	21	20	5.325
Syphilis, Total	5	1	8	6	12	11.6	3.089
Syphilis, Primary and Secondary	4	0	5	0	3	4.2	1.118
Toxic Shock Syndrome (TSS)	1	0	3	0	0	0.6	0.16
Tuberculosis	0	0	0	1	2	2.6	0.692
Typhoid Fever	0	0	0	0	1	0.2	0.053
Varicella	0	2	10	21	39	46.8	12.461
Vibriosis - other (not cholera)	0	0	1	0	0	0.25	0.067
Yersiniosis	0	0	0	1	0	0	0

Source: Ohio Disease Reporting System, downloaded 06/23//2013. Rates are per 100,000 population and based on 5 year average. \*Avg based on 4 years of data.