

EPI GRAM March, 2018

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. If you have any questions please contact Avinash Joseph at 330.493.9914 or josepha@starkhealth.org, or Amanda Archer at 330.489.3327 or aarcher@cantonhealth.org.



Public Health
Prevent. Promote. Protect.

Monthly Highlight: Burkholderia cepacia complex (Bcc) Infections Associated with Use of Medline Remedy Essentials No-Rinse Foam – 2018

CDC has identified two clusters of Burkholderia cepacia complex (Bcc) infections at two acute care hospitals in Pennsylvania and California occurring between November 2017 and March 2018. As of March 23, 2018, five of the ten patients from the Pennsylvania cluster and six of the eight patients from the California cluster have had Bcc isolated from urine; other body sites positive for Bcc included wounds and sputum. No patients in either cluster had cystic fibrosis. The ongoing investigation has identified a potential association between Bcc infection and **Medline Remedy® Essentials No-Rinse Foam**, a product used for skin and perineal care in both facilities.



Samples of the product were collected at the Pennsylvania facility from lots M05703/7235 and M06691/7256 which tested positive for Bcc. However, it is not known which lots were used on the patients who developed infections. Molecular testing on clinical and product isolates indicate that they are closely related. Cultures from additional product are pending.

CDC continues to work with FDA, as well as the state and local health departments in Pennsylvania and California to gather additional information. Facilities should consider avoiding the use of this product, at least in patients at greater risk for Bcc infection, until further information is available. This product is widely distributed throughout the United States. CDC requests that health departments who are notified of similar clusters of Bcc with a majority of patients having positive urine cultures occurring since 2/1/2018 among non-cystic fibrosis patients report the cluster to the CDC HAI Outbreak email address: haioutbreak@cdc.gov.

Bcc can be spread to susceptible person by:

- person to person contact
- contact with contaminated surfaces
- exposure to Bcc in the environment
- contact with contaminated medicines and devices

Bcc poses little medical risk to healthy people. However, people who have certain health problems like weakened immune systems or chronic lung diseases, particularly cystic fibrosis, may be more susceptible to infections with Bcc. Bcc is a known cause of infections in hospitalized patients.

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

	March 2018				April 2017			
	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	Data collected seasonally and currently not available				1085	40	320	N/A
Mold Count	Data collected seasonally and currently not available				6370	188	690	Low
Air Quality Index	58	34	41	(1) Moderate	71	38	45	(6) 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> <http://www.aaaai.org/global/nab-pollen-counts/reading-the-charts>. Data source for this table is the Air Quality Division of the Canton City Health Department.

Table 2 Select Vital Statistics for Stark County

	Jan 2018	YTD 2018	2017
Live Births	355	1076	4014*
Births to Teens	27	79	271*
Deaths	295	1169	4475*

* Birth and death data is preliminary

Table 3 Stark County Crude Birth Rate and Death Rates

	2013	2014	2015	2016	2017*
Birth	11.3	11.3	11.2	11.3	10.7
Death	11.3	11.4	11.6	11.7	11.9

*Source: Ohio Department of Health Data Warehouse. Rates are per 1,000 population. 2017 data is preliminary.

Table 4: Jurisdictional Summary of Reportable Diseases in Stark County, OH (Provisional Data)

	Alliance City		Canton City		Massillon City		Stark County		All Departments	
	Mar	YTD	Mar	YTD	Mar	YTD	Mar	YTD	Mar	YTD
Babesiosis	0	0	0	0	0	0	1	1	1	1
Campylobacteriosis	0	0	1	1	1	2	2	5	4	8
Chlamydia infection	8	34	58	185	13	37	60	181	139	437
Cryptosporidiosis	0	0	1	3	0	1	1	2	2	6
E. coli, Shiga Toxin-Producing	0	0	0	1	0	1	0	0	0	2
Giardiasis	0	0	1	4	0	0	1	2	2	6
Gonococcal infection	2	9	26	85	2	12	18	35	48	141
Haemophilus influenzae	0	0	0	0	0	0	0	1	0	1
Hepatitis A	0	0	0	0	0	0	0	1	0	1
Hepatitis B - acute	0	0	1	1	0	0	0	1	1	2
Hepatitis B - chronic	1	2	0	2	1	2	5	13	7	19
Hepatitis C - acute	0	0	0	2	0	0	0	0	0	2
Hepatitis C - chronic	2	8	11	34	6	8	17	40	36	90
Immigrant Investigation	1	1	0	0	1	1	0	0	2	2
Influenza - ODH Lab Results	0	0	0	0	0	0	0	1	0	1
Influenza-associated hospitalization	3	21	27	136	5	39	39	325	74	521
Legionellosis - Legionnaires' Disease	0	0	0	1	0	0	0	0	0	1
Lyme Disease	0	0	0	0	0	0	0	2	0	2
Meningitis - aseptic/viral	1	3	0	1	1	1	2	6	4	11
Meningitis - bacterial (Not N. meningitidis)	0	0	0	0	0	1	0	0	0	1
Mumps	0	0	0	0	0	0	0	1	0	1
Pertussis	2	5	0	0	0	1	3	12	5	18
Salmonellosis	0	0	0	0	0	2	4	13	4	15
Shigellosis	0	0	0	5	4	4	2	9	6	18
Streptococcal - Group A -invasive	1	1	2	4	0	0	1	3	4	8
Streptococcus pneumoniae - invasive antibiotic resistance unknown or non-resistant	1	2	2	4	0	0	3	7	6	13
Streptococcus pneumoniae - invasive antibiotic resistant/intermediate	0	0	0	0	0	1	0	2	0	3
Syphilis, Total	0	0	1	2	0	0	4	5	5	7
Syphilis, Primary, Secondary and Early Latent	0	0	1	2	0	0	3	3	4	3
Varicella	0	0	0	1	0	0	1	3	1	4
Yersiniosis	0	1	0	0	0	0	0	0	0	1
Total	22	87	132	474	34	113	167	674	355	1346

Source: Ohio Disease Reporting System, downloaded 04/17/2018.



Alliance City Health Department
cityofalliance.com/health



Canton City Health Department
cantonhealth.org



Massillon City Health Department
massillonohio.com/health



Stark County Health Department
starkhealth.org

Table 5 – Summary Table of Diseases Reported in the Previous 5 years within Stark County (Provisional Data)

	Jan-18	Jan-17	YTD 2018	YTD 2017	All of 2017	5 Yr Annual Average	Rate
Amebiasis	0	0	0	1	1	0.4	0.107
Anaplasmosis	0	0	0	0	0	0.4	0.107
Babesiosis	1	0	1	0	1	0.4	0.107
Brucellosis	0	0	0	0	1	0.2	0.054
Campylobacteriosis	4	6	8	13	88	74.0	19.807
Chlamydia	139	140	437	469	1802	1666.6	446.078
Coccidioidomycosis	0	0	0	0	0	0.4	0.107
Creutzfeldt-Jakob Disease	0	0	0	0	3	1.2	0.321
Cryptosporidiosis	2	4	6	5	30	32.4	8.672
Cyclosporiasis	0	0	0	0	2	1.6	0.428
E. coli, Shiga Toxin-Producing (O157:H7, Not O157, Unknown Serotype)	0	1	2	2	12	11.0	2.944
Giardiasis	2	2	6	5	18	24.6	6.584
Gonorrhea	48	40	141	142	542	574.0	153.635
Haemophilus influenzae , Invasive	0	1	1	3	9	7.0	1.874
Hemolytic Uremic Syndrome (HUS)	0	0	0	0	0	0.2	0.054
Hepatitis A	0	2	1	5	10	7.0	1.874
Hepatitis B, Perinatal	0	0	0	0	0	1.8	0.482
Hepatitis B, Acute	1	0	2	1	9	5.6	1.499
Hepatitis B, Chronic	7	7	19	19	65	45.0	12.045
Hepatitis C, Acute	0	1	2	1	1	6.6	1.767
Hepatitis C, Chronic	36	30	90	100	301	295.4	87.363
Hepatitis E	0	0	0	0	0	0.2	0.054
Influenza-associated hospitalization	74	75	521	264	413	326.4	87.363
Influenza-associated pediatric mortality	0	0	0	0	0	0.2	0.054
LaCrosse virus disease	0	0	0	0	0	0.2	0.054
Legionellosis	0	0	1	2	15	15.4	4.122
Listeriosis	0	0	0	0	1	1.2	0.321
Lyme Disease	0	2	2	5	29	19.4	5.193
Malaria	0	0	0	0	0	0.6	0.161
Measles (indigenous to Ohio)	0	0	0	0	0	2.0	0.535
Meningitis, Aseptic	4	2	11	8	43	30.2	8.083
Meningitis, Other Bacterial	0	0	1	0	3	3.6	0.964
Meningococcal Disease	0	0	0	0	0	1.0	0.268
Mumps	0	0	1	1	3	2.8	0.749
Pertussis	5	3	18	4	41	42.8	11.456
Q fever, acute	0	0	0	0	0	0.4	0.107
Q fever, chronic	0	0	0	0	1	0.2	0.054
Salmonellosis	4	1	15	5	39	44.8	11.991
Shigellosis	6	1	18	2	23	38.6	10.332
Spotted Fever Rickettsiosis	0	0	0	0	6	1.2	0.321
Staphylococcal aureus - intermediate resistance to vancomycin (VISA)	0	0	0	0	0	0.2	0.054
Streptococcal Dis, Group A, Invasive	4	4	8	10	22	13.0	3.480
Streptococcal Dis, Group B, in Newborn	0	0	0	1	1	1.6	0.428
Streptococcal Toxic Shock Syndrome	0	0	0	0	0	0.8	0.214
Streptococcus pneumoniae – inv. antibiotic resistance unknown or non-resistant	6	3	13	14	33	31.2	8.351
Streptococcus pneumo - inv antibiotic resistant/intermediate	0	4	3	7	16	16.8	4.497
Syphilis, Total	0	1	0	1	29	15.4	4.122
Syphilis, Primary, Secondary and Early Latent	0	0	0	0	13	9.6	2.570
Toxic Shock Syndrome (TSS)	0	0	0	0	0	0.8	0.214
Tuberculosis	0	0	0	0	3	1.4	0.375
Thyphoid Fever	0	0	0	0	0	0.2	0.054
Varicella	1	2	4	3	20	25.6	6.852
Vibriosis - other (not cholera)	0	1	0	2	2	2.2	0.589
Vibrio parahaemolyticus infection	0	0	0	0	0	0.2	0.054
West Nile Virus	0	0	0	0	1	0.6	0.161
Yersiniosis	0	0	1	6	9	6.0	1.606
Zika virus infection	0	0	0	0	0	1.0	0.268

Source: Ohio Disease Reporting System, downloaded 04/17/2018. Rates are per 100K population and based on 5 yr average incidence '13 – '17.