## EPI GRAM January, 2017

### 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 Julia Wagner at 330.493.9914 or Wagnerj@starkhealth.org, or Amanda Archer at 330.489.3327 or aarcher@cantonhealth.org.



#### **Recommended Immunization Schedules for Adults 2017**

Every year, the Advisory Committee on Immunization Practices (ACIP) reviews and approves immunization schedules recommended for persons living in the United States. The adult immunization schedule provides a summary of ACIP recommendations on the use of licensed vaccines routinely recommended for adults aged 19 years or older. Changes for the 2017 schedule include new or revised recommendations for influenza, human papillomavirus, hepatitis B and meningococcal vaccines. Highlights of these changes are briefly outlined below: (For more info: <a href="https://www.cdc.gov/mmwr/volumes/66/wr/mm6605e2.htm">https://www.cdc.gov/mmwr/volumes/66/wr/mm6605e2.htm</a>)

Influenza vaccination: Changes are related to the low effectiveness of the live attenuated influenza vaccine (LAIV) (FluMist, MedImmune) against influenza A (H1N1)pdm09 in the United States during the 2013–2014 and 2015–2016 influenza seasons and revised recommendations for the use of influenza vaccine among patients with egg allergy.

#### Annual economic burden of vaccinepreventable diseases by pathogen, 2015



 Human papillomavirus vaccination: Healthy adolescents who start their human papillomavirus (HPV) vaccination series before age 15 years are recommended to receive 2 doses of HPV vaccine. Adults and adolescents who did not start their HPV vaccination series before age 15 years should receive 3 doses of HPV vaccine. Changes in recommendations in the adult immunization schedule include updates regarding HPV vaccination for adults who did not complete the HPV vaccination series as adolescents.

- *Hepatitis B vaccination:* Chronic liver disease conditions for which a hepatitis B vaccine (HepB) series is recommended has been updated.
- *Meningococcal vaccination:* There are two changes in meningococcal vaccination recommendations for 2017. First, the ACIP recommends that adults with human immunodeficiency virus (HIV) infection receive a 2-dose primary series of serogroups A, C, W, and Y meningococcal conjugate vaccine (MenACWY). Second, the ACIP has provided updated dosing guidance for one of the serogroup B meningococcal vaccines (MenB) (MenB-FHbp [Trumenba, Pfizer]). Three doses of MenB-FHbp should be administered at 0, 1–2, and 6 months to adults who are at increased risk for meningococcal disease, and those who are vaccinated during serogroup B meningococcal disease outbreaks. When MenB-FHbp is given to healthy adolescents and young adults who are not at increased risk for meningococcal disease, 2 doses of MenB-FHbp should be administered at 0 and 6 months (MenB-FHbp was previously recommended as a 3-dose series at 0, 2, and 6 months, consistent with the original vaccine licensure for this population). The dosing frequency and interval for the other MenB, MenB-4C (Bexsero, GlaxoSmithKline), have not changed: MenB-4C remains a 2-dose series, with doses administered at least 1 month apart. Either MenB vaccine can be used when vaccination is indicated. The change in ACIP recommendations on the use of MenB-FHbp does not imply a preference for one MenB over the other.

Combined cases of meningococcal disease, influenza-associated hospitalizations and newly diagnosed cases of Hep B in Stark County make up almost 10% of the annual communicable disease caseload. With yearly updates and revisions to the vaccination schedule, public health can continue to provide quality recommendations to our residents to aid in the decrease in vaccinepreventable disease.

	January 2017				February 2016			
	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	<b>D</b>				E.			
Mold Count	Data collected seasonally and currently not available Data collected seasonally and currently not						irrently not available	
Air Quality Index	75	20	28	2 (Moderate)	30	3	16	Good

Table 2 Select Vital Statistics for Stark County									
	Jan 2017	YTD 2017	2016						
Live Births	330	330	4187						
Births to Teens	28	28	263						
Deaths	415	415	4350						
* Birth and death data may include non county residents.									

	2010	2011	2012	2013	2014
Birth	10.8	10.8	10.9	11.2	12.0
Death	10.9	11.3	11.4	11.3	11.4

\*Source: Ohio Department of Health Data Warehouse. Rates are per 1,000 population.

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

**OH (Provisional Data)** 

	Alliance City		Cantor	n City	ty Massillon City		Stark County		All Departments	
	Jan	YTD	Jan	YTD	Jan	YTD	Jan	YTD	Jan	YTD
Amebiasis	0	0	0	0	1	1	0	0	1	1
Campylobacteriosis	0	0	4	4	0	0	3	3	7	7
Chlamydia infection	11	11	86	86	17	17	60	60	174	174
Giardiasis	0	0	0	0	1	1	1	1	2	2
Gonococcal infection	1	1	29	29	4	4	11	11	45	45
Haemophilus influenzae	0	0	0	0	0	0	2	2	2	2
Hepatitis A	0	0	0	0	1	1	1	1	2	2
Hepatitis B - Perinatal Infection	0	0	0	0	0	0	2	2	2	2
Hepatitis B - chronic	0	0	1	1	0	0	2	2	3	3
Hepatitis C - chronic	3	3	17	17	6	6	18	18	44	44
Influenza-associated hospitalization	4	4	21	21	5	5	53	53	83	83
Legionellosis	1	1	1	1	0	0	0	0	2	2
Lyme Disease	0	0	0	0	0	0	2	2	2	2
Meningitis - aseptic/viral	0	0	2	2	0	0	4	4	6	6
Pertussis	0	0	0	0	0	0	1	1	1	1
Salmonellosis	0	0	2	2	0	0	1	1	3	3
Shigellosis	0	0	1	1	0	0	0	0	1	1
Streptococcal - Group A -invasive	0	0	0	0	0	0	3	3	3	3
Streptococcus pneumoniae - invasive antibiotic resistance unknown or non-										
resistant	1	1	3	3	1	1	3	3	8	8
Streptococcus pneumoniae - invasive antibiotic resistant/ intermediate	1	1	1	1	1	1	0	0	3	3
Syphilis, Total	0	0	0	0	0	0	1	1	1	1
Syphilis, Primary, Secondary and Early Latent	0	0	0	0	0	0	0	0	0	0
Varicella	0	0	1	1	0	0	0	0	1	1
Yersiniosis	0	0	1	1	0	0	3	3	4	4
Total	22	22	170	170	37	37	171	171	400	400

Source: Ohio Disease Reporting System, downloaded 02/13/2017.

Babesiosis0Brucellosis0Brucellosis0Campylobacteriosis7Chlamydia17Coccidioidomycosis0Creutzfeldt-Jakob Disease0Cryptosporidiosis0Cyclosporiasis0Dengue0Escherichia coli , STP, Not 0157:H70Escherichia coli O157:H70Escherichia coli , STP, Unk Serotype0Giardiasis2Gonorrhea44Haemophilus influenzae , Invasive2Hemolytic Uremic Syndrome (HUS)0Hepatitis A2Hepatitis B, Perinatal2Hepatitis B, Chronic3Hepatitis C, Curte0Hepatitis C, Chronic4Influenza-associated hospitalization88Influenza-associated pediatric mortality0Lacrosse virus disease0Listeriosis0Maaria0Measles (indigenous to Ohio)0Meningitis, Aseptic0Meningitis, Other Bacterial0Meningitis, Other Bacterial0Meningitis, Other Bacterial0Meningitis, Other Bacterial0Meningitis, Other Bacterial0Q fever, chronic0Q fever, chronic0Q fever, chronic0	1         0         0         0         7         74         0         0         0         0         0         0         0         0         0         0         0         0         2         2         2         0         3         0         144         0	Jan-16 0 0 0 4 165 0 0 2 0 0 2 0 0 0 1 0 0 1 0 0 1 0 0 0 1 0 0 0 1 0 0 0 1 0 0 0 1 0 0 0 1 0	YTD 2017 1 0 0 7 174 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	YTD 2016 0 0 0 4 165 0 0 2 0 0 2 0 0 0 1 0 0 1 0 0 0 1 0 0 0 1 0 0 0 1 0 0 0 1 0	All of 2016 0 1 0 83 1899 1 2 47 4 0 16 0 0 25 679 5 0 3 3 4 4 4 55	5 Yr annual average 0.2 0.4 0.2 0.2 69.6 1626.0 0.6 35.4 1.2 0.2 4.0 1.8 3.4 28.8 599.6 6.8 0.2 6.2 4.0 5.4	Rate           0.053           0.107           0.053           0.053           18.531           432.923           0.160           9.425           0.320           0.053           1.065           0.479           0.905           7.668           159.644           1.811           0.053           1.651           1.065
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Dengue00Escherichia coli , STP, Not O157:H700Escherichia coli O157:H700Escherichia coli , STP, Unk Serotype00Giardiasis22Gonorrhea44Haemophilus influenzae , Invasive22Hemolytic Uremic Syndrome (HUS)00Hepatitis A22Hepatitis B, Perinatal22Hepatitis B, Acute00Hepatitis C, Chronic33Hepatitis C, Chronic44Hepatitis E00Influenza-associated hospitalization85Influenza-associated pediatric mortality00LaCrosse virus disease00Legionellosis22Malaria00Meningitis, Aseptic66Meningitis, Aseptic66Meningitis, Other Bacterial00Meninguis, Other Bacterial00Mumps00Q fever, acute00Q fever, chronic01Q fever, chronic01	0 0 0 2 2 45 2 2 0 0 2 2 2 0 0 3 3 0 0 44 0 0 33	0 1 0 1 50 1 0 0 0 0 1 6 1 28 0	0 0 0 2 45 2 0 2 2 0 3 0	0 1 0 1 50 1 0 0 0 1 6	0 16 0 25 679 5 0 3 4 4	0.2 4.0 1.8 3.4 28.8 599.6 6.8 0.2 6.2 4.0	0.053 1.065 0.479 0.905 7.668 159.644 1.811 0.053 1.651 1.065
Escherichia coli , STP, Not O157:H70Escherichia coli O157:H70Escherichia coli , STP, Unk Serotype0Giardiasis2Gonorrhea44Haemophilus influenzae , Invasive2Hemolytic Uremic Syndrome (HUS)0Hepatitis A2Hepatitis B, Perinatal2Hepatitis B, Acute0Hepatitis C, Chronic3Hepatitis C, Acute0Influenza-associated hospitalization88Influenza-associated pediatric mortality0LaCrosse virus disease0Legionellosis2Listeriosis0Meningitis, Aseptic0Meningitis, Aseptic0Quere Disease0Meningitis, Aseptic0Meningitis, Other Bacterial0Meningitis, Other Bacterial0Mumps0Pertussis0Q fever, acute0Q fever, chronic0	0 0 2 45 2 0 2 2 0 3 0 44 0 33	1 0 1 50 1 0 0 0 1 6 1 28 0	0 0 2 45 2 0 2 2 0 3 0	1 0 1 50 1 0 0 0 1 6	16           0           25           679           5           0           3           4           4	4.0 1.8 3.4 28.8 599.6 6.8 0.2 6.2 4.0	1.065           0.479           0.905           7.668           159.644           1.811           0.053           1.651           1.065
Escherichia coli O157:H70Escherichia coli , STP, Unk Serotype0Giardiasis2Gonorrhea44Haemophilus influenzae , Invasive2Hemolytic Uremic Syndrome (HUS)0Hepatitis A2Hepatitis B, Perinatal2Hepatitis B, Acute0Hepatitis C, Chronic3Hepatitis E0Influenza-associated hospitalization88Influenza-associated pediatric mortality0LaCrosse virus disease0Legionellosis2Listeriosis2Maaria0Measles (indigenous to Ohio)0Meningitis, Aseptic0Meningitis, Other Bacterial0Meningitis, Other Bacterial0Mumps0Pertussis0Q fever, chronic0Q fever, chronic0	0 0 2 15 2 0 2 2 0 0 3 0 14 0 33	0 0 1 50 1 0 0 0 1 6 1 28 0	0 0 2 45 2 0 2 2 0 3 0 3 0	0 0 1 50 1 0 0 0 1 6	0 0 25 679 5 0 3 4 4	1.8         3.4           28.8         599.6           6.8         0.2           6.2         4.0	0.479 0.905 7.668 159.644 1.811 0.053 1.651 1.065
Escherichia coli , STP, Unk Serotype00Giardiasis22Gonorrhea44Haemophilus influenzae , Invasive22Hemolytic Uremic Syndrome (HUS)00Hepatitis A22Hepatitis B, Perinatal22Hepatitis B, Acute00Hepatitis C, Acute00Hepatitis C, Chronic44Hepatitis E00Influenza-associated hospitalization88Influenza-associated pediatric mortality00Legionellosis22Listeriosis02Malaria00Meningitis, Aseptic66Meningitis, Other Bacterial00Mumps00Pertussis00Q fever, chronic60Q fever, chronic00Q fever, chronic00Q fever, chronic00Q fever, chronic00	0 2 15 2 0 2 2 0 0 3 0 0 14 0 33	0 1 50 1 0 0 0 1 6 1 28 0	0 2 45 2 0 2 2 0 3 0	0 1 50 1 0 0 0 1 6	0 25 679 5 0 3 4 4	3.4 28.8 599.6 6.8 0.2 6.2 4.0	0.905 7.668 159.644 1.811 0.053 1.651 1.065
Giardiasis2Gonorrhea44Haemophilus influenzae , Invasive2Hemolytic Uremic Syndrome (HUS)00Hepatitis A22Hepatitis B, Perinatal22Hepatitis B, Acute00Hepatitis B, Chronic33Hepatitis C, Acute00Hepatitis C, Chronic44Hepatitis E00Influenza-associated hospitalization88Influenza-associated pediatric mortality00Lacrosse virus disease00Listeriosis2Listeriosis0Lyme Disease2Malaria00Meningitis, Aseptic66Meningitis, Other Bacterial00Mumps00Pertussis00Q fever, acute00Q fever, chronic00	2 15 2 0 2 2 0 0 3 0 0 14 0 33	1 50 1 0 0 1 6 1 28 0	2 45 2 0 2 2 0 3 0	1 50 1 0 0 0 1 6	25 679 5 0 3 4 4	28.8 599.6 6.8 0.2 6.2 4.0	7.668 159.644 1.811 0.053 1.651 1.065
Gonorrhea44Haemophilus influenzae , Invasive2Hemolytic Uremic Syndrome (HUS)00Hepatitis A22Hepatitis B, Perinatal22Hepatitis B, Acute00Hepatitis B, Acute00Hepatitis C, Acute00Hepatitis C, Chronic44Hepatitis E00Influenza-associated hospitalization88Influenza-associated pediatric mortality00LaCrosse virus disease00Legionellosis22Listeriosis00Malaria00Meningitis, Aseptic00Meningitis, Other Bacterial00Mumps00Pertussis00Q fever, acute00Q fever, chronic00O00O00O00O00Mumps00O00 </td <td>15       2       0       2       2       0       3       0       144       0       83</td> <td>1       50       1       0       0       1       6       1       28       0</td> <td>45 2 0 2 2 0 3 0</td> <td>50 1 0 0 0 1 6</td> <td>679 5 0 3 4 4</td> <td>599.6 6.8 0.2 6.2 4.0</td> <td>159.644 1.811 0.053 1.651 1.065</td>	15       2       0       2       2       0       3       0       144       0       83	1       50       1       0       0       1       6       1       28       0	45 2 0 2 2 0 3 0	50 1 0 0 0 1 6	679 5 0 3 4 4	599.6 6.8 0.2 6.2 4.0	159.644 1.811 0.053 1.651 1.065
Haemophilus influenzae , Invasive2Hemolytic Uremic Syndrome (HUS)00Hepatitis A22Hepatitis B, Perinatal22Hepatitis B, Acute00Hepatitis B, Acute00Hepatitis C, Acute00Hepatitis C, Chronic44Hepatitis E00Influenza-associated hospitalization88Influenza-associated pediatric mortality00LaCrosse virus disease00Legionellosis22Listeriosis00Malaria00Meningitis, Aseptic00Meningitis, Other Bacterial00Mumps00Pertussis01Q fever, chronic01	2 0 2 2 0 3 0 44 0 33	1 0 0 1 6 1 28 0	2 0 2 2 0 3 0	1 0 0 0 1 6	5 0 3 4 4	6.8 0.2 6.2 4.0	1.811 0.053 1.651 1.065
Hemolytic Uremic Syndrome (HUS)0Hepatitis A22Hepatitis B, Perinatal22Hepatitis B, Acute00Hepatitis B, Acute00Hepatitis B, Chronic33Hepatitis C, Acute00Hepatitis C, Chronic44Hepatitis E00Influenza-associated hospitalization88Influenza-associated pediatric mortality00LaCrosse virus disease00Legionellosis22Listeriosis00Lyme Disease00Malaria00Meningitis, Aseptic00Meningitis, Other Bacterial00Mumps00Pertussis01Q fever, acute00Q fever, chronic00	0 2 2 0 3 0 44 0 83	0 0 1 6 1 28 0	0 2 2 0 3 0	0 0 0 1 6	0 3 4 4	0.2 6.2 4.0	0.053 1.651 1.065
Hepatitis A22Hepatitis B, Perinatal22Hepatitis B, Acute00Hepatitis B, Acute00Hepatitis B, Chronic33Hepatitis C, Acute00Hepatitis C, Chronic44Hepatitis E00Influenza-associated hospitalization88Influenza-associated pediatric mortality00LaCrosse virus disease00Legionellosis22Listeriosis00Lyme Disease00Malaria00Meningitis, Aseptic06Meningitis, Other Bacterial00Mumps00Pertussis01Q fever, acute00Q fever, chronic00	2 2 0 3 0 44 0 83	0 0 1 6 1 28 0	2 2 0 3 0	0 0 1 6	3 4 4	6.2 4.0	1.651 1.065
Hepatitis B, Perinatal2Hepatitis B, Acute00Hepatitis B, Chronic33Hepatitis C, Acute00Hepatitis C, Chronic44Hepatitis E00Influenza-associated hospitalization88Influenza-associated pediatric mortality00LaCrosse virus disease00Legionellosis22Listeriosis00Lyme Disease00Malaria00Meningitis, Aseptic00Meningitis, Other Bacterial00Mumps00Pertussis11Q fever, acute00Q fever, chronic00	2 0 3 0 14 0 83	0 1 6 1 28 0	2 0 3 0	0 1 6	4 4	4.0	1.065
Hepatitis B, Acute00Hepatitis B, Chronic33Hepatitis C, Acute00Hepatitis C, Chronic44Hepatitis E00Influenza-associated hospitalization88Influenza-associated pediatric mortality00LaCrosse virus disease00Legionellosis22Listeriosis00Lyme Disease00Malaria00Meningitis, Aseptic00Meningitis, Other Bacterial00Mumps00Q fever, acute00Q fever, chronic00	0 3 0 14 0 33	1 6 1 28 0	0 3 0	1 6	4		
Hepatitis B, Chronic33Hepatitis C, Acute00Hepatitis C, Chronic44Hepatitis E00Influenza-associated hospitalization88Influenza-associated pediatric mortality00LaCrosse virus disease00Legionellosis22Listeriosis00Lyme Disease00Malaria00Meningitis, Aseptic00Meningitis, Other Bacterial00Mumps00Pertussis11Q fever, acute00Q fever, chronic00	3 0 14 0 33	6 1 28 0	3 0	6		5.4	
Hepatitis C, Acute00Hepatitis C, Chronic44Hepatitis E00Influenza-associated hospitalization88Influenza-associated pediatric mortality00LaCrosse virus disease00Legionellosis22Listeriosis00Lyme Disease00Malaria00Meningitis, Aseptic06Meningitis, Other Bacterial00Mumps00Pertussis11Q fever, acute00Q fever, chronic00	0 14 0 33	1 28 0	0	-	55		1.438
Hepatitis C, Chronic44Hepatitis E00Influenza-associated hospitalization88Influenza-associated pediatric mortality00LaCrosse virus disease00Legionellosis22Listeriosis00Lyme Disease22Malaria00Meningitis, Aseptic66Meningitis, Other Bacterial00Mumps00Pertussis11Q fever, acute00Q fever, chronic00	14 0 33	28 0	-	-	~~	40.0	10.650
Hepatitis E00Influenza-associated hospitalization88Influenza-associated pediatric mortality00LaCrosse virus disease00Legionellosis22Listeriosis00Lyme Disease22Malaria00Meningitis, Aseptic66Meningococcal Disease00Mumps00Pertussis11Q fever, acute00Q fever, chronic00	0 83	0	44	1	9	8.4	2.237
Influenza-associated hospitalization8Influenza-associated pediatric mortality00LaCrosse virus disease00Legionellosis22Listeriosis00Lyme Disease22Malaria00Meningitis, Aseptic66Meningitis, Other Bacterial00Mumps00Pertussis11Q fever, acute00Q fever, chronic00	33	-		28	328	284.6	75.775
Influenza-associated pediatric mortality0LaCrosse virus disease00Legionellosis22Listeriosis00Lyme Disease22Malaria00Measles (indigenous to Ohio)00Meningitis, Aseptic66Meningitis, Other Bacterial00Mumps00Pertussis11Q fever, acute00Q fever, chronic00			0	0	1	0.2	0.053
LaCrosse virus disease00Legionellosis22Listeriosis00Lyme Disease22Malaria00Measles (indigenous to Ohio)00Meningitis, Aseptic66Meningitis, Other Bacterial00Meningococcal Disease00Mumps00Pertussis11Q fever, acute00Q fever, chronic00	0	4	83	4	196	274.2	73.006
Legionellosis2Listeriosis0Lyme Disease2Malaria0Measles (indigenous to Ohio)0Meningitis, Aseptic6Meningitis, Other Bacterial0Meningococcal Disease0Mumps0Pertussis1Q fever, acute0Q fever, chronic0		0	0	0	0	0.2	0.053
Listeriosis0Lyme Disease2Malaria0Measles (indigenous to Ohio)0Meningitis, Aseptic6Meningitis, Other Bacterial0Meningococcal Disease0Mumps0Pertussis1Q fever, acute0Q fever, chronic0	0	0	0	0	1	0.4	0.107
Lyme Disease2Malaria0Measles (indigenous to Ohio)0Meningitis, Aseptic6Meningitis, Other Bacterial0Meningococcal Disease0Mumps0Pertussis1Q fever, acute0Q fever, chronic0	2	0	2	0	16	15.6	4.154
Malaria0Measles (indigenous to Ohio)0Meningitis, Aseptic6Meningitis, Other Bacterial0Meningococcal Disease0Mumps0Pertussis1Q fever, acute0Q fever, chronic0	0	0	0	0	1	1.2	0.320
Measles (indigenous to Ohio)0Meningitis, Aseptic6Meningitis, Other Bacterial0Meningococcal Disease0Mumps0Pertussis1Q fever, acute0Q fever, chronic0	2	1	2	1	27	16.6	4.420
Meningitis, Aseptic6Meningitis, Other Bacterial0Meningococcal Disease0Mumps0Pertussis1Q fever, acute0Q fever, chronic0	0	0	0	0	1	0.6	0.160
Meningitis, Other Bacterial00Meningococcal Disease00Mumps00Pertussis11Q fever, acute00Q fever, chronic00	0	1	0	1	1	2.0	0.532
Meningococcal Disease0Mumps0Pertussis1Q fever, acute0Q fever, chronic0	6	3	6	3	30	28.6	7.615
Mumps0Pertussis1Q fever, acute0Q fever, chronic0	0	0	0	0	5	3.8	1.012
Pertussis1Q fever, acute0Q fever, chronic0	0	0	0	0	0	1.0	0.266
Q fever, acute0Q fever, chronic0	0	1	0	1	2	2.4	0.639
Q fever, chronic 0	1	1	1	1	31	38.6	10.277
	0	0	0	0	0	0.4	0.106
	0	0	0	0	0	0.0	0.000
	3	6	3	6	51	45.4	12.088
8	1	0	1	0	8	35.8	9.532
~ · · · · · · · · · · · · · · · · · · ·	0	0	0	0	0	0.4	0.106
, , , , , , , , , , , , , , , , , , ,	0	0	0	0	1	0.2	0.053
1 1	3	0	3	0	10	12.8	3.408
	0	0	0	0	4	1.8	0.479
	0	0	0	0	1	1.0	0.266
	8	8	8	8	37	36.8	9.798
	3	5	3	5	16	17.6	4.686
	1	1	1	1	21	12.0	3.195
51 5 5 5	0	1	0	1	15	7.6	2.024
	0	0	0	0	0	0.8	0.213
	0	0	0	0	2	1.2	0.320
	0	0	0	0	0	0.4	0.107
	1	5	1	5	35	29.4	7.828
	0	0	0	0	4	1.8	0.479
	0	0	0	0	0	0.2	0.053
	-	0	0	0	0	0.6	0.160
	0	1	4	1	9	4.6	1.225
Zika virus infection 0 Source: Ohio Disease Reporting System, downloaded 02/13/2017. Rates are per 100K	4	0	0	0	5	5.0	1.331

Source: Ohio Disease Reporting System, downloaded 02/13/2017. Rates are per 100K population and based on 5 yr average incidence '12-'16.



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