

# Bexar County 2017 Communicable Disease Report



# **Epidemiology Program**

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#### **Report Information and Definitions**

The data contained in this report were extracted from the National Electronic Disease Surveillance System (NEDSS Base System) and analyzed by the Epidemiology Program of the City of San Antonio Metropolitan Health District. Incidence rates (cases per 100,000 population) were calculated using United States Census Bureau 2017 Population Estimates for Bexar County or 2013-2017 American Community Survey 5-Year Estimates for Zip Code Tabulation Areas. Rates for conditions with case counts <20 are considered unstable.

Information pertaining to causative agent, signs and symptoms, modes of transmission, incubation period, and period of communicability was obtained from the Centers for Disease Control and Prevention. The Emerging and Acute Infectious Disease Guidelines (Texas Department of State Health Services, January 2016) was used as a secondary source. Definitions are as follows:

- Causative Agent: bacteria, virus, parasite, fungus or prion which can cause disease state
- Signs/Symptoms: physical manifestations which may result from infection with a causative agent
- Mode(s) of Transmission: mechanisms by which the causative agent spreads among human populations
- Incubation Period: time interval from infection with a causative agent until the demonstration of signs or symptoms
- Period of Communicability: time period during which a causative agent may be transmitted directly or indirectly from a person to another person

Table 1. Selected Reported Notifiable Conditions, Bexar County, 2017

Condition	Case Count	Incidence Rate (Cases/100,000 Population)
Amebiasis	6	0.3
Campylobacteriosis	579	29.6
Carbapenem-resistant Enterobacteriaceae (CRE)	67	3.4
Chagas disease	1	0.1
Chikungunya virus disease	1	0.1
Cryptosporidiosis	101	5.2
Cyclosporiasis	41	2.1
Heamophilus influenzae, invasive	39	2.0
Hepatitis A, acute	17	0.9
Hepatitis B, acute	11	0.6
Hepatitis C, acute	4	0.2
Legionellosis	24	1.2
Listeriosis	4	0.2
Lyme disease	4	0.2
Malaria	5	0.3
Multidrug-resistant Acinetobacter (MDR-A)	94	4.8
Mumps	26	1.3
Pertussis	66	3.4
Rickettsiosis, unspecified	1	0.1
Salmonellosis	300	15.3
Shiga toxin-producing Escherichia coli (STEC)	81	4.1
Shigellosis	159	8.1
Spotted fever group rickettsioses	12	0.6
Streptococcus pneumoniae, invasive disease (IPD)	85	4.3
Streptococcus, invasive Group A (GAS) disease	104	5.3
Streptococcus, invasive Group B (GBS) disease	172	8.8
Typhoid fever (Salmonella Typhi)	2	0.1
Typhus, flea-borne (endemic, murine)	59	3.0
Varicella (chickenpox)	87	4.4
Vibrio parahaemolyticus	2	0.1
Vibrio vulnificus	3	0.2
Vibriosis, other or unspecified	14	0.7
West Nile fever	1	0.1
Yersiniosis	9	0.5
Zika virus disease	4	0.2

Rates for diseases with case counts <20 are considered unstable

## 1. Campylobacteriosis

Causative Agent: Campylobacter species bacteria

Signs/Symptoms: Diarrhea (often bloody), fever, abdominal cramps, nausea, and vomiting. Some

infected people do not have any symptoms.

Mode(s) of Transmission: Ingestion of raw/undercooked poultry or food contaminated by

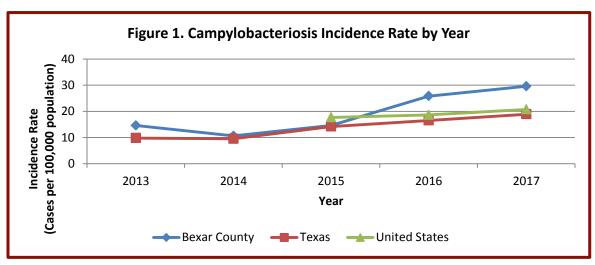
raw/undercooked poultry; contact with the feces of a dog or cat.

Incubation Period: Typically 2-4 days

**Period of Communicability:** Person-to-person transmission is uncommon.

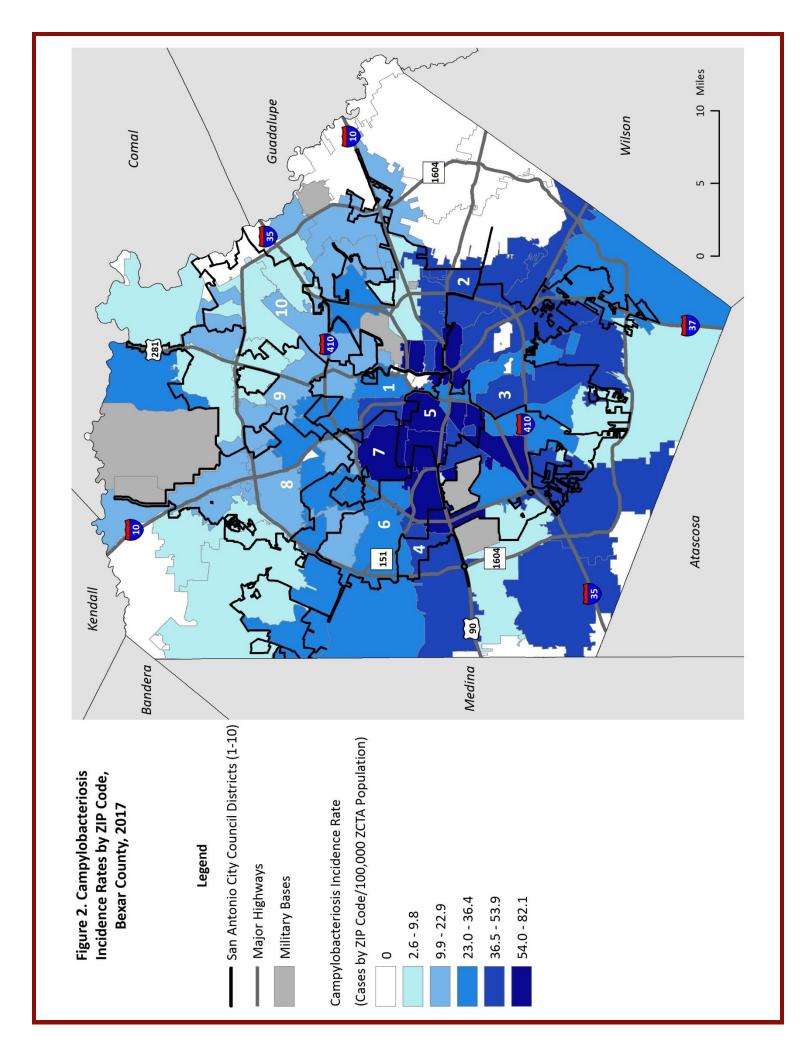
Table 2. Campylobacteriosis Disease Summary, Bexar County, 2017

Case Count	579	Incidence Rate		29.6
Gender		Number	Percent	Rate
Female		272	47.0	27.4
Male		307	53.0	31.8
Race/Ethnicity		Number	Percent	Rate
Hispanic		346	59.8	29.3
Black, Non-Hispanic		21	3.6	14.7
White, Non-Hispanio	•	81	14.0	14.9
Other, Non-Hispanic		6	1.0	6.6
Age Group		Number	Percent	Rate
0-14		212	36.6	50.3
15-24		54	9.3	18.8
25-44		130	22.5	22.6
45-64		116	20.0	26.1
65+		67	11.6	28.9



Texas (2013-2017) and Bexar County (2013-2016) rates from *Campylobacteriosis Data* (Infectious Disease Control Unit, Texas Department of State Health Services). US rates from *Summary of Notifiable Infectious Diseases and Conditions — United States, 2015* (CDC MMWR) and *National Notifiable Infectious Diseases and Conditions: United States, Annual data* for 2016-2017 (CDC WONDER).

 $US\ rates\ for\ 2013-2014\ not\ reported\ as\ campylobacterios is\ was\ not\ nationally\ notifiable\ before\ 2015.$ 



#### 2. Salmonellosis

Causative Agent: Salmonella species bacteria

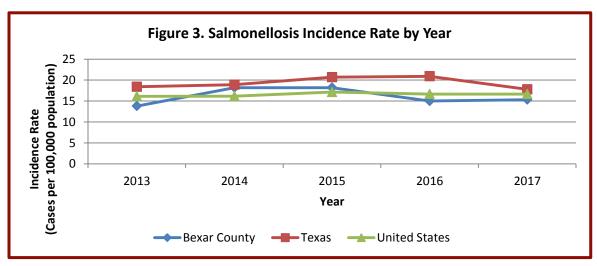
**Signs/Symptoms:** Diarrhea (may be bloody), abdominal cramps, fever, nausea, vomiting, and headache. **Mode(s) of Transmission:** Ingestion of contaminated food or water; contact with infected animals or people.

**Incubation Period:** 12-72 hours

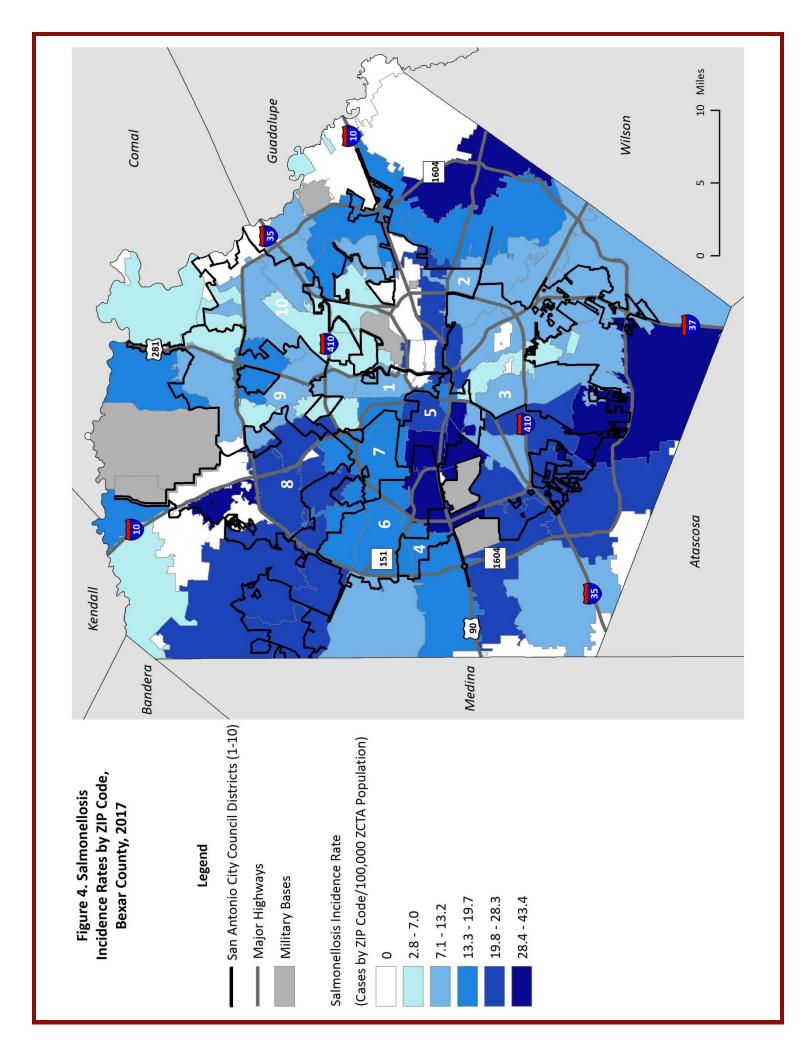
**Period of Communicability:** Infected persons may transmit the bacteria for days to weeks during infection, up to several months (rarely).

Table 3. Salmonellosis Disease Summary, Bexar County, 2017

Case Count	300	Incidence Rate		15.3
Gender		Number	Percent	Rate
Female		161	53.7	16.2
Male		137	45.7	14.2
Race/Ethnicity		Number	Percent	Rate
Hispanic		156	52.0	13.2
Black, Non-Hispanic		10	3.3	7.0
White, Non-Hispanio	•	64	21.3	11.8
Other, Non-Hispanic		2	0.7	2.2
Age Group		Number	Percent	Rate
0-14		150	50.0	35.6
15-24		26	8.7	9.1
25-44		47	15.7	8.2
45-64		45	15.0	10.1
65+		32	10.7	13.8



Texas (2013-2017) and Bexar County (2013-2016) rates from Salmonellosis Data (Infectious Disease Control Unit, Texas Department of State Health Services). US rates from Summary of Notifiable Infectious Diseases and Conditions — United States, 2013-2015 (CDC MMWR) and National Notifiable Infectious Diseases and Conditions: United States, Annual data for 2016-2017 (CDC WONDER).



# 3. Streptococcus, Invasive Group B (GBS)

Causative Agent: Streptococcus agalactiae (group B Streptococcus) bacteria

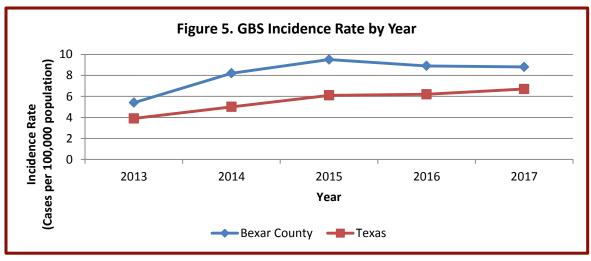
**Signs/Symptoms:** In newborns, GBS can cause bacteremia and sepsis, pneumonia, and meningitis; symptoms include fever, difficulty feeding, irritability or lethargy, difficulty breathing, and bluish skin color. In adults, GBS can cause bacteremia and sepsis, pneumonia, skin and soft-tissue infections, and bone and joint infections; symptoms depend on the part of the body that is infected.

**Mode(s) of Transmission:** Pregnant women may pass GBS to babies during labor and delivery. Mode of transmission in non-pregnant adults is unknown.

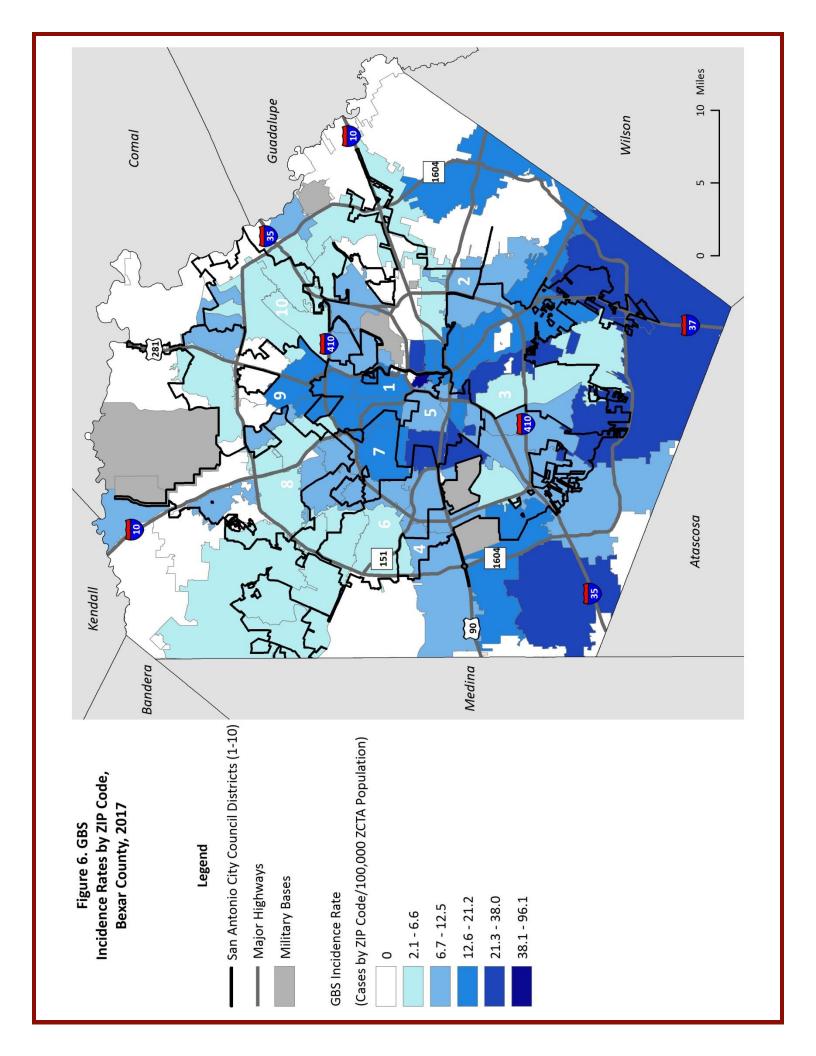
**Incubation Period:** <7 days for babies less than 7 days old; unknown for infants, children, and adults. **Period of Communicability:** If a pregnant woman has the bacteria in her body, she can transmit them to her baby during labor and delivery.

Table 4. GBS Disease Summary, Bexar County, 2017

Number of Cases	172	Incidence Rate		8.8
Gender		Number	Percent	Rate
Female		62	36.0	6.3
Male		110	64.0	11.4
Race/Ethnicity		Number	Percent	Rate
Hispanic		109	63.4	9.2
Black, Non-Hispanic		8	4.7	5.6
White, Non-Hispanio	;	24	14.0	4.4
Other, Non-Hispanic	:	0	0.0	-
Age Group		Number	Percent	Rate
0-14		16	9.3	3.8
15-24		2	1.2	0.7
25-44		33	19.2	5.7
45-64		80	46.5	18.0
65+		41	23.8	17.7



Texas (2013-2017) and Bexar County (2013-2016) rates from *Group B Streptococci Data* (Infectious Disease Control Unit, Texas Department of State Health Services). US rates are not reported as GBS is not a nationally notifiable condition.



## 4. Shigellosis

Causative Agent: Shigella species bacteria

Signs/Symptoms: Diarrhea (sometimes bloody), fever, stomach pain, and feeling the need to pass stool

even when the bowels are empty. Some people do not have any symptoms.

Mode(s) of Transmission: Contaminated hands touching someone's food or mouth; ingestion of

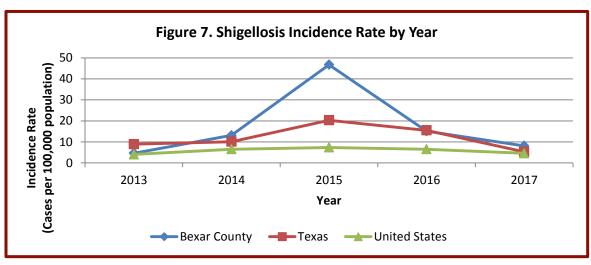
contaminated food or water; exposure to feces through sexual contact.

**Incubation Period:** Usually 1-2 days

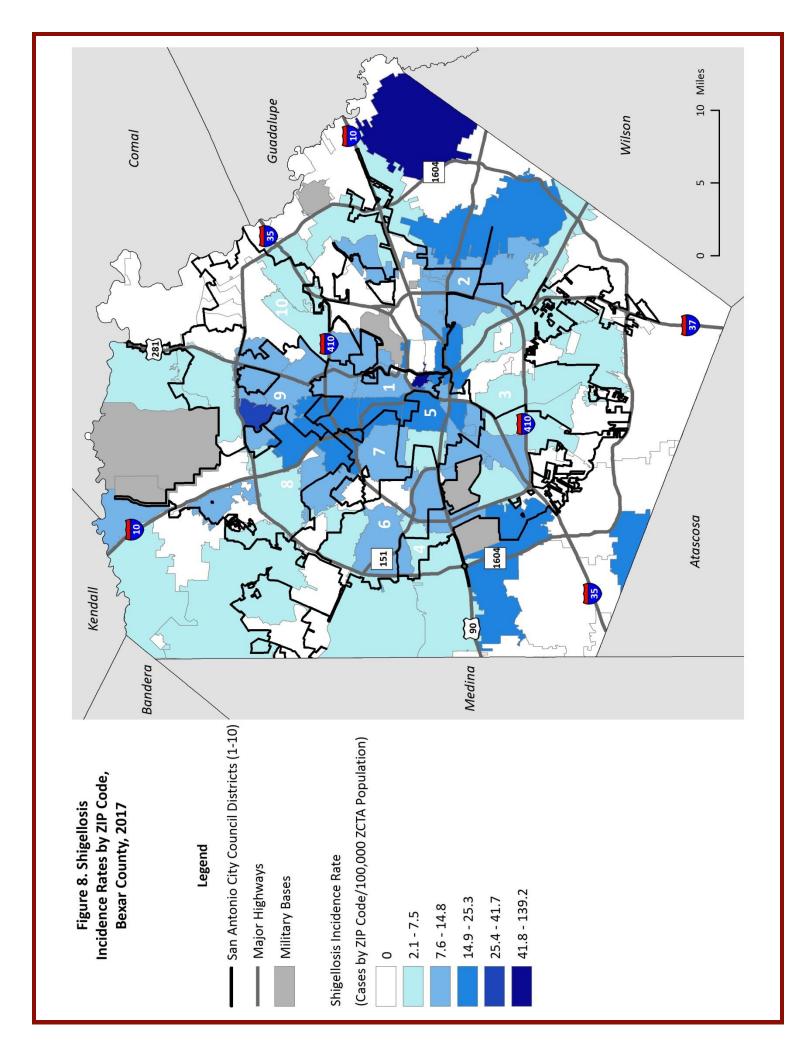
**Period of Communicability:** Infected persons may transmit the bacteria for 1-4 weeks after onset of illness, up to several months (rarely).

Table 5. Shigellosis Disease Summary, Bexar County, 2017

Number of Cases	159	Incidence Rate		8.1
Gender		Number	Percent	Rate
Female		65	40.9	6.6
Male		94	59.1	9.7
Race/Ethnicity		Number	Percent	Rate
Hispanic		95	59.7	8.0
Black, Non-Hispanic		5	3.1	3.5
White, Non-Hispanio	;	28	17.6	5.2
Other, Non-Hispanic	:	1	0.6	1.1
Age Group		Number	Percent	Rate
0-14		86	54.1	20.4
15-24		11	6.9	3.8
25-44		34	21.4	5.9
45-64		21	13.2	4.7
65+		7	4.4	3.0



Texas (2013-2017) and Bexar County (2013-2016) rates from Shigellosis Data (Infectious Disease Control Unit, Texas Department of State Health Services). US rates from Summary of Notifiable Infectious Diseases and Conditions — United States, 2013-2015 (CDC MMWR) and National Notifiable Infectious Diseases and Conditions: United States, Annual data for 2016-2017 (CDC WONDER).



# 5. Streptococcus, Invasive Group A (GAS)

Causative Agent: Streptococcus pyogenes (group A Streptococcus) bacteria

Signs/Symptoms: GAS disease has multiple invasive and non-invasive presentations. Non-invasive presentations include strep throat, scarlet fever, impetigo, cellulitis, otitis media and wound infections. Invasive presentations include meningitis, septicemia, septic arthritis, necrotizing fasciitis, peritonitis, osteomyelitis, and toxic-shock syndrome.

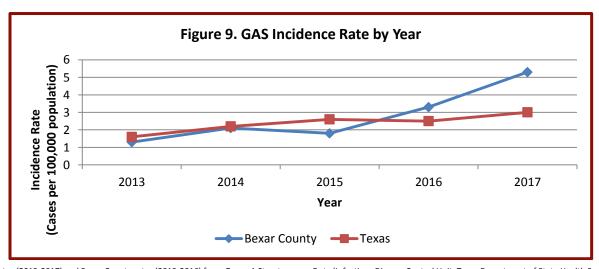
Mode(s) of Transmission: Most commonly through direct person-to-person transmission, typically through saliva or nasal secretions from an infected person. May be spread via food (rarely).

**Incubation Period:** 1-5 days

Period of Communicability: Untreated persons may transmit the bacteria for 10-21 days or longer. The infectious period ends 24 hours after the start of appropriate treatment.

Table 6. GAS Disease Summary, Bexar County, 2017

Number of Cases	104	Incidence Rate		5.3
Gender		Number	Percent	Rate
Female		42	40.4	4.2
Male		62	59.6	6.4
Race/Ethnicity		Number	Percent	Rate
Hispanic		46	44.2	3.9
Black, Non-Hispanic		4	3.8	2.8
White, Non-Hispanio	;	29	27.9	5.3
Other, Non-Hispanic	:	1	1.0	1.1
Age Group		Number	Percent	Rate
0-14		5	4.8	1.2
15-24		7	6.7	2.4
25-44		21	20.2	3.7
45-64		42	40.4	9.5
65+		29	27.9	12.5



Texas rates (2013-2017) and Bexar County rates (2013-2016) from Group A Streptococcus Data (Infectious Disease Control Unit, Texas Department of State Health Services). US rates are not reported as GAS is not a nationally notifiable condition.

