



Bexar County 2019 Communicable Disease Report



Epidemiology Program

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Report Specific 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. Rates for diseases with case counts <20 are considered unstable and disease counts less than 5 (1-4) are suppressed to protect case confidentiality.

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 (www.cdc.gov). 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, 2019

Condition	Case Count	Incidence Rate (cases/100,000 population)
Amebiasis	9	0.4
Campylobacteriosis	747	36.4
Carbapenem-resistant Enterobacteriaceae (CRE)	69	3.4
Chagas, chronic indeterminate	2	0.1
Cryptosporidiosis	129	6.3
Cyclosporiasis	58	2.9
Haemophilus influenzae, invasive	30	1.5
Hemolytic uremic syndrome	4	0.2
Hepatitis A	25	1.2
Hepatitis B virus infection, chronic	48	2.4
Hepatitis B, acute	11	0.5
Hepatitis C, acute	10	0.5
Influenza-associated pediatric mortality	4	0.2
Legionellosis	41	2.0
Listeriosis	4	0.2
Lyme disease	3	0.1
Malaria	9	0.4
Measles (Rubeola)	1	0.1
Meningococcal infection, invasive (<i>Neisseria meningitidis</i>)	2	0.1
Multidrug-resistant Acinetobacter (MDR-A)	82	4.1
Mumps	52	2.6
Pertussis	92	4.6
Q fever, Acute	1	0.1
Q fever, Chronic	1	0.1
Rickettsia, unspecified	3	0.1
Salmonellosis	355	17.3
Shiga toxin-producing Escherichia coli (STEC)	92	4.6
Shigellosis	740	36.0
Spotted Fever Rickettsiosis	1	0.1
Streptococcus pneumoniae, invasive disease (IPD)	116	5.8
Streptococcus, invasive Group A	73	3.6
Streptococcus, invasive Group B	154	7.7
Typhus fever-fleaborne, murine	114	5.7
Vancomycin-intermediate <i>Staph aureus</i> (VISA)	1	0.1
Varicella (Chickenpox)	80	4.0
Vibrio parahaemolyticus	1	0.1
Vibrio vulnificus infection	3	0.1
Vibriosis, other or unspecified	23	1.1
Yersiniosis	20	1.0
Zika Virus, non-congenital	1	0.1

Rates for diseases with case counts <20 are considered unstable
Less than five cases (1-4) are suppressed to protect confidentiality

1. Campylobacteriosis

Causative Agent: (bacterial) *Campylobacter* species

Signs/Symptoms: Diarrhea (usually bloody), abdominal pain, vomiting, nausea, malaise, and fever. Some people do not present with any symptoms.

Mode(s) of Transmission: Ingestion of food from infected animals (typically poultry) or food or water contaminated by feces of an infected animal. Contact with an infected animal (especially puppies and kittens).

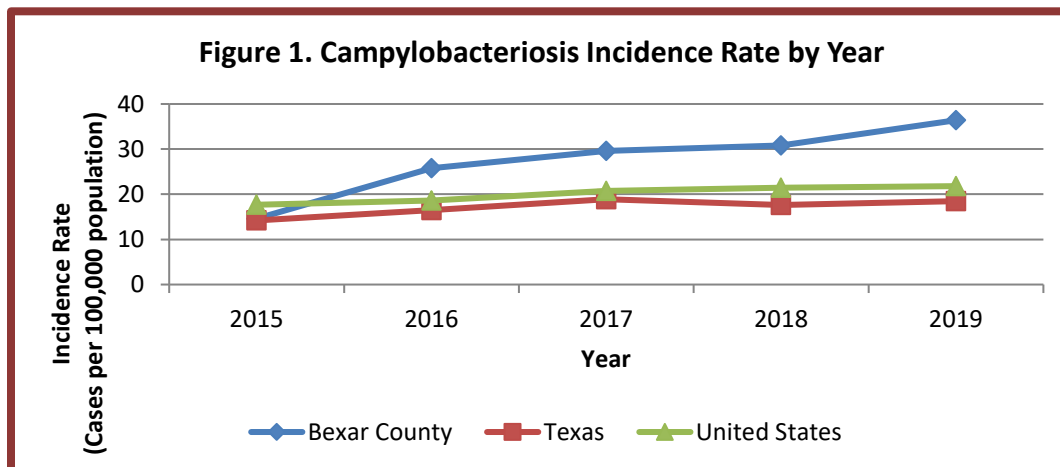
Incubation Period: Usually 1 to 10 days

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

Table 2. Campylobacteriosis Disease Summary, Bexar County, 2019

Number of Cases	747	Incidence Rate	36.4
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Gender	Number	Percent	Rate
Female	348	46.6	17.4
Male	399	53.4	19.9
Race/Ethnicity	Number	Percent	Rate
Hispanic	468	62.7	23.4
Black, NH	26	3.5	1.3
White, NH	141	18.9	7.0
Other	112	15.0	5.6
Age Group	Number	Percent	Rate
0-14	229	30.7	11.4
15-24	82	11.0	4.1
25-44	170	22.8	8.5
45-64	165	22.1	8.2
65+	101	13.5	5.0



Rates for Texas: Texas Department of State Health Services (DSHS)
<https://www.dshs.texas.gov/IDCU/disease/campylobacteriosis/Campylobacteriosis-Data.aspx>

Rates for the United States: CDC Morbidity and Mortality Weekly Report (MMWR) Summary of Notifiable Infectious Diseases and Conditions – United States 2015 and CDC Nationally Notifiable Infectious Diseases and Conditions, United States: Annual Tables 2016, 2017, 2018, & 2019

2. Shigellosis

Causative Agent: (bacterial) *Shigella* species

Signs/Symptoms: Diarrhea (typically bloody), fever, abdominal pain, and vomiting. Some people do not present with any symptoms.

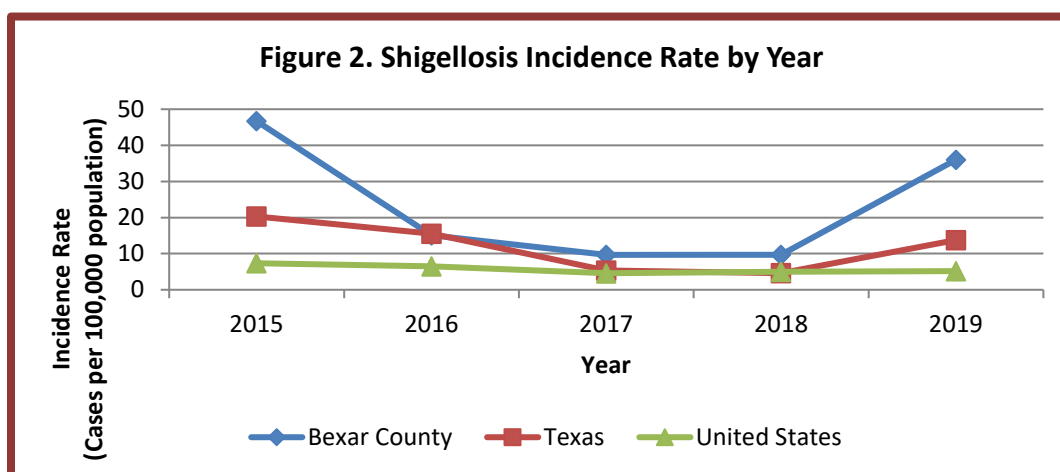
Mode(s) of Transmission: Direct fecal-oral route or ingestion of food or water contaminated with feces of an infected person.

Incubation Period: Usually 1 – 3 days

Period of Communicability: If signs/symptoms are present, infected persons may transmit the bacteria for up to four weeks after becoming infected.

Table 3. Shigellosis Disease Summary, Bexar County, 2019

Number of Cases	740	Incidence Rate	36.0
Gender	Number	Percent	Rate
Female	357	48.2	17.8
Male	383	51.8	19.1
Race/Ethnicity	Number	Percent	Rate
Hispanic	473	63.9	23.6
Black, NH	66	8.9	3.3
White, NH	116	15.7	5.8
Other	85	11.5	4.2
Age Group	Number	Percent	Rate
0-14	516	69.7	25.8
15-24	35	4.8	1.76
25-44	126	17.0	6.3
45-64	48	6.5	2.4
65+	15	2.0	0.7



Rates for Texas: Texas Department of State Health Services (DSHS)
<https://www.dshs.texas.gov/IDCU/disease/shigellosis/Shigellosis-Data.aspx>

Rates for the United States: CDC Morbidity and Mortality Weekly Report (MMWR) Summary of Notifiable Infectious Diseases and Conditions – United States 2015 and CDC Nationally Notifiable Infectious Diseases and Conditions, United States: Annual Tables 2016, 2017, 2018, & 2019

3. Salmonellosis

Causative Agent: (bacterial) *Salmonella* species

Signs/Symptoms: Fever, headache, abdominal pain, diarrhea, and vomiting. Some people do not present with any symptoms.

Mode(s) of Transmission: Ingestion of food from infected animals or contaminated feces of an infected animal or person

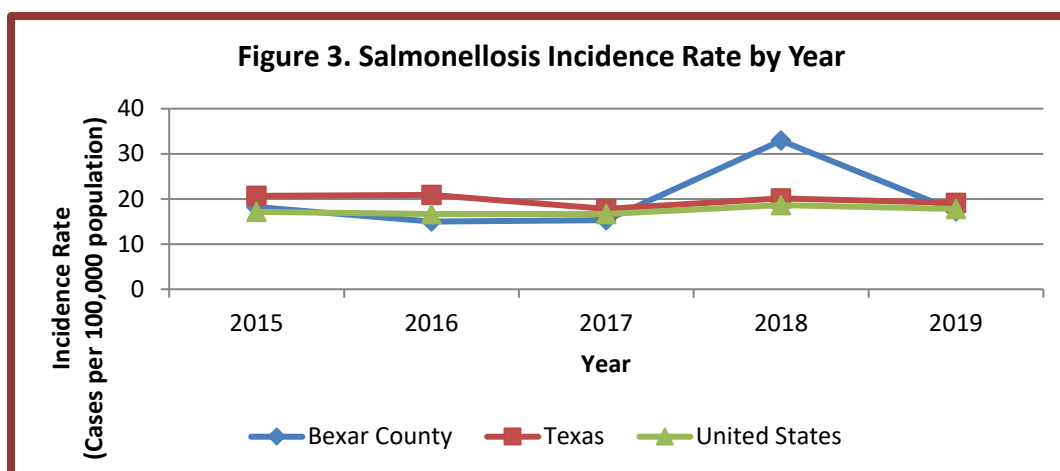
Incubation Period: Usually 1-2 days

Period of Communicability: If signs/symptoms are present, infected persons may transmit the bacteria for weeks up to a year after becoming infected.

Table 4. Salmonellosis Disease Summary, Bexar County, 2016

Number of Cases	355	Incidence Rate	17.3
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Gender	Number	Percent	Rate
Female	184	51.8	9.2
Male	171	48.2	8.5
Race/Ethnicity	Number	Percent	Rate
Hispanic	189	53.2	9.4
Black, NH	15	4.2	0.7
White, NH	82	23.1	4.1
Other	69	19.4	3.4
Age Group	Number	Percent	Rate
0-14	149	42.0	7.4
15-24	27	7.6	1.3
25-44	64	18.0	3.2
45-64	67	18.9	3.3
65+	48	13.5	2.4



Rates for Texas: Texas Department of State Health Services (DSHS)
<https://www.dshs.texas.gov/IDCU/disease/salmonellosis/Salmonellosis-Data.aspx>

Rates for the United States: CDC Morbidity and Mortality Weekly Report (MMWR) Summary of Notifiable Infectious Diseases and Conditions – United States 2015 and CDC Nationally Notifiable Infectious Diseases and Conditions, United States: Annual Tables 2016, 2017, 2018, & 2019

4. Streptococcus, Invasive Group B (GBS)

Causative Agent: (bacterial) *Streptococcus agalactiae* or group B streptococcus

Signs/Symptoms: Amongst newborns symptoms include fever, difficulty breathing, irritability, lethargy, difficulty feeding, and bluish skin color. Symptoms may also include sepsis, pneumonia, and meningitis. Symptoms vary amongst adults depending on the part of the body infected.

Modes(s) of Transmission: Pregnant women may pass along to babies during labor and birth. Mode of transmission amongst adults is unknown.

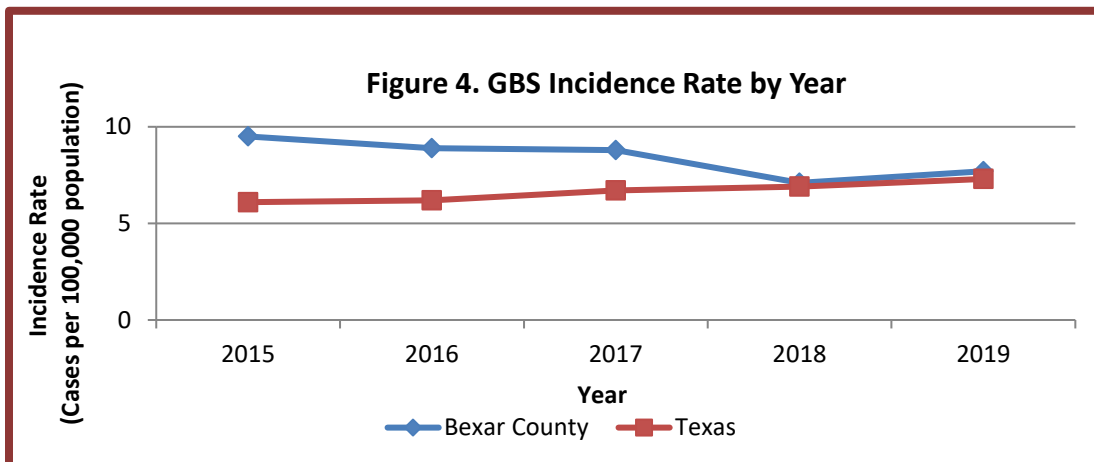
Incubation Period: Less than 7 days for babies less than seven days old, unknown for infants, children, and adults

Period of Communicability: Unknown

Table 5. Streptococcus, Invasive Group B Disease Summary, Bexar County, 2019

Number of Cases	154	Incidence Rate	7.7
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Gender	Number	Percent	Rate
Female	57	37.0	2.8
Male	97	63.0	4.8
Race/Ethnicity	Number	Percent	Rate
Hispanic	96	62.3	4.8
Black, NH	11	7.1	0.5
White, NH	38	24.7	1.9
Other	9	5.8	0.4
Age Group	Number	Percent	Rate
0-14	14	9.1	0.7
15-24	2	1.3	0.1
25-44	26	16.9	1.3
45-64	70	45.5	3.5
65+	42	27.3	2.1



Rates for Texas: Texas Department of State Health Services (DSHS)
<https://www.dshs.texas.gov/IDCU/disease/salmonellosis/Salmonellosis-Data.aspx>

5. Cryptosporidiosis

Causative Agent: (parasite) *Cryptosporidium*

Signs/Symptoms: Diarrhea (watery and accompanied by nausea and vomiting), stomach cramps or pain, dehydration, fever, and weight loss. Immunocompromised persons may develop serious, chronic, and sometimes fatal illness.

Mode(s) of Transmission: Ingestion of fecally contaminated water or food, direct contact with infected animals or people, or through oral-anal sexual contact.

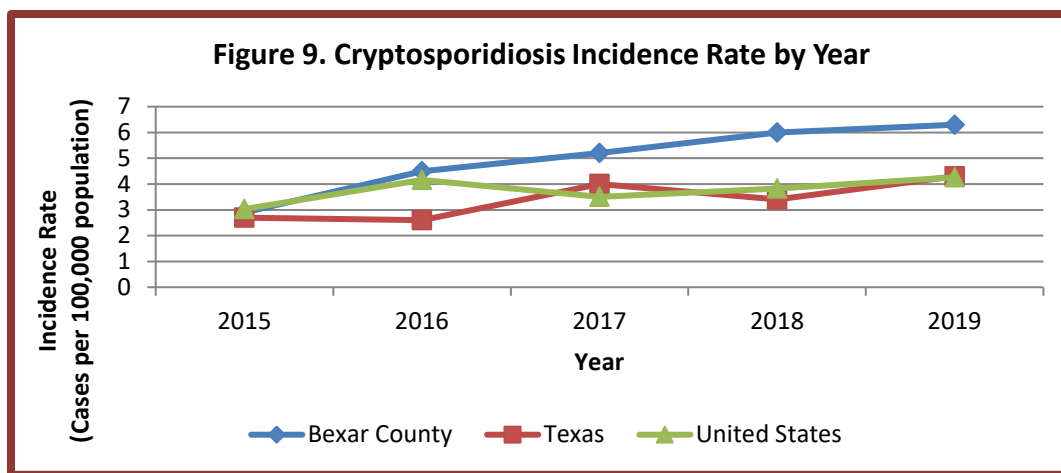
Incubation Period: Average of 7 days (range: 2-10 days)

Period of Communicability: Unknown

Table 6. Cryptosporidiosis, Invasive Disease Summary, Bexar County, 2019

Number of Cases	129	Incidence Rate	6.3
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Gender	Number	Percent	Rate
Female	68	52.7	3.4
Male	61	47.3	3.0
Race/Ethnicity	Number	Percent	Rate
Hispanic	74	57.4	3.7
Black, NH	4	3.1	0.2
White, NH	35	27.1	1.7
Other	16	12.4	0.8
Age Group	Number	Percent	Rate
0-14	48	37.2	2.4
15-24	15	11.6	0.7
25-44	47	36.4	2.3
45-64	10	7.8	0.5
65+	9	7.0	0.4



Rates for Texas: Texas Department of State Health Services (DSHS)
<https://www.dshs.texas.gov/IDCU/disease/Cryptosporidiosis.aspx>

Rates for the United States: CDC Morbidity and Mortality Weekly Report (MMWR) Summary of Notifiable Infectious Diseases and Conditions – United States 2015 and CDC Nationally Notifiable Infectious Diseases and Conditions, United States: Annual Tables 2016, 2017, 2018, & 2019