



Bexar County 2015 Communicable Disease Report



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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, 2015

Condition	Case Count	Rate (cases/100,000 population)
Amebiasis	10	0.5
Botulism, infant	<5	-
Campylobacteriosis	272	14.4
Carbapenem-resistant Enterobacteriaceae (CRE)	35	1.9
Chagas Disease	<5	-
Chikungunya virus disease	<5	-
Creutzfeldt-Jakob Disease	<5	-
Cryptosporidiosis	55	2.9
Cyclosporiasis	9	0.5
Cysticercosis	<5	-
Hepatitis A, acute	13	0.7
Hepatitis B, acute	8	0.4
Hepatitis C, acute	<5	-
Legionellosis	14	0.7
Lyme disease	7	0.4
Malaria	<5	-
Multidrug-resistant Acinetobacter (MDR-A)	44	2.3
Mumps	<5	-
Neisseria meningitidis, invasive (Mening. disease)	<5	-
Pertussis	64	3.4
Rickettsia, unspecified	<5	-
Salmonellosis	341	18.1
Shiga toxin-producing Escherichia coli (STEC)	25	1.3
Shigellosis	877	46.6
Spotted Fever Rickettsiosis	7	0.4
Streptococcus pneumoniae, invasive disease (IPD)	124	6.6
Streptococcus, invasive Group A	34	1.8
Streptococcus, invasive Group B	179	9.5
Typhoid fever (Salmonella typhi)	<5	-
Typhus fever-fleaborne, murine	37	2.0
Varicella (Chickenpox)	106	5.6
Vibrio parahaemolyticus	<5	-
Vibrio vulnificus infection	<5	-
Vibriosis, other or unspecified	<5	-
West Nile Fever	<5	-
Yersiniosis	<5	-

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

1. Shigellosis

Causative Agent: (bacterial) *Shigella* species

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

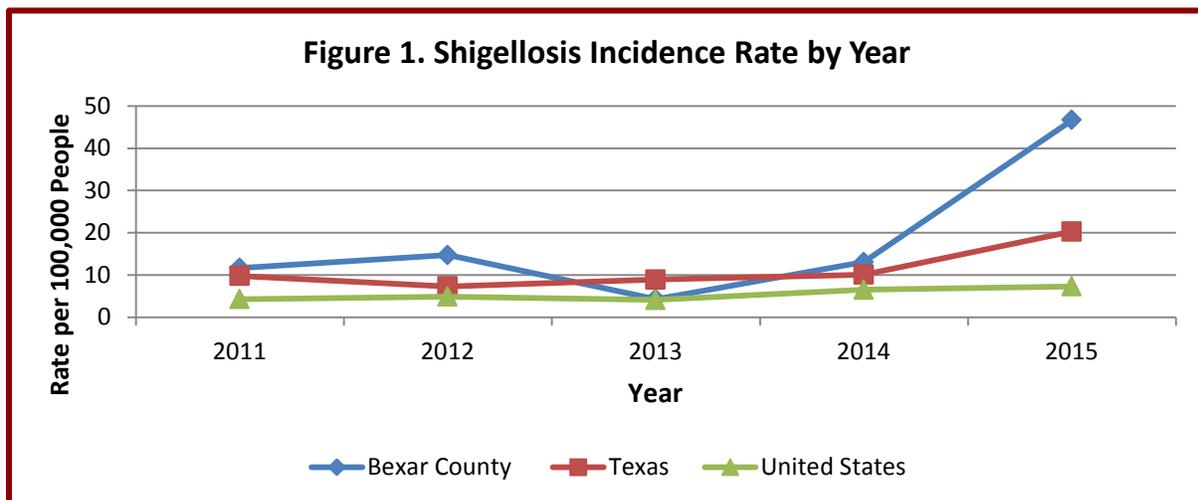
Mode(s) of Transmission: Direct fecal-oral route or ingestion of food or water contaminated with feces of an infected person.

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 2. Shigellosis Disease Summary, Bexar County, 2015

Number of cases	877	Incidence Rate	46.2
Gender	Number	Percent	Rate
Female	469	53%	48.7
Male	408	47%	43.7
Race/Ethnicity	Number	Percent	Rate
Hispanic	629	72%	55.7
Black, NH	42	5%	28.8
White, NH	90	10%	5.8
Other	<5	0.5%	-
Unknown	112	13%	-
Age Group	Number	Percent	Rate
0-14	658	75%	159.4
15-24	45	5%	15.9
25-44	127	14%	23.1
45-64	32	4%	7.4
65+	15	2%	6.9



Rates for Texas: Texas Department of State Health Services (DSHS) <http://www.dshs.texas.gov/IDCU/disease/shigellosis/Data/?terms=shigellosis%20rates>
 Rates for the United States: CDC Morbidity and Mortality Weekly (MMWR) 2011-2015 Summary of Notifiable Diseases

2. Salmonellosis

Causative Agent: (bacterial) *Salmonella* species

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

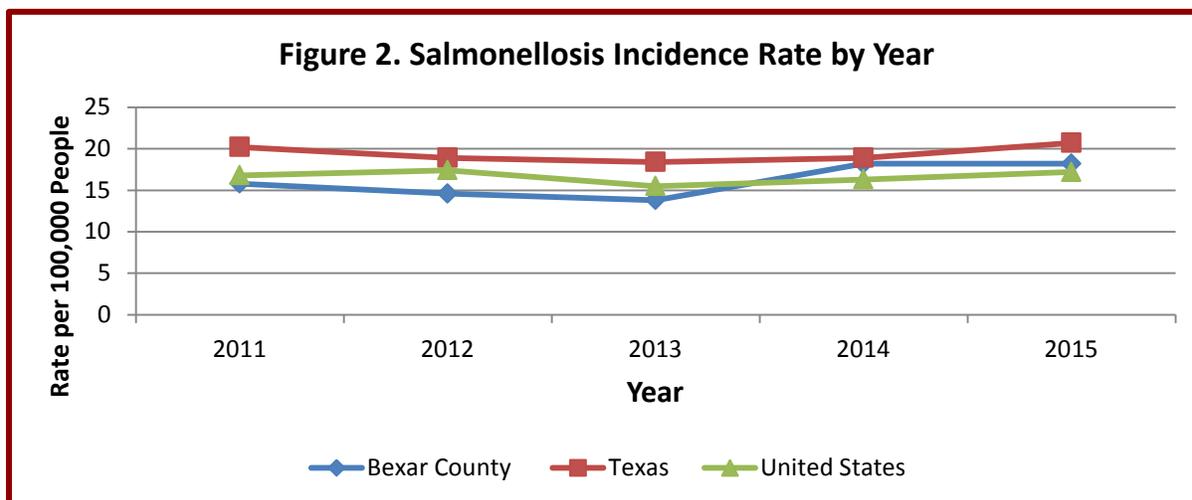
Mode(s) of Transmission: Ingestion of food from infected animals or contaminated feces of an infected animal or person

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 3. Salmonellosis Disease Summary, Bexar County, 2015

Number of cases	341	Incidence Rate	18.0
Gender	Number	Percent	Rate
Female	181	53%	18.8
Male	160	47%	17.1
Race/Ethnicity	Number	Percent	Rate
Hispanic	163	48%	14.4
Black, NH	14	4%	9.6
White, NH	82	24%	5.3
Other	81	24%	N/A
Unknown	<5	0.3%	N/A
Age Group	Number	Percent	Rate
0-14	149	44%	36.1
15-24	36	11%	12.7
25-44	62	18%	11.3
45-64	44	13%	10.2
65+	50	15%	22.9



Rates for Texas: Texas Department of State Health Services (DSHS)
<http://www.dshs.texas.gov/IDCU/disease/salmonellosis/Data/?terms=salmonellosis%20incidence%20rate>
 Rates for the United States: CDC Morbidity and Mortality Weekly (MMWR) 2011-2015 Summary of Notifiable Diseases

3. 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.

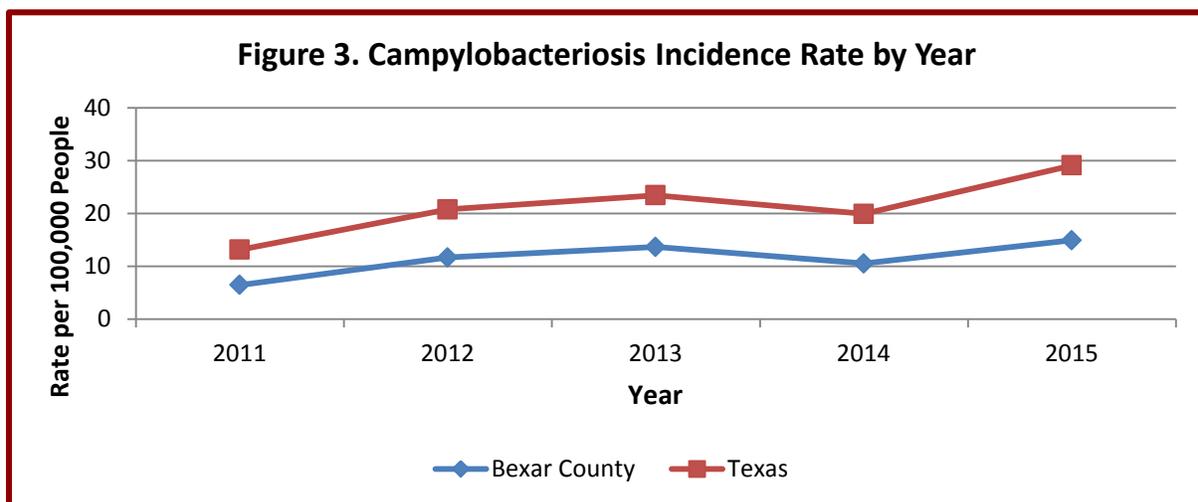
Mode(s) of Transmission: Ingestion of food from infected animals (typically poultry) or food or water contaminated by feces of an infected animal. Contact with an infected animal (especially puppies and kittens).

Incubation Period: Usually 1 to 10 days

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

Table 4. Campylobacteriosis Disease Summary, Bexar County, 2015

Number of Cases	272	Incidence Rate	14.3
Gender	Number	Percent	Rate
Female	134	49%	13.9
Male	138	51%	14.8
Race/Ethnicity	Number	Percent	Rate
Hispanic	139	51%	12.3
Black, NH	11	4%	7.5
White, NH	46	17%	3.0
Other	<5	1%	N/A
Unknown	72	26%	N/A
Age Group	Number	Percent	Rate
0-14	69	25%	16.7
15-24	43	16%	15.2
25-44	60	22%	10.9
45-64	51	19%	11.8
65+	49	18%	22.5



Rates for Texas: Texas Department of State Health Services (DSHS)
<http://www.dshs.texas.gov/idcu/disease/campylobacteriosis/data/?terms=campylobacteriosis%20incidence%20rate>
 National rates are not recorded as Campylobacteriosis is not a nationally notifiable condition

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.

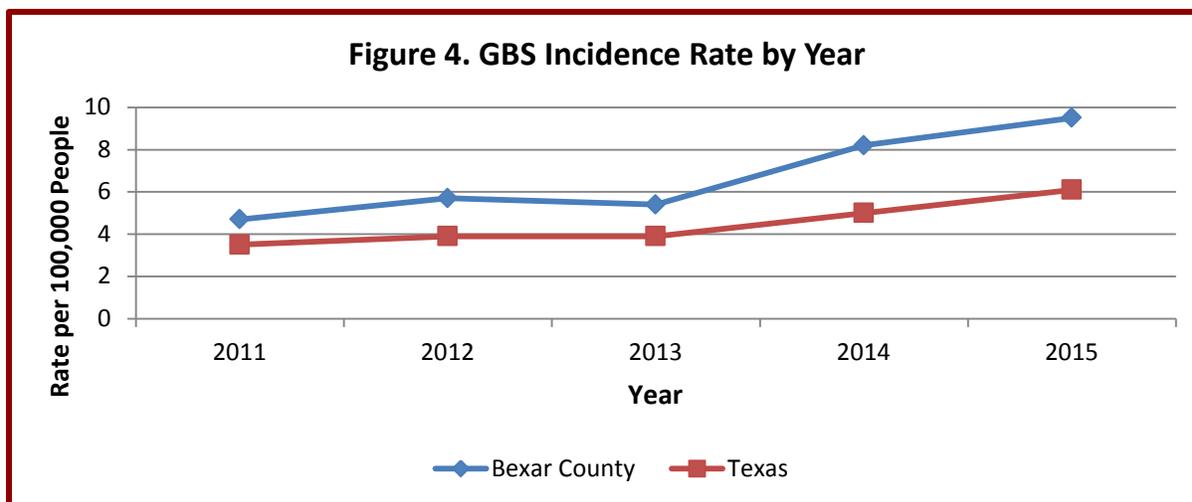
Modes(s) of Transmission: Pregnant women may pass along to babies during labor and birth. Mode of transmission amongst adults is unknown.

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, 2015

Number of Cases	179	Incidence Rate	9.4
Gender	Number	Percent	Rate
Female	62	35%	6.4
Male	117	65%	12.5
Race/Ethnicity	Number	Percent	Rate
Hispanic	103	58%	9.1
Black, NH	7	4%	4.8
White, NH	42	23%	2.7
Other	<5	1%	N/A
Unknown	26	15%	N/A
Age Group	Number	Percent	Rate
0-14	12	7%	2.9
15-24	<5	1%	N/A
25-44	34	19%	6.2
45-64	75	42%	17.3
65+	56	31%	25.7



Rates for Texas: Texas Department of State Health Services (DSHS) <http://www.dshs.texas.gov/IDCU/disease/strep/Group-B-Streptococci-Data.doc?terms=gb%20incidence%20rate>
 National rates are not recorded as Group B Streptococcal Disease is not a nationally notifiable condition

5. Streptococcus Pneumoniae, Invasive (IPD)

Causative Agent: (bacterial) *Streptococcus pneumoniae*

Signs/Symptoms: Diarrhea (bloody and accompanied by nausea and vomiting), abdominal pain, malaise, and fever. Complications may include reactive arthritis, Guillain-Barre Syndrome, and irritable bowel syndrome.

Mode(s) of Transmission: Contact with respiratory droplets of an infected person.

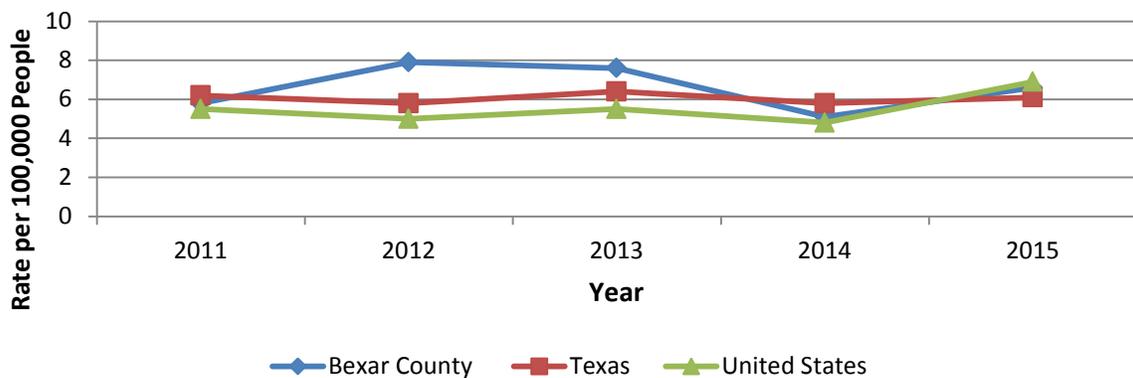
Incubation Period: Varies by type of infection and can be as short as 1 to 3 days

Period of Communicability: Unknown

Table 6. Streptococcus Pneumoniae, Invasive Disease Summary, Bexar County, 2015

Number of Cases	124	Incidence Rate	6.5
Gender	Number	Percent	Rate
Female	59	48%	6.1
Male	65	52%	7.0
Race/Ethnicity	Number	Percent	Rate
Hispanic	67	54%	5.9
Black, NH	14	11%	9.6
White, NH	22	18%	1.4
Other	<5	1%	N/A
Unknown	20	16%	N/A
Age Group	Number	Percent	Rate
0-14	16	13%	3.9
15-24	<5	2%	N/A
25-44	17	14%	3.1
45-64	44	35%	10.2
65+	45	36%	20.6

Figure 5. IPD Incidence Rate by Year



Rates for Texas: Texas Department of State Health Services (DSHS) <http://www.dshs.texas.gov/IDCU/disease/strep/Streptococcus-pneumoniae-Data.doc?terms=Streptococcus%20Pneumoniae%20rate>

Rates for the United States: CDC Morbidity and Mortality Weekly (MMWR) 2011-2015 Summary of Notifiable Diseases