Communicable Diseases Tarrant County 2017





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Communicable Diseases Tarrant County, 2017



Tarrant County Public Health

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Reportable Diseases in Tarrant County

Several Texas laws (Health & Safety Code, chapter 81, 84, and 87) require specific information regarding notifiable conditions to be provided to the local health department. Tarrant County Public Health is the designated health department for reporting notifiable conditions in the county. Health care providers, hospitals, laboratories, schools, and others are required to report patients who are suspected of having a notifiable condition (chapter 97, Title 25, Texas Administrative Code).

All notifiable conditions in Tarrant County, as well as Texas, for 2017 are listed in Table 1. In addition to these, any outbreak, exotic diseases, and unusual group expressions of disease must be reported. All diseases must be reported by *name*, *age*, *gender*, *race/ethnicity*, *date of birth*, *address*, *telephone number*, *disease*, *date of onset*, *method of diagnosis*, *and name*, *address*, *and telephone number of physician*.

Background Information for Statistical Summaries

The frequency and incidence rate of communicable diseases are presented overall, by gender, by race/ethnicity, by age group, and by ZIP code. Incidence rates are calculated as follows:

- Numerator 2017 incidence of disease in Tarrant County
- Denominator 2017 Tarrant County population at risk (2012-2016 five-year population estimates used for rates by ZIP code)
- Rate per 100,000 population

Incidence rate is an essential and valuable public health measure. However, rates based on numbers less than 20 cases are not recommended for reliable comparison because such rates fluctuate dramatically and differ considerably, even when differences are not meaningful. Therefore rates for less than 20 cases are not provided in this report. Also, conditions with less than five cases are not presented to protect confidentiality. Even when a specific demographic category has more than five cases, the number may be suppressed in order to prevent inadvertent disclosure through subtraction.

In this report cases are reported based on the disease event date, which is likely closest to the disease onset date. This date differs from the date used, report date, in Tarrant County Public Health's Monthly Morbidity Report.

Notifiable Conditions

Table 1. Notifiable conditions, Tarrant County, 2017

A – H	Cases	I – Y	Cases
Acquired immune deficiency syndrome (AIDS)	42	Influenza, Novel	0
Amebiasis	6	Legionellosis	39
Amebic meningitis and encephalitis	О	Leishmaniasis	0
Anaplasmosis	<5	Listeriosis	<5
Anthrax	0	Lyme disease	7
Arbovirus infection		Malaria	20
Chikungunya virus	<5	Measles (rubeola)	0
West Nile Virus (fever/neuroinvasive)	9/11	Meningococcal infections, invasive (Neisseria meningitidis)	0
Zika virus*	<5	Multidrug-resistant <i>Acinetobacter</i> (MDR-A) [∓]	9 5
Other arbovirus*	<5	Mumps	40
Ascariasis	0	Paragonimiasis	0
Babesiosis	0	Pertussis	496
Botulism (adult and infant)	0	Plague (Yersinia pestis)	0
Brucellosis	<5	Poliomyelitis, acute paralytic	0
Campylobacteriosis	336	Poliovirus infection, non-paralytic	0
Carbapenem resistant <i>Enterobacteriaceae</i> (CRE) [†]	30	Prion disease such as Creutzfeldt-Jakob disease (CJD)	<5
Chagas disease	0	Q fever	0
Chancroid	О	Rabies, human	0
Chickenpox (varicella)	118	Rubella (including congenital)	0
Chlamydia trachomatis infection	8,025	Salmonellosis, including typhoid fever	410
Coronavirus, novel	0	Shiga toxin-producing <i>Escherichia coli</i>	86
Cryptosporidiosis	83	Shigellosis	89
Cyclosporiasis	19	Smallpox	0
Cysticercosis	0	Spotted fever group rickettsioses	6
Diphtheria	0	Staphylococcus aureus, VISA and VRSA ^T	0
Echinococcosis	0	Streptococcal disease	
Ehrlichiosis	<5	Group A Streptococcus	68
Fascioliasis	О	Group B Streptococcus	147
Gonorrhea	2,718	Streptococcus Pneumoniae	156
Haemophilus influenzae, invasive	38	Syphilis – primary and secondary stages	197
Hansen's disease (leprosy)	0	Syphilis – all other stages	310
Hantavirus infection	O	Taenia solium and undifferentiated Taenia infection	0
Hemolytic uremic syndrome (HUS)	<5	Tetanus	0
Hepatitis A	8	Trichinosis	0
Hepatitis B (acute)	12	Trichuriasis	0
Hepatitis B, perinatal	О	Tuberculosis	83
Hepatitis B, prenatal or at delivery	О	Tularemia	0
Hepatitis C (acute)	<5	Typhoid fever (salmonella typhi)	0
Hepatitis E (acute)	O	Typhus	26
Hookworm (ancylostomiasis)	0	Vibrio infection, including cholera	11
Human immunodeficiency virus (HIV),	10	Viral hemorrhagic fever, including Ebola	0
acute infection	.0	Viral hemorrhagic level, including Ebola	U
Human immunodeficiency virus (HIV)	265	Yellow fever	0
Influenza-associated pediatric mortality	0	Yersiniosis	<5
		BLUE indicates reportable within one working day; able within one week	
Note: This table represents communicable conditions tha			
confidentiality			
		ude neuroinvasive and non-neuroinvasive California serogro Louis Encaphalitis, and Western Equine (WEE)	oup
including Cache Valley, Eastern Equine (EEE), Dengue, Po			
[‡] 2017 MDRO data is provisional at the time of this report			
Data source: Tarrant County Public Health: Texas Nation	ai Electronic	Disease our vernance system (NEDSS)	

Communicable Diseases in Tarrant County

Table 2. Leading communicable diseases overall and by gender, Tarrant County, 2017

Rank	Overall	Female	Male
	n (rate)	n (rate)	n (rate)
1	Chlamydia	Chlamydia	Chlamydia
	8,025 (396.5)	5,671 (551.3)	2,354 (236.5)
2	Gonorrhea	Gonorrhea	Gonorrhea
	2,718 (134.3)	1,339 (130.2)	1,379 (138.6)
3	Syphilis	Pertussis	Syphilis
	503 (24.9)	275 (26.7)	441 (44.3)
4	Pertussis	Salmonellosis	Pertussis
	496 (24.5)	196 (19.1)	221 (22.2)
5	Salmonella	Campylobacteriosis	HIV
	410 (20.3)	155 (15.1)	220 (22.1)
6	Campylobacteriosis	S. pneumoniae, inv	Salmonella
	336 (16.6)	83 (8.1)	212 (21.3)
7	HIV	Group B Strep	Campylobacteriosis
	275 (13.6)	65 (6.3)	181 (18.2)
8	S. pneumoniae, inv	Syphilis	Group B Strep
	156 (7.7)	59 (5.7)	82 (8.2)
9	Group B Strep	HIV	S. pneumoniae, inv
	147 (7.3)	55 (5.3)	73 (7.3)
10	Varicella (Chickenpox)	Varicella (Chickenpox)	Varicella (Chickenpox)
	118 (5.8)	54 (5.2)	64 (6.4)

n = number of cases; rate per 100,000 population

Table 3. Leading communicable diseases by race/ethnicity, Tarrant County, 2017[†]

Rank	Hispanic n (rate)	Non-Hispanic Black n (rate)	Non-Hispanic White n (rate)	Other/Multiracial n (rate)
1	Chlamydia	Chlamydia	Chlamydia	Chlamydia
	952 (151.3)	1,920 (614.6)	1,178 (128.6)	285 (171.0)
2	Gonorrhea	Gonorrhea	Gonorrhea	Gonorrhea
	267 (42.4)	1,042 (333.6)	449 (49.0)	80 (48.0)
3	Pertussis	Syphilis	Pertussis	Tuberculosis
	183 (29.1)	223 (71.4)	219 (23.9)	23 (13.8)
4	Campylobacteriosis	HIV	Salmonellosis	Pertussis
	144 (22.9)	144 (46.1)	192 (21.0)	19 (@)
5	Salmonellosis	Pertussis	Syphilis	Syphilis
	140 (22.3)	57 (18.2)	130 (14.2)	15 (@)
6	Syphilis	Salmonellosis	Campylobacteriosis	Salmonella/Varicella
	132 (21.0)	38 (12.2)	125 (13.6)	12 (@)
7	HIV 51 (8.1)	,		Campylobacteriosis 10 (@)
8	<i>E. coli,</i> STEC	Campylobacteriosis	S. pneumoniae, inv	Mumps
	46 (7.3)	33 (10.6)	88 (9.6)	6 (@)
9	Tuberculosis	Shigellosis	HIV	Shigella
	29 (4.6)	27 (8.6)	71 (7.8)	5 (@)
10	Shigellosis 25 (4.0)	Tuberculosis 21 (6.7)	Cryptosporidiosis 54 (5.9)	

n = number of cases; rate per 100,000 population; @ = rate unstable for less than 20 cases

Selected case counts not reported to protect confidentiality and prevent inadvertent disclosure

[†]Rankings for race/ethnicity should be interpreted with caution due to missing data: Race/ethnicity data are missing for 46% of chlamydia cases, 32% of gonorrhea cases, 30% of varicella cases, and 17% of MDRA cases

Table 4. Leading communicable diseases by age group, Tarrant County, 2017

Rank	0 to 14	15 to 24	25 to 44	45 to 64	65+	
- Turk	n (rate)	n (rate)	n (rate)	n (rate)	n (rate)	
1	Pertussis	Chlamydia	Chlamydia	Chlamydia	Group B Strep	
	341 (77.1)	5,152 (1,715.4)	2,640 (459.5)	183 (36.9)	65 (30.7)	
2	Salmonellosis	Gonorrhea	Gonorrhea	Gonorrhea	S. pneumoniae, inv	
	199 (45.0)	1,468 (488.8)	1,099 (191.3)	135 (27.2)	57 (26.9)	
3	Campylobacteriosis	Syphilis	Syphilis	Syphilis	Campylobacteriosis	
	111 (25.1)	121 (40.3)	286 (49.8)	92 (18.6)	53 (25.0)	
4	Varicella (Chickenpox)	Pertussis	HIV	Salmonellosis	Salmonellosis	
	90 (20.4)	92 (30.6)	148 (25.8)	84 (17.0)	46 (21.7)	
5	<i>E. coli,</i> STEC	HIV	Campylobacteriosis	Campylobacteriosis	MDR-Acinetobacter [‡]	
	57 (12.9)	64 (21.3)	68 (11.8)	67 (13.5)	44 (20.8)	
6	Shigella/Chlamydia	Campylobacteriosis	Salmonellosis	HIV	H. Influenza	
	()	37 (12.3)	51 (8.9)	60 (12.1)	25 (11.8)	
7	Cryptosporidiosis	Salmonellosis	Pertussis	S. pneumoniae, inv	Group A Strep	
	30 (6.8)	30 (10.0)	36 (6.3)	54 (10.9)	22 (10.4)	
8	S. pneumoniae, inv	Mumps	Tuberculosis	Group B Strep	Tuberculosis	
	21 (4.7)	22 (7.3)	26 (4.5)	48 (9.7)	16 (@)	
9	Group B Strep	Shigellosis	AIDS	MDR-Acinetobacter [‡]	Legionelliosis	
	()	11 (@)	23 (4.0)	35 (7.1)	13 (@)	
10	Gonorrhea	Varicella (Chickenpox)	S. pneumoniae, inv	Group A Strep/TB	CR-Enterobacteriaceae	
	11 (@)	9 (@)	(3.5)	30 (6.1)	11 (@)	

n= number of cases; rate per 100,000 population; @ = rate unstable for less than 20 cases

Selected case counts not reported to protect confidentiality and prevent inadvertent disclosure

E. coli STEC - Shiga toxin-producing Escherichia coli; MDR = Multidrug-Resistant; CR = Carbapenum-Resistant;

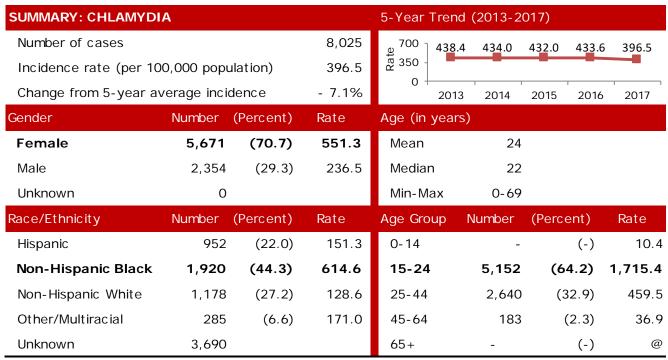
Disease Specific Information and Definitions

Following are disease specific information, statistical summary tables, and ZIP code maps for the 10 leading communicable diseases overall for Tarrant County in 2017. 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

1. Chlamydia

- Causative Agent: (bacterial) Chlamydia trachomatis
- **Signs/Symptoms:** Men discharge, urethral itching, burning urination; 1-25% of infected men do not exhibit symptoms. Women discharge with swelling; up to 70% of infected women do not exhibit symptoms. Infants born to infected women may develop eye or pneumonic infections. Complications for both men and women include infertility and for women, increased risk of HIV infection.
- Mode(s) of Transmission: Perinatally or sexually transmitted infection
- Incubation Period: 7-14 days or longer
- Period of Communicability: Infected individuals are assumed to be infectious



Select cases not reported to protect confidentiality and prevent inadvertent disclosure; @ = rate unstable for less than 20 cases

Bold = highest incidence rate in each demographic category

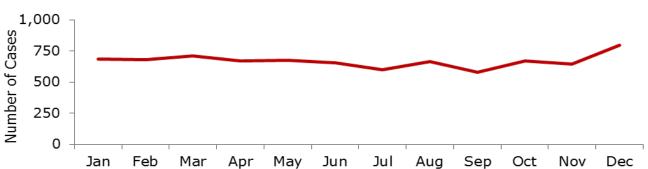


Figure 1. Chlamydia cases by month, Tarrant County, 2017

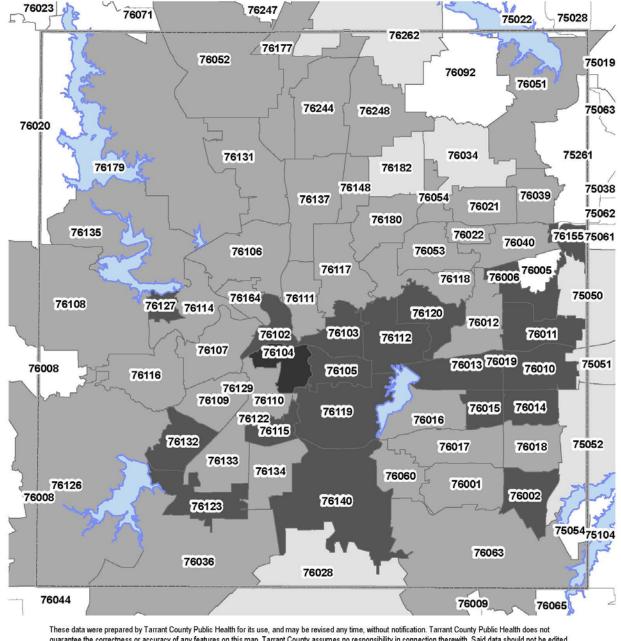


Figure 2. Geographic distribution of Chlamydia by ZIP code, Tarrant County, 2017

These data were prepared by Tarrant County Public Health for its use, and may be revised any time, without notification. Tarrant County Public Health does not guarantee the correctness or accuracy of any features on this map. Tarrant County assumes no responsibility in connection therewith. Said data should not be edited by anyone other than designated personnel, or through written approval by GIS Manager. These data are for informational purposes only and should not create liability on the part of Tarrant County Government, any officer and/or employees thereof.



2. Gonorrhea

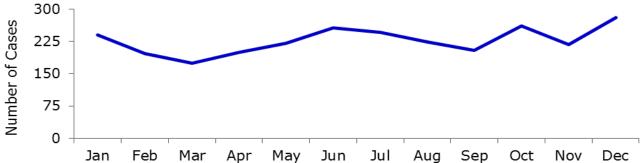
- Causative Agent: (bacterial) Neisseria gonorrhoeae
- **Signs/Symptoms:** Men discharge, urethral itching, burning urination; very few of infected men do not exhibit symptoms. Women discharge and vaginal bleeding after intercourse; most women do not exhibit symptoms. Infants born to infected women may develop eye infections.
- Mode(s) of Transmission: Perinatally or sexually transmitted infection
- Incubation Period: 1-14 days or longer
- Period of Communicability: Infected individuals are assumed to be infectious

SUMMARY: GONORRHEA				5-Year Trend (2013-2017)			
Number of cases	Number of cases			# 200 기 111	1 133.5	141.0 147.:	l 134.3
Incidence rate (per 10	00,000 po	oulation)	134.3	[™] 100 -			
Change from 5-year a	verage ind	cidence	+ 0.7%	201	3 2014	2015 2016	2017
Gender	Number	(Percent)	Rate	Age (in year	rs)		
Female	1,339	(49.3)	130.2	Mean	26		
Male	1,379	(50.7)	138.6	Median	24		
Unknown	0			Min-Max	0-73		
Race/Ethnicity	Number	(Percent)	Rate	Age Group	Number	(Percent)	Rate
Hispanic	267	(14.5)	42.4	0-14	11	(0.4)	@
Non-Hispanic Black	1,042	(56.7)	333.6	15-24	1,468	(54.0)	488.8
Non-Hispanic White	449	(24.4)	49.0	25-44	1,099	(40.4)	191.3
Other/Multiracial	80	(4.4)	48.0	45-64	135	(5.0)	27.2
Unknown	880			65+	5	(0.2)	@

^{@ =} rate unstable for less than 20 cases

Bold = highest incidence rate in each demographic category

Figure 3. Gonorrhea cases by month, Tarrant County, 2017



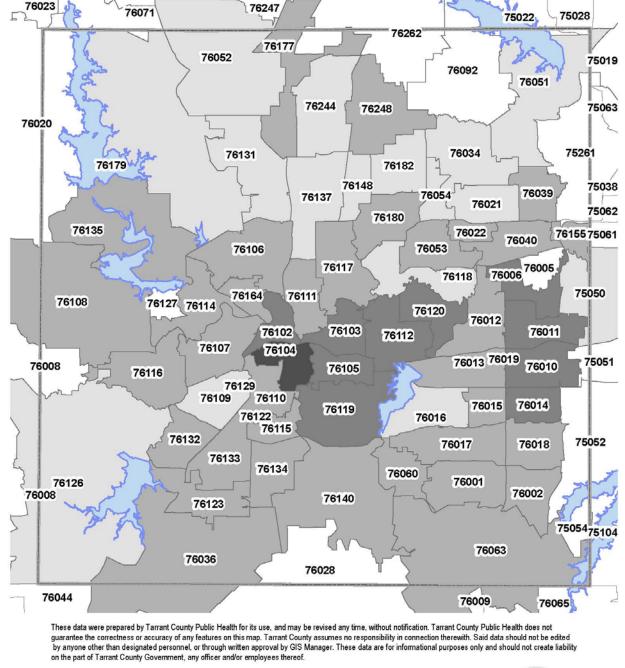
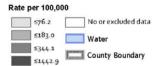


Figure 4. Geographic distribution of Gonorrhea by ZIP code, Tarrant County, 2017



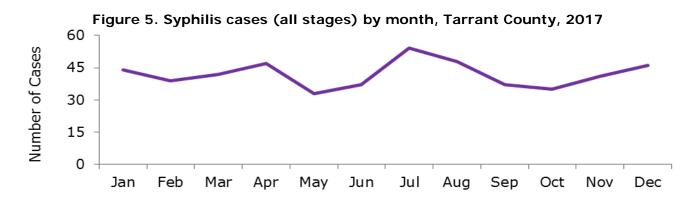
3. Syphilis

- Causative Agent: (bacterial) Treponema pallidum
- **Signs/Symptoms:** Primary lesion which may or may not be visible appearing approximately 3 weeks after infection (primary syphilis) followed by a secondary disease phase lasting 2 weeks to 12 months characterized by a rash on the palms of the hands and soles of the feet (secondary syphilis). Untreated individuals will proceed to a tertiary phase (late syphilis) which may involve reoccurring lesions, central nervous system disease, and meningitis. Infants born to infected women (congenital syphilis) may die due to preterm birth and/ or low birthweight.
- Mode(s) of Transmission: Perinatally, sexually, or blood transmitted infection
- Incubation Period: 10 days to 3 months, usually 3 weeks
- Period of Communicability: Period involving lesions, typically within the first year of infection

SUMMARY: SYPHILIS (ALL STAGES)				5-Year Trend (2013-2017)			
Number of cases			507	⊕ 30 + 21.0	19.7	23.4 25.2	25
Incidence rate (per 1	00,000 popi	ulation)	25.0	2 15 -	15.7		
Change from 5-year a	verage inci	dence	+ 9.4%	0 2013	2014	2015 2016	2017
Gender	Number ((Percent)	Rate	Age (in year	rs)		
Female	59	(11.7)	5.7	Mean	33		
Male	441	(87.7)	44.3	Median	30		
Unknown	4			Min-Max	0-76		
Race/Ethnicity	Number ((Percent)	Rate	Age Group	Number	(Percent)	Rate
Hispanic	132	(26.4)	21.0	0-14	-	(-)	@
Non-Hispanic Black	223	(44.6)	71.4	15-24	121	(23.9)	40.3
Non-Hispanic White	130	(26.0)	14.2	25-44	286	(56.4)	49.8
Other/Multiracial	15	(3.0)	@	45-64	92	(18.1)	18.6
Unknown	7			65+		(-)	@

Select cases not reported to protect confidentiality and prevent inadvertent disclosure; @ = rate unstable for less than 20 cases

Bold = highest incidence rate in each demographic category



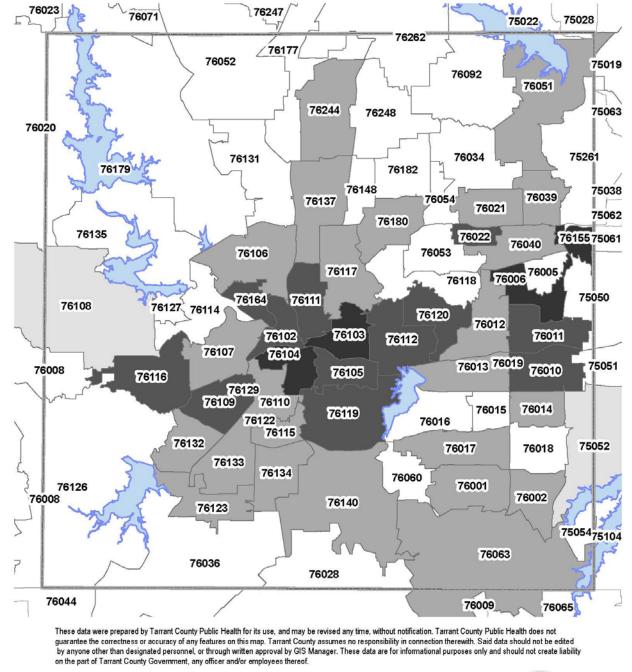


Figure 6. Geographic distribution of Early Syphilis by ZIP code, Tarrant County, 2017





4. Pertussis (Whooping Cough)

- Causative Agent: (bacterial) Bordetella pertussis
- **Signs/Symptoms:** Early symptoms are cold-like and include runny nose, low-grade fever, with an occasional mild cough. After 1 to 2 weeks, severe coughing can begin and continue for weeks. Coughing can be violent and rapid until the air is gone from the lungs and the person is forced to inhale with a loud "whooping" sound.
- **Mode(s) of Transmission:** Direct contact with discharges from respiratory mucous membranes of infected persons by the airborne route, usually via droplets.
- Incubation Period: 6-20 days, average 9-10 days
- **Period of Communicability:** Highly communicable during the early phase of illness (first 2 weeks); Communicability decreases in about 3 weeks, despite persisting cough.

SUMMARY: PERTUSSIS (WHOOPING COUGH)				5-Year Tren	nd (2013-20	017)	
Number of cases			496	ی ⁵⁰]	24.2	15.7 16.9	24.5
Incidence rate (per 1	00,000 pop	oulation)	24.5	25 ag 25 36.9		15.7	
Change from 5-year	average inc	idence	+ 3.6%	0 2013	3 2014	2015 2016	2017
Gender	Number	(Percent)	Rate	Age (in year	rs)		
Female	275	(55.4)	26.7	Mean	13		
Male	221	(44.6)	22.2	Median	10		
Unknown	0			Min-Max	0-81		
Race/Ethnicity	Number	(Percent)	Rate	Age Group	Number	(Percent)	Rate
Hispanic	183	(38.3)	29.1	0-14	341	(68.8)	77.1
Non-Hispanic Black	57	(11.9)	18.2	15-24	92	(18.5)	30.6
Non-Hispanic White	219	(45.8)	23.9	25-44	36	(7.3)	6.3
Other/Multiracial	19	(4.0)	@	45-64	21	(4.2)	4.2
Unknown	18			65+	6	(1.2)	@

^{@ =} rate unstable for less than 20 cases

Bold = highest incidence rate in each demographic category



Figure 7. Pertussis cases by month, Tarrant County, 2017

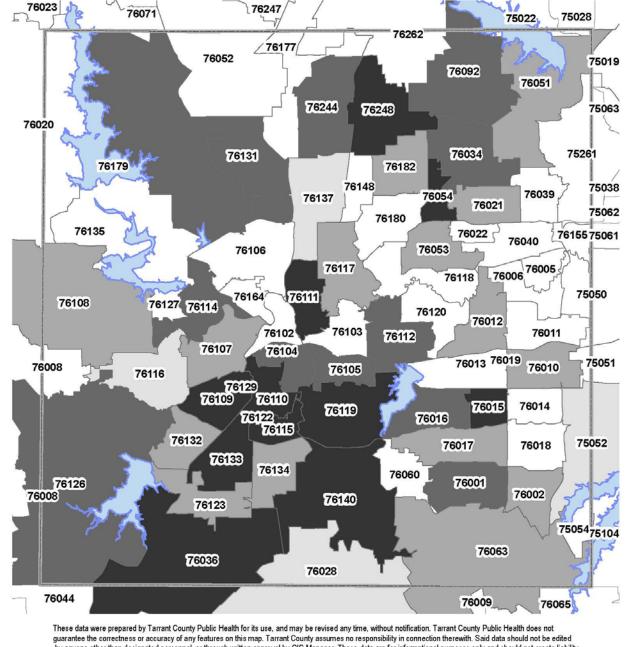


Figure 8. Geographic distribution of Pertussis by ZIP code, Tarrant County, 2017

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5. Salmonellosis

- Causative Agent: (bacterial) Salmonella species
- **Signs/Symptoms:** Fever, headache, abdominal pain, diarrhea, possibly vomiting. Some people do not present with any symptoms.
- Mode(s) of Transmission: Ingestion of the bacteria in food derived from infected animals or contaminated by feces of an infected animal or person.
- Incubation Period: 6 hours to 5 days, usually 1-2 days
- **Period of Communicability:** While signs/symptoms are present; those infected may carry and transmit the bacteria for weeks up to a year after becoming infected.

SUMMARY: SALMONELLOSIS				5-Year Trend (2013-2017)			
Number of cases			410	ღ ³⁰] 18.0	1 <mark>8.</mark> 2	2 <mark>0.</mark> 6 16.9	20.3
Incidence rate (per	100,000 pop	ulation)	20.3	15 - 18 de			
Change from 5-year	average inc	idence	+ 8.0%	0 + 2013	2014	2015 2016	2017
Gender	Number	(Percent)	Rate	Age (in year	rs)		
Female	196	(48.0)	19.1	Mean	27		
Male	212	(52.0)	21.3	Median	18		
Unknown	2			Min-Max	0-88		
Race/Ethnicity	Number	(Percent)	Rate	Age Group	Number	(Percent)	Rate
Hispanic	140	(36.6)	22.3	0-14	199	(48.5)	45.0
Non-Hispanic Black	38	(9.9)	12.2	15-24	30	(7.3)	10.0
Non-Hispanic White	192	(50.3)	21.0	25-44	51	(12.4)	8.9
Other/Multiracial	12	(3.1)	@	45-64	84	(20.5)	17.0
Unknown	28			65+	46	(11.2)	21.7

^{@ =} rate unstable for less than 20 cases

Bold = highest incidence rate in each demographic category



Figure 9. Salmonellosis cases by month, Tarrant County, 2017

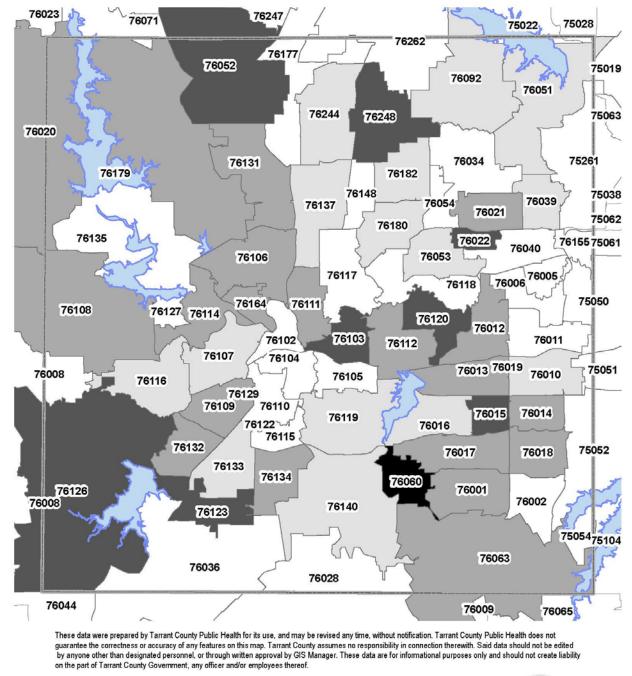


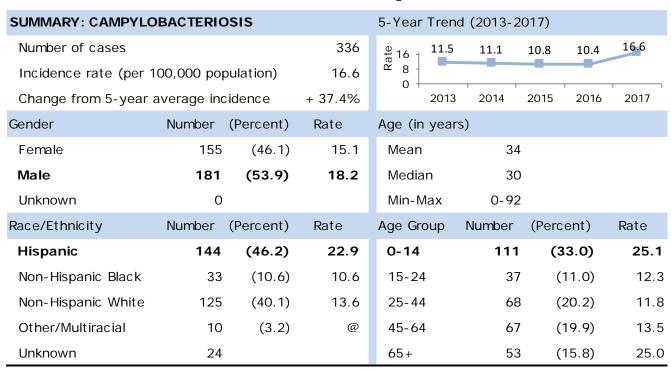
Figure 10. Geographic distribution of Salmonellosis by ZIP code, Tarrant County, 2017





6. Campylobacteriosis

- Causative Agent: (bacterial) Campylobacter species
- **Signs/Symptoms**: Diarrhea (frequently bloody), fever, abdominal pain, vomiting. Many people do not present with any symptoms.
- Mode(s) of Transmission: Ingestion of the bacteria in food derived from infected animals (typically poultry) or food or water contaminated by feces of an infected animal. Contact with infected animals, especially puppies and kittens.
- Incubation Period: 1-10 days, usually 2-5 days
- **Period of Communicability:** While signs/symptoms are present; those infected may carry and transmit the bacteria for 2-7 weeks after becoming infected.



^{@ =} rate unstable for less than 20 cases

Bold = highest incidence rate in each demographic category



Figure 11. Campylobacteriosis cases by month, Tarrant County, 2017

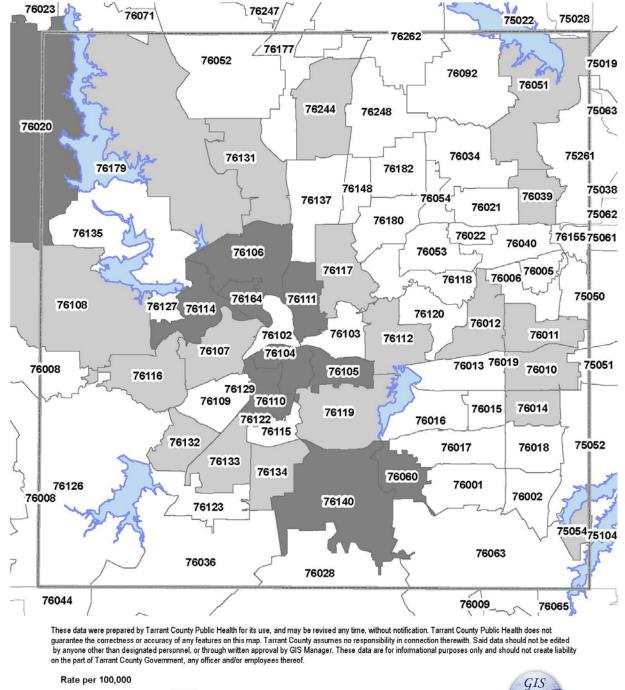
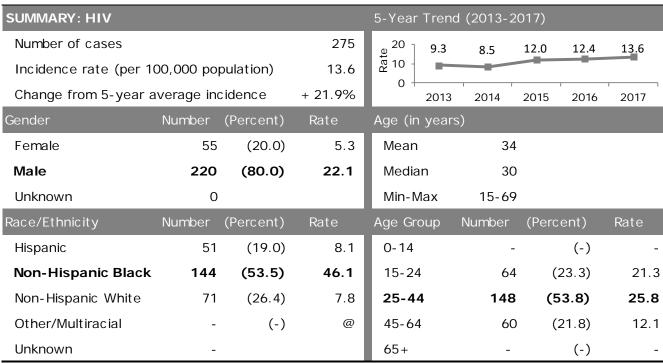


Figure 12. Geographic distribution of Campylobacteriosis by ZIP code, Tarrant County, 2017



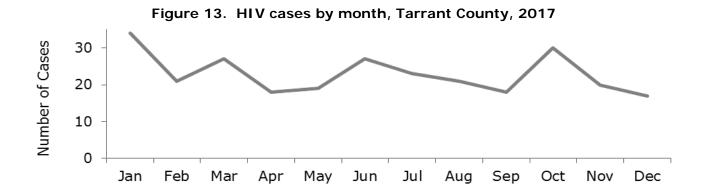
7. Human Immunodeficiency Virus (HIV)

- Causative Agent: (viral) Human Immunodeficiency Virus (HIV)
- **Signs/Symptoms:** Several weeks after infection flu-like symptoms of chills, body aches, and fatigue and possibly fever lasting 1-2 weeks. Symptoms may not appear again for possibly years and may involve infections and cancers resulting from HIV induced immune deficiencies. HIV infection will result in AIDS in over 90% of individuals.
- Mode(s) of Transmission: Perinatally, sexually or blood transmitted infection; breastfeeding may also transmit the infection
- Incubation Period: Variable
- **Period of Communicability:** Begins early after infection; risk of transmission most likely highest within the first few months after infection



Select case counts not reported to protect confidentiality and prevent inadvertent disclosure; @ = rate unstable for less than 20 cases

Bold = highest incidence rate in each demographic category



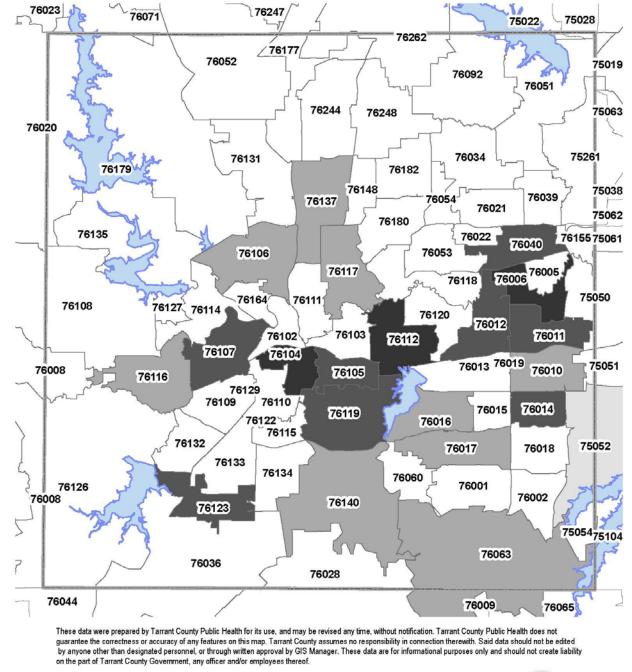


Figure 14. Geographic distribution of HIV by ZIP code, Tarrant County, 2017



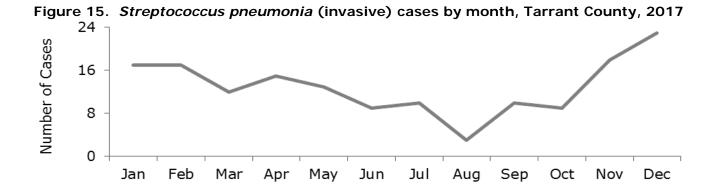
8. Streptococcus pneumoniae (invasive)

- Causative Agent: (bacterial) Streptococcus pneumoniae
- **Signs/Symptoms:** Bacterial infection of the blood, cerebral spinal fluid, or other normally sterile body fluid which may have originated from an infection ranging from a mild ear infection to severe pneumonia. Many people carry these bacteria in their nose and throat, not presenting with signs or symptoms.
- Mode(s) of Transmission: Contact with respiratory droplets of infected individuals
- Incubation Period: 1-3 days
- Period of Communicability: 10-21 days

SUMMARY: STREP PNEUMO (INVASIVE)				5-Year Tren	nd (2013-2	017)	
Number of cases			156	ღ ¹²] 8.6	8.4	6.2 7.8	7.7
Incidence rate (per 1	00,000 pop	oulation)	7.7	8ate 6 8.6			_
Change from 5-year a	average inc	idence	- 0.5%	0 +2013	3 2014	2015 2016	2017
Gender	Number	(Percent)	Rate	Age (in year	rs)		
Female	83	(53.2)	8.1	Mean	54		
Male	73	(46.8)	7.3	Median	59		
Unknown	0			Min-Max	0-100		
Race/Ethnicity	Number	(Percent)	Rate	Age Group	Number	(Percent)	Rate
Hispanic	16	(11.2)	@	0-14	21	(13.5)	4.7
Non-Hispanic Black	37	(25.9)	11.8	15-24	-	(-)	-
Non-Hispanic White	88	(61.5)	9.6	25-44	-	(-)	3.5
Other/Multiracial	-	(-)	-	45-64	54	(34.6)	10.9
Unknown	-			65+	57	(36.5)	26.9

Select case counts not reported to protect confidentiality and prevent inadvertent disclosure

Bold = highest incidence rate in each demographic category



^{@ =} rate unstable for less than 20 cases

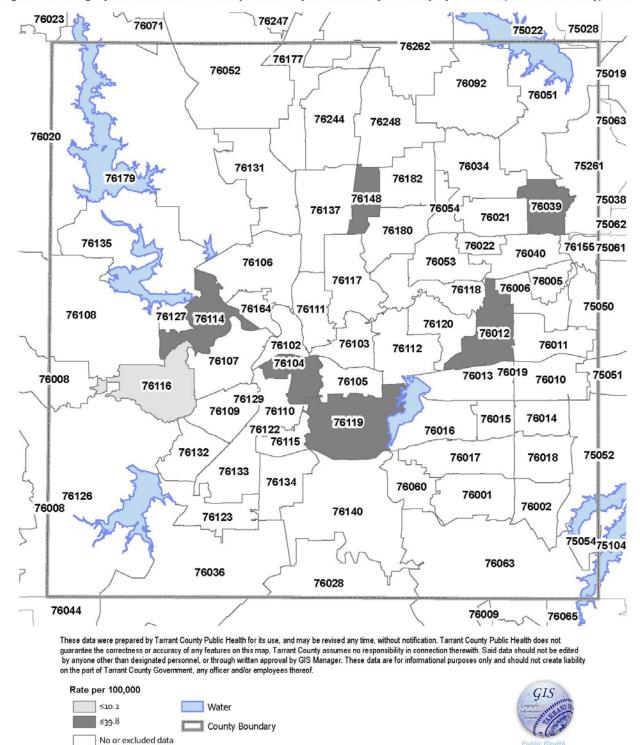
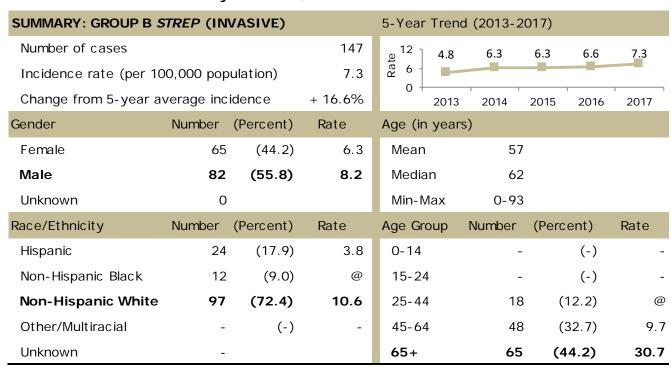


Figure 16. Geographic distribution of Streptococcus pneumoniae (invasive) by ZIP code, Tarrant County, 2017

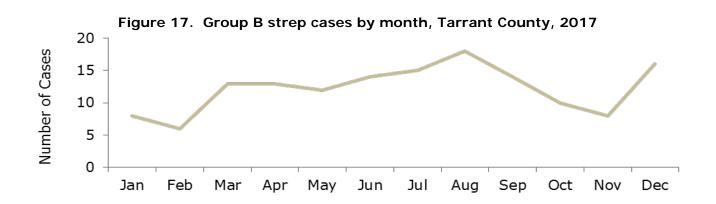
9. Group B Streptococcus (invasive)

- Causative Agent: (bacterial) Streptococcus agalactiae or group B Streptococcus
- **Signs/Symptoms:** Among newborns symptoms include fever, difficulty feeding, irritability, lethargy, difficulty breathing, blueish color to skin; Among adults, symptoms vary depending on the part of the body infected (blood, lung, skin/soft tissue, bone/joint).
- Mode(s) of Transmission: From mother to baby during labor and birth; Mode of transmission between adults is unknown (group B strep bacteria are common in the gastrointestinal tract)
- Incubation Period: Less than 7 days for neonates; Unknown for infants, children, and adults
- Period of Communicability: Unknown; An estimated 10-30% of women are carriers



Select cases not reported to protect confidentiality and prevent inadvertent disclosure

Bold = highest incidence rate in each demographic category



^{@ =} rate unstable for less than 20 cases

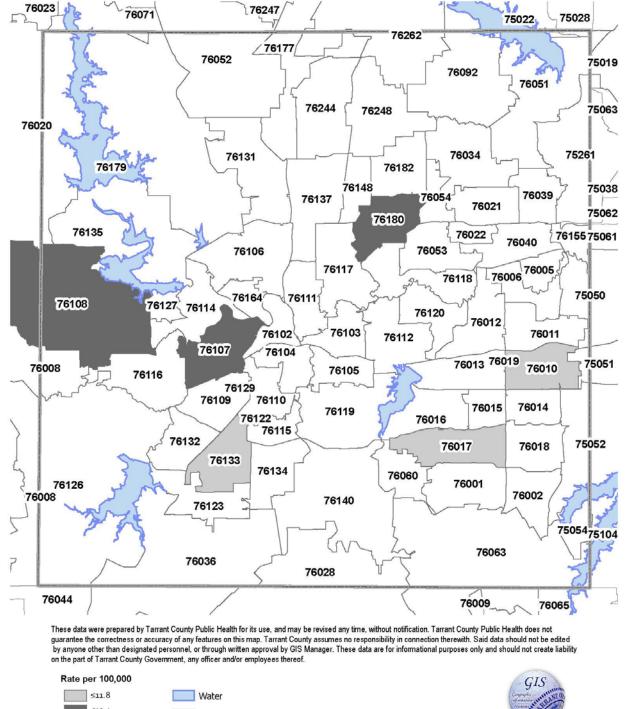


Figure 18. Geographic distribution of Group B Strep (invasive) by ZIP code, Tarrant County, 2017



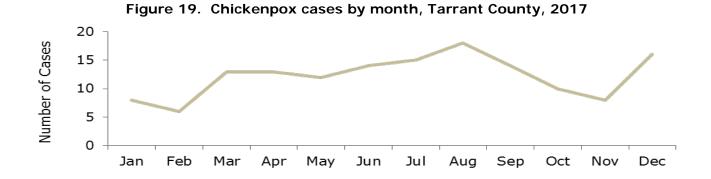
10. Chickenpox (Varicella)

- Causative Agent: (viral) Varicella-zoster virus
- **Signs/Symptoms:** In unvaccinated individuals, fever and rash initially presenting as red bumps progressing to blister-type lesions which may last 3-4 days before drying. Rash and lesions are typically found in differing stages of development and usually in covered areas of the body; over 200 lesions may be present. In vaccinated individuals exhibiting breakthrough infections, less than 50 non-blister like bumps may appear typically without fever.
- Mode(s) of Transmission: Direct contact, droplet, or air borne contact of lesion fluid or respiratory secretions of infected individuals.
- Incubation Period: 10-21 days; commonly 14-16 days
- **Period of Communicability:** Up to 5 days, typically 1-2 days before rash onset and continuing until lesions are dry which is typically 5 days.



Select cases not reported to protect confidentiality and prevent inadvertent disclosure

Bold = highest incidence rate in each demographic category



^{@ =} rate unstable for less than 20 cases

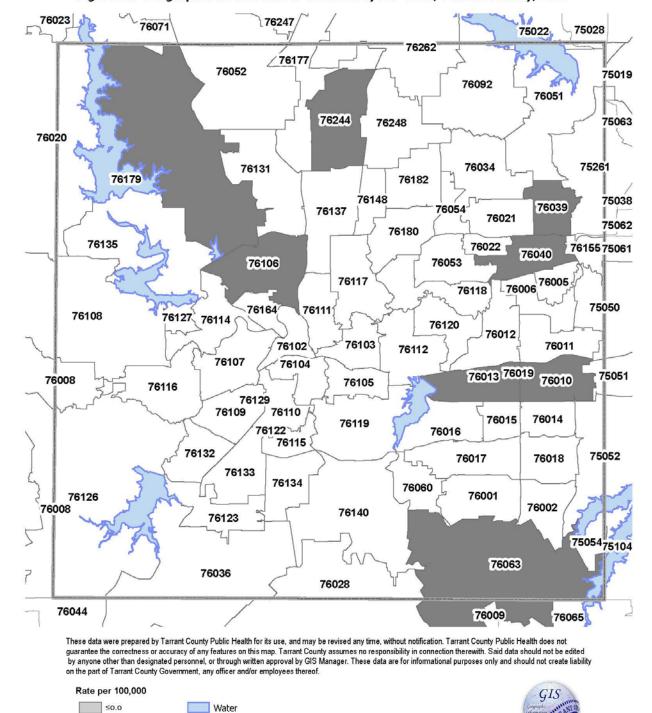


Figure 20. Geographic distribution of Varicella by ZIP code, Tarrant County, 2017

≤18.9

No or excluded data

County Boundary

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Tarrant County Public Health

Accountability. Quality. Innovation.













