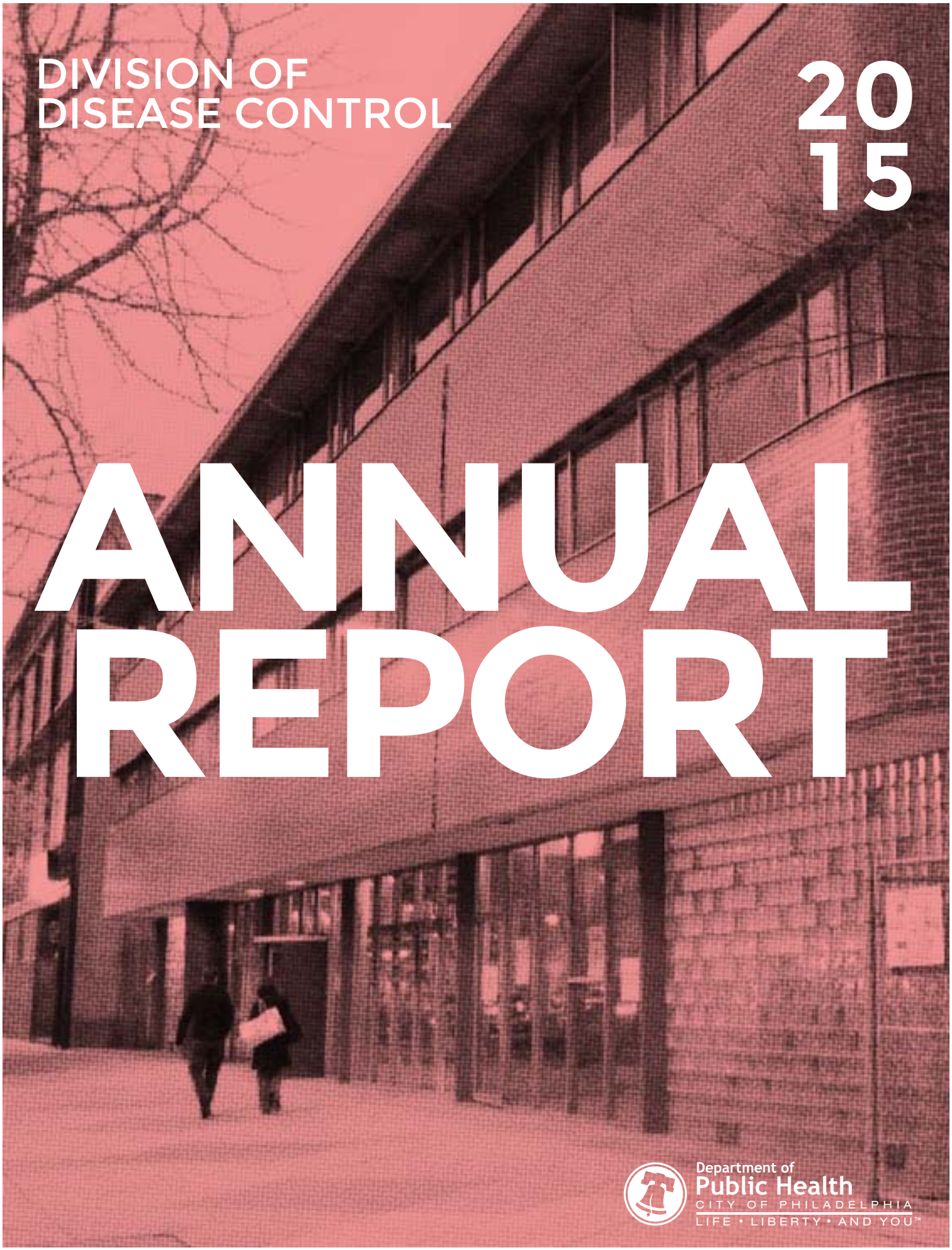
DIVISION OF
DISEASE CONTROL

2015

ANNUAL REPORT



Department of
Public Health
CITY OF PHILADELPHIA
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1 OVERVIEW

DISEASE REPORTING TRENDS
REGIONAL OVERVIEW

DISEASE REPORTING TRENDS

Reports of Communicable Diseases Per Year: Philadelphia, 2006-2015

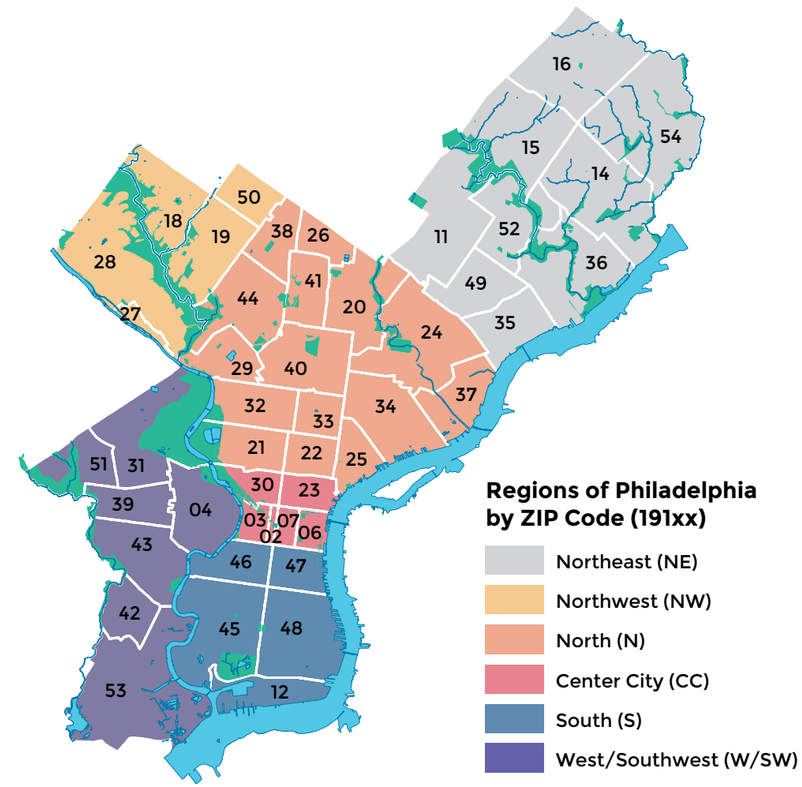
	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015
Amebiasis	4	19	14	13	4	9	11	13	15	8
Animal Bites/Exposures	1457	1499	1641	1768	1624	1513	1598	1586	1644	1718
Anthrax	0	0	0	0	0	0	0	0	0	0
Babesiosis	0	1	0	0	0	1	0	1	1	3
Botulism	1	1	1	0	1	2	2	2	1	0
Brucellosis	0	1	0	0	0	0	1	1	0	1
Campylobacteriosis	73	80	118	117	121	141	182	103	167	211
Chlamydia trachomatis	17199	17029	17012	18104	19428	20471	20803	19570	18935	19169
Cholera	0	0	0	1	0	0	1	0	0	0
Cryptosporidiosis	29	94	23	38	17	14	18	58	30	26
Cyclosporiasis	0	2	1	3	0	0	1	0	1	3
Dengue Fever	1	8	1	0	3	1	1	11	0	5
Diphtheria	0	0	0	0	0	0	0	0	0	0
Escherichia coli, Shiga Toxin-Producing (STEC)	19	4	8	10	14	9	12	6	10	11
Giardiasis	81	65	99	106	122	43	60	76	65	61
Gonorrhea	5218	5246	4950	4823	6533	6761	7293	6303	5961	6260
Guillian-Barre Syndrome	2	1	3	1	0	0	0	1	1	4
Haemophilus influenzae [Type B]	16 [0]	19 [2]	11 [1]	30 [7]	28 [1]	22 [2]	39 [1]	26 [0]	23 [1]	24 [2]
Hepatitis A	14	9	10	2	13	8	2	6	6	6
Hepatitis B, Acute	21	15	21	9	5	7	4	5	7	8
Hepatitis C, Acute (Non-A, Non-B Until 1998)	1	0	0	0	1	0	13	18	10	40
Histoplasmosis	1	2	0	1	2	0	1	0	0	2
Legionellosis	21	24	26	60	33	64	29	61	42	53
Leptospirosis	0	0	0	0	1	0	1	0	0	0
Listeriosis	7	8	5	5	8	2	6	10	3	2
Lyme Disease	139	172	281	363	238	301	191	189	140	252
Malaria	15	7	19	16	22	19	13	21	30	18
Measles	0	0	0	1	0	0	2	0	0	0
Meningitis, Aseptic	66	86	79	68	84	104	92	124	60	55
Meningitis, Bacterial	1	4	4	6	12	12	5	3	0	2
Meningococcal Infections	2	9	5	12	5	4	6	3	2	0
Mumps	2	1	1	0	54	21	4	3	0	1
Pertussis	50	39	54	65	74	49	268	86	127	111

DISEASE REPORTING TRENDS (Cont.)

Reports of Communicable Diseases Per Year: Philadelphia, 2006-2015 (Cont.)

	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015
Plague	0	0	0	0	0	0	0	0	0	0
Poliomyelitis	0	0	0	0	0	0	0	0	0	0
Rabies (Human)	0	0	0	0	0	0	0	0	0	0
Rickettsial Diseases, Including RMSF	8	2	3	0	9	4	12	8	10	8
Rubella, Including Congenital Rubella Syndrome	0	0	0	0	0	0	0	0	1	0
Salmonellosis, Excluding Typhoid	293	404	420	396	395	301	305	284	229	237
Shigellosis	14	138	206	1051	141	41	48	66	66	90
Strep Pneumoniae, Invasive	139	162	165	198	154	158	103	149	101	119
Streptococcus, Invasive gp. A [TSS]	37 [0]	34 [0]	75 [0]	49 [1]	66 [0]	73 [0]	61 [0]	56 [0]	95 [0]	90 [0]
Syphilis-Primary & Secondary	125	136	150	218	238	207	269	278	308	314
Syphilis-Congenital	0	9	7	4	1	4	5	1	4	4
Syphilis-Total	540	500	526	704	667	698	798	962	894	916
Tetanus	0	0	0	0	0	0	0	0	0	0
Toxic Shock Syndrome, Staphylococcal	0	0	0	0	0	0	1	0	1	0
Tuberculosis	149	133	162	98	96	101	86	89	78	72
Tularemia	0	0	0	0	0	0	0	0	0	0
Typhoid Fever	4	0	6	2	2	3	2	1	5	3
Varicella (Chicken Pox only)	787	735	349	326	261	262	118	167	118	123
Vibrio SPP. Other	0	0	3	3	0	1	0	0	4	6
West Nile Virus	1	0	8	0	13	1	9	3	5	0
Yellow Fever	0	0	0	0	0	0	0	0	0	5

REGIONAL OVERVIEW



Total Population Count by Age and Region: Philadelphia, 2010*

Age	NE	NW	N	CC/S	W/SW	Total
0-4 Yrs	23127	5055	41227	13888	17760	101057
5-17 Yrs	56820	12189	103578	26046	44165	242798
18-34 Yrs	86479	29154	149432	95613	89090	449768
35-60 Yrs	122363	34069	171370	81045	81124	489971
>60 Yrs	67760	20906	69859	43269	40698	242492
Total	356549	101373	535466	259861	272837	1526086

*Data according to the U.S. Census Bureau

REGIONAL OVERVIEW (Cont.)

Counts of Disease With Sufficient Burden: Philadelphia, 2015

Disease	NE	NW	N	CC/S	W/SW	Missing	Total
	n	n	n	n	n	n	n
Campylobacteriosis	38	20	72	51	30	0	211
Chlamydia	1831	749	9529	2315	4726	14	19164
Giardiasis	<12	<6	17	14	18	0	61
Gonorrhea	485	587	3060	1959	165	4	6260
Hepatitis C, Chronic (RNA only)	443	94	1026	349	367	75	2354
Influenza (Hospitalized)	71	22	237	127	221	0	678
Lyme Disease	81	62	43	38	28	0	252
Meningitis, Aseptic	13	<6	31	8	<6	0	55
Pertussis	<20	<6	33	25	21	1	111
Salmonellosis	42	13	100	33	49	0	237
Shigellosis	13	<6	23	<12	21	0	71
Strep Pneumoniae	25	<12	44	<20	28	1	119
Streptococcus, Invasive gp A	19	<6	37	<12	25	0	90
Syphilis-Early Latent	21	13	146	88	83	17	368
Syphilis-Primary & Secondary	20	12	123	72	83	4	314
Tuberculosis	<12	<6	29	18	14	1	72
Varicella (Chicken Pox & Shingles)	29	<6	40	32	<20	0	123

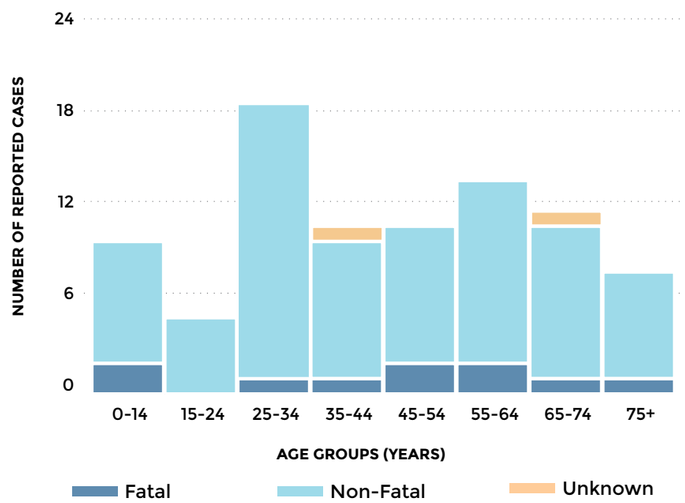
CENTRAL NERVOUS SYSTEM

INFECTIONS AND SEPSIS

GROUP A STREPTOCOCCUS
HAEMOPHILUS INFLUENZAE
LISTERIOSIS
MENINGITIS, ASEPTIC
STREPTOCOCCUS PNEUMONIAE

GROUP A *STREPTOCOCCUS*

Invasive Group A *Streptococcus* by Age Group and Outcome: Philadelphia, 2015



OF NOTE

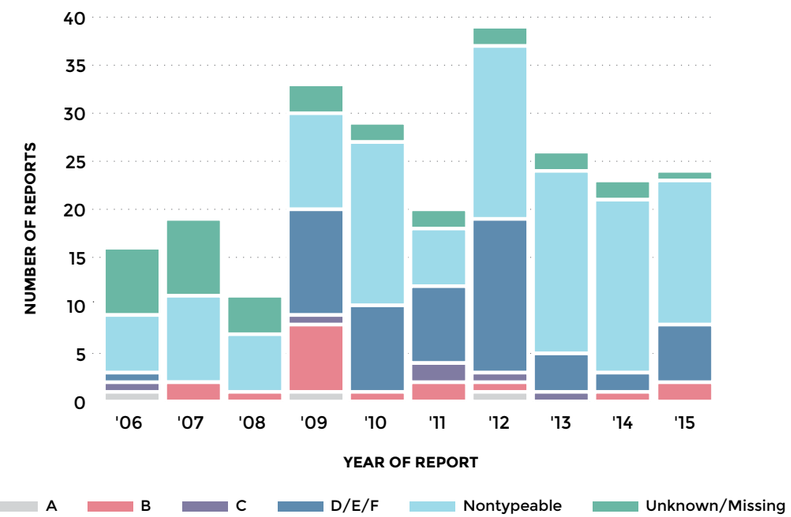
A total of **6 invasive Group A Streptococcal (GAS)** cases were associated with four different long term care facilities (LTCFs) in 2015. **These individuals had septic infections; none were fatal.** PDPH worked with these LTCFs to enhance infection control precautions and to mitigate further transmission through contact screening.

Number of *Group A Streptococcus* Reports by Age: Philadelphia, 2015

	0-29 Years		30-45 Years		45+ Years		Total	
	n	%	n	%	n	%	n	%
Male	8	8.9	11	12.2	23	25.6	42	46.7
Female	15	16.7	11	12.2	22	24.4	48	53.3
Total	23	25.6	22	24.4	45	50	90	100

HAEMOPHILUS INFLUENZAE

Number of Invasive *Haemophilus influenza* by Serotype: Philadelphia, 2006-2015



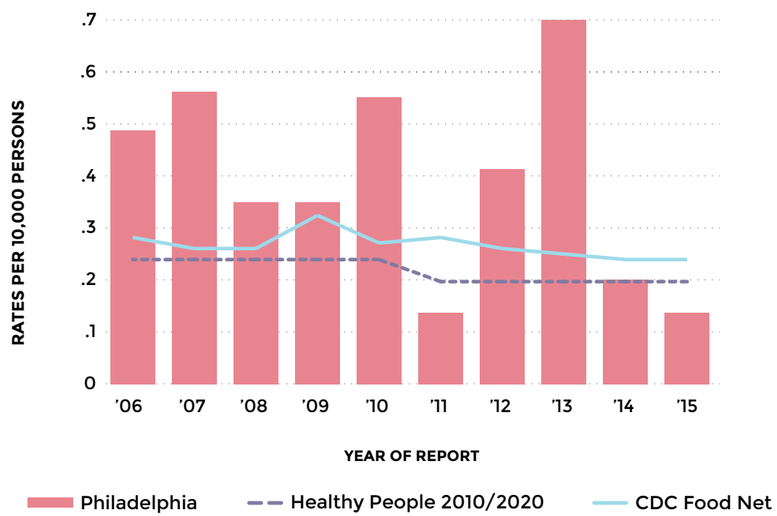
Number of Invasive *Haemophilus influenza* by Age: Philadelphia, 2015

	0-5 Years		6-49 Years		50-69 Years		70+ Years		Total	
	n	%	n	%	n	%	n	%	n	%
Total	<6		<6		9	37.5	7	29.2	24	100

LISTERIOSIS

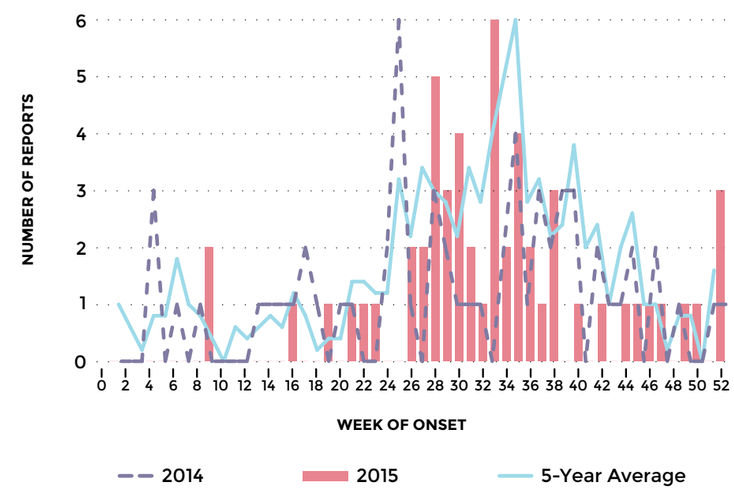
(Listeria monocytogenes)

Rates of Lab-Confirmed Listeriosis by Year of Report: Philadelphia, 2006-2015



MENINGITIS, ASEPTIC

Number Of Aseptic Meningitis Reports By Week Of Onset: Philadelphia, 2014, 2015, And 5-Year Moving Average

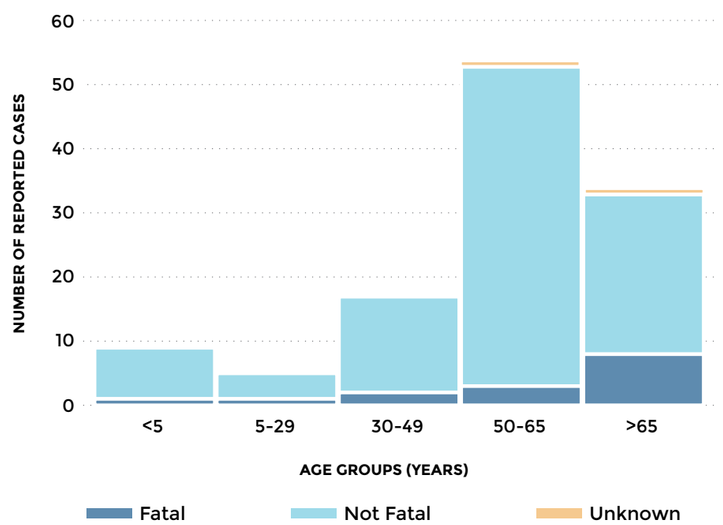


Number of Aseptic Meningitis Reports by Age and Gender: Philadelphia, 2015

	0-4 Years		5-30 Years		31+ Years		Total	
	n	%	n	%	n	%	n	%
Male	9	16.4	8	14.5	13	23.6	30	54.5
Female	<6		<12		13	23.6	25	45.5
Total					26	47.3	55	100

STREPTOCOCCUS *PNEUMONIAE*

Invasive *Streptococcus pneumoniae* by Age Group and Outcome: Philadelphia, 2015



Number of Invasive *Streptococcus pneumoniae* by Age and Gender: Philadelphia, 2015

	0-20 Years		21-50 Years		51-64 Years		65+ Years		Total	
	n	%	n	%	n	%	n	%	n	%
Male	9	7.6	13	10.9	26	21.8	15	12.6	63	52.9
Female	<6		<12		23	19.3	20	16.8	56	47.1
Total					49	41.2	35	29.4	119	100

EBOLA VIRUS

OF NOTE

Monitoring Passengers from Ebola-Affected Countries

Beginning in October 2014, PDPH monitored airline passengers travelling from countries with ongoing Ebola outbreaks for signs and symptoms of this infection including fever, vomiting, diarrhea, abdominal pain, headache, etc. The objectives of this activity were to expedite disease identification, diagnosis, and assist with the prevention of further disease transmission through review of infection control precautions and contact tracing. The World Health Organization declared countries free of Ebola, marking the end of the largest recorded Ebola outbreak: Guinea as of December 29, 2015, Liberia as of May 9, 2015, and Sierra Leone on November 7, 2015. The final passenger completed their monitoring on January 8, 2016. This summary includes data from the entire duration of the monitoring program (N=961) and includes 98 (10%) individuals initially contacted by PDPH but later transferred to other jurisdictions.

Characteristics of Passengers from Ebola-Affected Countries Who Completed 21-Day Monitoring: Philadelphia, October 2014-December 2015

	Passengers (961)	
Median Age (Age Range)	34.4 Years (3 Months - 102 Years)	
	n	%
Female	455	47
Ebola-Affected County Visited		
Liberia	475	49
Mali	48	5
Guinea	255	27
Sierra Leone	170	18
>1 Affected Country	12	1
Ebola-exposure Risk Level		
Low (No contact with Ebola patient)	958	>99
Some (i.e., exposed to Ebola patient with precautions)	3	<1
High (i.e., exposed to Ebola patient without precautions)	0	0

2 GASTRO-INTESTINAL INFECTIONS

OVERVIEW
CAMPYLOBACTERIOSIS
CRYPTOSPORIDIOSIS
GIARDIASIS
SALMONELLOSIS
SHIGELLOSIS

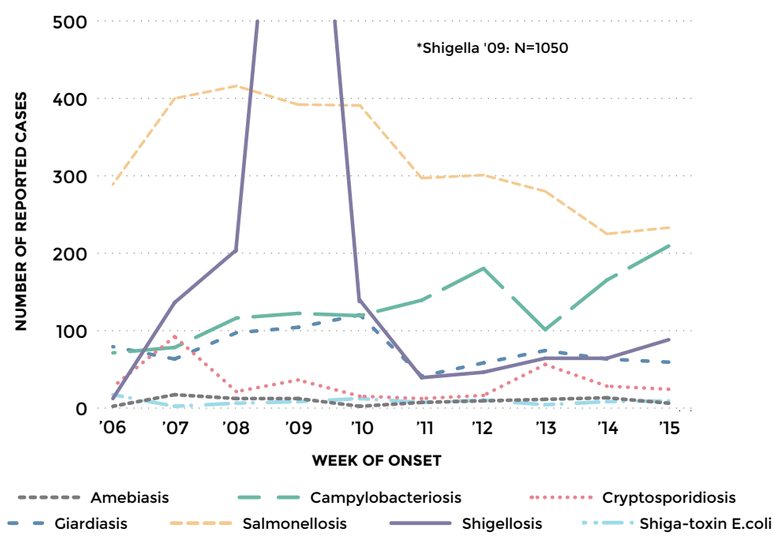
OVERVIEW

Antibiotic Resistance of Selected Enteric Pathogens: Philadelphia, 2015

Pathogen	Antibiotics Tested	Total Tested	Resistant		Intermediate	
			n	%	n	%
Campylobacter	Ciprofloxacin	30	6	20	0	0
	Erythromycin	27	1	4	0	0
Salmonella	Ampicillin	192	24	13	0	0
	Ceftriaxone	70	4	6	1	1
	Ciprofloxacin	155	0	0	2	1
	Trimethoprim-Sulfamethoxazole	185	1	1	0	0
Shigella	Ampicillin	63	50	79	2	3
	Ceftriaxone	33	0	0	0	0
	Ciprofloxacin	51	2	4	0	0
	Trimethoprim-Sulfamethoxazole	59	33	56	0	0

OVERVIEW (Cont.)

Reported Cases of Gastrointestinal Diseases: Philadelphia, 2006-2015



OF NOTE

Food Poisoning

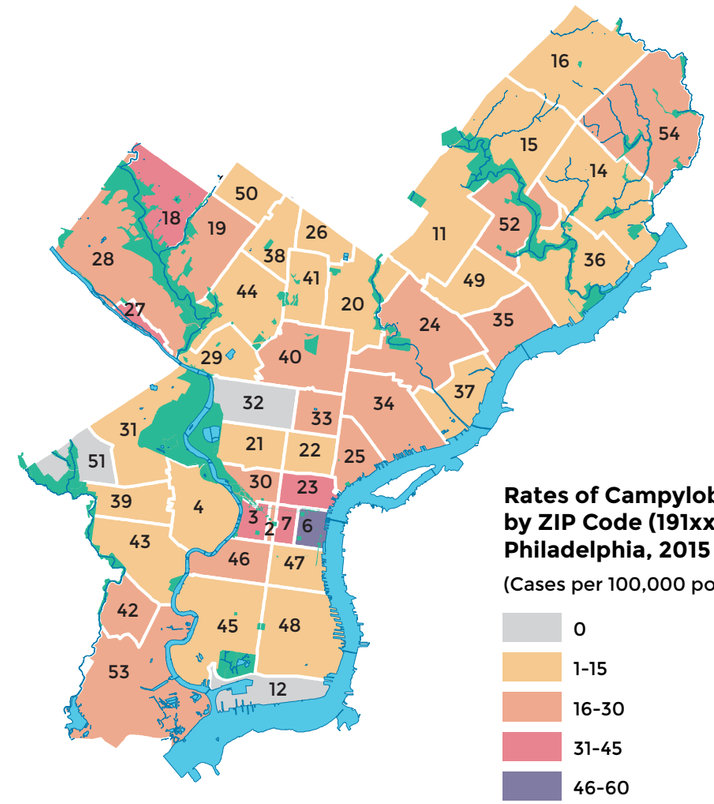
In 2015, PDPH investigated **foodborne illness complaints following a banquet** (~250 attendees). Among 157 attendees responding to our request for interview, 55%(n=87) were determined to be ill with diarrhea and/ or vomiting following the banquet. **No specific pathogen was identified and no food vehicle was confirmed as the source of illness.**

Norovirus Outbreaks

For the 2014-2015 norovirus season, **16 outbreaks** occurring in **long term care facilities were investigated.**

CAMPYLOBACTERIOSIS

(*Campylobacter* ***spp.***)



Rates of Campylobacteriosis by ZIP Code (191xx): Philadelphia, 2015

(Cases per 100,000 population)

- 0
- 1-15
- 16-30
- 31-45
- 46-60

Number of Campylobateriosis Reports by Age and Gender: Philadelphia, 2015

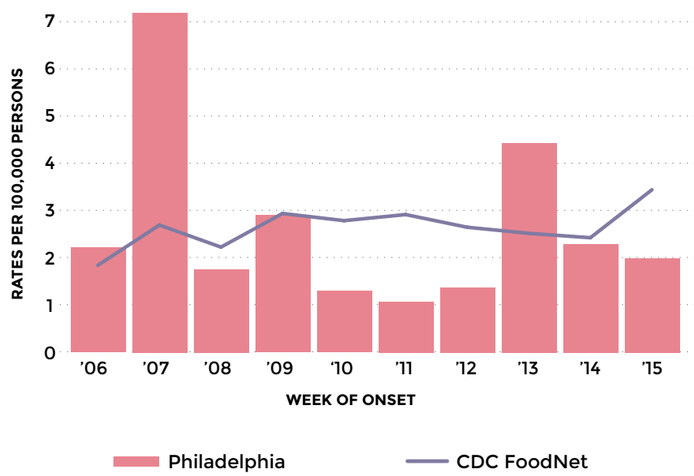
	0-4 Years		5-24 Years		25-49 Years		50-65 Years		65+ Years		Total*	
	n	%	n	%	n	%	n	%	n	%	n	%
Male	10	4.8	13	6.2	44	21	14	6.7	20	9.5	101	48.1
Female	7	3.3	11	5.2	39	18.6	22	10,5	30	14.3	109	51.9
Total	17	8.1	24	11.4	83	39.5	36	17.1	50	23.8	210	100

*unknown=1

CRYPTOSPORIDIOSIS

(*Cryptosporidium* ***spp.***)

Rates of Lab-Confirmed Cryptospiridiosis by Year of Report: Philadelphia, 2006-2015



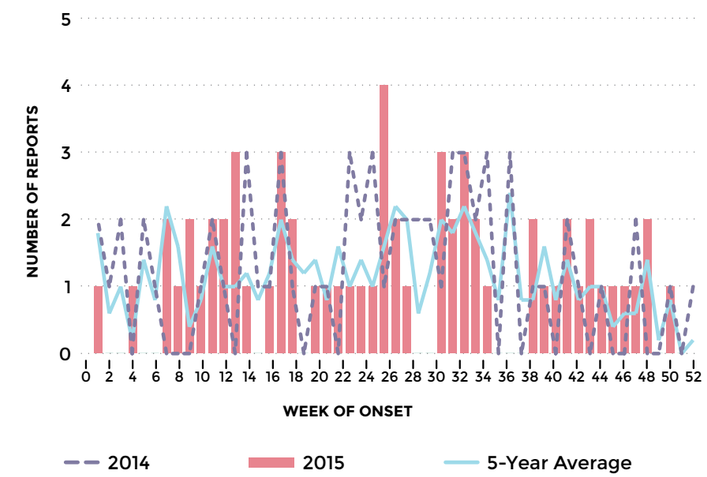
Number of Cryptosporidiosis Reports by Age and Gender: Philadelphia, 2015

	0-20 Years		21-34 Years		35+ Years		Total	
	n	%	n	%	n	%	n	%
Total	6	23.1	10	38.5	10	38.5	26	100

GIARDIASIS

(*Giardia lamblia*)

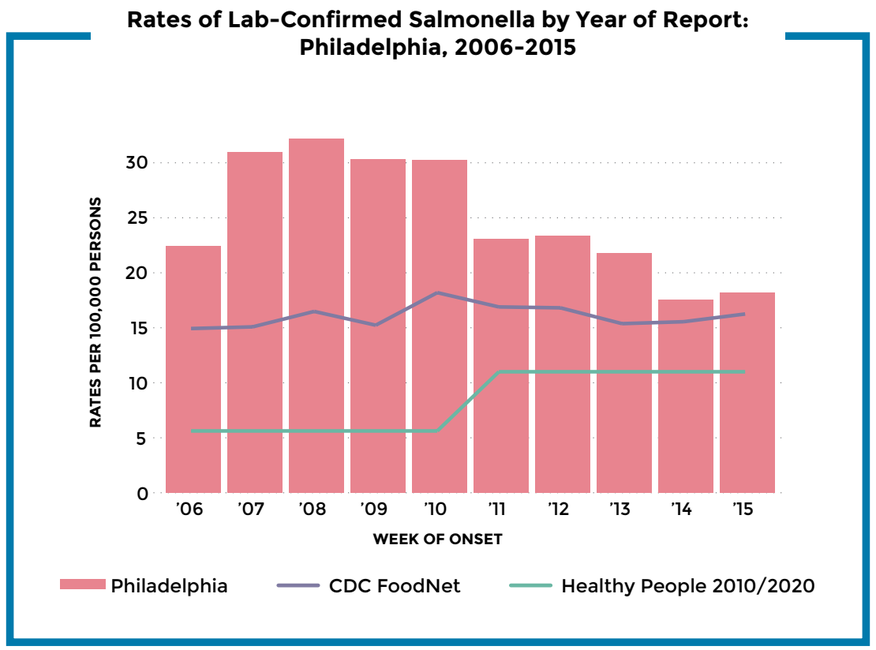
Number of Giardiasis Reports by Week of Onset: Philadelphia, 2014, 2015, And 5-Year Moving Average



Number of Giardiasis Reports by Age and Gender: Philadelphia, 2015

	0-29 Years		30+ Years		Total	
	n	%	n	%	n	%
Male	20	32.8	25	41.0	45	73.8
Female	10	16.4	6	9.8	16	26.2
Total	30	49.2	31	50.8	61	100

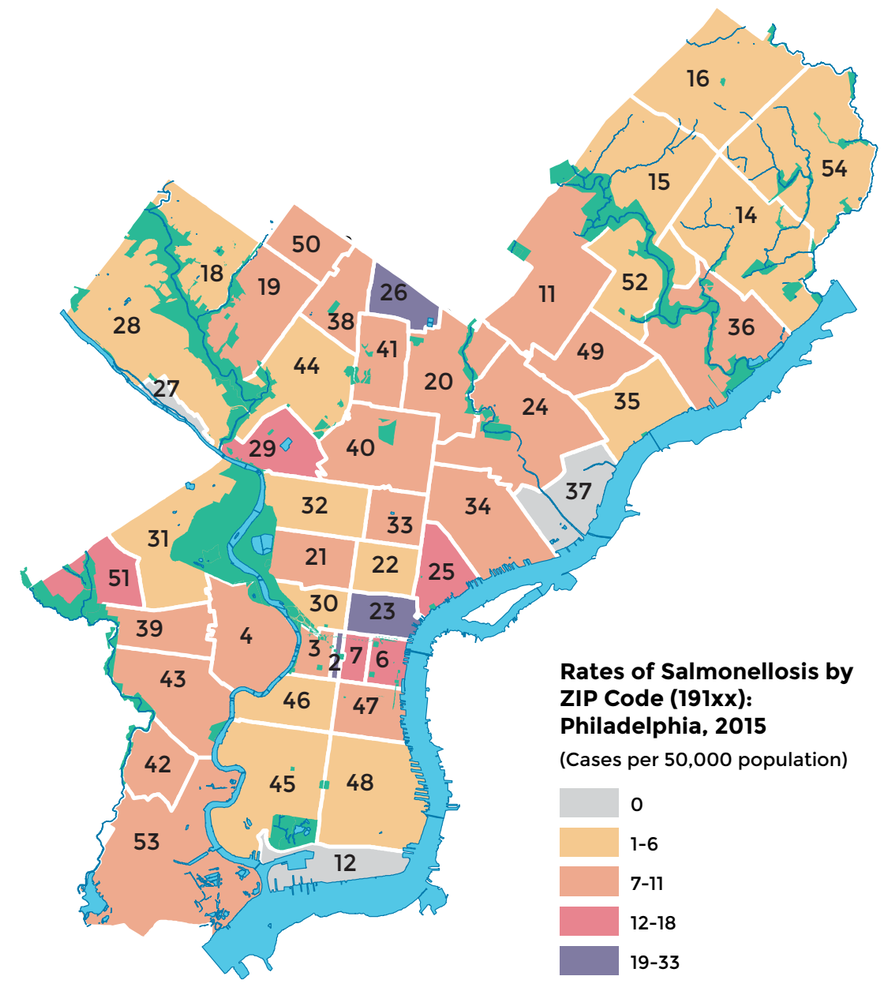
SALMONELLOSIS
(*Salmonella* ***spp.***)



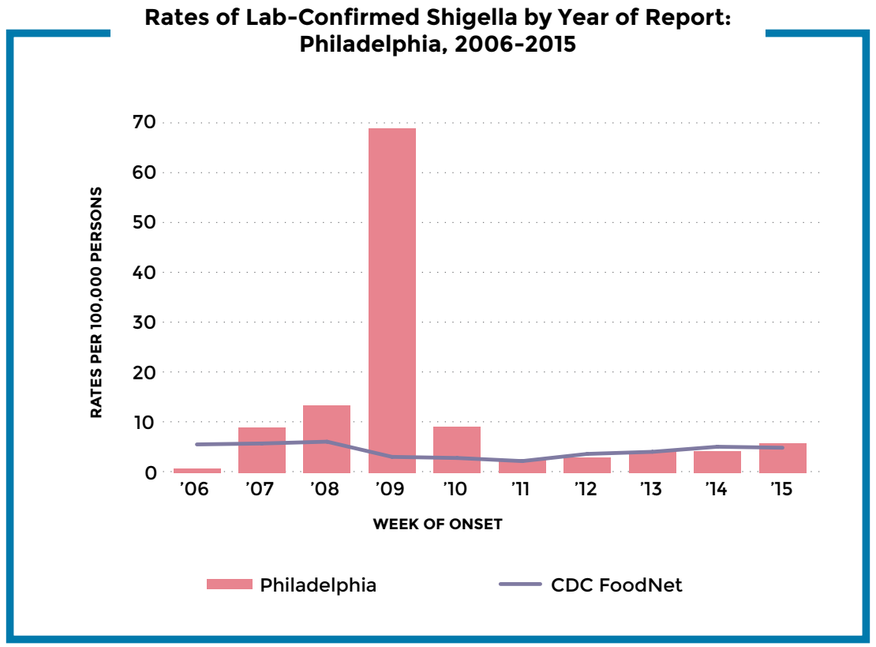
Number of Salmonellosis Reports by Age and Gender: Philadelphia, 2015

	0-4 Years		5-17 Years		18-34 Years		35-60 Years		61+ Years		Total	
	n	%	n	%	n	%	n	%	n	%	n	%
Male	33	13.9	16	6.8	32	13.5	15	6.3	11	4.6	107	45.1
Female	36	15.2	16	6.8	30	12.7	20	8.4	28	11.8	130	54.9
Total	69	29.1	32	13.5	62	26.2	35	14.8	39	16.5	237	100

SALMONELLOSIS (Cont.)



SHIGELLOSIS
(*Shigella spp.*)



Number of Shigellosis Reports by Age and Gender: Philadelphia, 2015

	0-20 Years		21-45 Years		>45 Years		Total*	
	n	%	n	%	n	%	n	%
Male	23	25.8	<12		<6		34	38.2
Female	22	24.7	19	21.3	13	14.6	55	61.8
Total	45	50.6					89	100

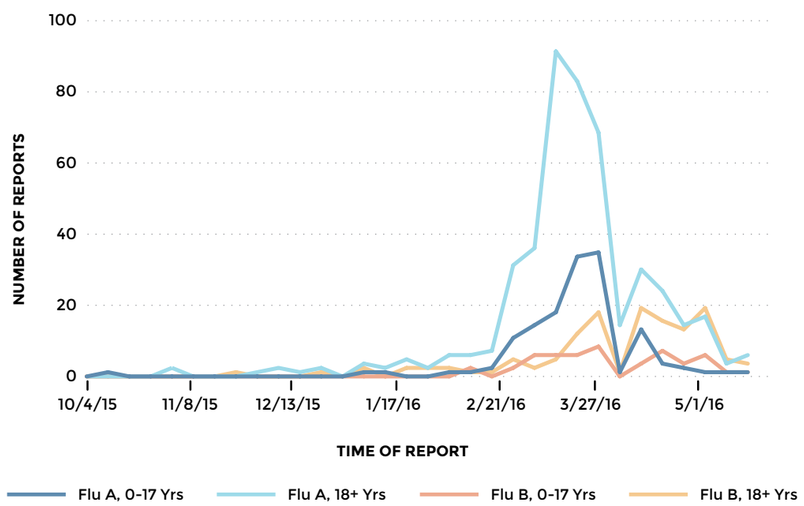
*unknown=19

4 RESPIRATORY INFECTIONS

INFLUENZA
LEGIONELLOSIS
TUBERCULOSIS

INFLUENZA

Number of Laboratory-Confirmed Influenza Reports by Week of Onset: Philadelphia, 2015-2016



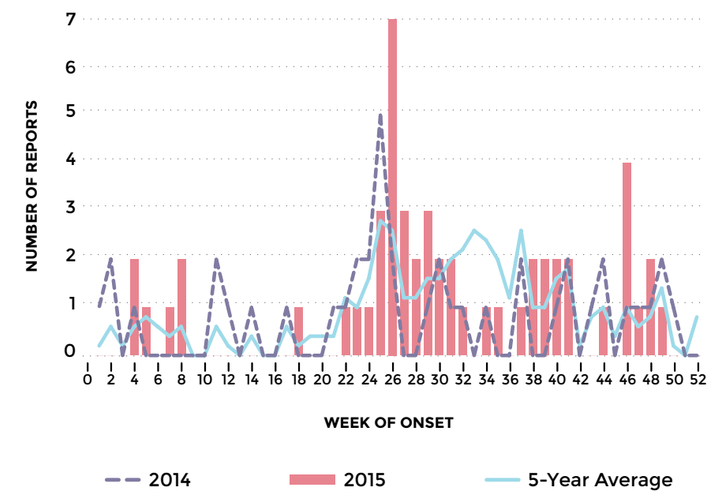
Number of Hospitalized Influenza Reports by Age and Region: Philadelphia, 2015

	NE		NW		N		CC		S		W/SW		Total	
	n	%	n	%	n	%	n	%	n	%	n	%	n	%
Age														
0-4 Yrs	14	2.1	<6		66	9.7	<6		<12		18	2.7	109	16.1
5-17 Yrs	11	1.6	<6		32	4.7	<6		<6		13	1.9	61	9
18-44 Yrs	9	1.3	<12		53	7.82	<6		23	3.4	49	7.2	142	20.9
45-64 Yrs	13	1.9	6	0.9	54	8	6	0.9	40	5.9	72	10.6	191	28.2
65+ Yrs	24	3.5	<6		32	4.7	13	1.9	32	4.7	69	10.2	175	25.8
Total	71	10.5	22	3.2	237	35	22	3.2	105	15.5	221	32.6	678	100

LEGIONELLOSIS

(*Legionella pneumophila*)

Number of Legionellosis Reports by Week of Onset: Philadelphia, 2014, 2015, And 5-Year Moving Average

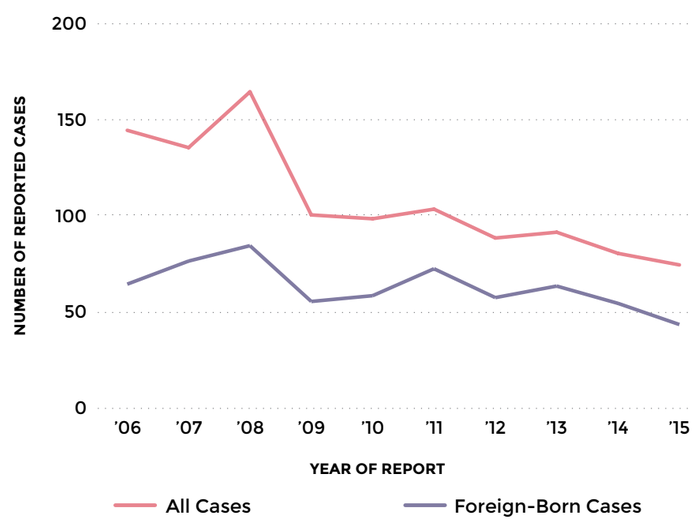


Number of Legionellosis Reports by Age: Philadelphia, 2015

	0-50 Years		51-64 Years		65+ Years		Total	
	n	%	n	%	n	%	n	%
Total	7	13.2	29	54.7	17	32.1	53	100

TUBERCULOSIS
(*Mycobacterium tuberculosis*)

Reported Cases of Tuberculosis by Nationality: Philadelphia, 2006-2015



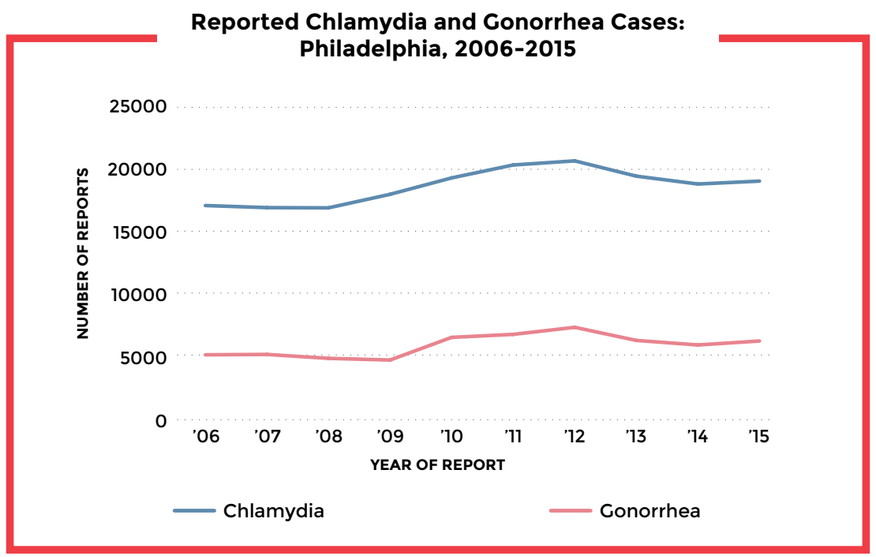
Number of Tuberculosis Reports by Age: Philadelphia, 2015

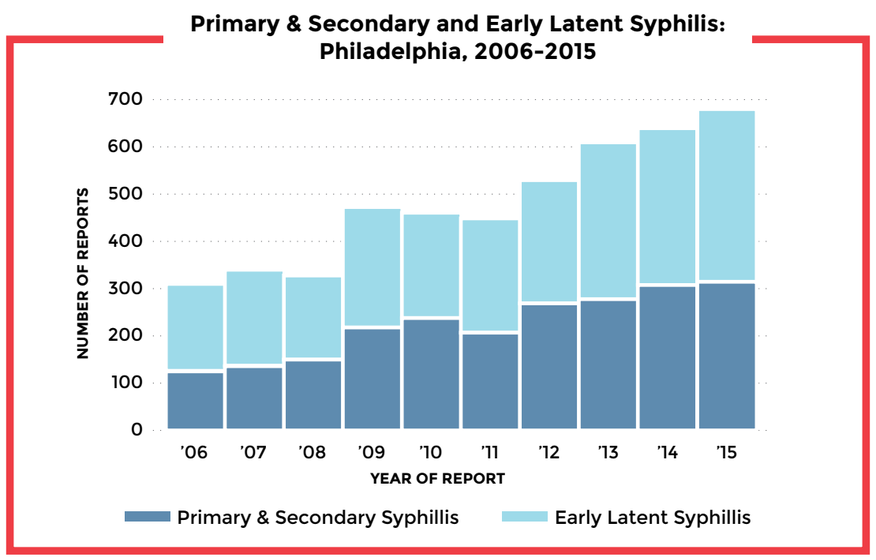
	0-18 Years		19-30 Years		31-44 Years		45-65 Years		66+ Years		Total	
	n	%	n	%	n	%	n	%	n	%	n	%
Total	0	0	10	13.9	17	23.6	33	45.8	12	16.7	72	100

5 SEXUALLY TRANSMITTED DISEASES

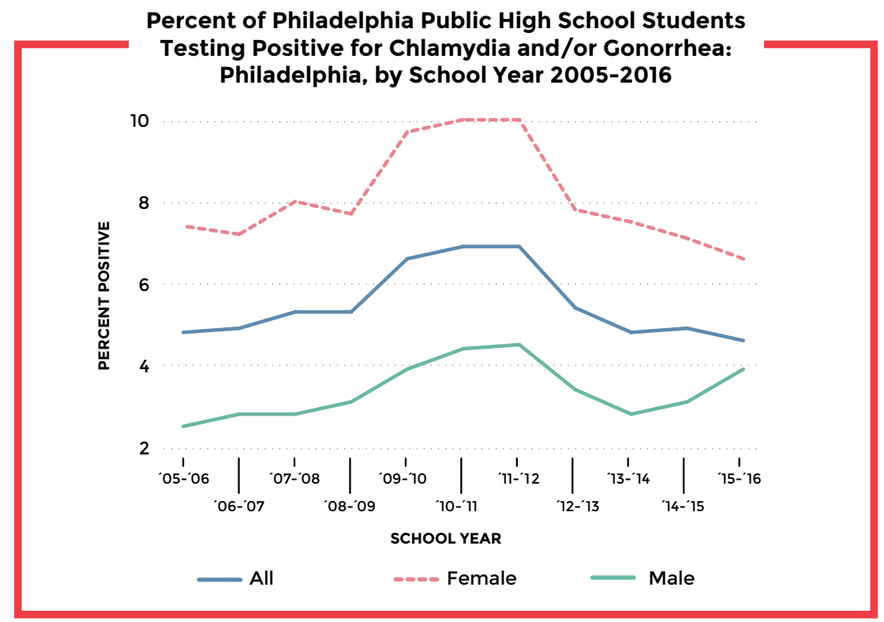
OVERVIEW
CHLAMYDIA
GONORRHEA
SYPHILIS-PRIMARY & SECONDARY
SYPHILIS-LATENT

OVERVIEW





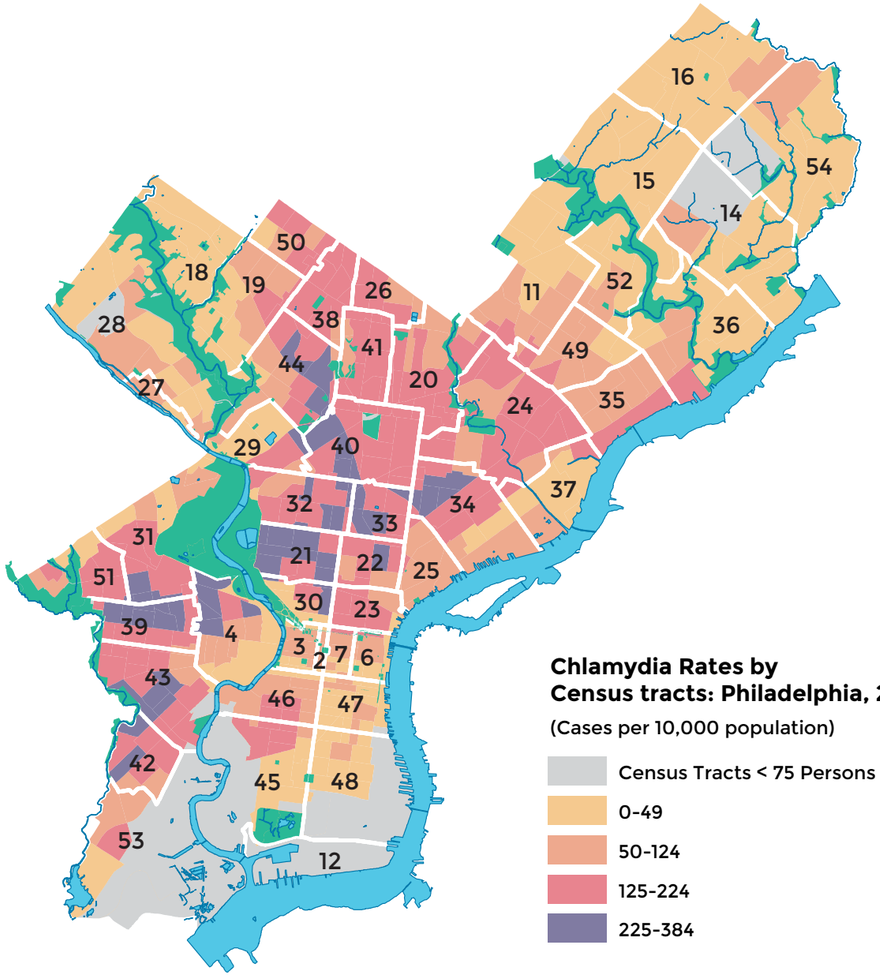
OVERVIEW (Cont.)



Percent of Philadelphia Public High School Students Testing Positive for Chlamydia and/or Gonorrhea: Philadelphia, by School Year 2005-2016

	05-06	06-07	07-08	08-09	09-10	10-11	11-12	12-13	13-14	14-15	15-16
	%	%	%	%	%	%	%	%	%	%	%
Male	2.5	2.8	2.8	3.1	3.9	4.4	4.5	3.4	2.8	3.1	3.9
Female	7.4	7.2	8	7.7	9.7	10	10	7.8	7.5	7.1	6.6
Total	4.8	4.9	5.3	5.3	6.6	6.9	6.9	5.4	4.8	4.9	4.6

CHLAMYDIA
(*Chlamydia trachomatis*)



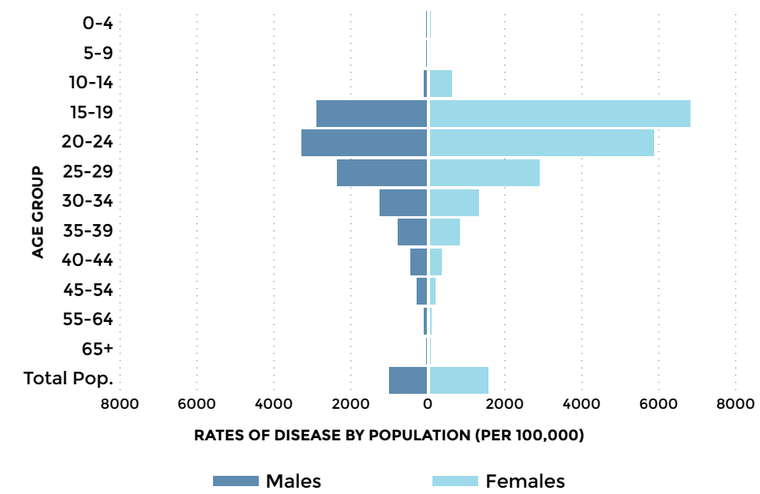
Chlamydia Rates by Census tracts: Philadelphia, 2015

(Cases per 10,000 population)

- Census Tracts < 75 Persons
- 0-49
- 50-124
- 125-224
- 225-384

CHLAMYDIA (Cont.)

Rates of Chlamydia by Age and Gender: Philadelphia, 2015

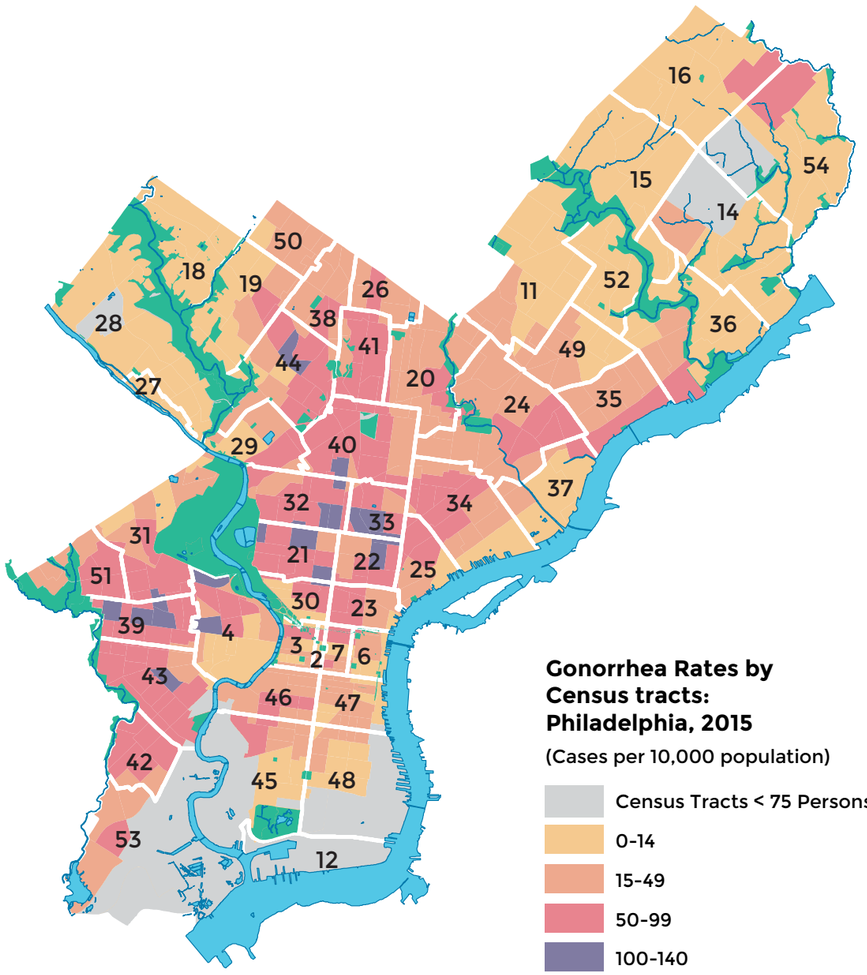


Number of Chlamydia Reports by Age, Gender, and Region: Philadelphia, 2015

	NE		NW		N		CC		S		W/SW		Total*	
	n	%	n	%	n	%	n	%	n	%	n	%	n	%
Male														
0-14 Yrs	<6		<6		16	0	<6		<6		11	0	37	1
15-19 Yrs	146	1	62	0	925	5	38	0	94	0	409	2	1674	9
20-24 Yrs	181	1	110	1	1119	6	90	0	174	1	644	3	2318	12
25-34 Yrs	176	1	107	1	919	5	187	1	282	1	478	2	2149	11
35+ Yrs	56	0	41	0	362	2	79	0	130	1	161	1	829	4
Female														
0-14 Yrs	<20		<6		134	1	<6		<20		78	0	247	1
15-19 Yrs	369	2	135	1	2199	11	77	0	251	1	1012	5	4043	21
20-24 Yrs	468	2	155	1	2262	12	134	1	300	2	1079	6	4398	23
25-34 Yrs	314	2	102	1	1255	7	144	1	237	1	689	4	2741	14
35+ Yrs	104	1	32	0	338	2	28	0	47	0	165	1	714	4
Grand Total	1831	10	749	4	9529	50	780	4	1535	8	4726	25	19150	100

*unknown=19

GONORRHEA
(*Neisseria gonorrhoeae*)



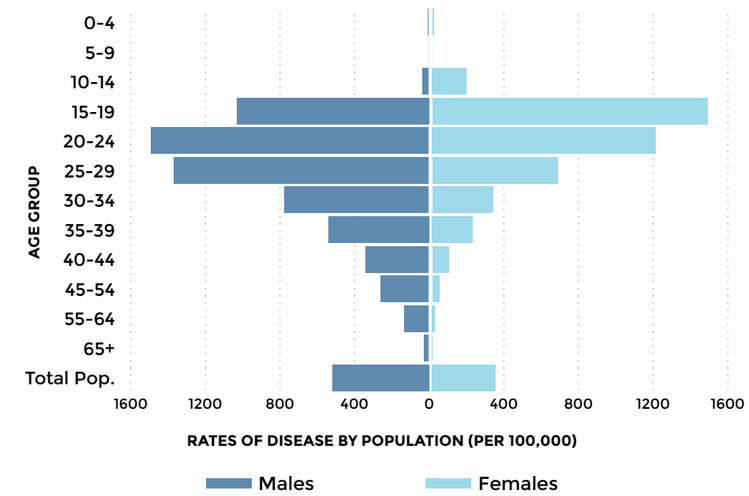
Gonorrhea Rates by Census tracts: Philadelphia, 2015

(Cases per 10,000 population)

- Census Tracts < 75 Persons
- 0-14
- 15-49
- 50-99
- 100-140

GONORRHEA (Cont.)

Rates of Gonorrhea by Age and Gender: Philadelphia, 2015



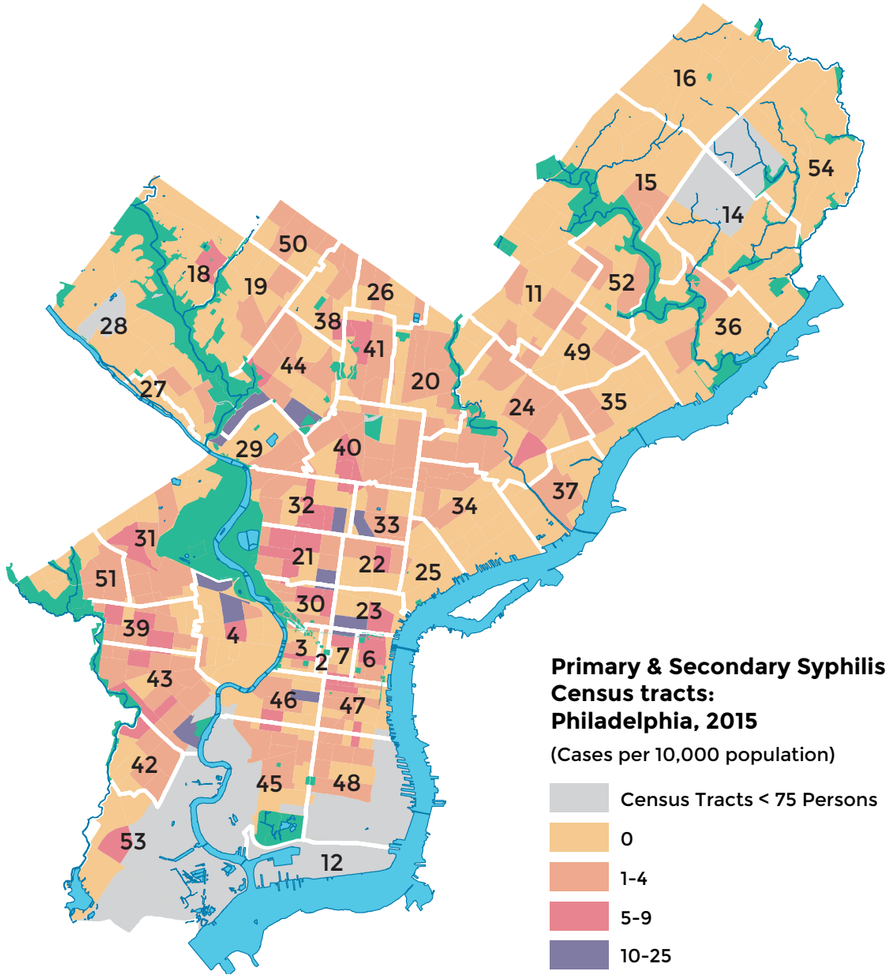
Number of Gonorrhea Reports by Age, Gender, and Region: Philadelphia, 2015

	NE		NW		N		CC		S		W/SW		Total*	
	n	%	n	%	n	%	n	%	n	%	n	%	n	%
Male														
0-14 Yrs	<6		<6		10	0	<6		<6		<6		15	0
15-19 Yrs	40	1	39	1	319	5	16	0	153	2	15	0	582	9
20-24 Yrs	79	1	85	1	503	8	42	1	282	5	37	1	1028	17
25-34 Yrs	80	1	201	3	519	8	112	2	316	5	26	0	1254	20
35+ Yrs	74	1	101	2	298	5	77	1	149	2	26	0	725	12
Female														
0-14 Yrs	<6		<6		46	1	<6		<30		<6		83	1
15-19 Yrs	63	1	43	1	452	7	20	0	251	4	27	0	856	14
20-24 Yrs	69	1	60	1	476	8	18	0	239	4	15	0	877	14
25-34 Yrs	49	1	42	1	343	5	11	0	186	3	12	0	643	10
35+ Yrs	26	0	11	0	94	2	8	0	47	1	7	0	193	3
Grand Total	485	8	587	9	3060	49	305	5	1654	26	165	3	6256	100

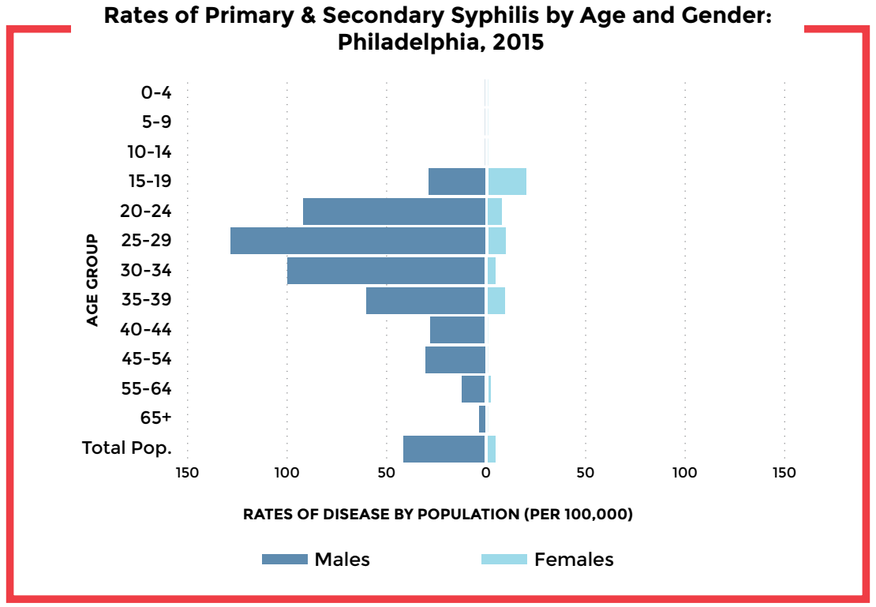
*unknown=4

SYPHILIS-PRIMARY & SECONDARY

(*Treponema pallidum*)



SYPHILIS-PRIMARY & SECONDARY (Cont.)



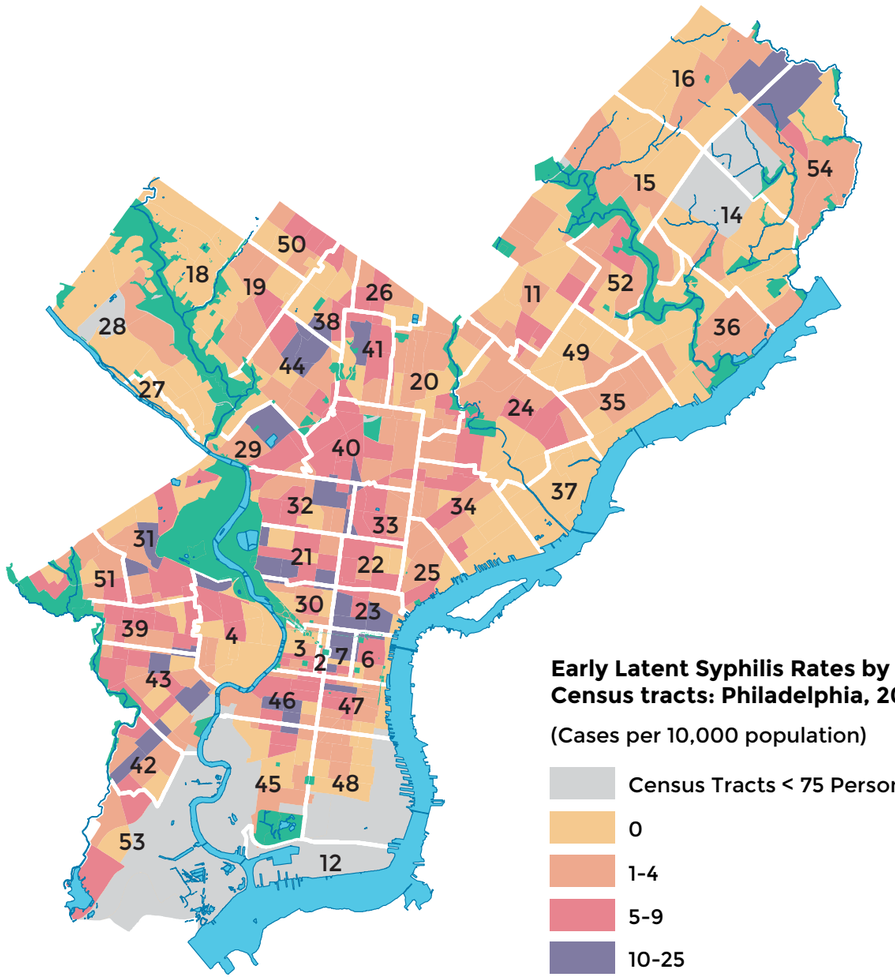
Number of Primary & Secondary Syphilis Reports by Age and Region: Philadelphia, 2015

	NE		NW		N		CC		S		W/SW		Total*	
	n	%	n	%	n	%	n	%	n	%	n	%	n	%
Age														
0-24 Yrs	<6		<6		48	15	<6		8	3	28	9	95	31
25-34 Yrs	<12		<12		47	15	16	5	20	6	39	12	136	44
35+ Yrs	10	3	<6		28	9	<12		14	4	16	5	79	25
Total	20	6	12	4	123	39	30	10	42	13	83	26	310	100

*unknown=4

SYPHILIS-EARLY LATENT

(*Treponema pallidum*)



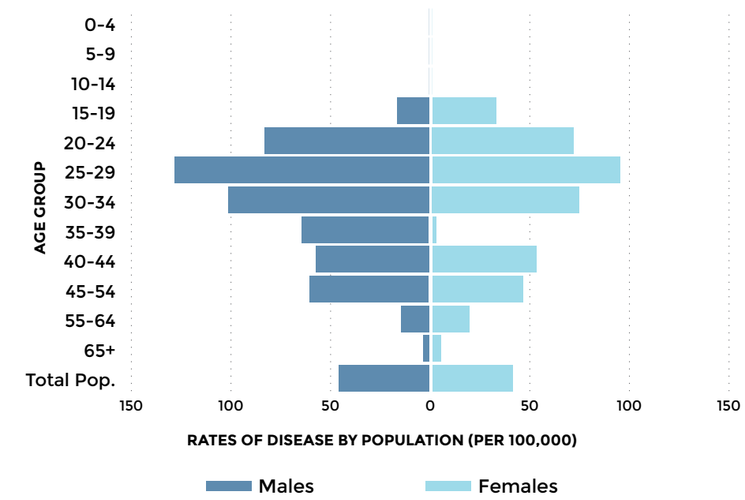
Early Latent Syphilis Rates by Census tracts: Philadelphia, 2015

(Cases per 10,000 population)

- Census Tracts < 75 Persons
- 0
- 1-4
- 5-9
- 10-25

SYPHILIS-EARLY LATENT (Cont.)

Rates of Early Latent Syphilis by Age and Gender: Philadelphia, 2015



Number of Early Latent Syphilis Reports by Age and Region: Philadelphia, 2015

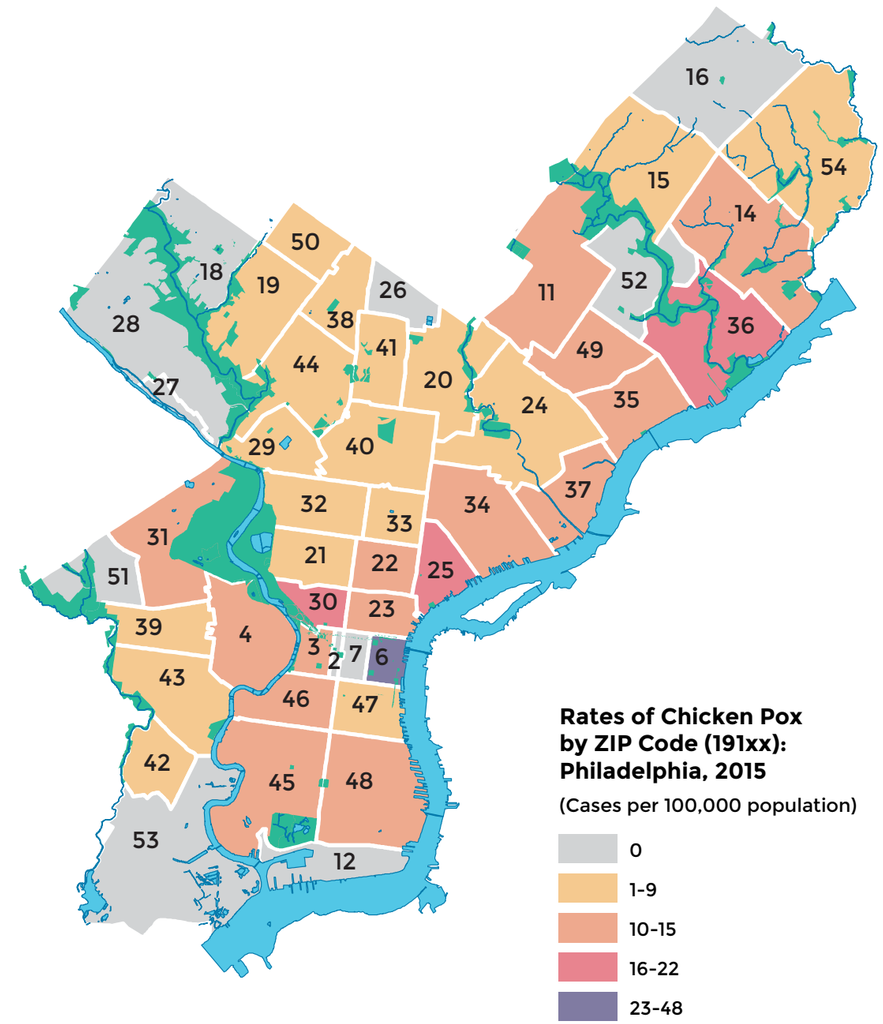
	NE		NW		N		CC		S		W/SW		Total*	
	n	%	n	%	n	%	n	%	n	%	n	%	n	%
Age														
0-24 Yrs	<12		<6		45	12	<6		8	2	28	8	95	27
25-34 Yrs	10	3	<12		60	17	<20		20	6	39	11	148	42
35+ Yrs	<6		<6		41	11	15	4	28	8	16	4	108	31
Total	21	6	13	4	146	40	32	9	56	15	83	23	351	100

*unknown=17

VACCINE-PREVENTABLE DISEASES

CHICKEN POX & SHINGLES
MENINGOCOCAL DISEASE
PERTUSSIS

CHICKEN POX
(Varicella zoster virus)



CHICKEN POX & SHINGLES (Cont.)

Number of Chicken Pox Reports by Age and Gender: Philadelphia, 2015

	0-4 Years		5-17 Years		18-30 Years		30+ Years		Total	
	n	%	n	%	n	%	n	%	n	%
Male	17	13.8	17	13.8	16	13.0	27	22.0	77	62.6
Female	13	10.6	8	6.5	13	10.6	12	9.8	46	37.4
Total	30	24.4	25	20.3	29	23.6	39	31.7	123	100

OF NOTE

In 2015, **2 varicella outbreaks** occurred:
6 varicella cases occurred in a daycare following an initial exposure to herpes zoster. Four of these individuals (infants less than 1 years old) were **unvaccinated.** Post-exposure prophylaxis was administered to 18 susceptible children.

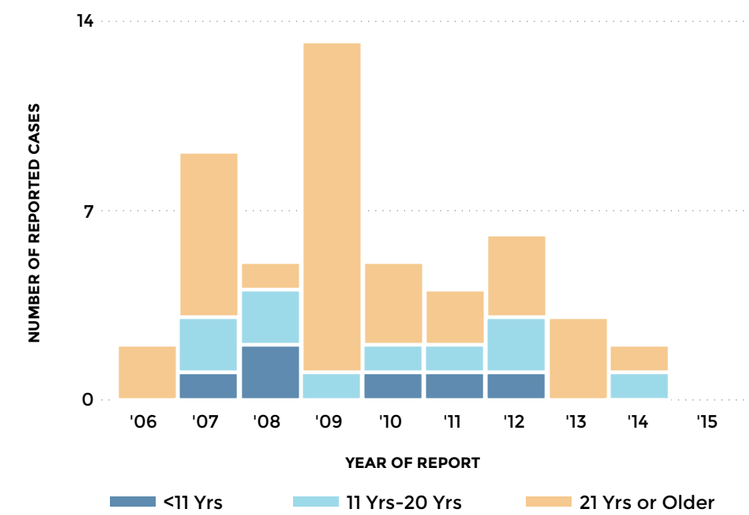
9 varicella cases occurred in a detention center for adult men following an initial exposure to herpes zoster. Eight of these individuals were inmates and one was an employee. Post-exposure prophylaxis was administered to **11 susceptible adult men.**

Number of Shingles Reports by Age and Gender: Philadelphia, 2015

	0-23 Years		24-34 Years		35-45 Years		46-60 Years		61+ Years		Total	
	n	%	n	%	n	%	n	%	n	%	n	%
Male	6	3.1	14	7.2	7	3.6	9	4.6	30	15.5	66	34
Female	15	7.7	23	11.9	13	6.7	26	13.4	51	26.3	128	66
Total	21	10.8	37	19.1	20	10.3	35	18	81	41.8	194	100

MENINGOCOCAL DISEASE
(*Neisseria meningitidis*)

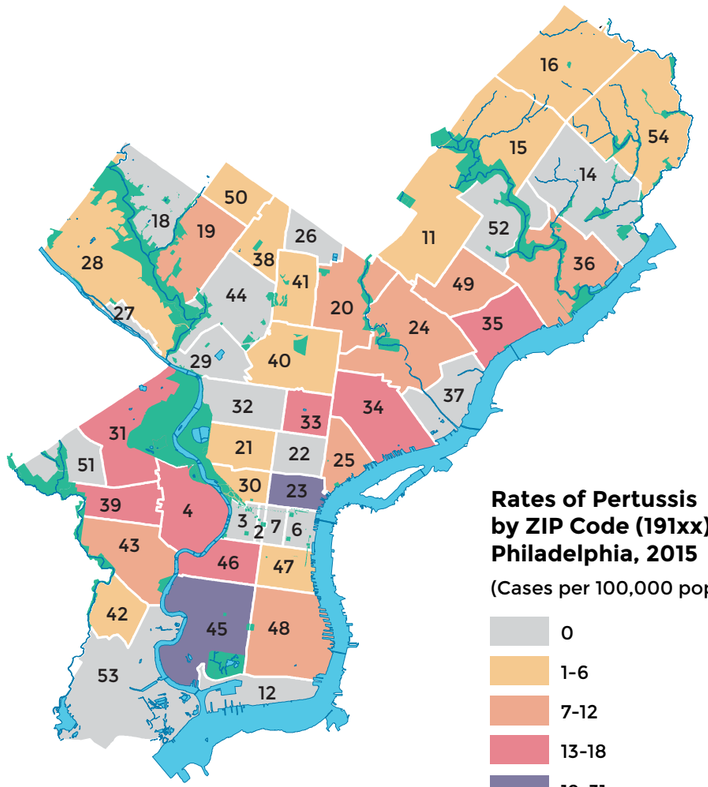
Invasive Meningococal Disease by Age Group: Philadelphia, 2006-2015



Reports of Meningococal Disease by Serogroup Per Year: Philadelphia, 2006-2015

	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	Total N (%)
Serogroup											
B	0	0	1	8	1	1	2	0	1	0	14 (29%)
C	0	4	0	1	1	0	1	0	0	0	7 (15%)
W	1	0	0	1	0	0	0	0	0	0	2 (4%)
X	0	0	0	0	0	1	0	0	0	0	1 (2%)
Y	0	2	2	2	2	2	2	2	0	0	14 (29%)
Z	0	1	0	0	0	0	0	0	0	0	1 (2%)
Nontypeable	1	2	2	0	1	0	1	1	1	0	9 (19%)
Total	2	9	5	12	5	4	6	3	2	0	48 (100%)

PERTUSSIS
(*Bordetella pertussis*)



Rates of Pertussis by ZIP Code (191xx): Philadelphia, 2015

(Cases per 100,000 population)

- 0
- 1-6
- 7-12
- 13-18
- 19-31

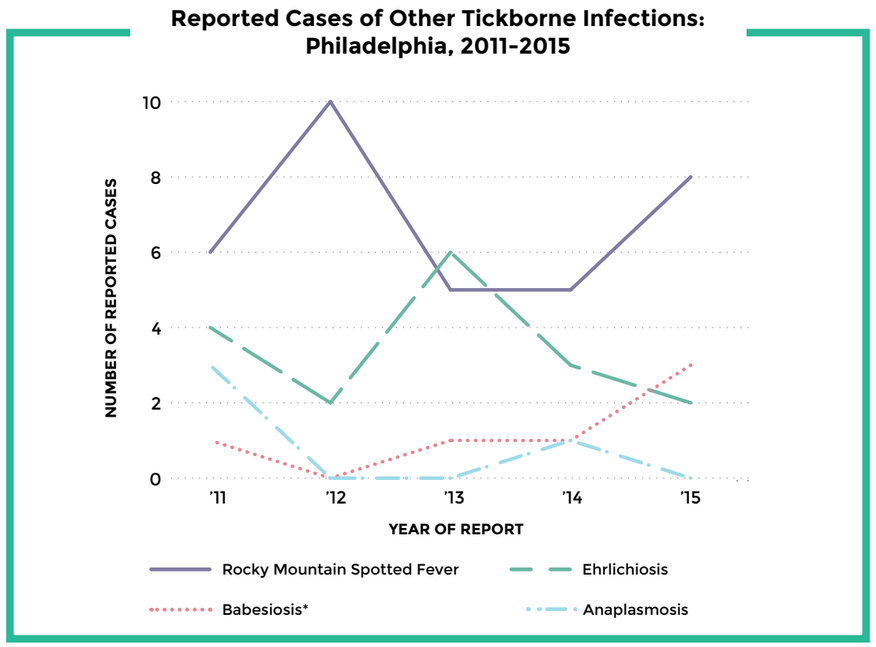
Number of Pertussis Reports by Age and Gender: Philadelphia, 2015

	0-4 Years		5-17 Years		18-44 Years		45+ Years		Total	
	n	%	n	%	n	%	n	%	n	%
Male	18	16.2	16	14.4	6	5.4	10	9.0	50	45
Female	15	13.5	17	15.3	18	16.2	11	9.9	61	55
Total	33	29.7	33	29.7	24	21.6	21	18.9	111	100

7 VECTOR-BORNE DISEASES

TICKBORNE INFECTIONS
ARBOVIRAL INFECTIONS
LYME DISEASE
MALARIA
WEST NILE VIRUS

TICKBORNE INFECTIONS

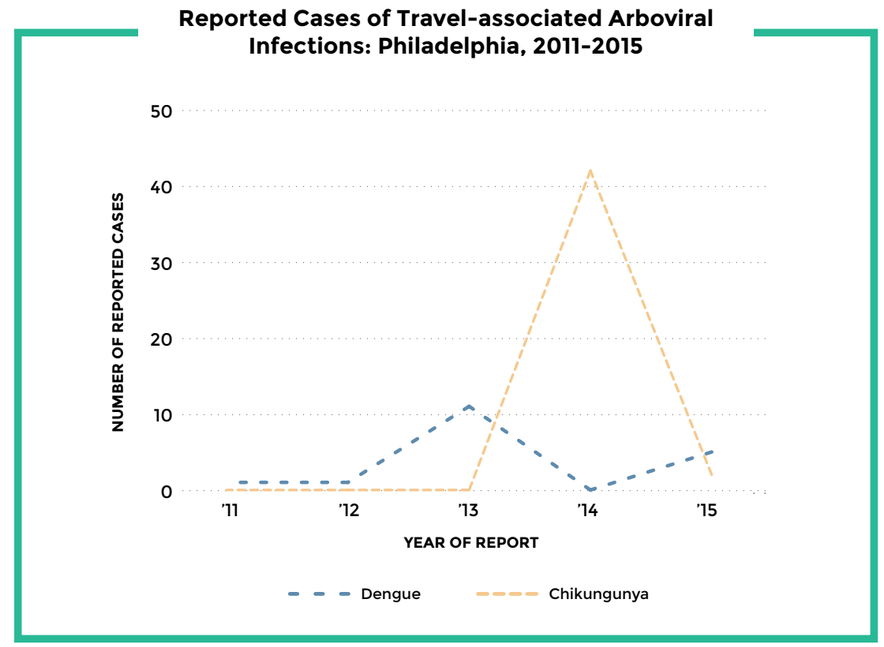


Reported Cases of Other Tickborne Infections: Philadelphia, 2011-2015

	2011	2012	2013	2014	2015	Total
Anaplasmosis	3	0	0	1	0	4
Babesiosis*	1	0	1	1	3	6
Ehrlichiosis	4	2	6	3	2	17
Rocky Mountain Spotted Fever	6	10	5	5	8	34
Total	14	12	12	10	13	61

*Babesiosis includes locally-acquired and travel-associated tickborne infections as well as transfusion-associated cases

ARBOVIRAL INFECTIONS



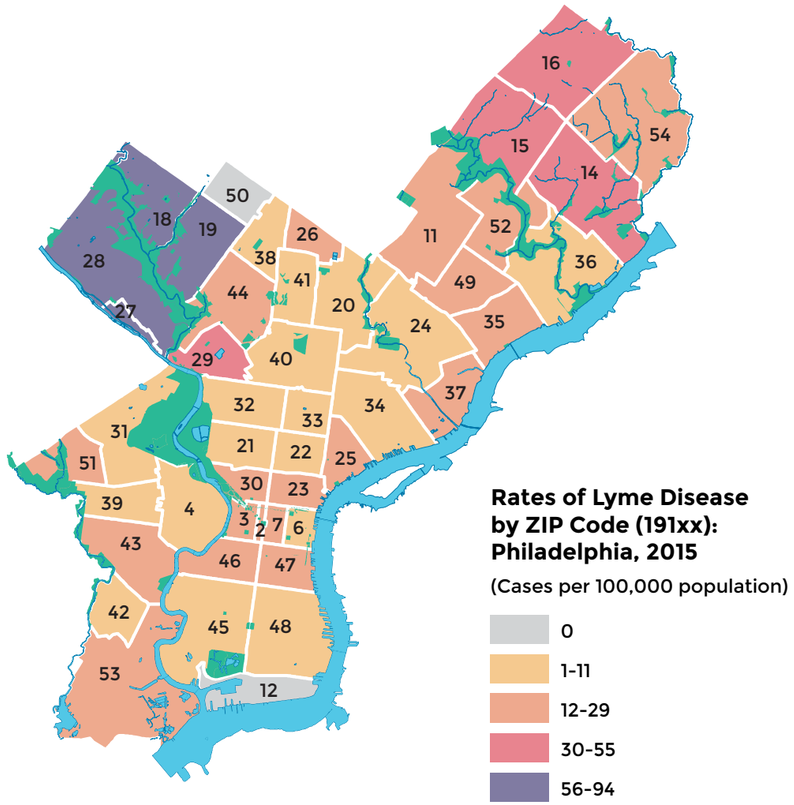
Travel-associated Arboviral Infections: Philadelphia, 2011-2015

	Chikungunya		Dengue	
	n= 44	%	n= 18	%
Female	34	77	10	56
Foreign Born	31	70	6	33
Hospitalized	9	20	13	72
Death	0	0	1	6
Median Age (Range) Years	42.5	(5-78)	44	(10-79)

*There were no Zika cases in 2015
* The following countries had more than 1 case with documented travel (n=53): Puerto Rico, Dominican Republic, India, Jamaica, and Haiti

LYME DISEASE

(*Borrelia burgdorferi*)

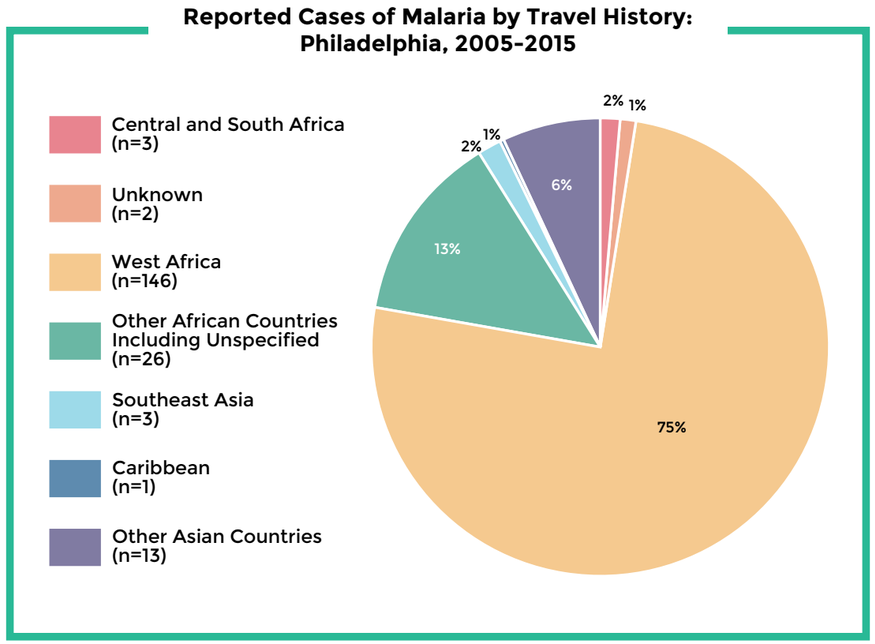


Number of Lyme Disease Reports by Age and Gender: Philadelphia, 2015

	0-14 Years		15-34 Years		35-60 Years		61+ Years		Total	
	n	%	n	%	n	%	n	%	n	%
Male	39	14.3	55	20.2	38	13.9	37	13.6	169	61.9
Female	16	5.9	34	12.5	27	9.9	27	9.9	104	38.1
Total	55	20.2	89	32.6	65	23.8	64	23.4	273	100

MALARIA

(*Plasmodia* ***spp.***)



WEST NILE VIRUS

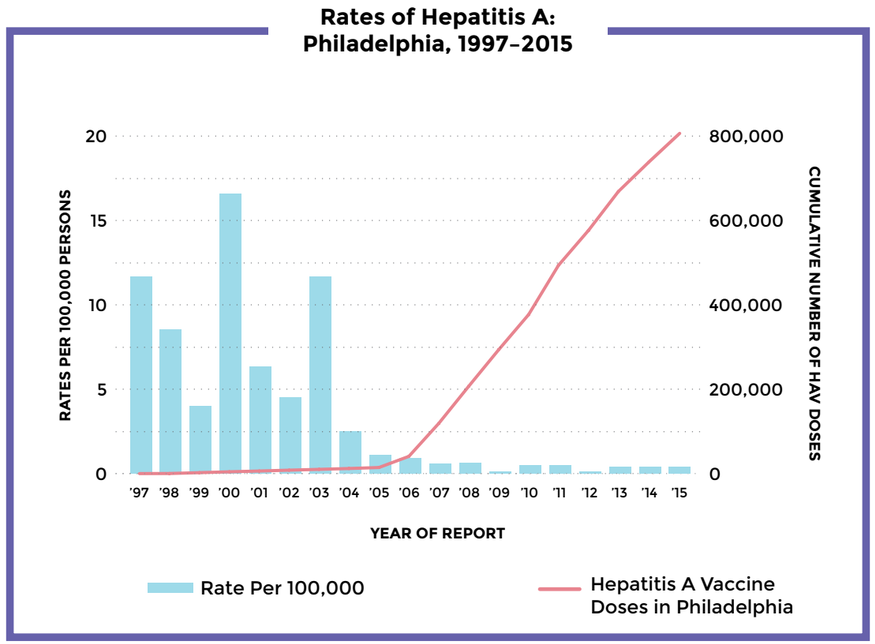
OF NOTE

During the 2015 season, **6 Philadelphia residents developed West Nile Virus (WNV) infections** (4 neuro-invasive WNV and 2 WNV fever). The neuro-invasive cases occuered in 3 adults >50 years of age and an immunocompromised 28-year old, and all requiered hospitalization. No cases were fatal. Cumulative WNV positivity in mosquitoes collected during the 2015 season was **higher** than previous years (19% vs. 3% - historic median).

VIRAL HEPATITIS
INFECTIONS

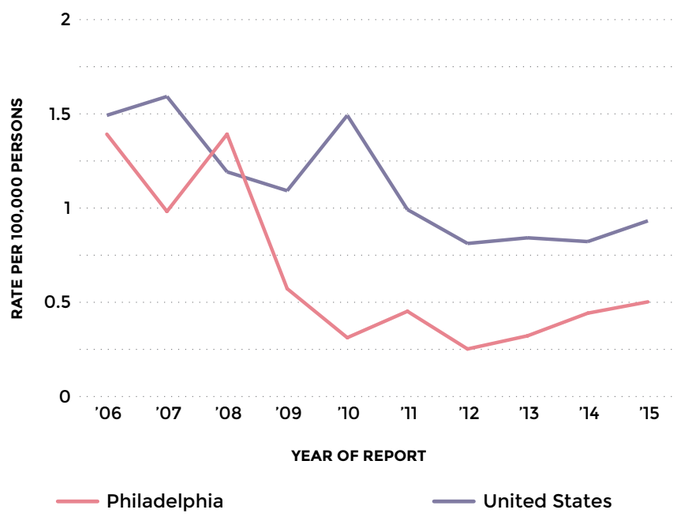
HEPATITIS A
HEPATITIS B-ACUTE
HEPATITIS B-CHRONIC
HEPATITIS B-PERINATAL
HEPATITIS C-CHRONIC

HEPATITIS A
(Hepatitis A virus)

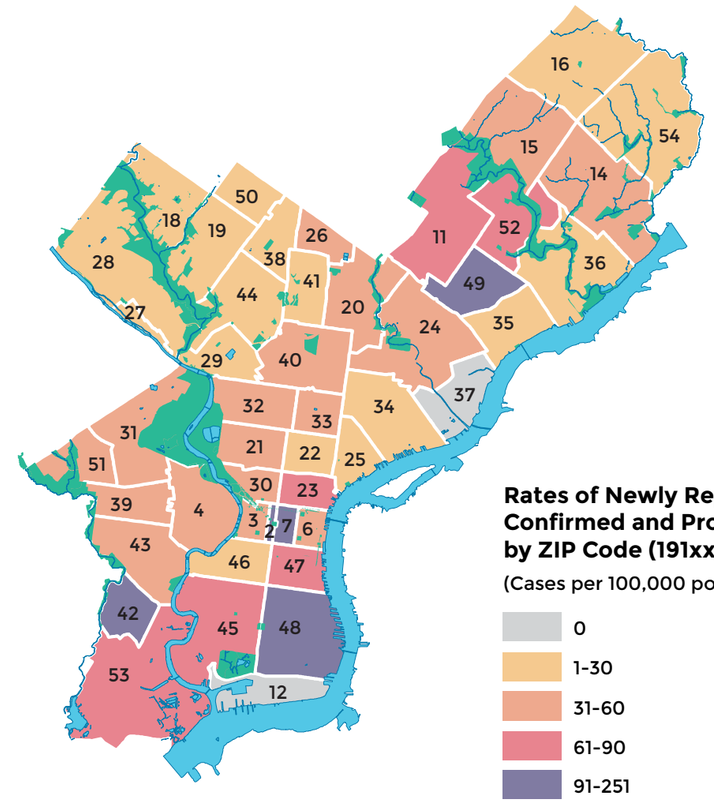


HEPATITIS B-ACUTE
(Hepatitis B virus)

Rates of Reported Acute Hepatitis B: Philadelphia and United States, 2006-2015



HEPATITIS B-CHRONIC
(Hepatitis B virus)



Rates of Newly Reported Chronic Confirmed and Probable HBV Infection by ZIP Code (191xx): Philadelphia, 2015

(Cases per 100,000 population)

- 0
- 1-30
- 31-60
- 61-90
- 91-251

Number of Newly-reported Chronic Hepatitis B Reports by Age and Gender: Philadelphia, 2015

	0-30 Years		31-45 Years		46-65 Years		66+ Years		Total*	
	n	%	n	%	n	%	n	%	n	%
Male	74	10.1	162	22.1	170	23.2	24	3.3	430	58.7
Female	79	10,8	126	17.2	83	11.3	14	1.9	302	41.3
Total	153	20.9	288	39.3	253	34.6	38	5.2	732*	100

*Missing 1

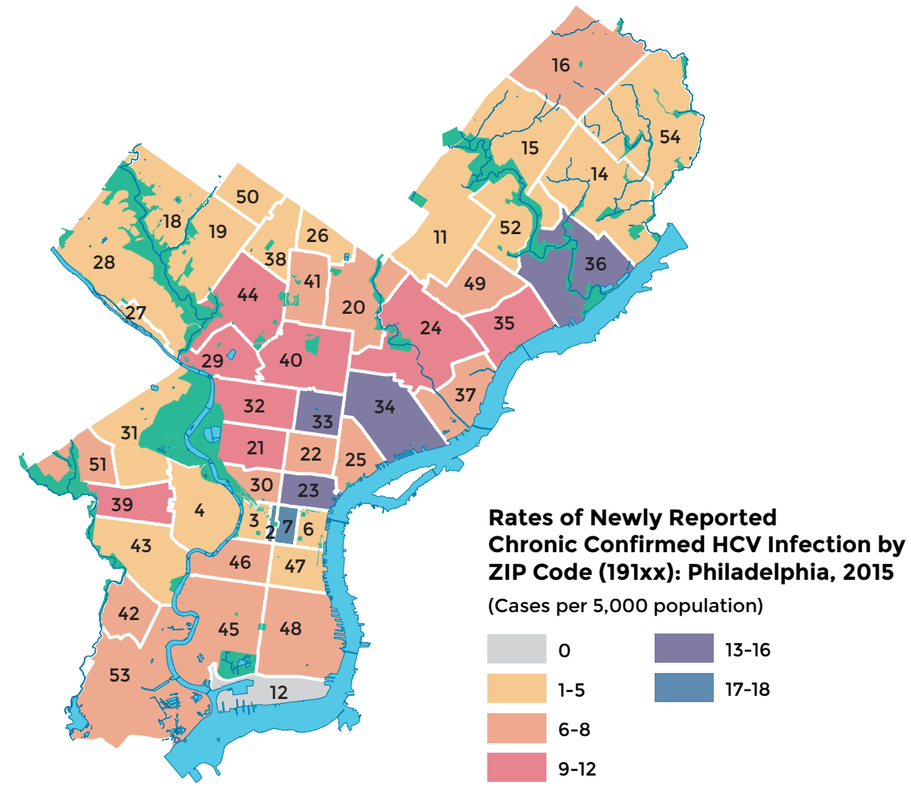
HEPATITIS B-PERINATAL
(Hepatitis B virus)

Comparison of Perinatal Hepatitis B: Philadelphia 2008-2014

	2008	2009	2010	2011	2012	2013	2014
Total Mother-Child Pairs Followed	162	173	161	131	171	153	164
Total Children Receiving HBIG Within One Calendar Day of Birth	162 (100%)	168 (97%)	159 (99%)	129 (98%)	154 (90%)	140 (92%)	23 (14%)
Total Children Receiving Birth HBV Within One Calendar Day of Birth	162 (100%)	171 (99%)	161 (100%)	129 (98%)	167 (98%)	150 (98%)	22 (23%)
Total Children Receiving 3 HBV Vaccines in 1 Year	153 (94%)	156 (90%)	140 (87%)	114 (87%)	167 (98%)	134 (88%)	139 (85%)
Children HBsAg+ at Screening	0	0	3 (2%)	0	1 (<1%)	0	0
Household Contacts Identified and Educated	167	182	130	79	-	-	-
Household Contacts Tested	117	115	86	75	-	-	-
Household Contacts Susceptible	17 [9]	6 [4]	8 [2]	10 [6]	-	-	-

Note: Due to the nature of the program, complete 2015 Perinatal Hepatitis B Prevention Program results will not be available until 2017.

HEPATITIS C-CHRONIC
(Hepatitis C virus)



Number of Newly-reported Chronic Hepatitis C Reports by Age and Gender: Philadelphia, 2015

	0-18 Years		19-30 Years		31-45 Years		46-65 Years		66+ Years		Total*	
	n	%	n	%	n	%	n	%	n	%	n	%
Male	13	0.6	152	6.5	315	13.6	842	36.3	115	5.0	1437	61.9
Female	18	0.8	175	7.5	205	8.8	376	16.2	110	4.7	884	38.1
Total	31	1.3	327	14.1	520	22.4	1218	52.5	225	9.7	2321	100

*Missing 33

REPORTING DISEASES & CONDITIONS

NOTIFIABLE DISEASE LIST
REPORT FORM

PHILADELPHIA DEPARTMENT OF PUBLIC HEALTH
DIVISION OF DISEASE CONTROL (DDC)

Phone: 215-685-6748 **Fax: 215-238-6947**

For after hours immediate reporting & consultation: 215-686-4514 – ask for Division of Disease Control on-call staff

Reportable Diseases and Conditions

Acquired Immunodeficiency Syndrome (AIDS/HIV) ‡
Amebiasis
Animal bites (wild/stray/domestic)
Anthrax *
Babesiosis
Botulism *
Brucellosis *
Campylobacteriosis
Chlamydia trachomatis including lymphogranuloma venereum
Chancroid
Cholera *
Creutzfeldt-Jakob Disease
Cryptosporidiosis
Cyclosporiasis
Dengue
Diphtheria *
Ehrlichiosis/Anaplasmosis
Encephalitis including all arboviruses *
Escherichia coli O157:H7 and Shiga toxin-producing bacteria *
Food poisoning *
Giardiasis
Gonococcal infections
Guillain-Barré Syndrome
Haemophilus influenzae, invasive disease *
Hantavirus Pulmonary Syndrome *
Hepatitis A
Hepatitis B
Hepatitis C
Hepatitis, other viral
Histoplasmosis
Influenza – novel influenza A *
Influenza – pediatric mortality and institutional outbreaks *
Lead poisoning †
Legionnaires' disease
Leprosy (Hansen's disease)
Leptospirosis
Listeriosis
Lyme disease
Malaria
Measles (rubeola) *
Melioidosis *
Meningitis (viral, fungal, bacterial)
Meningococcal infections *
Mumps
Novel coronavirus (SARS, MERS-CoV) *
Pertussis (whooping cough)
Plague *
Poliomyelitis *
Psittacosis (ornithosis)
Rabies *
Rickettsial diseases (including Rocky Mountain Spotted Fever, rickettsial pox, typhus fever)
Rubella (German Measles) & Congenital Rubella *
Salmonellosis
Shigellosis
Smallpox *
Staphylococcus aureus, vancomycin insensitive
Streptococcal disease, invasive group A
Streptococcal disease, invasive group B (neonatal)
Streptococcus pneumoniae, invasive disease
Syphilis
Tetanus
Toxic Shock Syndrome
Trichinosis
Tuberculosis §
Tularemia *
Typhoid (*Salmonella typhi* and *paratyphi*) *
Vibriosis
West Nile Virus *
Varicella, including zoster
Yellow Fever and other viral hemorrhagic fevers *
Yersiniosis

* Report suspected and confirmed cases within **24 hours**
‡ Report to AIDS Activities Coordinating Office at **215-685-4789**
† Report to Lead Poisoning Prevention at **215-685-2788**
§ Report to TB Control Program at **215-685-6744 or -6873**

All other cases should be reported within 5 days

All unusual disease clusters, disease outbreaks, and unusual disease occurrences should be reported immediately

To Report a Case to DDC, Call, Fax or Submit through PA-NEDSS the Following Information:
Patient Name | Condition | Age/DOB, Sex, Address & Phone | Clinician Name, Address & Phone | Laboratory Testing

For more information, please visit https://hip.phila.gov/xv

Effective 06/14

Notifiable Disease Case Report
(Confidential)

Philadelphia Department of Public Health
Division of Disease Control
Communicable Disease Control Program
500 S. Broad Street, Philadelphia, PA. 19146

Identification of Patient

Report Date *(Mo., Day, Yr.)*

Name *(Last, First, M.I.)*

Parent or caretaker (if applicable)

Address *(Number, Street, Apt #,City, Zip Code)*

Telephone (H) _____
(W)_____
(C) _____

DOB *(Mo., Day, Yr.)*

Age

Sex ☐ M ☐ F

Occupation

Name of Employer or School

Address *(Number, Street, City, Zip Code)*

Medical Information

Disease or Condition

Date of Onset *(Mo., Day, Yr.)*
(If animal bite ,Date it Occurred)

Diagnosis (check one)
☐ Clinical
☐ Lab confirmed

Fatal (check one)
☐ Yes
☐ No

Chief Symptoms / Complaints

Suspected source of Infection (if known)

If Case Hospitalized *(Name of Hospital)*

Admission Date

Discharge Date

Laboratory Information If Pertinent *(Attach Copies If Applicable)*

Name of Tests Done	Site/Source	Results	Dates Done

Animal Exposures

Parts of Body Bitten

Type of Animal

Breed of Animal

Current Location Of Animal *(Indicate if available for testing)*

Name of Owner

Address of Owner *(Number, Street, Apt #, City, Zip Code)*

Reporter Information

Name of Person Reporting Case

Reporter
☐ ICP ☐ ED ☐ Other_____

Phone

Reporting Institution

Address (Number, Street, City, Zip Code)

DO NOT WRITE IN AREA BELOW - FOR DEPARTMENT USE

Name *(Person Receiving Report)*

Method of reporting
☐ Phone ☐ Fax ☐ Mail ☐ Active Surveillance ☐ Other_____

Any unusual illness, disease clusters or possible outbreaks should be reported *immediately* by telephone.
Please fax all completed reports to 215-238-6947, or call 215-685-6748 to report case by phone.