

INTRODUCTION

OVERVIEW

This annual report provides an epidemiologic summary of conditions for healthcare providers. These conditions were reported to the Philadelphia Department of Public Health (PDPH) Division of Disease Control (DDC) in 2021. There are currently 76 medical conditions that health care providers or laboratories must report to the DDC (see page 61). The report highlights the most commonly reported conditions and those of public health importance. Data regarding cases of HIV/AIDS are reported separately by the Division of HIV Health (DHH).

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

CASE DEFINITION

A standard reporting case definition has been set for most reportable conditions by the Centers for Disease Control and Prevention (CDC) and the Council of State and Territorial Epidemiologists (CSTE). These case definitions may differ from the criteria used to make a clinical diagnosis.

Case definitions can be found at: https://www.cdc.gov/nndss/

HOW DDC CAN ASSIST HEALTH-CARE PROVIDERS

If you suspect a disease outbreak or that a patient is infected with a disease of urgent public health importance, DDC can facilitate diagnostic testing and assist with infection control and disease management. To speak with a medical specialist, please call 215-685-6748. For urgent after hours immediate reporting and consultation, please call 215-686-4514 and ask for the Division of Disease Control on-call staff.

LOCATION

STD testing and services at Health Center 1 and Tuberculosis Directly Observed Therapy (DOT) services at the Lawrence F. Flick Memorial Center are now both located at:

Constitution Health Plaza 1930 S Broad St Philadelphia, PA 19145

INTRODUCTION

Through June 2021, the Philadelphia Department of Public Health continued to maintain several citywide, non-pharmaceutical interventions to mitigate the spread of COVID-19, including restrictions on non-essential, in-person businesses and activities, indoor capacity limits, and masking mandates. Although these local mitigation strategies along with measures implemented at the state and federal level aimed to limit transmission of COVID-19, the strategies also likely decreased community transmission of other communicable diseases. In addition, the impact of the COVID-19 pandemic on healthcare access for other acute illnesses and preventative care may also have decreased the identification and diagnosis of communicable diseases among City residents during 2021. Case counts could be lower as a result of COVID-19 mitigation strategies or access to healthcare when restrictions were in place.

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OVERVIEW

DISEASE REPORTING TRENDS

Reports of Communicable Diseases Per Year: Philadelphia, 2012-2021

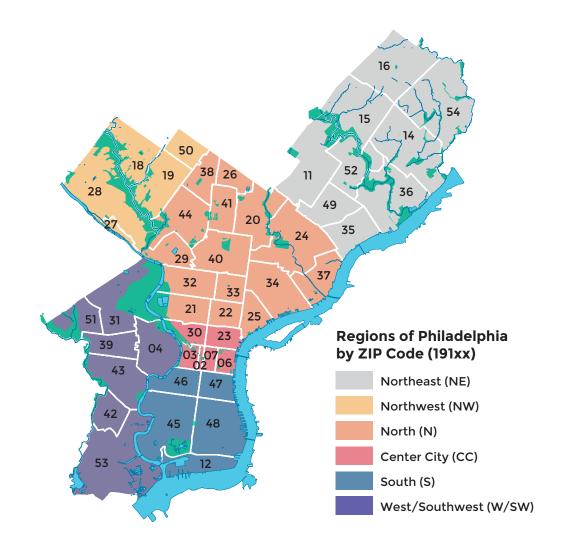
| | 2012 | 2013 | 2014 | 2015 | 2016 | 2017 | 2018 | 2019 | 2020 | 2021 |
|---|--------------------------|---------------------------|--------------------------|--------------------------|--------------------------|--------------------------|---------------------|--------------------------|-------------------------|--------------------------|
| Amebiasis | 11 | 13 | 15 | 8 | 2 | 13 | 14 | 18 | 3 | 9 |
| Animal Bites/Exposures | 1,598 | 1,586 | 1,644 | 1,718 | 1,722 | 1,574 | 1,486 | 1,547 | 1,103 | 1,479 |
| Anthrax | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Babesiosis | 0 | 1 | 1 | 3 | 2 | 5 | 4 | 4 | 3 | 3 |
| Botulism | 2 | 2 | 1 | 0 | 3 | 3 | 1 | 0 | 0 | 0 |
| Brucellosis | 1 | 1 | 0 | 1 | 0 | 1 | 0 | 0 | 1 | 0 |
| Campylobacteriosis | 182 | 103 | 167 | 211 | 203 | 233 | 270 | 274 | 197 | 261 |
| Carbapenem-resistant Enterobacteriaceae (CRE) | | - | | - | | | 308 | 234 | 234 | 151 |
| Chlamydia trachomatis | 20,803 | 19,570 | 18,935 | 19,169 | 19,959 | 21,119 | 20,206 | 20,354 | 15,834 | 17,165 |
| Cholera | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Cryptosporidiosis | 18 | 58 | 30 | 26 | 48 | 51 | 38 | 31 | 24 | 35 |
| Cyclosporiasis | 1 | 0 | 1 | 3 | 4 | 3 | 0 | 3 | 2 | 6 |
| Dengue Fever | 1 | 11 | 0 | 5 | 3 | 0 | 1 | 13 | 1 | 0 |
| Diphtheria | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Escherichia coli, Shiga Toxin-Producing (STEC) | 12 | 6 | 10 | 11 | 25 | 19 | 28 | 41 | 27 | 25 |
| Giardiasis | 60 | 76 | 65 | 61 | 58 | 66 | 59 | 75 | 47 | 55 |
| Gonorrhea | 7,293 | 6,303 | 5,961 | 6,260 | 6,957 | 7,288 | 7,205 | 7,043 | 7,302 | 7,824 |
| Guillian-Barre Syndrome | 0 | 1 | 1 | 4 | 3 | 7 | 0 | 1 | 1 | 1 |
| Haemophilus influenzae [Type B] | 39 [1] | 26 [0] | 23 [1] | 24 [2] | 36 [3] | 49 [1] | 27[0] | 37 [1] | 24[0] | 35[0] |
| Hansen's Disease (Leprosy) | 1 | 0 | 0 | - 1 | 0 | - 1 | 1 | 0 | 0 | 0 |
| Hepatitis A | 2 | 6 | 6 | 6 | 9 | 19 | 21 | 454 | 25 | 138 |
| Hepatitis B, Acute | 4 | 5 | 7 | 8 | 5 | 10 | 13 | 44 | 18 | 13 |
| Hepatitis C, Acute | 20 | 42 | 67 | 79 | 130 | 155 | 183 | 147 | 121 | 140 |
| Histoplasmosis | 1 | 0 | 0 | 2 | 1 | 3 | 2 | - 1 | 2 | 4 |
| Legionellosis | | | | | | 66 | 91 | 56 | 39 | 46 |
| | 29 | 61 | 42 | 53 | 34 | 00 | 91 | 30 | 33 | .0 |
| Leptospirosis | 29 1 | 61 0 | 0 | 0 | 0 | 0 | 1 | 1 | 3 | 0 |
| | | | | | | | | | | |
| Leptospirosis | 1 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 3 | 0 |
| Leptospirosis Listeriosis | 1 6 | 0 10 | 0 3 | 0 | 0 2 | 0 | 1 8 | 1 2 | 3 4 | 0 8 |
| Leptospirosis Listeriosis Lyme Disease | 1 6 191 | 0 10 189 | 0 3 140 | 0 2 252 | 0 2 236 | 0 0 264 | 1 8 260 | 1 2 181 | 3 4 143 | 0 8 124 |
| Leptospirosis Listeriosis Lyme Disease Malaria | 1 6 191 13 | 0 10 189 21 | 0 3 140 30 | 0 2 252 18 | 0 2 236 22 | 0 0 264 30 | 1 8 260 40 | 1 2 181 45 | 3 4 143 7 | 0 8 124 31 |
| Leptospirosis Listeriosis Lyme Disease Malaria Measles | 1 6 191 13 2 | 0 10 189 21 0 | 0 3 140 30 0 | 0 2 252 18 0 | 0 2 236 22 0 | 0 0 264 30 0 | 1 8 260 40 | 1 2 181 45 0 | 3 4 143 7 0 | 0 8 124 31 0 |

DISEASE REPORTING TRENDS (Cont.)

Reports of Communicable Diseases Per Year: Philadelphia, 2012-2021 (Cont.)

| | 2012 | 2013 | 2014 | 2015 | 2016 | 2017 | 2018 | 2019 | 2020 | 2021 |
|--|--------|--------|--------|--------|--------|---------|--------|--------|--------|--------|
| Mumps | 4 | 3 | 0 | 1 | 5 | 8 | 24 | 259 | 5 | 3 |
| Pertussis | 268 | 86 | 127 | 111 | 101 | 107 | 72 | 93 | 32 | 16 |
| 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 | 12 | 8 | 10 | 8 | 5 | 7 | 3 | 8 | 1 | 5 |
| Rubella, Including Congenital Rubella Syndrome | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Salmonellosis, Excluding Typhoid | 305 | 284 | 229 | 237 | 188 | 219 | 213 | 244 | 175 | 211 |
| Shigellosis | 48 | 66 | 66 | 90 | 311 | 91 | 92 | 86 | 78 | 91 |
| Staphylococcus aureus, vancomycin insensitive | О | 0 | 1 | 0 | О | 0 | 4 | 1 | 0 | 1 |
| Streptococcus Pneumoniae, Invasive | 103 | 149 | 101 | 119 | 136 | 161 | 157 | 197 | 123 | 127 |
| Streptococcus, Invasive gp. A [TSS] | 61 [0] | 56 [0] | 95 [0] | 90 [0] | 78 [1] | 113 [0] | 156[0] | 181[0] | 179[0] | 263[0] |
| Syphilis-Primary & Secondary | 269 | 278 | 308 | 314 | 428 | 459 | 408 | 470 | 511 | 586 |
| Syphilis-Congenital | 5 | 1 | 4 | 4 | 5 | 6 | 3 | 6 | 6 | 10 |
| Syphilis-Total | 798 | 962 | 894 | 916 | 927 | 1,256 | 1,214 | 1,262 | 1,374 | 1,834 |
| Tetanus | О | 0 | О | 0 | О | 0 | 0 | 0 | 0 | 0 |
| Toxic Shock Syndrome, Staphylococcal | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Tuberculosis | 86 | 89 | 78 | 72 | 74 | 75 | 78 | 74 | 61 | 49 |
| Tularemia | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Typhoid Fever | 2 | 1 | 5 | 3 | 1 | 3 | 1 | 1 | 4 | 0 |
| Varicella (Chicken Pox only) | 118 | 167 | 118 | 123 | 111 | 104 | 113 | 77 | 20 | 35 |
| Vibrio SPP. Other | 0 | 0 | 4 | 6 | 7 | - 11 | 13 | 11 | 6 | 17 |
| West Nile Virus | 9 | 3 | 5 | 0 | 4 | 3 | 17 | 3 | 4 | 10 |
| Yellow Fever | 0 | 0 | 0 | 5 | 0 | 0 | 0 | 0 | 0 | 1 |

REGIONAL OVERVIEW



Total Population Count by Age and Region: Philadelphia, 2010

| | NE | NW | N | cc/s | W/SW | Total |
|-----------|---------|---------|---------|---------|---------|-----------|
| Age | | | | | | |
| 0-4 Yrs | 23,127 | 5,055 | 41,227 | 13,888 | 17,760 | 101,057 |
| 5-17 Yrs | 56,820 | 12,189 | 103,578 | 26,046 | 44,165 | 242,798 |
| 18-34 Yrs | 86,479 | 29,154 | 149,432 | 95,613 | 89,090 | 449,768 |
| 35-60 Yrs | 122,363 | 34,069 | 171,370 | 81,045 | 81,124 | 489,971 |
| >60 Yrs | 67,760 | 20,906 | 69,859 | 43,269 | 40,698 | 242,492 |
| Total | 356,549 | 101,373 | 535,466 | 259,861 | 272,837 | 1,526,086 |

*Data according to the U.S. Census Bureau

REGIONAL OVERVIEW (Cont.)

Counts of Disease With Sufficient Burden*: Philadelphia, 2021

| | NE | NW | N | CC/S | w/sw | Missing | Total |
|---|-------|-----|-------|-------|-------|---------|--------|
| | n | n | n | n | n | n | n |
| Campylobacteriosis | 58 | 15 | 71 | 57 | 40 | 20 | 261 |
| Carbapenem-resistant Enterobacteriaceae | 36 | 7 | 42 | 20 | 46 | 78 | 151 |
| Chlamydia | 2,081 | 625 | 7,914 | 1,895 | 3,869 | 781 | 17,165 |
| Giardiasis | 8 | 5 | 14 | 13 | 12 | 3 | 55 |
| Gonorrhea | 719 | 257 | 3,635 | 1,002 | 1,875 | 336 | 7,824 |
| Hepatitis C, Chronic (RNA +) | 277 | 35 | 458 | 134 | 137 | 13 | 1,054 |
| Influenza (Hospitalized) | 44 | 5 | 51 | 18 | 12 | 8 | 138 |
| Lyme Disease | 43 | 17 | 24 | 27 | 7 | 6 | 124 |
| Meningitis, Aseptic | 1 | 2 | 1 | 0 | 3 | 1 | 8 |
| Pertussis | 5 | 2 | 2 | 2 | 5 | 0 | 16 |
| Salmonellosis | 27 | 11 | 75 | 26 | 59 | 13 | 211 |
| Shigellosis | 1 | 0 | 28 | 28 | 28 | 6 | 91 |
| Streptococcus Pneumoniae, Invasive | 17 | 8 | 51 | 17 | 22 | 12 | 127 |
| Streptococcus, Invasive gp A | 32 | 5 | 136 | 39 | 29 | 22 | 263 |
| Syphilis-Early Latent | 90 | 22 | 308 | 126 | 166 | 17 | 729 |
| Syphilis-Primary & Secondary | 55 | 17 | 253 | 118 | 130 | 13 | 586 |
| Tuberculosis | 11 | 1 | 22 | 9 | 6 | 0 | 49 |
| Varicella (Chicken Pox) | 5 | 0 | 20 | 3 | 7 | 0 | 35 |

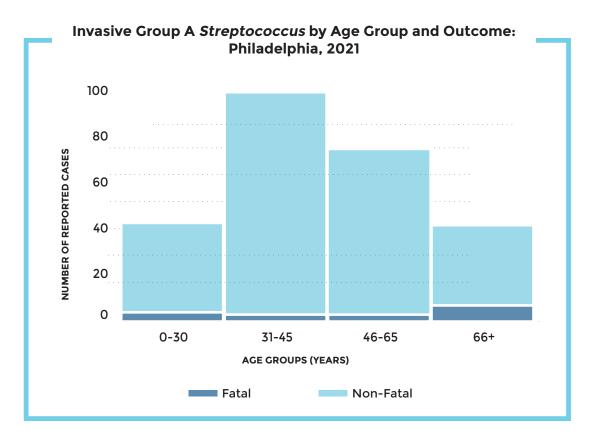
^{*}Public health deems that this reportable disease still poses a serious risk to the population by reason of their contagiousness, severity, or frequency.

CENTRAL NERVOUS SYSTEM

INFECTIONS AND SEPSIS

GROUP A STREPTOCOCCUS
HAEMOPHILUS INFLUENZAE
LISTERIOSIS
STREPTOCOCCUS PNEUMONIAE

GROUP A STREPTOCOCCUS



OF NOTE

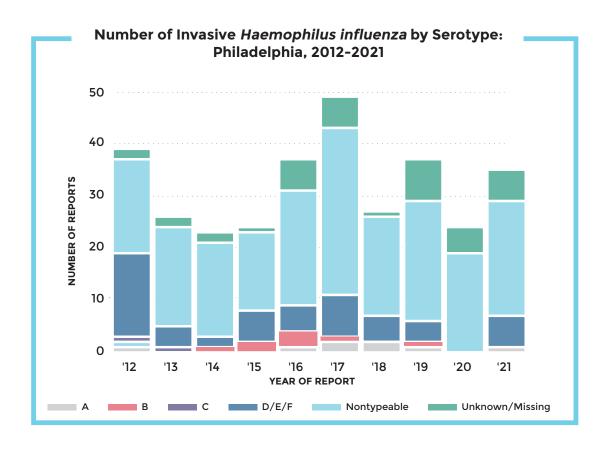
PDPH identified 263 confirmed cases of invasive Group A Streptococcal (GAS) infection in 2021; 3 of which were associated with long term care facilities (LTCFs). PDPH worked with these facilities to enhance infection control precautions. In addition, the number of invasive (GAS) cases who reported recent injection drug use has greatly increased compared to previous years (160 in 2021 compared to an average of 65 from 2018-2020).

Number of Invasive *Group A Streptococcus* by Age and Gender: Philadelphia, 2021

| | | 30 ears | 31-45 Years | | 46-65 Years | | | 6+ ears | Total* | | |
|--------|----|------------|-----------------------|------|-----------------------|------|----|------------|--------|------|--|
| | n | % | n | % | n | % | n | % | n | % | |
| Male | 27 | 10.3 | 64 | 24.4 | 58 | 22.1 | 24 | 9.2 | 173 | 66.0 | |
| Female | 16 | 6.1 | 37 | 14.1 | 18 | 6.9 | 18 | 6.9 | 89 | 34.0 | |
| Total | 43 | 16.4 | 101 | 38.6 | 76 | 29.0 | 42 | 16.0 | 262 | 100 | |
| | | | | | | | | | | | |

*Unknown=1

HAEMOPHILUS INFLUENZAE

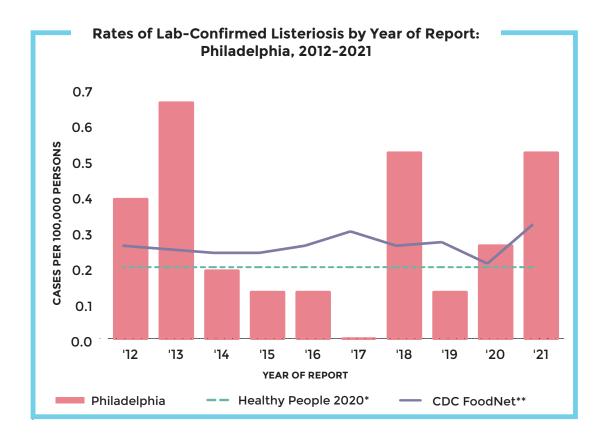


Number of Invasive *Haemophilus influenza* by Age: Philadelphia, 2021



LISTERIOSIS

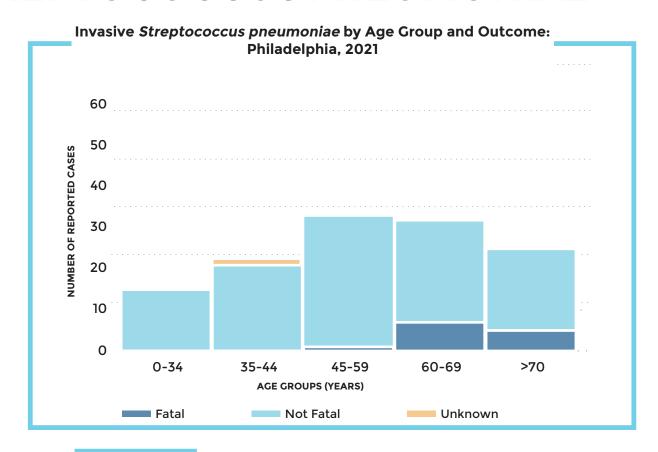
(Listeria monocytogenes)



^{*} https://www.cdc.gov/nchs/healthy_people/hp2020.htm

^{**}CDC FoodNet is the Foodborne Diseases Active Surveillance Network, utilizing sentinel data to monitor trends in foodborne diseases

STREPTOCOCCUS PNEUMONIAE



OF NOTE

Among five invasive pneumococcal cases 14 years and younger, 4 (80%) cases were up to date on the pneumococcal conjugate vaccine and 4 cases had serotyping completed. One of the pediatric cases was attributable to a serotype (19F) included in the vaccine product received (Pneumococcal Conjugate Vaccine 13). All other isolates were non-vaccine serotypes.

Among 127 cases in 2021, isolates from 121 cases had antibiotic resistance testing. Of which, 27 (21%) were fully or intermediately resistant to at least one antimicrobial agent currently approved for treatment pneumococcal infection.

Number of Invasive *Streptococcus pneumoniae* by Age and Gender: Philadelphia, 2021

| | 0-34 Years n % 9 7.0 6 4.7 | | | | | -59 ears | | -69 _{ears} | | O+ ears | Total | | |
|--------|------------------------------------|------|----|------|----|-------------|----|------------------------|----|-------------------|-------|------|--|
| | n | % | n | % | n | % | n | % | n | % | n | % | |
| Male | | 7.0 | 13 | 10.2 | 26 | 20.5 | 24 | 18.9 | | 12.6 | 88 | 69.2 | |
| Female | 6 | 4.7 | 9 | 7.0 | 7 | 5.5 | 8 | 6.3 | 9 | 7.1 | 39 | 30.7 | |
| Total | 15 | 11.8 | 22 | 17.3 | 33 | 26.0 | 32 | 25.2 | 25 | 19.7 | 127 | 100 | |
| | | | | | | | | | | | | | |

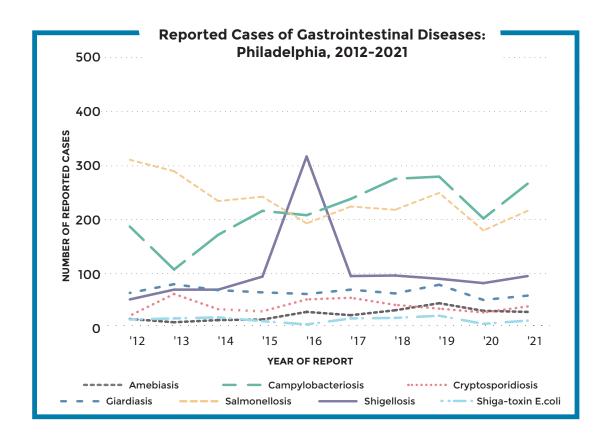
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GASTRO-INTESTINAL

INFECTIONS

OVERVIEW
CAMPYLOBACTERIOSIS
CRYPTOSPORIDIOSIS
GIARDIASIS
SALMONELLOSIS
SHIGELLOSIS

OVERVIEW



OVERVIEW (Cont.)

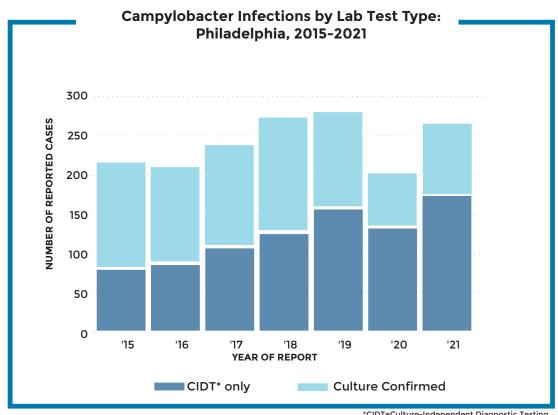
Antibiotic Resistance of Selected Enteric Pathogens: Philadelphia, 2021

| Pathogen | Antibiotics Tested | Total Patients | Resi | stant | Interm | ediate |
|---------------|---|-------------------|------|-------|--------|--------|
| | Ciprofloxacin Erythromycin Ampicillin Ceftriaxone Ciprofloxacin Levofloxacin Trimethoprim- Sulfamethoxazole Ampicillin Ceftriaxone Ciprofloxacin Gentamicin Levofloxacin Trimethoprim- Sulfamethoxazole | Tested | n | % | n | % |
| Campylobacter | Ciprofloxacin Erythromycin Ampicillin Ceftriaxone Ciprofloxacin Levofloxacin Trimethoprim- Sulfamethoxazole Ampicillin Ceftriaxone Ciprofloxacin Gentamicin Levofloxacin Trimethoprim- | 22 | 5 | 23 | 0 | 0 |
| Campyionacter | Ciprofloxacin Erythromycin Ampicillin Ceftriaxone Ciprofloxacin Levofloxacin Trimethoprim- Sulfamethoxazole Ampicillin Ceftriaxone Ciprofloxacin Centamicin Levofloxacin Trimethoprim- | 22 | 2 | 9 | 0 | 0 |
| | | 89 | 5 | 6 | 0 | 0 |
| | Ceftriaxone | 67 | 1 | 1 | 1 | 1 |
| Salmonella | Ciprofloxacin | 56 | 1 | 2 | 7 | 13 |
| | Levofloxacin | 31 | 0 | 0 | 9 | 29 |
| | Trimethoprim- Sulfamethoxazole | 89 | 2 | 2 | 0 | 0 |
| | Ampicillin | 38 | 31 | 82 | 0 | 0 |
| | Ceftriaxone | 27 | 4 | 15 | 0 | 0 |
| | Ciprofloxacin | 38 | 6 | 16 | 2 | 5 |
| Shigella | Gentamicin | 20 | 11 | 55 | 0 | 0 |
| | Levofloxacin | 21 | 3 | 14 | 10 | 48 |
| | Trimethoprim- Sulfamethoxazole Ampicillin Ceftriaxone Ciprofloxacin Gentamicin Levofloxacin Trimethoprim- | 38 | 32 | 84 | 0 | 0 |

Results of antimicrobial susceptibility testing show if bacteria are susceptible (can be treated with the drug), intermediate (may be treatable with the drug, but may require adjusted dosage), or resistant (cannot be treated with drug). https://www.cdc.gov/narms/resources/glossary.html#:~:text=Results%20of%20antimicrobial%20susceptibility%20testing,cannot%20be%20treated%20with%20drug).

CAMPYLOBACTERIOSIS

(Campylobacter spp.)



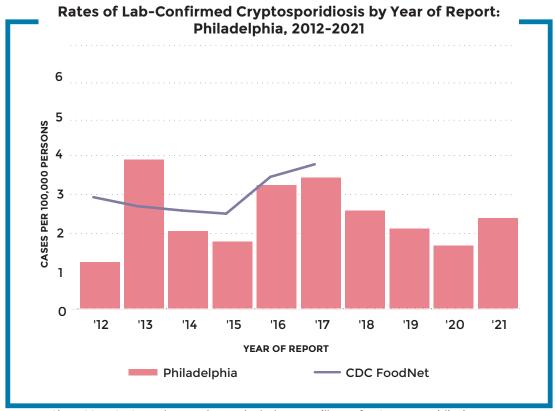
*CIDT=Culture-Independent Diagnostic Testing

Number of Campylobacteriosis Reports by Age and Gender: Philadelphia, 2021

| | 0 Ye | -4 ears | | 24 ars | | -49 ears | | -65 ears | | 6+ ears | То | tal |
|--------|----------------|-------------------|----|------------------|----|-------------|----|-------------|----|------------|-----|------|
| | n | % | n | % | n | % | n | % | n | % | n | % |
| Male | 27 | 10.3 | 22 | 8.4 | 46 | 17.6 | 25 | 9.6 | 20 | 7.6 | 140 | 53.6 |
| Female | 21 | 8.1 | 16 | 6.1 | 30 | 11.5 | 27 | 10.3 | 27 | 10.3 | 121 | 46.4 |
| Total | 48 | 18.4 | 38 | 14.6 | 76 | 29.1 | 52 | 19.9 | 47 | 18.0 | 261 | 100 |
| | | | | | | | | | | | | |

CRYPTOSPORIDIOSIS

(Cryptosporidium spp.)



*Since 2017, CDC FoodNet no longer includes surveillance for Cryptosporidiosis.

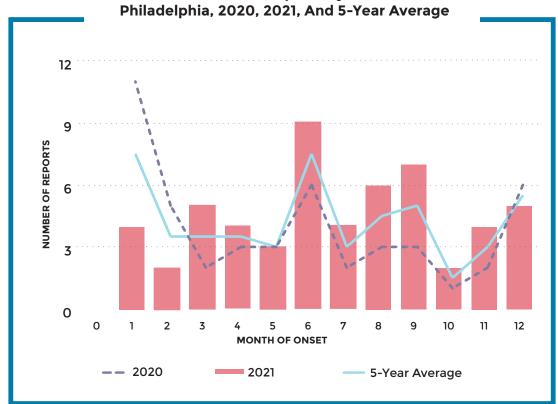
Number of Cryptosporidiosis Reports by Age: Philadelphia, 2021

| | 0 - | -18 ears | 19. Ye | - 35 ears | 3 (| 6+ ears | Total Years | | |
|-------|------------|-------------|-----------|---------------------|------------|------------|----------------|-----|--|
| | n % | | n | % | n | % | n % | | |
| Total | 11 | 31.4 | 11 | 31.4 | 13 | 37.1 | 35 | 100 | |
| | | | | | | | | | |

GIARDIASIS

(Giardia lamblia)



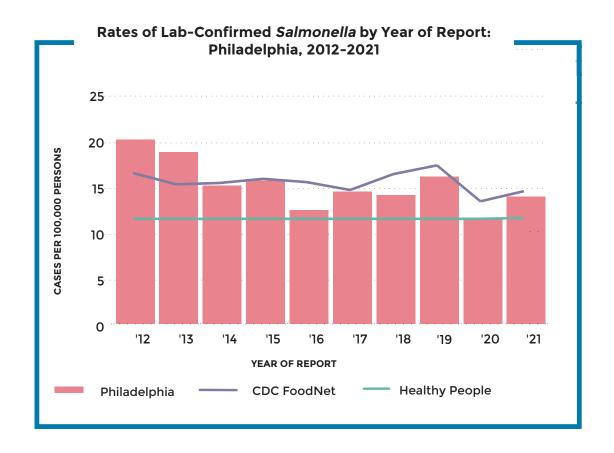


Number of Giardiasis Reports by Age: Philadelphia, 2021

| | O . | -19 ears | 20 Ye | -34 ears | 35 Ye | -54 ears | 5 Ye | 5+ ears | То | tal |
|-------|------------|-------------|----------|--------------------|----------|-------------|---------|------------|----|-----|
| | n | % | n | % | n | % | n | % | n | % |
| Total | 12 | 21.8 | 21 | 38.2 | 11 | 20.0 | 11 | 20.0 | 55 | 100 |
| | | | | | | | | | | |

SALMONELLOSIS

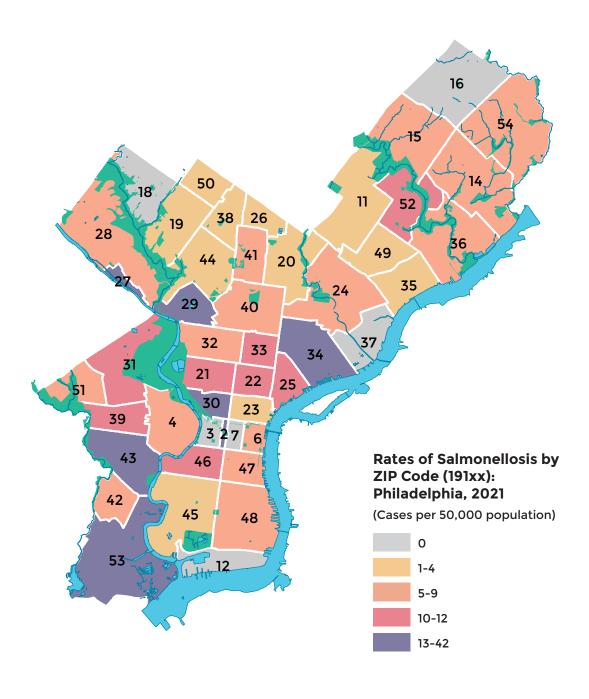
(Salmonella spp.)



Number of Salmonellosis Reports by Age and Gender: Philadelphia, 2021

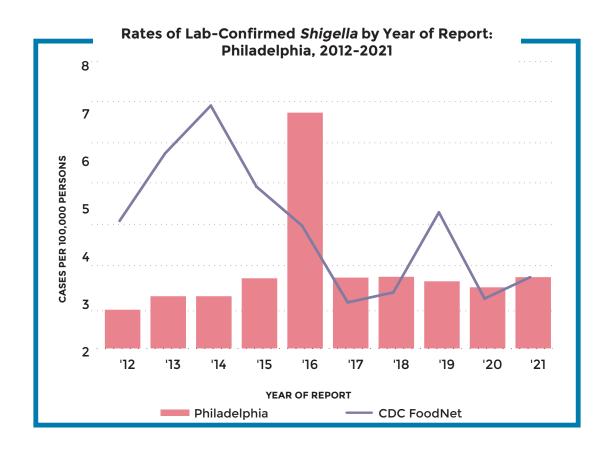
| | 0-4 Years | | 5-17 Years | | 18-34 Years | | | - 59 ears | 60+ Years | | Total | | |
|--------|--------------|------|----------------------|------|-----------------------|------|----|---------------------|--------------|------|-------|------|--|
| | n | % | n | % | n | % | n | % | n | % | n | % | |
| Male | 30 | 14.2 | 16 | 7.6 | 9 | 4.3 | 27 | 12.8 | 21 | 9.6 | 103 | 48.8 | |
| Female | 16 | 7.6 | 15 | 7.1 | 27 | 12.8 | 21 | 10.0 | 29 | 13.7 | 108 | 51.2 | |
| Total | 46 | 21.8 | 31 | 14.7 | 36 | 17.1 | 48 | 22.8 | 50 | 23.7 | 211 | 100 | |
| | | | | | | | | | | | | | |

SALMONELLOSIS (Cont.)



SHIGELLOSIS

(Shigella spp.)



Number of Shigellosis Reports by Age: Philadelphia, 2021

| | 0- Ye | - 15 ears | 16-30 Years | | 31-45 Years | | 46-60 Years | | 61+ Years | | Total | |
|-------|-----------------|---------------------|-----------------------|------|-----------------------|------|-----------------------|------|---------------------|-----|-------|-----|
| | n | % | n | % | n | % | n | % | n | % | n | % |
| Total | 15 | 16.5 | 14 | 15.4 | 38 | 41.8 | 16 | 17.6 | 8 | 8.8 | 91 | 100 |
| | | | | | | | | | | | | |

HEALTHCARE -ASSOCIATED

INFECTIONS

OVERVIEW

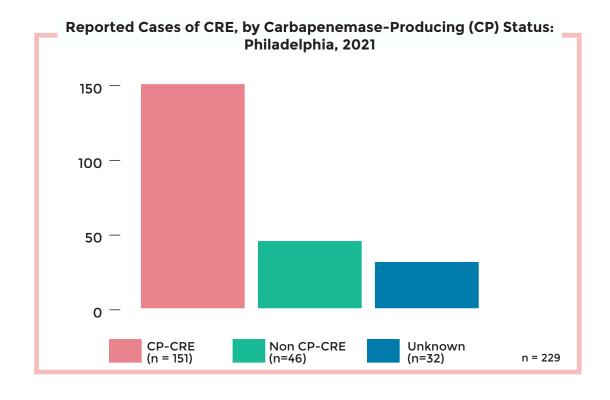
OF NOTE

The Healthcare-Associated Infections/Antimicrobial Resistance (HAI/AR Program), established in late 2016, is dedicated to the prevention and control of Healthcare-Associated Infections (HAIs) and Antimicrobial Resistance (AR). This Program serves as a resource to the Philadelphia healthcare community and public with the goal of improving healthcare safety and quality in the city of Philadelphia.

The HAI/AR Program, works on topics including, but not limited to: infections transmitted in healthcare settings and associated with healthcare; drug-resistant organism surveillance, prevention, and containment; infection prevention and control assessments and guidance in healthcare settings; healthcare worker (HCW) safety, including HCW exposures and immunization policies, and infection control education; antimicrobial stewardship in healthcare settings; antibiotic education for the general public.

HEALTHCARE-ASSOCIATED INFECTIONS 2021

CARBAPENEM-RESISTANT ENTEROBACTERIACEAE (CRE)



CARBAPENEM-RESISTANT ENTEROBACTERIACEAE (CRE)

| Genus Species | n (%) | Total CP-CRE | Mechanism of Resistance (n) | | | | | | | | | |
|--------------------------|---------|-----------------|-----------------------------|------|------|------|---------|--|--|--|--|--|
| | | CP-CRE | KPC* | NDM* | IMP* | VIM* | OXA-48* | | | | | |
| Klebsiella pneumoniae | 98 (43) | 75 | 70 | 3 | | · | 2 | | | | | |
| Enterbacter cloacae | 39 (17) | 19 | 17 | 2 | | · | · | | | | | |
| Escherichia coli | 40 (17) | 25 | 14 | 11 | | | 1 | | | | | |
| Enterobacter aerogenes | 12 (5) | 2 | 2 | | · | · | · | | | | | |
| Serratia marcesens | 3 (1) | 1 | 1 | | | | | | | | | |
| Citrobacter freundii | 9 (4) | 8 | 6 | 3 | | · | · | | | | | |
| Klebsiella oxytoca | 8 (3) | 5 | 4 | 2 | · | · | · | | | | | |
| Citrobacter koseri | 2 (1) | 2 | 2 | · | · | · | · | | | | | |
| Other Citrobacter spp | 2 (1) | 1 | 1 | · | · | · | · | | | | | |
| Citrobacter amalonaticus | 1 (0) | 1 | 1 | | | | | | | | | |
| Other Enterobacteriaceae | 2 (1) | 1 | 1 | | · | · | · | | | | | |
| Raoultella Spp. | 3 (1) | 2 | 1 | 1 | | | | | | | | |
| Total | 229 | 151 | 121 | 29 | | | 3 | | | | | |

^{*}KPC = Klebsiella pneumoniae carbapenemase

^{*}NDM = New Delhi metallo-ß-lactamase

^{*}IMP = Imipenemase metallo-ß-lactamase

^{*}VIM = Verona integron-encoded metallo-ß-lactamase

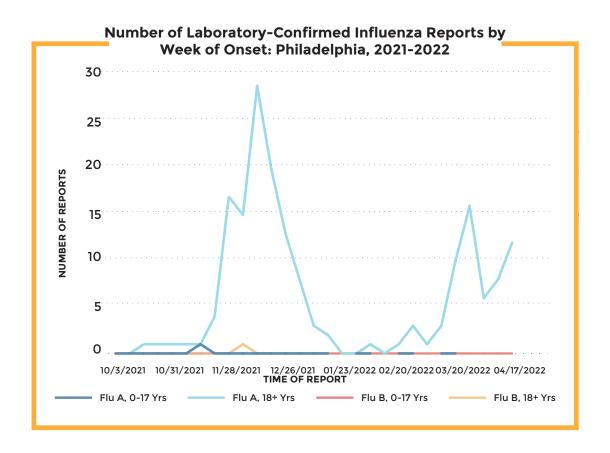
^{*}OXA-48 Like = Oxacillinase-48 like

RESPIRATORY

INFECTIONS

INFLUENZA LEGIONELLOSIS TUBERCULOSIS

INFLUENZA



Number of Hospitalized Influenza Reports by Age and Region: Philadelphia, 2020-2021

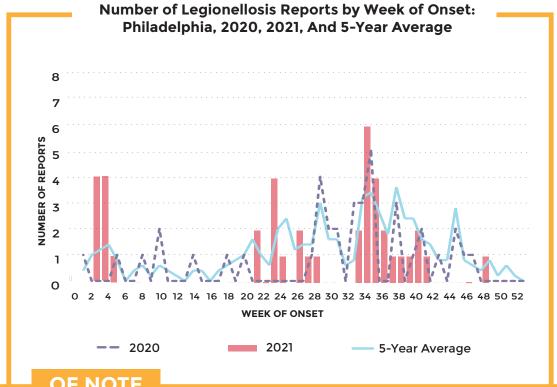
| | NE | | NW | | N | | cc | | S | | W/SW | | Total | |
|-----------|------|------|------|-----|------|------|------|-----|-----|-----|------|------|-------|------|
| | n | % | n | % | n | % | n | % | n | % | n | % | n | % |
| Age | | | | | | | | | | | | | | |
| 0-4 Yrs | <10 | | <10 | | <10 | | <10 | | <10 | | <10 | | 25 | 3.0 |
| 5-17 Yrs | <10 | | <10 | | 12 | | <10 | | <10 | | <10 | | 31 | 3.7 |
| 18-44 Yrs | 24 | 2.9 | <10 | | 74 | 8.8 | <10 | | 12 | 1.3 | 44 | 5.2 | 165 | 19.6 |
| 45-64 Yrs | 42 | 5.0 | n | 1.3 | 118 | 14.0 | 14 | 1.7 | 22 | 2.6 | 81 | 9.6 | 288 | 34.2 |
| 65+ Yrs | 80 | 9.5 | 16 | 1.9 | 90 | 10.7 | 15 | 1.8 | 31 | 3.7 | 101 | 22.0 | 333 | 39.6 |
| Total | 156 | 18.5 | 34 | 4.0 | 303 | 36.0 | 38 | 4.5 | 74 | 8.8 | 237 | 28.2 | 842 | |
| Rate* | 43.8 | | 33.5 | | 56.5 | | 43.1 | | ** | | 86.8 | | | |

*Rate per 100,000

^{**}CC/S combined

LEGIONELLOSIS

(Legionella pneumophila)



OF NOTE

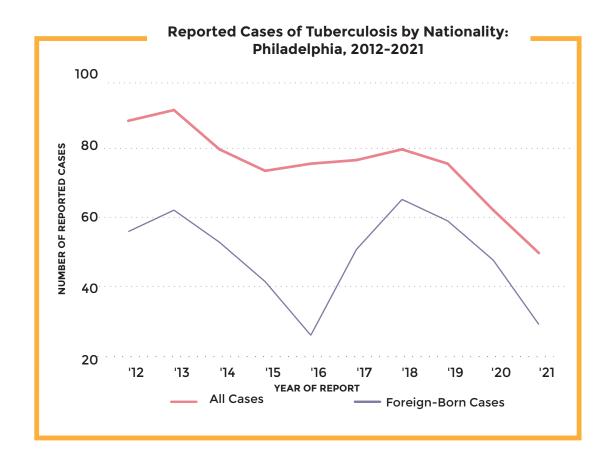
During January and February 2021, 7 Philadelphia residents were diagnosed with Legionnaires' disease, an unusually high number of reports to occur during the winter. Of the 7 cases, 3 occurred within the same zip code and were in close proximity, including 1 who lived in a group home. Of the 7 cases, 5 were interviewed and reported no risk factors such as travel or recreational water exposures. Four cases, including all 3 that occurred in the same zip code, reported building and construction near their home. PDPH performed field assessments of the homes within the same zip code, which confirmed ongoing construction. No cooling towers were identified near the homes. A facility assessment was performed for the group home but did not identify any ongoing potential sources of contamination. However, recent building work and a sewage leak had occurred prior to the case's onset.

Number of Legionellosis Reports by Age: Philadelphia, 2021

| | O - | - 50 ears | | -64 ears | 6 Ye | 5+ ears | Total | | |
|-------|------------|---------------------|----|-------------|---------|------------|-------|-----|--|
| | n | n % | | % | n % | | n | % | |
| Total | 12 | 26.1 | 23 | 50.0 | - 11 | 23.9 | 46 | 100 | |
| | | | | | | | | | |

TUBERCULOSIS

(Mycobacterium tuberculosis)



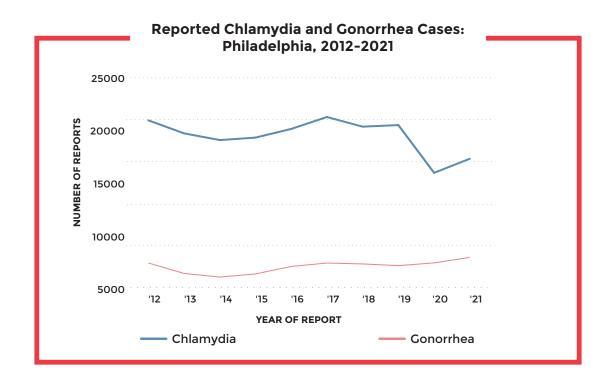
Number of Tuberculosis Reports by Age: Philadelphia, 2021

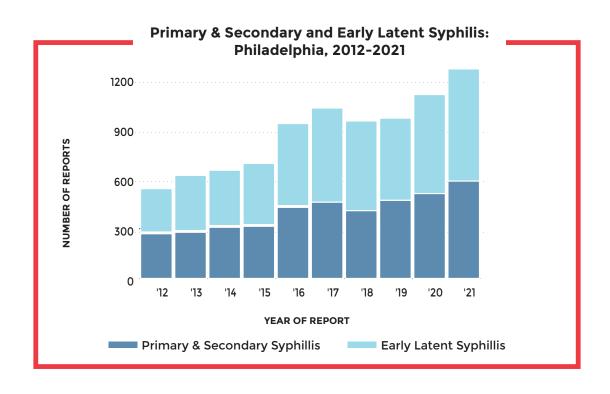
| | O . | -44 ears | | -64 ears | 6 Y | 5+ ears | To | tal | |
|-------|------------|--------------------|----|--------------------|--------|-------------------|----|-----|--|
| | n | % | n | % | n | % | n | % | |
| Total | 17 | 34.7 | 18 | 36.7 | 14 | 28.6 | 49 | 100 | |
| | | | | | | | | | |



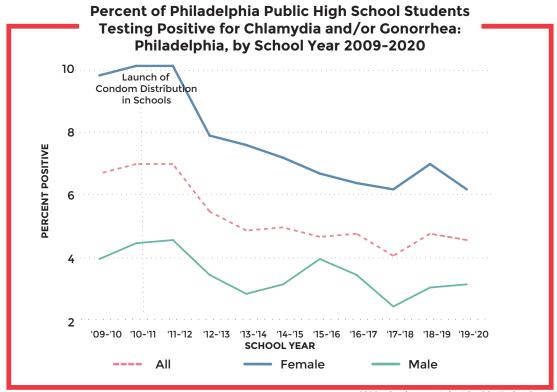
OVERVIEW
CHLAMYDIA
GONORRHEA
SYPHILIS-PRIMARY & SECONDARY
SYPHILIS-LATENT

OVERVIEW





OVERVIEW (Cont.)



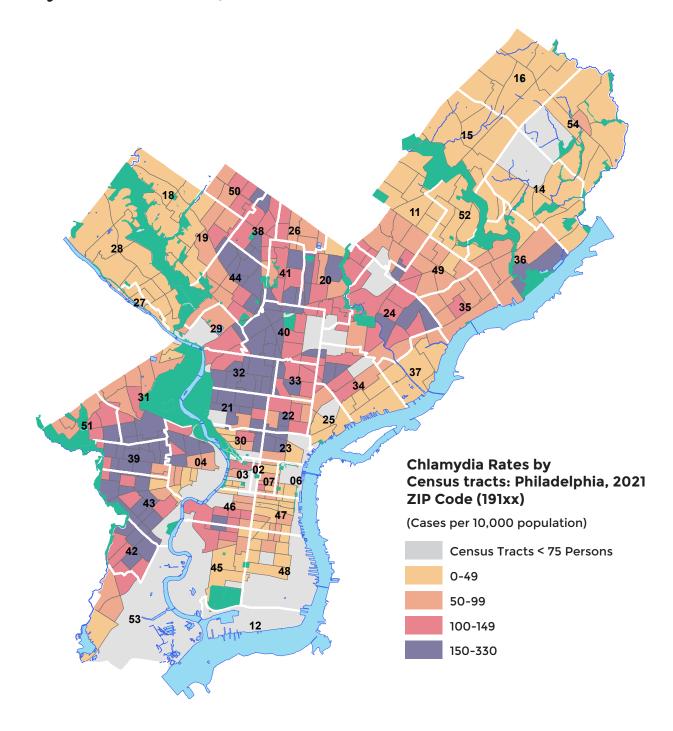
*2020 school year cut short by COVID shutdown

Percent of Philadelphia Public High School Students Testing Positive for Chlamydia and/or Gonorrhea: Philadelphia, by School Year 2009-2020

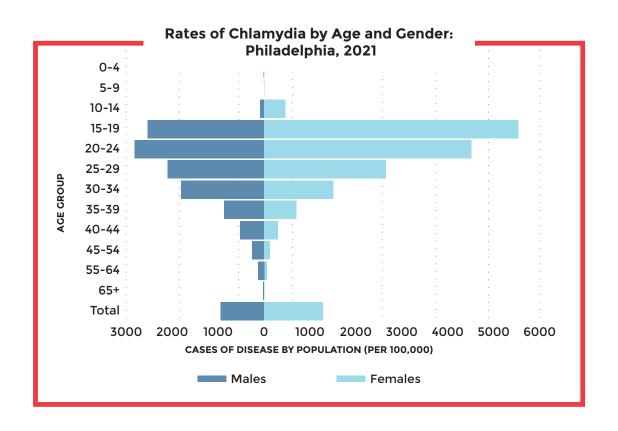
| | 09-10 | 10-11 | 11-12 | 12-13 | 13-14 | 14-15 | 15-16 | 16-17 | 17-18 | 18-19 | 19-20 |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| | % | % | % | % | % | % | % | % | % | % | % |
| Male | 3.9 | 4.4 | 4.5 | 3.4 | 2.8 | 3.1 | 3.9 | 3.4 | 2.4 | 3.0 | 3.1 |
| Female | 9.7 | 10 | 10 | 7.8 | 7.5 | 7.1 | 6.6 | 6.3 | 6.1 | 6.9 | 6.1 |
| Total | 6.6 | 6.9 | 6.9 | 5.4 | 4.8 | 4.9 | 4.6 | 4.7 | 4.0 | 4.7 | 4.5 |

CHLAMYDIA

(Chlamydia trachomatis)



CHLAMYDIA (Cont.)



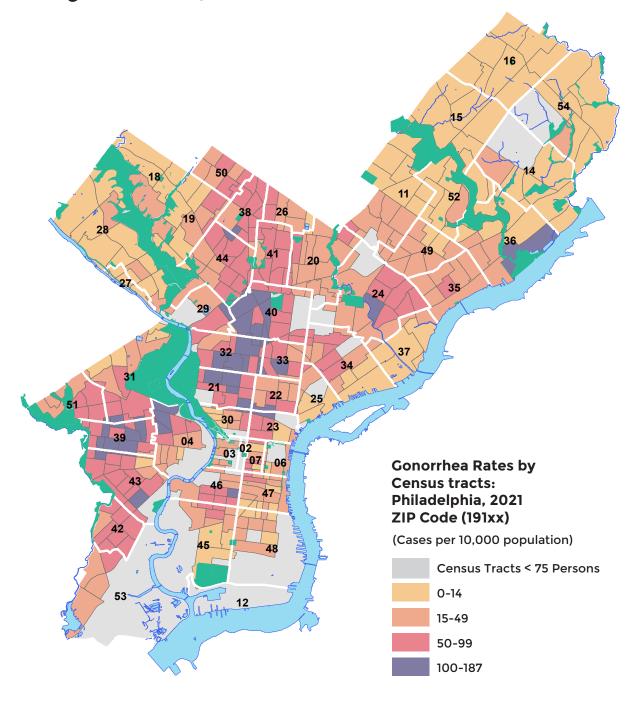
Number of Chlamydia Reports by Age, Gender, and Region: Philadelphia, 2021

| | NE | | NE NW | | N | | СС | | S | | W/SW | | Total | |
|--------------------|-------|----|-------|-----|-------|------|-----|-----|-------|-----|-------|----|--------|----|
| | n | % | n | % | n | % | n | % | n | % | n | % | n | % |
| Male | | | | | | | | | | | | | | |
| 0-14 Yrs | 11 | 0 | <10 | | 15 | 0 | <10 | | <10 | | 19 | 0 | 47 | 1 |
| 15-19 Yrs | 154 | 2 | 59 | - 1 | 732 | - 11 | 29 | 0 | 61 | - 1 | 378 | 6 | 1,413 | 22 |
| 20-24 Yrs | 297 | 5 | 78 | 1 | 859 | 13 | 59 | 1 | 124 | 2 | 433 | 7 | 1,850 | 29 |
| 25-34 Yrs | 279 | 4 | 83 | 1 | 916 | 14 | 185 | 3 | 227 | 4 | 492 | 8 | 2,182 | 34 |
| 35+ Yrs | 125 | 2 | 40 | 1 | 344 | 5 | 101 | 2 | 141 | 2 | 173 | 3 | 924 | 14 |
| Female | | | | | | | | | | | | | | |
| 0-14 Yrs | 22 | 0 | <10 | | 91 | 1 | <10 | | 19 | 0 | 52 | 1 | 193 | 2 |
| 15-19 Yrs | 365 | 4 | 115 | - 1 | 1,727 | 17 | 60 | 1 | 158 | 2 | 780 | 8 | 3,205 | 32 |
| 20-24 Yrs | 379 | 4 | 116 | 1 | 1,655 | 17 | 196 | 1 | 200 | 2 | 813 | 8 | 3,269 | 33 |
| 25-34 Yrs | 371 | 4 | 109 | - 1 | 1,256 | 13 | 124 | - 1 | 195 | 2 | 588 | 6 | 2,643 | 27 |
| 35+ Yrs | 78 | 1 | 21 | 0 | 313 | 3 | 31 | 0 | 68 | 1 | 141 | 1 | 652 | 7 |
| Grand Total | 2,081 | 13 | 625 | 4 | 7,914 | 48 | 702 | 4 | 1,193 | 7 | 3,869 | 24 | 16,384 | |
| | | | | | | | | | | | | | | |

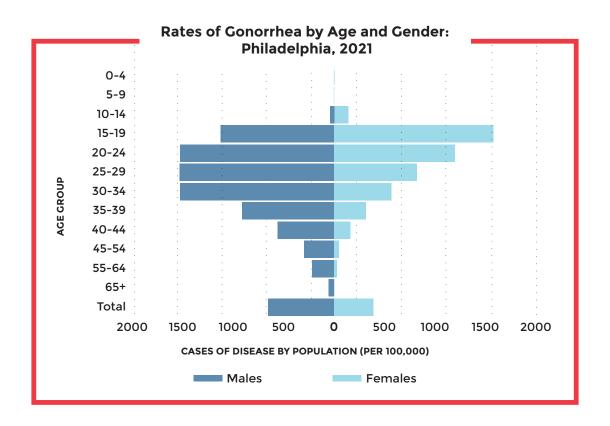
·unknown=781

GONORRHEA

(Neisseria gonorrhoeae)



GONORRHEA (Cont.)



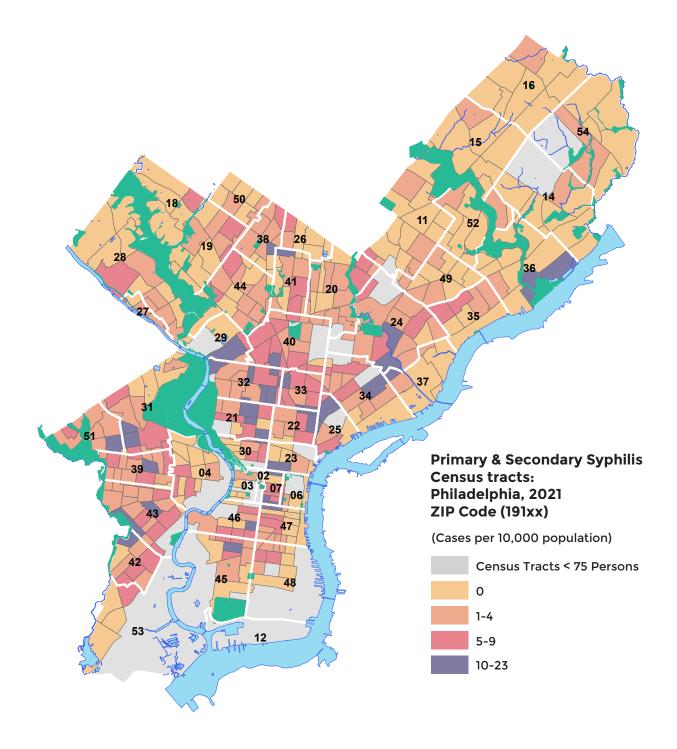
Number of Gonorrhea Reports by Age, Gender, and Region: Philadelphia, 2021

| | N | E | N | W | N | | C | С | S | 5 | W/: | SW | Tot | :al |
|-------------|-----|----|-----|-----|-------|----|-----|-----|-----|---|-------|----|-------|-----|
| | n | % | n | % | n | % | n | % | n | % | n | % | n | % |
| Male | | | | | | | | | | | | | | |
| 0-14 Yrs | <10 | | <10 | | 13 | 0 | <10 | | <10 | | <10 | | 21 | 0 |
| 15-19 Yrs | 54 | 1 | 26 | 1 | 317 | 7 | 16 | 0 | 39 | 1 | 182 | 4 | 634 | 14 |
| 20-24 Yrs | 102 | 2 | 28 | 1 | 551 | 12 | 47 | 1 | 65 | 1 | 230 | 5 | 1,023 | 23 |
| 25-34 Yrs | 151 | 3 | 59 | - 1 | 697 | 16 | 140 | 3 | 219 | 5 | 436 | 10 | 1,702 | 38 |
| 35+ Yrs | 111 | 2 | 49 | 1 | 445 | 10 | 116 | 3 | 130 | 3 | 225 | 5 | 1,076 | 24 |
| Female | | | | | | | | | | | | | | |
| 0-14 Yrs | <10 | | <10 | | 26 | 1 | <10 | | <10 | | 23 | 1 | 60 | 2 |
| 15-19 Yrs | 80 | 3 | 31 | 1 | 527 | 17 | 19 | - 1 | 40 | 1 | 226 | 7 | 923 | 30 |
| 20-24 Yrs | 86 | 3 | 21 | 1 | 465 | 15 | 20 | 1 | 36 | 1 | 246 | 8 | 874 | 29 |
| 25-34 Yrs | 87 | 3 | 32 | 1 | 460 | 15 | 26 | 1 | 53 | 2 | 217 | 7 | 875 | 29 |
| 35+ Yrs | 40 | 1 | 11 | 0 | 133 | 4 | 13 | 0 | 18 | 1 | 82 | 3 | 297 | 10 |
| Grand Total | 719 | 10 | 257 | 3 | 3,635 | 49 | 398 | 5 | 604 | 8 | 1,875 | 25 | 7,488 | 100 |
| | | | | | | | | | | | | | | |

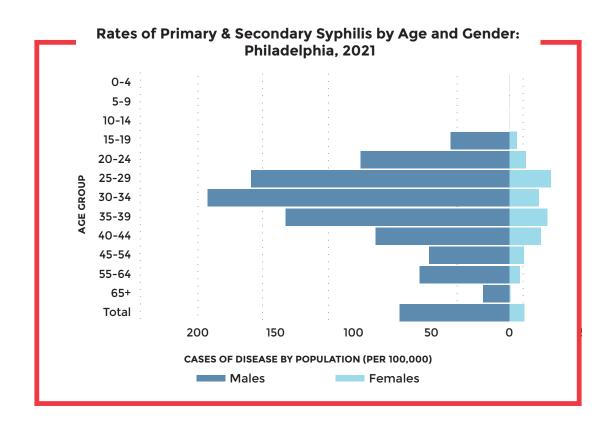
'unknown=336

SYPHILIS-PRIMARY & SECONDARY

(Treponema pallidum)



SYPHILIS-PRIMARY & SECONDARY (Cont.)

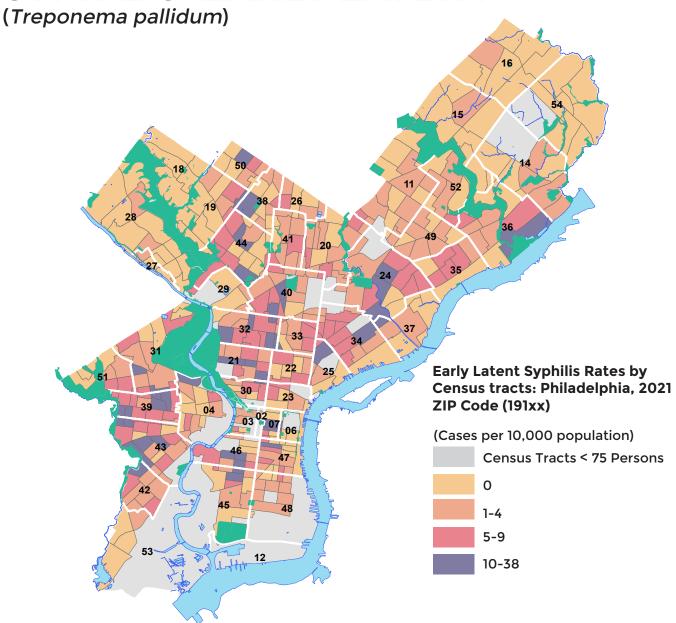


Number of Primary & Secondary Syphilis Reports by Age and Region: Philadelphia, 2021

| | N | E | N | W | N | 1 | С | С | 5 | 5 | W/ | SW | То | tal |
|-----------|-----|----|-----|---|-----|----|-----|---|-----|----|-----|----|-----|-----|
| | n | % | n | % | n | % | n | % | n | % | n | % | n | % |
| Age | | | | | | | | | | | | | | |
| 0-24 Yrs | <10 | | <10 | | 52 | 9 | <10 | | <10 | | 25 | 4 | 96 | 4 |
| 25-34 Yrs | 24 | 4 | 11 | 2 | 92 | 16 | 19 | 3 | 29 | 5 | 59 | 10 | 234 | 41 |
| 35+ Yrs | 22 | 4 | <10 | | 109 | 19 | 26 | 5 | 34 | 6 | 46 | 8 | 243 | 42 |
| Total | 55 | 10 | 17 | 3 | 253 | 44 | 47 | 8 | 71 | 12 | 130 | 23 | 573 | 100 |
| | | | | | | | | | | | | | | |

·unknown=13

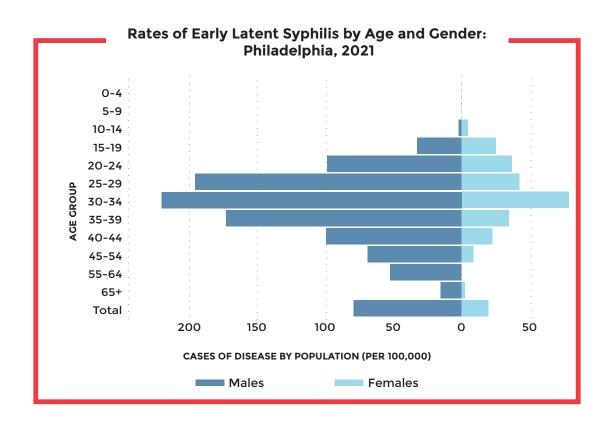
SYPHILIS-EARLY LATENT

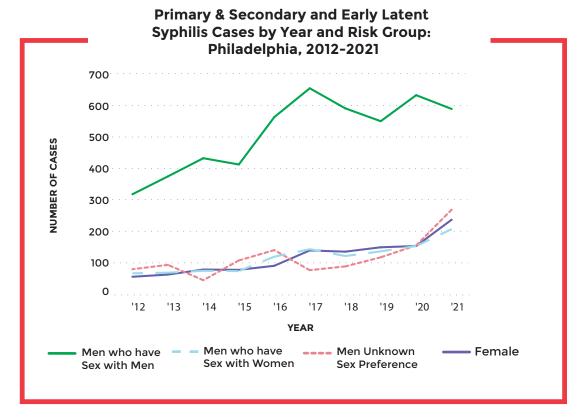


Number of Early Latent Syphilis Reports by Age and Region: Philadelphia, 2021

| | N | NE | | NE NW | | N | | CC | | S | | SW | Total [·] | |
|-----------|----|----|-----|-------|-----|----|-----|----|----|-----|-----|-----|--------------------|-------|
| | n | % | n | % | n | % | n | % | n | % | n | % | n | % |
| Age | | | | | | | | | | | | | | |
| 0-24 Yrs | 15 | 2 | <10 | | 60 | 8 | <10 | | 11 | 2 | 36 | 5 | 130 | 18 |
| 25-34 Yrs | 44 | 6 | <10 | | 130 | 18 | <25 | | 30 | 4 | 77 | -11 | 311 | 44 |
| 35+ Yrs | 31 | 4 | <10 | | 118 | 17 | 22 | 3 | 38 | 5 | 53 | 7 | 271 | 38 |
| Total | 90 | 13 | 22 | 3 | 308 | 43 | 47 | 7 | 79 | -11 | 166 | 23 | 712 | 100 |
| | | | | | | | | | | | | | | |
| | | | | | | | | | | | - | | unkno | own=1 |

SYPHILIS-EARLY LATENT (Cont.)

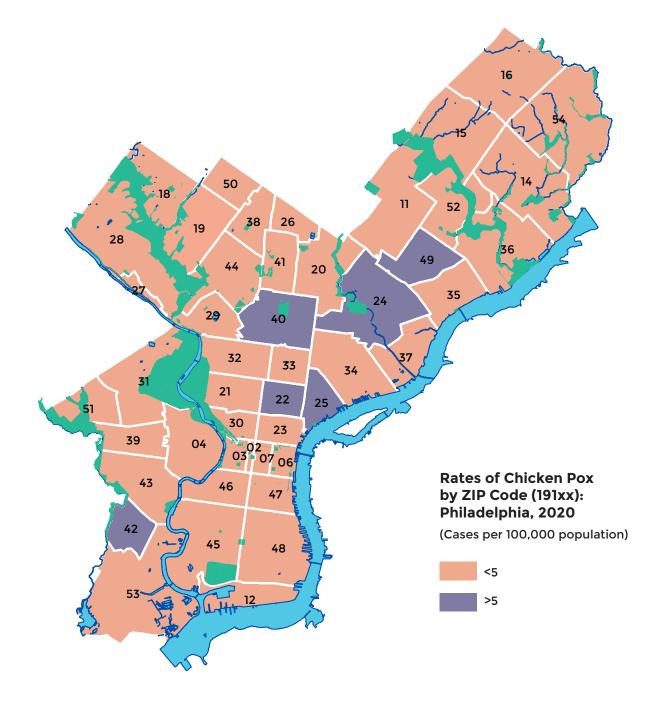




VACCINE-PREVENTABLE DISEASES

CHICKEN POX

(Varicella zoster virus)



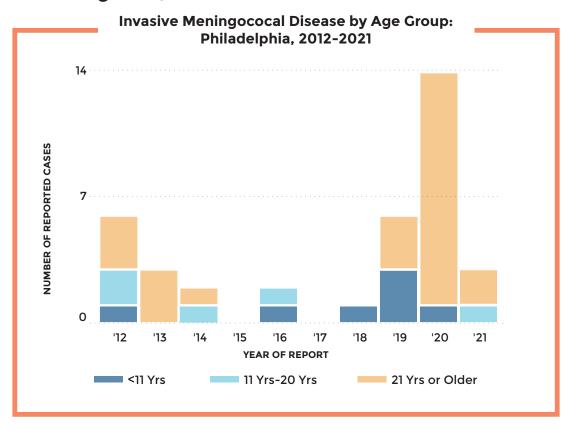
CHICKEN POX (Cont.)

Number of Chicken Pox Reports by Age: Philadelphia, 2021

| | O Ye | -9 ears | 10 Ye | -29 ears | 3 | O+ ears | То | tal |
|-------|---------|------------|----------|--------------------|----------|-------------------|----|-----|
| | n | % | n | % | n | % | n | % |
| Total | 13 | 37.14 | 11 | 31.43 | 11 | 31.43 | 35 | 100 |
| | | | | | | | | |

MENINGOCOCCAL DISEASE

(Neisseria meningitidis)



OF NOTE

In 2021, 13,003 individuals aged 16-23 years from Philadelphia received ≥ 1 dose of meningococcal B vaccine, which provides short-term protection against most strains of serogroup B meningococcal disease. It should be noted that meningococcal B vaccine is administered following shared clinical decision making between the provider and the patient (Category B Recommendation).

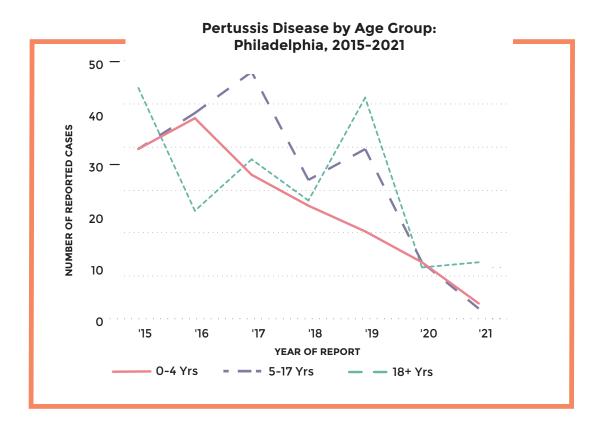
PDPH identified a total of 4 cases of meningococcal disease (3 confirmed and 1 suspect) in 2021. Of note, all the cases were male with a mean age of 21 years (range: 0-54 years). Among two isolates viable for serogrouping, one was identified as non-typable N. meningitidis and the second was identified as N. meningitidis serogroup B. No ciprofloxacin-resistant, -lactamase-producing Neisseria meningitidis serogroup Y cases were identified in 2021.

Reports of Meningococal Disease by Serogroup Per Year: Philadelphia, 2011-2021

| | 2011 | 2012 | 2013 | 2014 | 2015 | 2016 | 2017 | 2018 | 2019 | 2020 | 2021 | Total N (%) |
|-------------|------|------|------|------|------|------|------|------|------|------|------|-------------|
| Serogroup | | | | | | | | | | | | |
| В | | | | | 0 | | 0 | | | | | 10 (24%) |
| С | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 12 | 0 | 13 (32%) |
| W | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 (0%) |
| х | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 (2%) |
| Υ | 2 | 2 | 2 | 0 | 0 | 0 | 0 | 0 | | | 0 | 8 (20%) |
| z | 0 | 0 | 0 | 0 | o | 0 | 0 | 0 | 0 | o | 0 | 0 (0%) |
| Nontypeable | 0 | 1 | 1 | 1 | 0 | 1 | 0 | 1 | 2 | 0 | 2 | 9 (22%) |
| Total | 4 | 6 | 3 | 2 | 0 | 2 | 0 | 1 | 6 | 14 | 3 | 41 (100%) |

PERTUSSIS

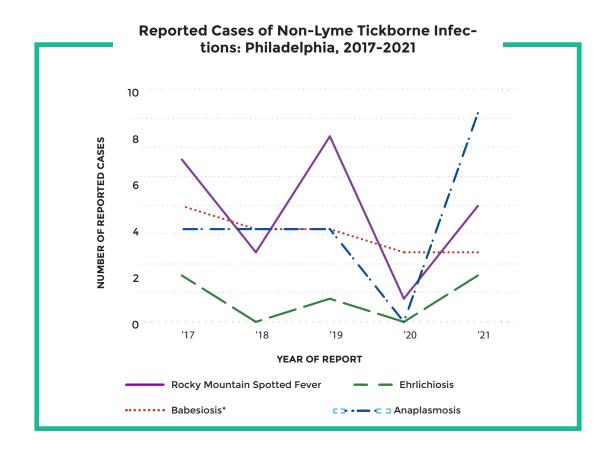
(Bordetella pertussis)





TICKBORNE INFECTIONS
ARBOVIRAL INFECTIONS
ZIKA VIRUS
LYME DISEASE
MALARIA
WEST NILE VIRUS

TICKBORNE INFECTIONS

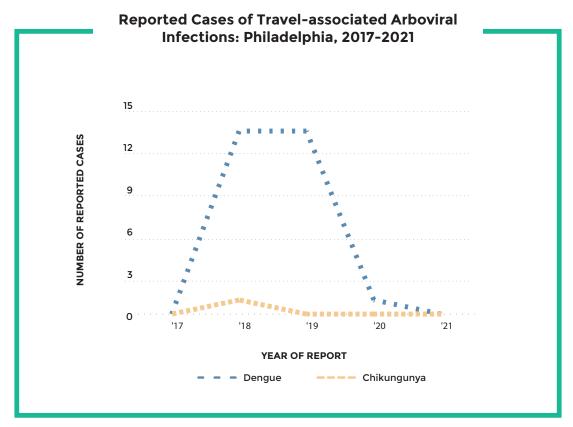


Reported Cases of Other Non-Lyme Tickborne Infections: Philadelphia, 2017-2021

| | 2017 | 2018 | 2019 | 2020 | 2021 | Total |
|------------------------------|------|------|------|------|------|-------|
| | | | | | | |
| Anaplasmosis | 4 | 4 | 4 | 0 | 9 | 21 |
| Babesiosis* | 5 | 4 | 4 | 3 | 3 | 19 |
| Ehrlichiosis | 2 | 0 | 1 | 0 | 2 | 5 |
| Rocky Mountain Spotted Fever | 7 | 3 | 8 | 1 | 5 | 24 |
| Total | 18 | 11 | 17 | 4 | 19 | 69 |

^{*}All infection include locally-acquired and travel-associated infections. Babesiosis also includes transfusion-associated cases.

ARBOVIRAL INFECTIONS

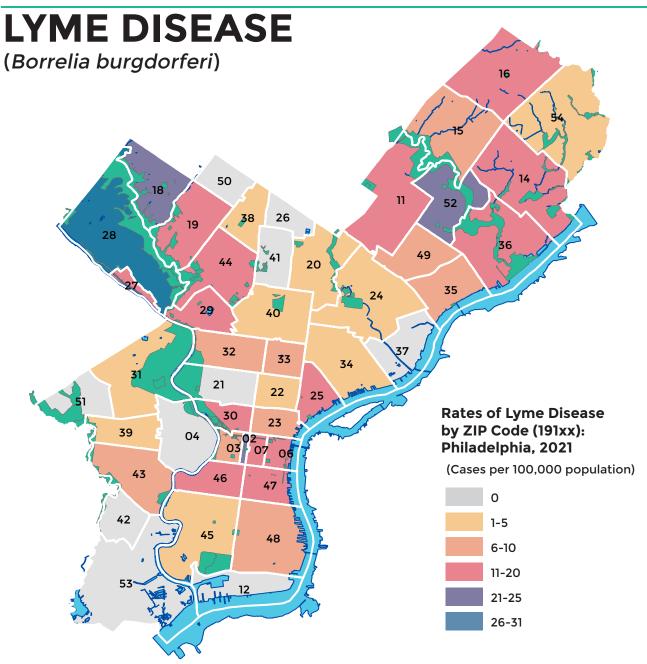


Demographics of Travel Associated Arboviral Infections: Philadelphia, 2014-2021

| | Chik | ungunya | Der | ngue |
|--------------------------|-------|---------|-------|--------|
| | n= 44 | % | n= 36 | % |
| Female | 34 | 77 | 10 | 28 |
| Foreign Born | 31 | 70 | 8 | 23 |
| Median Age (Range) Years | 42.5 | (5-78) | 35.5 | (5-64) |
| | | | | |

Outcomes of Travel-associated Arboviral Infections: Philadelphia, 2014-2021

| | Chiku | ıngunya | Den | Dengue | | | |
|--------------|-------|---------|-------|--------|--|--|--|
| | n= 44 | % | n= 36 | % | | | |
| Hospitalized | 9 | 20 | 13 | 37 | | | |
| Death | 0 | 0 | 0 | 0 | | | |

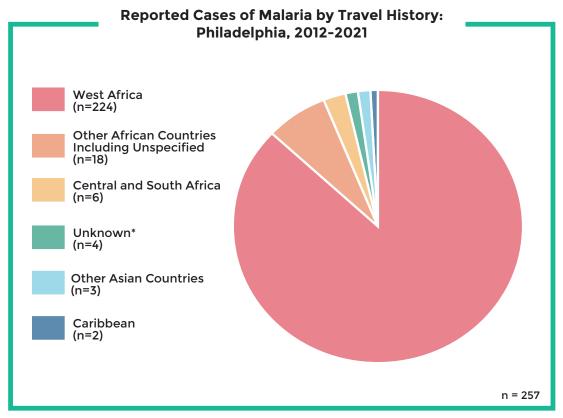


Number of Lyme Disease Reports by Age and Gender: Philadelphia, 2021

| | 0- Ye | - 34 ears | | -60 ears | 6 ' Ye |]+ ars | То | tal |
|--------|-----------------|---------------------|----|-------------|------------------|------------------|-----|------|
| | n | % | n | % | n | % | n | % |
| Male | 34 | 47.9 | 24 | 19.4 | 13 | 10.5 | 71 | 57.3 |
| Female | 21 | 39.6 | 15 | 12.1 | 17 | 13.7 | 53 | 42.7 |
| Total | 55 | 44.4 | 39 | 31.5 | 30 | 24.2 | 124 | 100 |

MALARIA

(Plasmodia spp.)



^{*}Includes one cryptic case with unknown source of infection and one congenital case

VECTOR-BORNE DISEASES

WEST NILE VIRUS

OF NOTE

During 2021, PDPH identified 10 adult residents with West Nile virus (WNV) infection (8 neuro-invasive WNV and 2 WNV fever). Eight cases required hospitalization, and all were discharged in improved condition. Cumulative WNV positivity in mosquitoes collected during the 2021 season was higher than 2020 (36% vs 16%), and higher than the historic median rate (6%).

YELLOW FEVER

OF NOTE

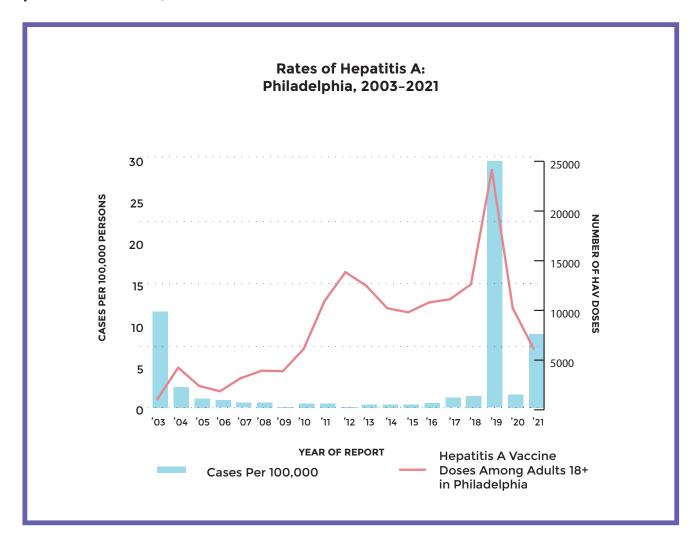
During Fall 2021, CDC initiated a coordinated, multi-jurisdiction investigation of a cluster of Yellow Fever encephalitis cases among transplant recipients, which included a patient from Philadelphia. Three of four organ transplant recipients (heart, kidney, liver) experienced neurologic decline in October 2021 following transplants in late September 2021. A summary of the investigation is available at: https://www.sciencedirect.com/science/article/pii/S2666524723001702?via%3Dihub.



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

HEPATITIS A

(Hepatitis A virus)



OF NOTE

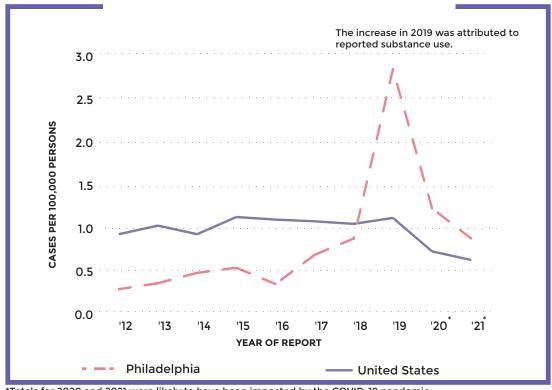
During 2021, hepatitis A increases continued to occur nationally. In Philadelphia, PDPH identified 138 confirmed cases of hepatitis A in 2021, primarily among persons who use drugs and persons experiencing homelessness (81, 59%). Of those reporting current drug use, the majority reported opioid use (61, 82%). The majority of cases occurred in the second half of 2021 (130, 94%), with case counts peaking in October. Median age of the hepatitis A cases was 40 (range: 1 - 73 years). Most hepatitis A cases were hospitalized (122, 88%) and 1 (<1%) infection was fatal. Nine cases were linked epidemiologically*, resulting in 4 distinct clusters. Whole genome sequencing was performed on specimens from 3 cases. Results indicated circulation of a strain that differed from the predominant strain in Philadelphia from 2018-2020. Through targeted outreach and collaboration with partner agencies, PDPH reinitiated efforts to increase hepatitis A vaccination among persons at-risk for hepatitis A.

*Epidemiologically linked case: a case in which the patient has/has had contact with one or more persons who have/had the disease, and transmission of the agent by the usual modes of transmission is plausible. A case may be considered epidemiologically linked to a laboratory-confirmed case if at least one case in the chain of transmission is laboratory confirmed.

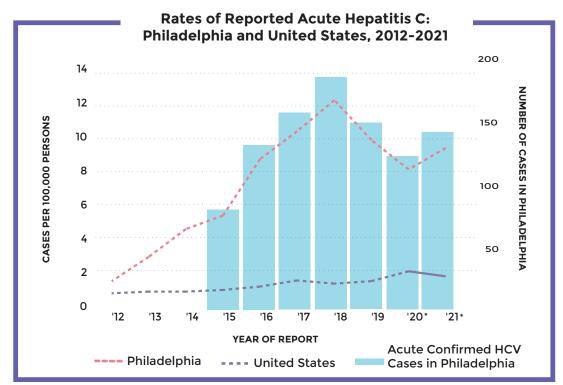
HEPATITIS-ACUTE

(Hepatitis B & C virus)

Rates of Reported Acute Hepatitis B: Philadelphia and United States, 2012-2021

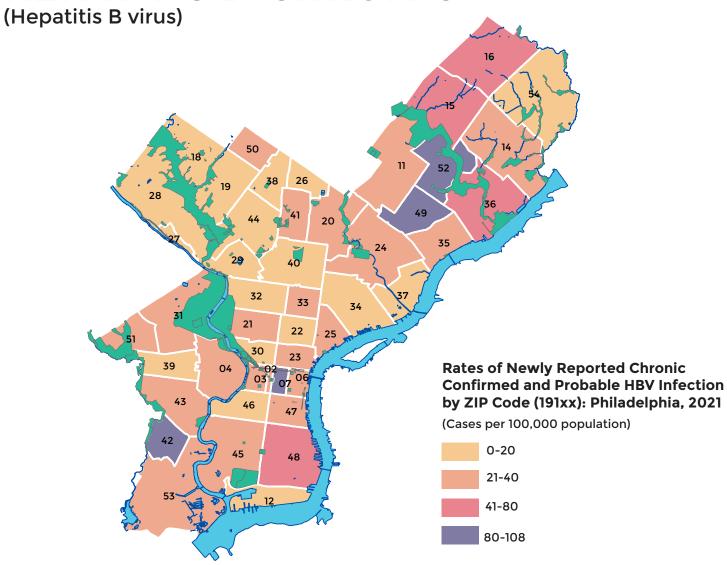


*Totals for 2020 and 2021 were likely to have been impacted by the COVID-19 pandemic.



^{*}Totals for 2020 and 2021 were likely to have been impacted by the COVID-19 pandemic.

HEPATITIS B-CHRONIC



Number of Newly-reported Chronic Hepatitis B Reports by Age and Gender: Philadelphia, 2021

| | | 0-30 Years | | - 45 ars | | 46-65 Years | | 66+ Years | | Total* | |
|--------|----|---------------|-----|--------------------|-----|-----------------------|----|--------------|-----|--------|--|
| | n | % | n | % | n | % | n | % | n | % | |
| Male | 33 | 6.2 | 131 | 24.4 | 111 | 20.7 | 37 | 6.9 | 312 | 58.1 | |
| Female | 39 | 7.3 | 82 | 15.3 | 85 | 15.8 | 19 | 3.5 | 225 | 41.9 | |
| Total | 72 | 13.4 | 213 | 39.7 | 196 | 36.5 | 56 | 10.4 | 537 | 100 | |
| | | | | | | | | | | | |

*13 had missing age

HEPATITIS-PERINATAL

(Hepatitis B & C virus)

Comparison of Perinatal Hepatitis B: Philadelphia 2012-2020

| | 2012 | 2013 | 2014* | 2015 | 2016 | 2017 | 2018 | 2019 | 2020 |
|--|--------------|--------------|--------------|--------------|--------------|--------------|---------------|--------------|--------------|
| Total Birthing Person-Infant Pairs Followed | 171 | 153 | 164 | 155 | 174 | 131 | 139 | 128 | 105 |
| Total Children Receiving HBIG** Within One Calendar Day of Birth | 154 (90%) | 140 (92%) | 23 (14%) | 81 (52%) | 157 (90%) | 118 (90%) | 135 (97%) | 112 (88%) | 103 (98%) |
| Total Children Receiving Birth HepB Vaccine Within One Calendar Day of Birth | 167 (98%) | 150 (98%) | 22 (23%) | 128 (83%) | 163 (94%) | 121 (92%) | 139 (100%) | 122 (95%) | 103 (98%) |
| Total Children Receiving 3 HBV Vaccines in 1 Year | 167 (98%) | 134 (88%) | 139 (85%) | 120 (77%) | 154 (89%) | 121 (92%) | 124 (92%) | 112 (88%) | 92 (88%) |
| Children HBsAg+*** at Screening (9-12 months old) | 1 (<1%) | 0 | 0 | 1 (<1%) | 0 | 0 | 0 | 0 | 0 |
| | | | | | | | | | |

**HBIG: Hepatitis B Immunoglobulin

***HBsAg+: Hepatitis B surface antigen positive

OF NOTE

The Perinatal Hepatitis B Prevention Program offers education and case management services to any person who is pregnant/gives birth and has hepatitis B. This follow up extends to the infant until they are fully screened for hepatitis B infection and immunity.

*In 2014, the quality of HBIG and birth dose of hepatitis B vaccine data was insufficient and not accepted for many infants. However, PDPH does not expect there was a meaningful gap in services offered to infants that year.

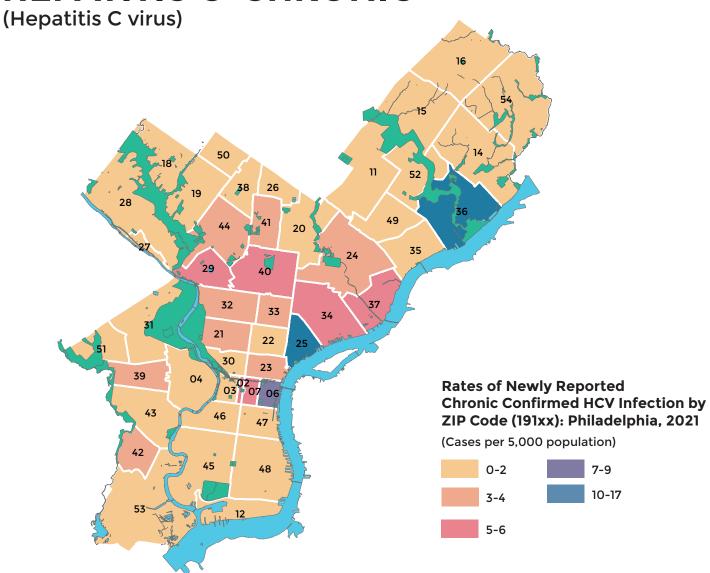
Hepatitis C-positive Babies After Perinatal Exposure: Philadelphia, 2020

| Year of Birth | Number Known Exposed | Infants with Completed Screening* | Infants Positive after Perinatal Exposure |
|---------------|----------------------|--------------------------------------|--|
| 2019 | 91 | 50 | 1 |
| 2020 | 94 | 40 | 2 |

OF NOTE

In 2016, PDPH formed the **nation's first Perinatal Hepatitis C Program**. The program aims to work with healthcare providers and birthing persons to: (1) identify hepatitis C-positive pregnant people, (2) encourage them to receive hepatitis C care, (3) work to ensure infants are tested appropriately for hepatitis C, (4) ensure hepatitis C-positive infants are linked to a specialist, and (5) characterize perinatal hepatitis C in Philadelphia.

HEPATITIS C-CHRONIC



Number of Newly-reported Chronic Hepatitis C Reports by Age and Gender: Philadelphia, 2021

| | 0-30 Years | | 31-45 Years | | 46-65 Years | | 66+ Years | | Total* | |
|--------|----------------------|------|-----------------------|------|-----------------------|------|--------------|------|--------|------|
| | n | % | n | % | n | % | n | % | n | % |
| Male | 75 | 7.2 | 243 | 23.1 | 234 | 22.3 | 145 | 13.8 | 697 | 66.4 |
| Female | 58 | 5.5 | 115 | 11 | 107 | 10.2 | 72 | 6.9 | 352 | 33.6 |
| Total | 133 | 12.7 | 358 | 34.1 | 341 | 32.5 | 217 | 20.7 | 1,049 | 100 |
| | | | | | | | | | | |

*21 had missing age

REPORTING DISEASES & CONDITIONS



Division of Disease Control (DDC)

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

Call (215) 686-4514 for immediate reporting and consultation after hours, on weekends, and holidays Please note that you will need to press 1 for Unified Dispatch and ask to be connected with the Division of Disease Control on-call staff

REPORTABLE DISEASES AND CONDITIONS

Animal bites (wild/stray/domestic) Botulism* Babesiosis Arboviruses' Brucellosis*

Campylobacteriosis Carbapenem-resistant Candida auris

Enterobacteriaceae (CRE)

Chikungunya Chancroid

lymphogranuloma venereum Chlamydia trachomatis including

Cryptosporidiosis Creutzfeldt-Jakob Disease

pregnancy in an HIV infected

outbreaks* Influenza (including novel influenza

Food poisoning

Escherichia coli O157:H7 and Shiga

toxin-producing bacteria'

Ehrlichiosis/Anaplasmosis

Encephalitis*

Diphtheria*

Cyclosporiasis

Leprosy (Hansen's disease)

Haemophilus influenzae, invasive Guillain-Barré Syndrome Gonococcal infections

Acute flaccid myelitis

Hantavirus Pulmonary Syndrome* Hemorrhagic fever, all

in a Hepatitis C infected woman Hepatitis C, also including: pregnancy in a Hepatitis B infected woman Hepatitis B, also including: pregnancy

Hepatitis, other viral Histoplasmosis

Human immunodeficiency virus (HIV/

AIDS) ‡, also including: acute HIV infection*+

birth of an infant to an HIV infected

new HIV positive result in a pregnant woman*^, and

A*, pediatric deaths*, and institutional Lead poisoning †

> Lyme disease Leptospirosis Listeriosis

Melioidosis Measles (rubeola)*

Meningococcal infections* Meningitis (viral, fungal, bacterial)

Multisystem Inflammatory Syndrome

Neonatal Abstinence Syndrome (NAS) Mumps

pregnant persons)* Novel coronaviruses (SARS, MERS-CoV, COVID-19 including infections in

Pertussis (whooping cough) Pandrug-resistant organism*

Psittacosis (ornithosis) Poliomyelitis*

typhus fever) Mountain spotted fever, rickettsial pox, Rickettsial diseases (including Rocky

Salmonellosis Rubella (German Measles) & Congenital

> Shigellosis Smallpox*

Staphylococcus aureus, vancomycin Insensitive

group B (infants 0-89 days of age) A Streptococcal disease, invasive Streptococcus pneumoniae, invasive disease Streptococcal disease, invasive group

Syphilis letanus

Taxic Shock Syndrome

Trichinosis

Tuberculosis §

Tularemia*

paratyphi)* Typhoid (Salmonella typhi and

Varicella, including zoster Vibriosis

Yellow Fever* West Nile Virus

Yersiniosis

congenital Zika infection birth defects associated with Zika, including prenatal and postnatal

Mandatory reporting of all immunizations administered to all individuals of all ages in the City of Philadelphia to PhilaVax, the City-wide immunization information system, at vox.phila.gov

Report suspected and confirmed cases within 24 hours. All unusual disease clusters, disease outbreaks, and unusual disease occurrences should be reported immedi

Fax: (215) 238-6947 Phone: (215) 685-6748

Patient Name | Condition | Age/DOB, Sex, Address & Phone | Clinician Name, Address & Phone | Laboratory Results To report a case to DDC, call, fax, or submit through PA NEDSS the following information:

Effective: 08/2023

Report to Lead Poisoning Prevention at (215) 685-2788

Report to TB Control Program at (215) 685-6873

AReport to AIDS Activities Coordinating Office at #(215) 685-4789, +(215) 685-4781, or A(215) 685-4766, based on result/event type Organism is pan-drug resistant if it exhibits non-susceptibility to all antibacterial or antifungal agents tested

Notifiable Disease Case Report (Confidential)

Philadelphia Department of Public Health Division of Disease Control



Acute Communicable Disease Program 1101 Market St, 12th Floor, Philadelphia, PA 19107

| | | | | | t Informa | tion | | | |
|----------------------------|----------------|-------------------|----------------|-------------------------------|---------------------|-------------------------------------|------------------------------|-------------------------|--|
| Report Date (Mo., | Day, Yr.) | | Name (Last, F | irst, M.I.) | | Parent or caretaker (if applicable) | | | |
| / | | | | | | | | | |
| / | _/ | _ | | | | | Talanhana | | |
| | | | | | | | Telephone (Home) | | |
| | | | | | | | | | |
| DOB (Mo., Day, Yı | r) | Age | Sex | | Occupatio | n | (Cell) | | |
| Mo., Day, Yr.) Age | | | Male | Female | | •• | (Work) | | |
| Name of Employer | or School | | Limate | r omaio | | School Address (Num | per, Street, City, Zip Code) | | |
| | | | | | | | | • | |
| | | | | | | | | | |
| | | | | Medica | al Informa | ition | | | |
| Disease or Condition | on | | | | Date of Or | nset (Mo., Day, Yr.) | Diagnosis | Fatal (check one) | |
| | | | | | | , | Clinical | ☐ No | |
| | | | | | | / / | Lab confirmed | Yes | |
| | <u> </u> | | | | | // |) (1 (" (") | Date of Death | |
| Chief Symptoms / | _ | | — | | | | s) of Infection (if known) | - nauls/acutalaana | |
| _ ` _ | nausea | | headache | , . | | | home/relative | park/outdoors | |
| coryza | vomiting | fever | body aches | ; | | work | restaurant | recreational water | |
| If Case Hospitalize | nd (Name of | Hospital/Medi | cal Provider) | | | travel (where/dts | Admission Date | other Discharge Date | |
| ii Case i lospitalize | id (Ivallie of | i iospitai/ivieui | Jai i Tovidei) | | | | Admission Date | Discriarge Date | |
| | | | | | | | // | / | |
| | | Lak | oratory Infor | mation If Pe | rtinent <i>(a</i> : | ttach copies if app | licable) | | |
| Name of Lab | Nam | e of Test | | Site Source | | Result | Collection Date | Result Date | |
| | | | Blood | Stool | | | | | |
| | | | CSF | Other | | | | | |
| | | | Blood | Stool | | | | | |
| | | | CSF | Other | | | | | |
| | | | Blood | Stool | | | | | |
| | | | CSF | Other | | | | | |
| | | ities (if appl | | | | N | lotes | | |
| Antibiotic | | Intermediate | e Susceptible | | | | | | |
| Ampicillin Ceftriaxone | H | H | H | | | | | | |
| Ciprofloxacin | H | H | H | | | | | | |
| Levofloxacin | Ħ | Ħ | H | | | | | | |
| Penicillin | | | | | | | | | |
| Trimethoprim/ | | | | | | | | | |
| Sulfamethoxazole (Bactrim) | | | | | | | | | |
| (Bactilli) | | | | Reporte | er Informa | ation | | | |
| Facility Name | | | Reporter Nam | - | | Reporter Phone # | Reporter | | |
| | | | | | | | ☐ICP ☐ED ☐School Nurse | | |
| | | | | | | | Lab Other | | |
| | | | DO NOT WR | | | OR DEPARTMENT U | ISE | | |
| Name (Person Red | ceiving Repo | ort) | | Method of rep | | | | | |
| | | | | Phone | Fax | Mail | Other | | |
| Any unusu | ual illness, | | - | | | - | nediately by telephor | ie. Please fax all | |
| Revised 06/14/ | /2019 | complete | - | | | 15-685-6748 to rep | e use specific form. | | |
| 11 NEVISEU UU/ 14/ | ZU10 | | ii reporting | j illilu c iiza, c | ummal EX | posuie, ib, piedst | ase specific fulfil. | | |