

Wyandot County 2014

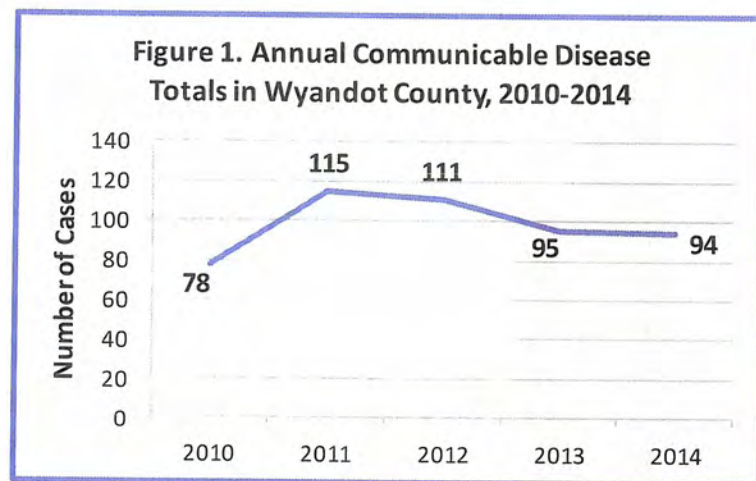
Communicable Disease Report

FEBRUARY 2015

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The number of communicable disease cases reported in Wyandot County during 2014 slightly decreased from 2013 (94 and 95 cases, respectively). The overall number of infectious disease cases reported over the past five years is illustrated in **Figure 1**.



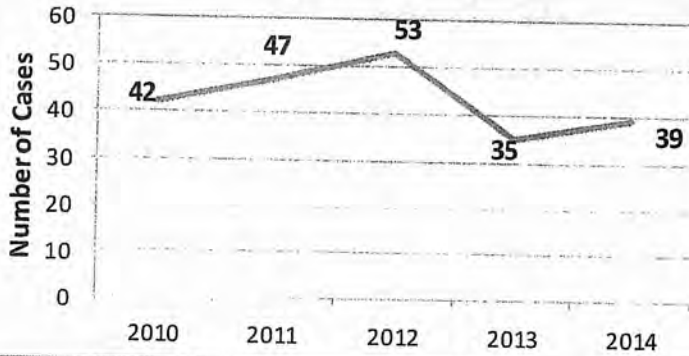
Numerous infectious diseases were reported during 2014; however, the most reported illnesses in Wyandot County included Chlamydia (39 cases), Hepatitis C (18 cases), Influenza-Associated Hospitalizations (14 cases), Gonorrhea (6 cases), and Campylobacteriosis (4 cases). The remainder of this document provides epidemiological data on each of these illnesses, brief demographic information on the cases, and disease trends over the past five years.

Table I. on Page 5 illustrates all of the diseases reported in the county and the number of cases for each of these illnesses.

Chlamydia

Number of Cases: 39
Average Age: 22.3 years
Median Age: 21 years
Age Range: 17 - 35 years
Female: 74.4%
Male: 25.6%

Figure 2. Clamydia Cases in Wyandot County, 2010-2014



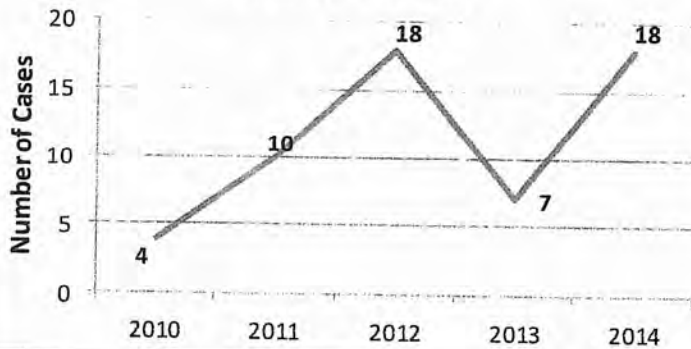
EPIDEMIOLOGY

Infectious Agent: *Chlamydia trachomatis* bacteria
Case Definition: Isolation of *Chlamydia trachomatis* from a clinical specimen. Men may suffer from painful urination, urinary frequency, and penile discharge; while women may experience vaginal discharge.
Mode of Transmission: Sexually transmitted
Incubation Period: 7-21 days
Prevention: Abstinence, condom use, and identification and treatment of sexual contacts of those proven to or suspected of being infected with *Chlamydia trachomatis*

Hepatitis C

Number of Cases: 18
Average Age: 31.7 years
Median Age: 29 years
Age Range: 20 - 59 years
Female: 50.0%
Male: 50.0%

Figure 3. Hepatitis C Cases in Wyandot County, 2010-2014

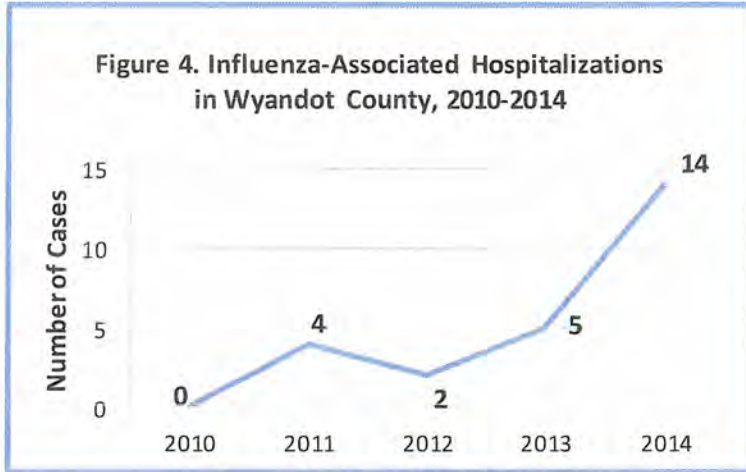


EPIDEMIOLOGY

Infectious Agent: Hepatitis C virus
Case Definition: Those infected may be asymptomatic; however, some may experience nausea, vomiting, abdominal pain, loss of appetite, dark urine, and/or jaundice
Mode of Transmission: Injection drug use through the sharing of needles and other drug paraphernalia contaminated with infected blood; non-professional tattooing or in-home tattooing through shared needles or contaminated equipment; sexual transmission inefficiently spreads the virus (transmission is rare)
Incubation Period: 2 weeks – 6 months
Prevention: No vaccine is available

Influenza-Associated Hospitalizations

Number of Cases: 14
Average Age: 66.4 years
Median Age: 73 years
Age Range: 3 - 95 years
Female: 50.0%
Male: 50.0%



EPIDEMIOLOGY

Infectious Agent: Influenza virus has two main types: Influenza A and Influenza B. Both types include different strains that tend to change from year to year

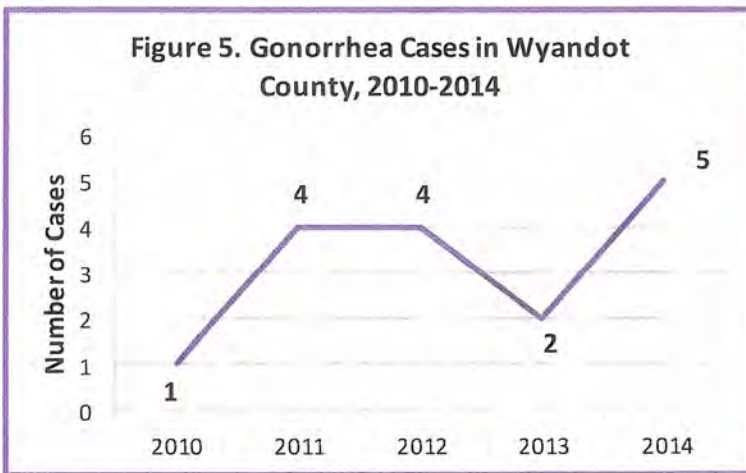
Case Definition: An illness compatible with influenza virus infection that results in hospitalization

Mode of Transmission: Direct person-to-person contact through droplet spread or via articles recently contaminated with nasopharyngeal secretions

Incubation Period: 1- 4 days

Prevention: The best prevention is annual vaccination. Washing hands after sneezing, coughing, or using a tissue. Cough into sleeve and not into hands.

Gonorrhea



Number of Cases: 5
Average Age: 23.2 years
Median Age: 24 years
Age Range: 21 - 25 years
Female: 100%
Male: 0%

EPIDEMIOLOGY

Infectious Agent: *Neisseria gonorrhoeae* bacteria

Case Definition: Isolation of *Neisseria gonorrhoeae* from a clinical specimen. Men may suffer from painful, frequent urination, and penile discharge. Women may experience vaginal discharge, painful urination, and vaginal bleeding between menstrual cycles.

Mode of Transmission: Sexually transmitted

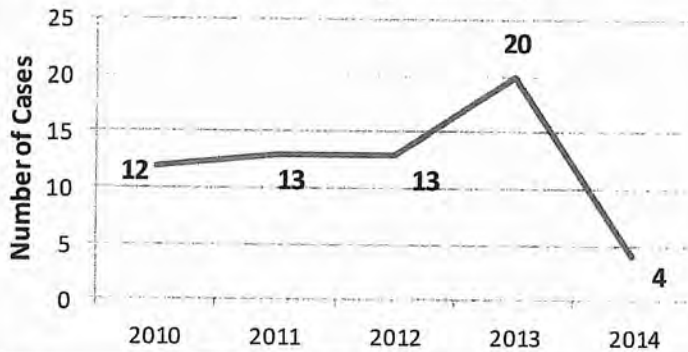
Incubation Period: 3 - 8 days

Prevention: Abstinence, condom use, and identification and treatment of sexual contacts of those proven to or suspected of being infected with *Neisseria gonorrhoeae*

Campylobacteriosis

Number of Cases: 4
Average Age: 44.7 years
Median Age: 43 years
Age Range: 9 months - 92 years

Figure 6. Campylobacteriosis Cases in Wyandot County, 2010-2014



EPIDEMIOLOGY

Infectious Agent: *Campylobacter* organisms, most commonly *Campylobacter jejuni*

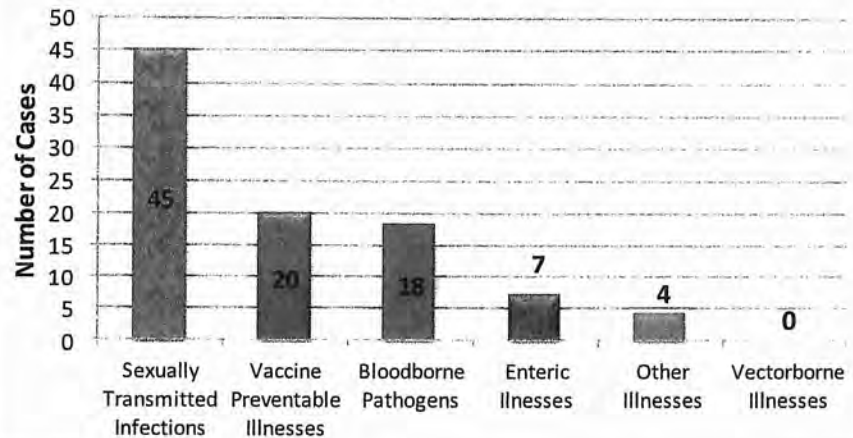
Case Definition: Isolation or detection of *Campylobacter* species with or without diarrhea

Mode of Transmission: Fecal-orally through undercooked meat, contaminated food or raw milk, or direct contact with infected pets, livestock, or infants

Incubation Period: 1-10 days

Prevention: Cook meats thoroughly, avoid cross-contamination of foods with raw meat juices, avoid unpasteurized milk and untreated water, and washing hands after contact with animals

Types of Communicable Diseases Reported in Wyandot County During 2014



Notes:

Case counts include confirmed, probable, and suspect disease classifications
 Sexually transmitted infections include chlamydia, gonorrhea, and syphilis
 Enteric illnesses include campylobacteriosis, cryptosporidiosis, and shigellosis
 Vaccine preventable illnesses include Hepatitis B, influenza-associated hospitalizations, *Streptococcus pneumoniae*, and varicella
 Bloodborne pathogens include Hepatitis C
 Other illnesses include Legionnaires' disease, aseptic meningitis, mycobacterial disease and Streptococcal disease

Table 1. Communicable Diseases Reported in Wyandot County, 2014

Class B	
Campylobacteriosis	4
Chlamydia	39
Cryptosporidiosis	2
Gonorrhea	5
Hepatitis B	2
Hepatitis C	18
Influenza-Associated Hospitalization	14
Legionnaires' Disease	1
Meningitis, aseptic	1
Mycobacterial disease	1
Shigellosis	1
Streptococcal disease, Group A	1
<i>Streptococcus pneumoniae</i>	2
Syphilis	1
Varicella	2
Total	94