

Wyandot County 2013

Communicable Disease Report

FEBRUARY 2014

INSIDE THIS ISSUE:

Chlamydia 2

Campylobacteriosis 2

Hepatitis C 3

Streptococcus pneumoniae 3

Influenza-Associated Hospitalizations 4

The number of communicable disease cases reported in Wyandot County during 2013 decreased from 2012 (95 and 111 cases, respectively).

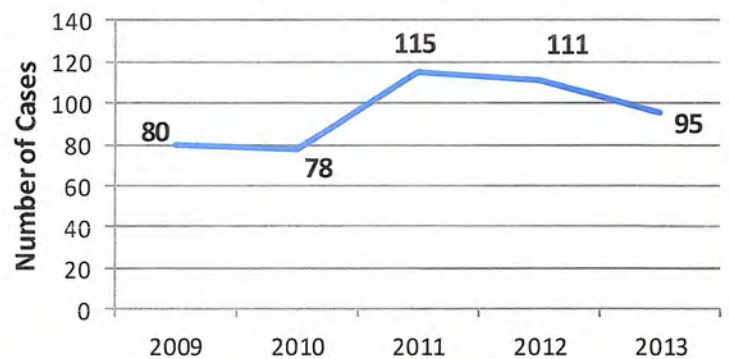
The overall

number of infectious disease cases reported over the past five years is illustrated in **Figure 1**.

Numerous infectious diseases were reported during 2013; however, the most reported illnesses in Wyandot County included Chlamydia (35 cases), Campylobacteriosis (20 cases), Hepatitis C (7 cases), *Streptococcus pneumoniae* (6 cases), and Influenza-Associated Hospitalizations (5 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 1, on Page 5 illustrates all of the diseases reported in the county and the number of cases for each of these illnesses.

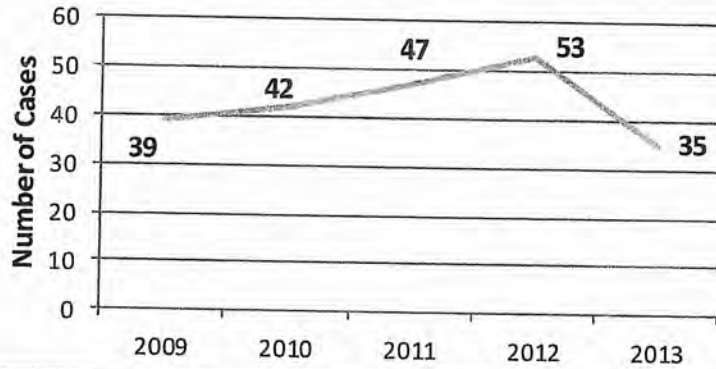
Figure 1. Annual Communicable Disease Totals in Wyandot County, 2009-2013



Chlamydia

Number of Cases: 35
Average Age: 21.7 years
Median Age: 21 years
Age Range: 13-33 years

Figure 2. Chlamydia Cases in Wyandot County, 2009-2013



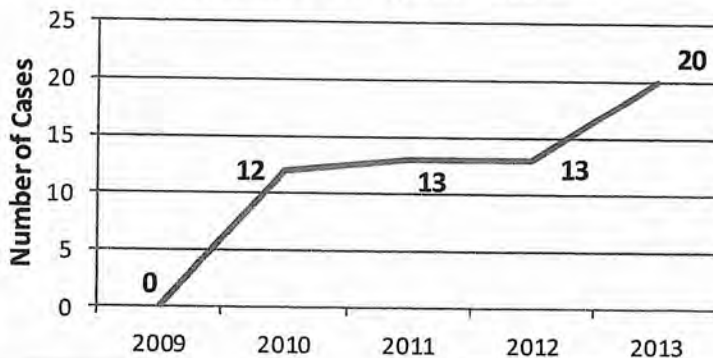
EPIDEMIOLOGY

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*

Campylobacteriosis

Number of Cases: 20
Average Age: 44.4 years
Median Age: 50 years
Age Range: 4 months–89 years

Figure 2. Campylobacteriosis Cases in Wyandot County, 2009-2013

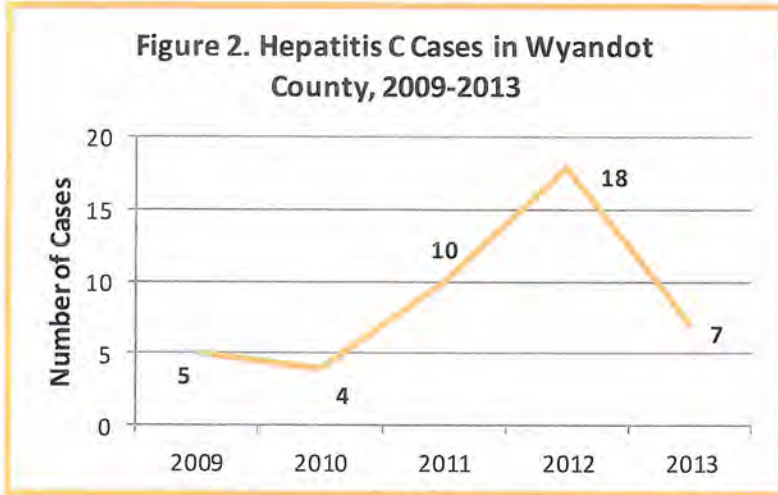


EPIDEMIOLOGY

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

Hepatitis C

Number of Cases: 7
Average Age: 41.4 years
Median Age: 32 years
Age Range: 24-60 years



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

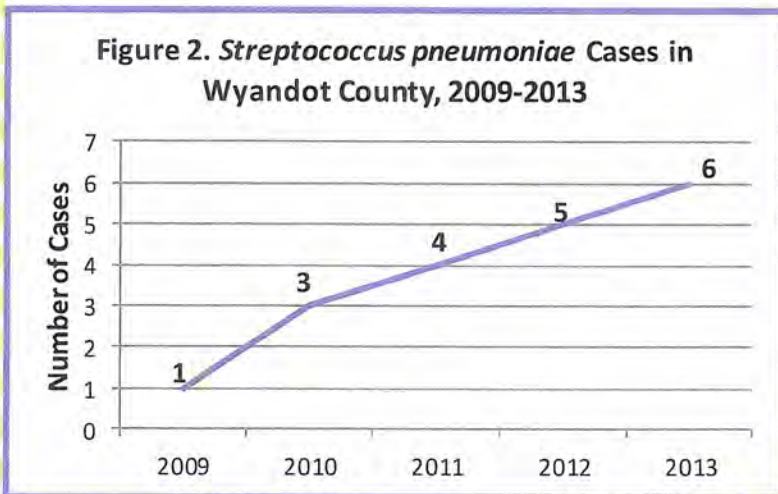
Mode of Transmission: Injection drug use through the sharing of needles and other drug paraphernalia contaminated with infected blood; non-professional tattooing or in-home tattooing through shared needles or contaminated equipment; sexual transmission inefficiently spreads the virus (transmission is rare)

Incubation Period: 2 weeks – 6 months

Prevention: No vaccine is available

Streptococcus pneumoniae

Number of Cases: 6
Average Age: 55.7 years
Median Age: 59 years
Age Range: 7-81 years



EPIDEMIOLOGY

Infectious Agent: *Streptococcus pneumoniae*

Case Definition: Isolation of *Streptococcus pneumoniae* from a clinical specimen with or without fever, chills, rapid breathing, shortness of breath, cough, and/or lethargy

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

Incubation Period: 1-3 days

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

Influenza-Associated Hospitalizations

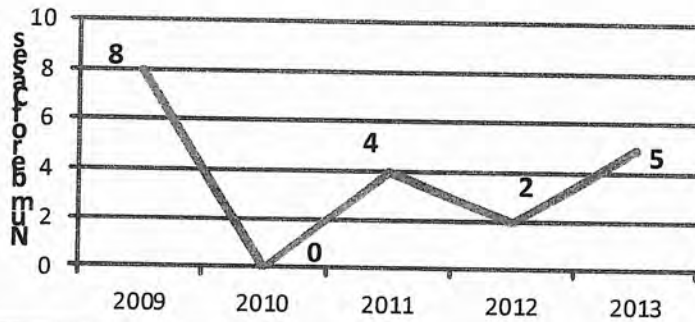
Number of Cases: 5

Average Age: 49.8 years

Median Age: 52 years

Age Range: 6-79 years

Figure 6. Influenza-Associated Hospitalizations in Wyandot County, 2009-2013



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.

Table 1. Communicable Diseases Reported in Wyandot County, 2013

Class B(1)	
Dengue	1
<i>E. coli</i> (Not o157:H7)	1
Hepatitis A	1
Influenza-Associated Pediatric Mortality	1
Meningitis, aseptic	1
Salmonella	2
Tuberculosis (TB)	1
Class B(2)	
Campylobacteriosis	20
Chlamydia	35
Creutzfeldt-Jakob Disease (CJD)	1
Cryptosporidiosis	1
Giardia	2
Gonorrhea	2
Hepatitis B	3
Hepatitis C	7
Influenza-Associated Hospitalization	5
<i>Streptococcus pneumoniae</i>	6
Varicella	4
West Nile Virus	1
Total	95