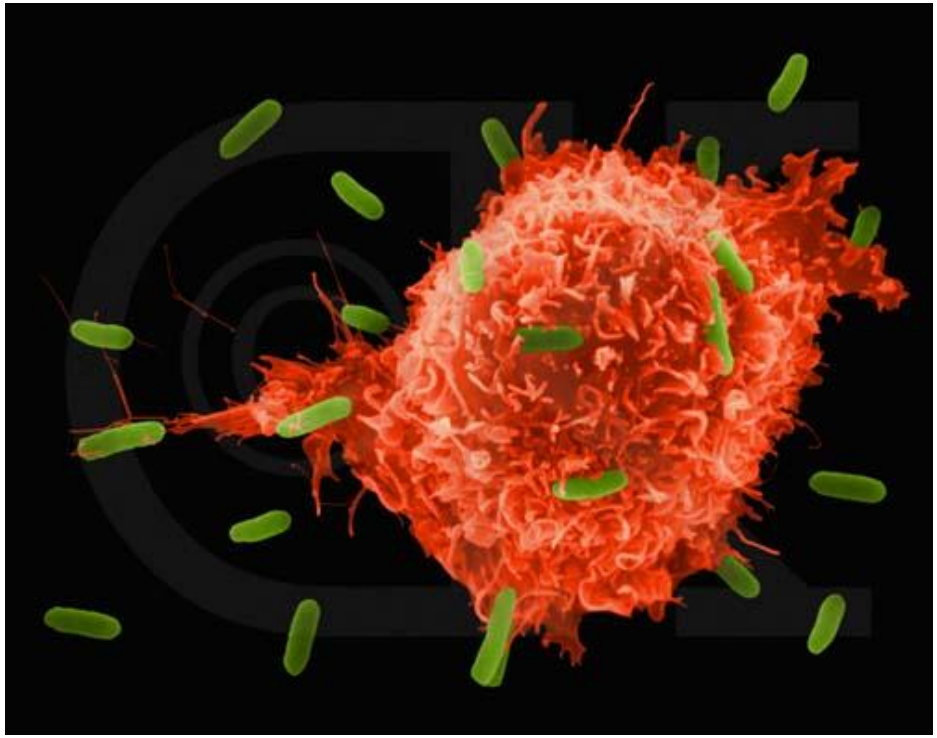
Central District Health Department

Disease Surveillance Summary-2009



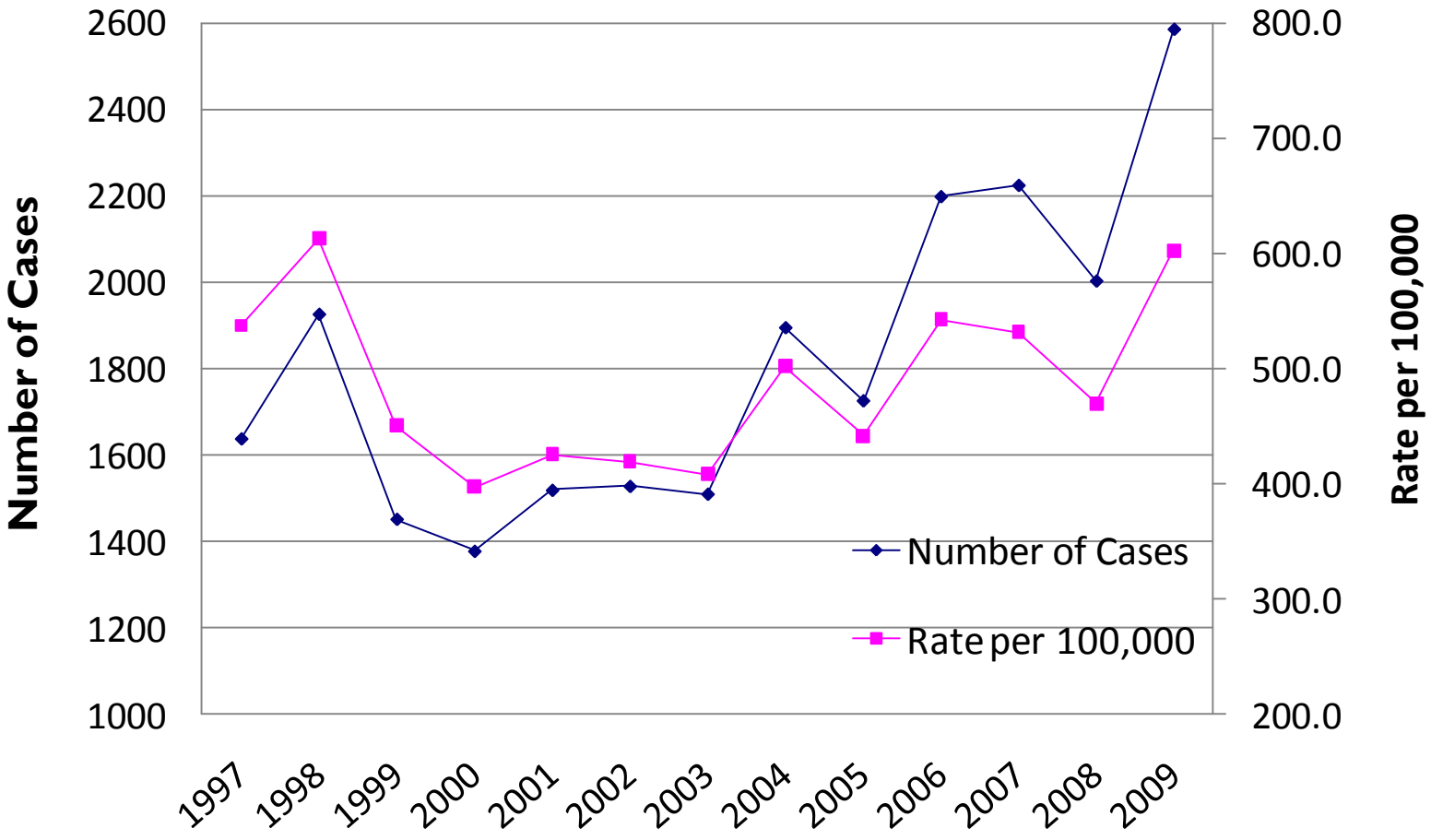
Disease Surveillance Summary

- Disease Burden
- 5 Year Trend Data
- Intestinal Illnesses
- Bloodborne Diseases
- Tuberculosis
- Legal Authority
- Outbreak Summary

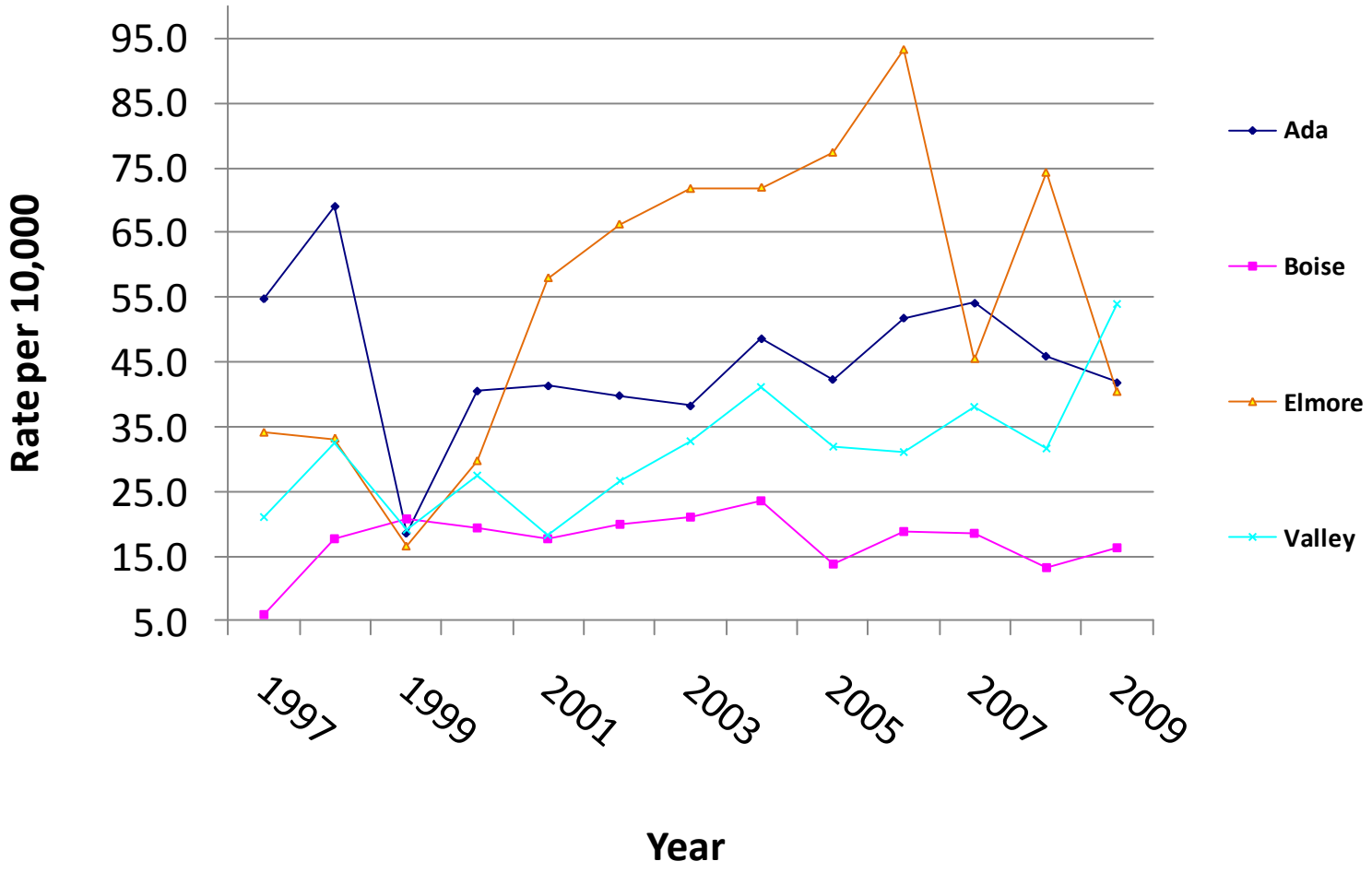
Infectious Diseases

DISEASE BURDEN

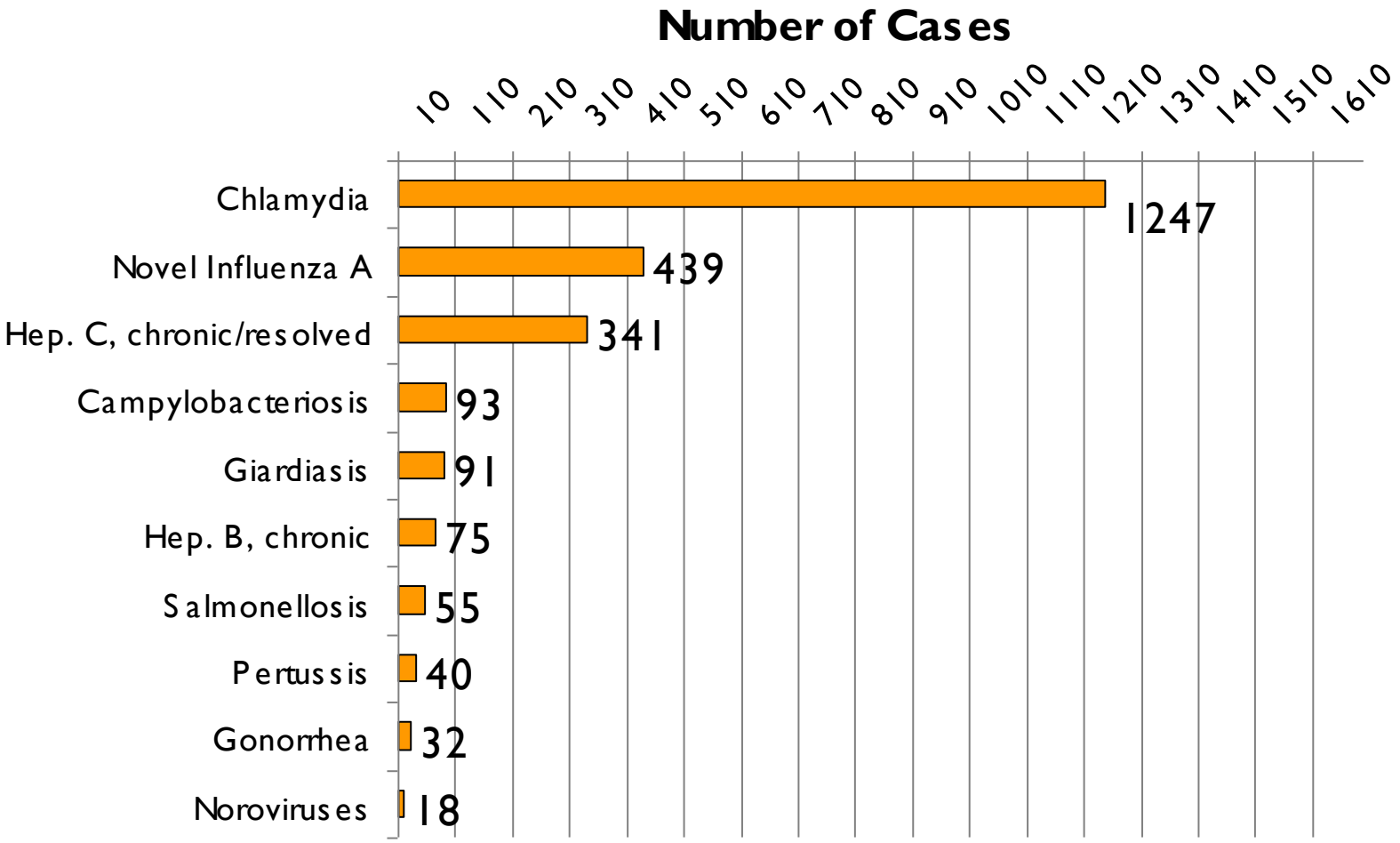
Reportable Disease Burden
1997-2009



Disease Burden by County
1997-2009



Top 10 Reported Diseases 2009



Infectious Diseases

5 YEAR TREND DATA

5 Yr Disease Activity Summary

Disease	2005 # (Rate)	2006 # (Rate)	2007 # (Rate)	2008 # (Rate)	2009 # (Rate)
AIDS	12 (3.1)	10 (2.5)	5 (1.2)	10 (2.3)	16 (3.7)
Amebiasis	1 (0.2)	0 (0)	5 (1.2)	4 (0.9)	7 (1.6)
Blood Lead Poisoning	17 (4.3)	10 (2.5)	15 (3.6)	16 (3.8)	13 (3.0)
Campylobacteriosis	50 (12.8)	75 (18.5)	56 (13.4)	89 (20.9)	93 (21.6)
Chlamydia	1057 (270.1)	1264 (311.2)	1389 (331.9)	1528 (358.4)	1247 (290.0)
Cryptosporidiosis	3 (0.8)	16 (3.9)	237 (56.6)	6 (1.4)	15 (3.5)
E. Coli O157:H7	5 (1.3)	13 (3.2)	15 (3.6)	11 (2.6)	0 (0)
E. Coli Non O157:H7	0 (0)	0 (0)	2 (0.5)	5 (1.2)	0 (0)
Encephalitis, viral or aseptic	0 (0)	0 (0)	1 (0.2)	0 (0)	0 (0)

Rate per 100,000

5 Yr Disease Activity Summary

Disease	2005 # (Rate)	2006 # (Rate)	2007 # (Rate)	2008 # (Rate)	2009 # (Rate)
Giardiasis	62 (15.8)	78 (19.2)	97 (23.2)	97 (22.8)	91 (21.2)
Gonorrhea	53 (13.5)	107 (26.3)	109 (26.0)	55 (12.9)	32 (7.4)
Haemophilus influenzae, invasive	2 (0.5)	1 (0.2)	2 (0.5)	2 (0.5)	0 (0)
Hantavirus pulmonary syndrome	0 (0)	0 (0)	1 (0.2)	0 (0)	0 (0)
Hepatitis A	4 (1.0)	2 (0.5)	3 (0.7)	3 (0.7)	1 (0.2)
Hepatitis B (acute)	5 (1.3)	5 (1.2)	3 (0.7)	6 (1.4)	3 (0.7)
Hepatitis B (chronic)	47 (12.0)	64 (15.8)	50 (11.9)	173 (36.8)	75 (17.4)
Hepatitis C (chronic or resolved)	188 (48.0)	65 (16.0)	79 (18.9)	133 (28.8)	341 (79.3)

Rate per 100,000

5 Yr Disease Activity Summary

Disease	2005 # (Rate)	2006 # (Rate)	2007 # (Rate)	2008 # (Rate)	2009 # (Rate)
HIV	15 (3.8)	12 (2.9)	15 (3.6)	9 (2.1)	18 (4.2)
HTLV 1	0 (0)	3 (0.7)	0 (0)	0 (0)	1 (0.2)
HTLV II	0 (0)	4 (1.0)	nra	1 (0.2)	1 (0.2)
Legionellosis	1 (0.2)	5 (1.2)	3 (0.7)	1 (0.2)	3 (0.7)
Lyme Disease	0 (0)	3 (0.7)	0 (0)	3 (0.7)	7 (1.6)
Malaria	0 (0)	0 (0)	6 (1.4)	0 (0)	1 (0.2)
Meningitis, viral or aseptic	5 (1.3)	4 (1.0)	6 (1.4)	4 (0.9)	0 (0)
Mumps	0 (0)	1 (0.2)	4 (0.9)	0 (0)	0 (0)

Rate per 100,000

5 Yr Disease Activity Summary

Disease	2005 # (Rate)	2006 # (Rate)	2007 # (Rate)	2008 # (Rate)	2009 # (Rate)
Neisseria meningitidis	2 (0.5)	0 (0)	2 (0.5)	2 (0.5)	1 (0.2)
Norovirus	nra	3 (0.7)	1 (0.2)	8 (1.9)	18 (4.2)
Pertussis	0 (0)	12 (2.9)	8 (1.9)	16 (3.8)	40 (9.3)
Pneumocystis carinii pneumonia (PCP)	1 (0.2)	0 (0)	5 (1.2)	5 (1.2)	0 (0)
Rocky Mountain Spotted Fever	0 (0)	4 (1.0)	1 (0.2)	0 (0)	0 (0)
Salmonellosis	44 (11.2)	51 (12.5)	48 (11.5)	57 (13.4)	55 (12.8)
Shiga-toxin producing E. coli	nra	2 (0.5)	9 (2.1)	1 (0.2)	15 (3.5)
Shigellosis	7 (1.8)	4 (1.0)	5 (1.2)	3 (0.7)	2 (0.5)

Rate per 100,000

5 Yr Disease Activity Summary

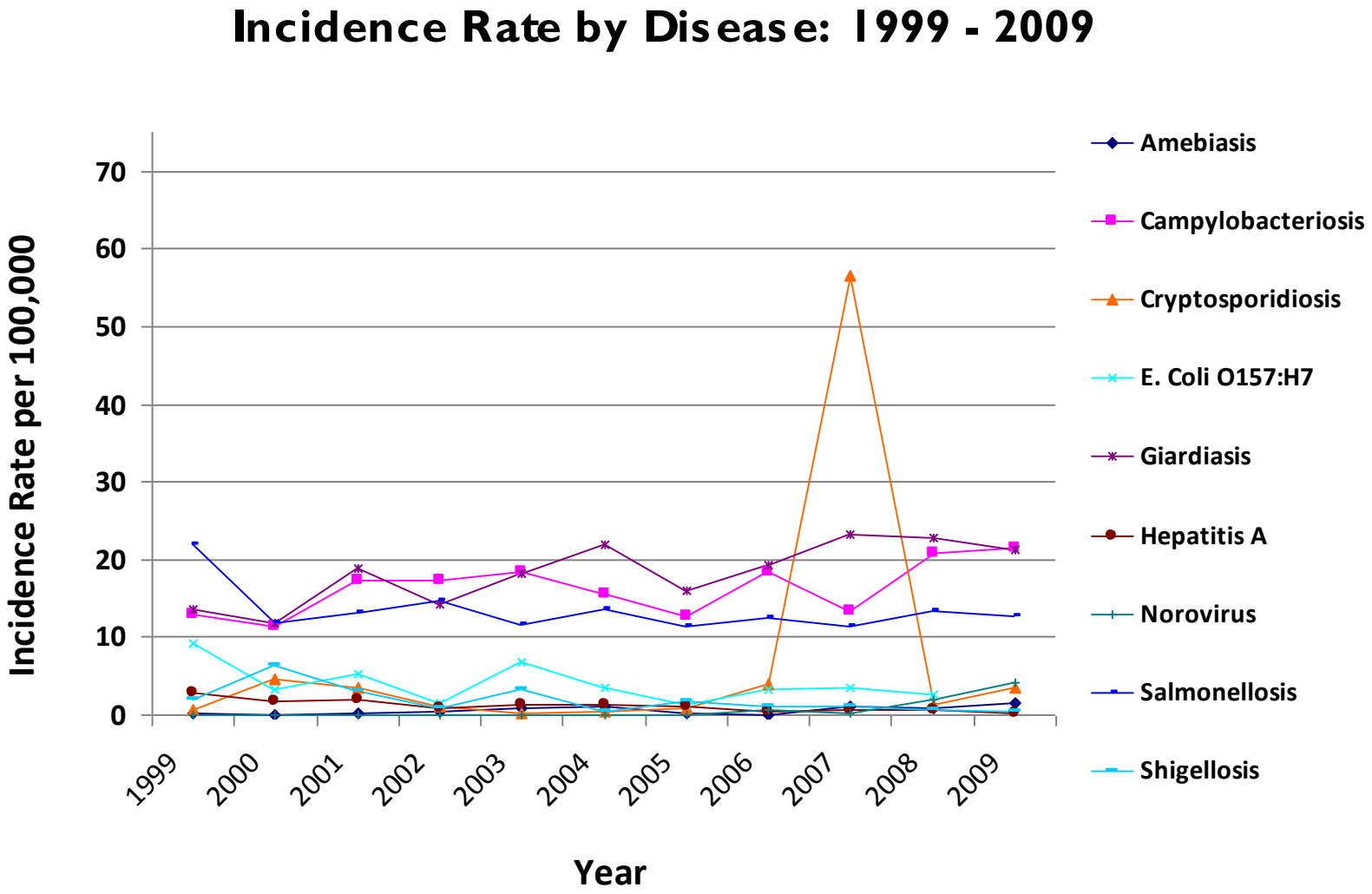
Disease	2005 # (Rate)	2006 # (Rate)	2007 # (Rate)	2008 # (Rate)	2009 # (Rate)
Streptococcus pneumoniae, < 18 yrs	?	1 (0.2)	0 (0)	3 (0.7)	3 (0.7)
Streptococcus pyogenes (Group A), invasive	2 (0.2)	4 (1.0)	3 (0.7)	2 (0.5)	2 (0.5)
Syphilis	7 (1.8)	0 (0)	4 (0.9)	11 (2.6)	16 (3.7)
Tuberculosis	9 (2.3)	3 (0.7)	3 (0.7)	2 (0.5)	6 (1.4)
West Nile virus	4 (1.0)	333 (82.0)	27 (6.5)	11 (2.6)	12 (2.8)
Yersiniosis	0 (0)	1 (0.2)	1 (0.2)	0 (0)	0 (0)

Rate per 100,000

Infectious Diseases

INTESTINAL ILLNESSES

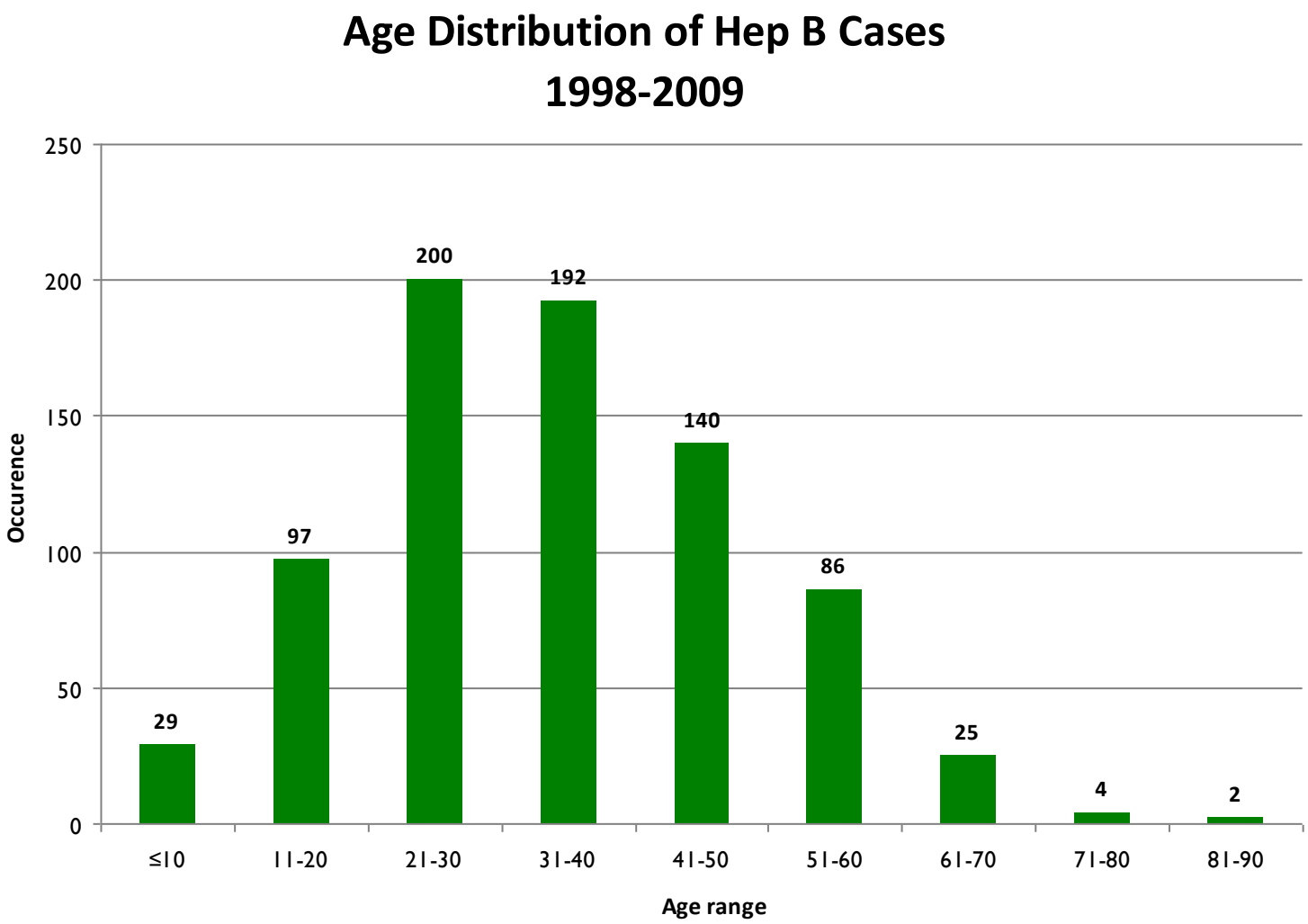
Intestinal Illnesses Summary



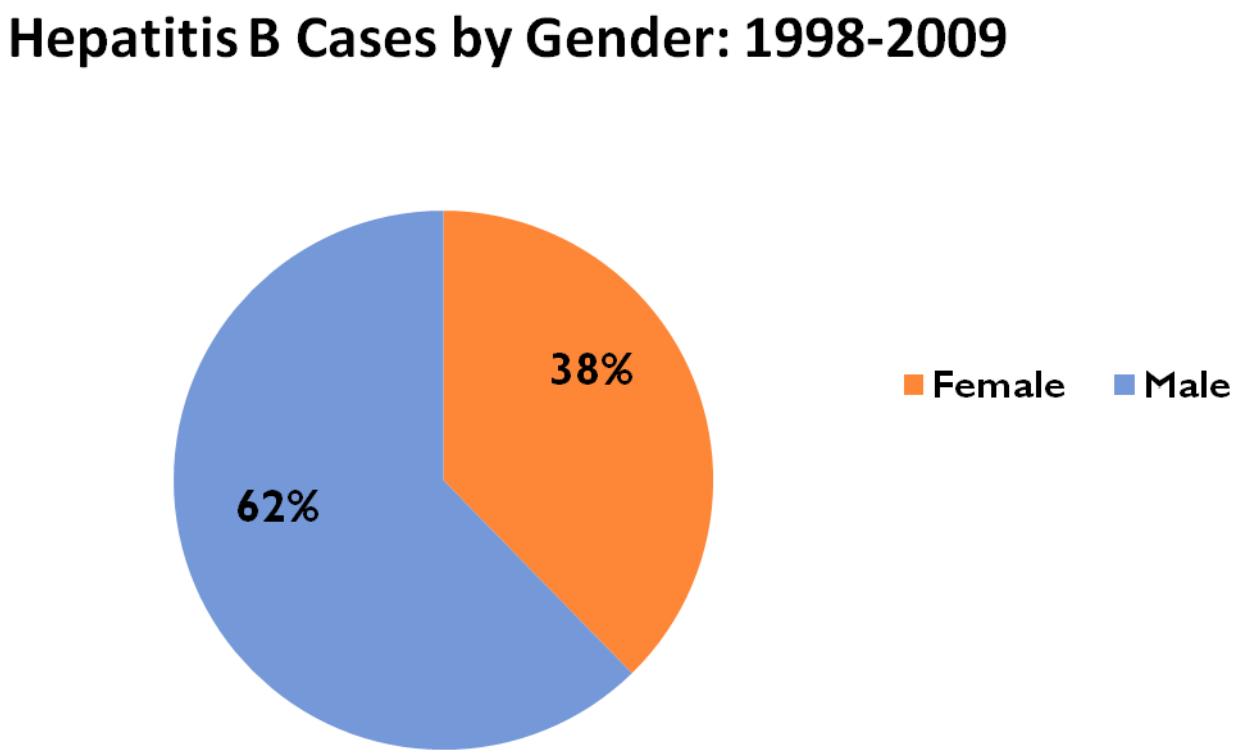
Infectious Diseases

BLOODBORNE DISEASES

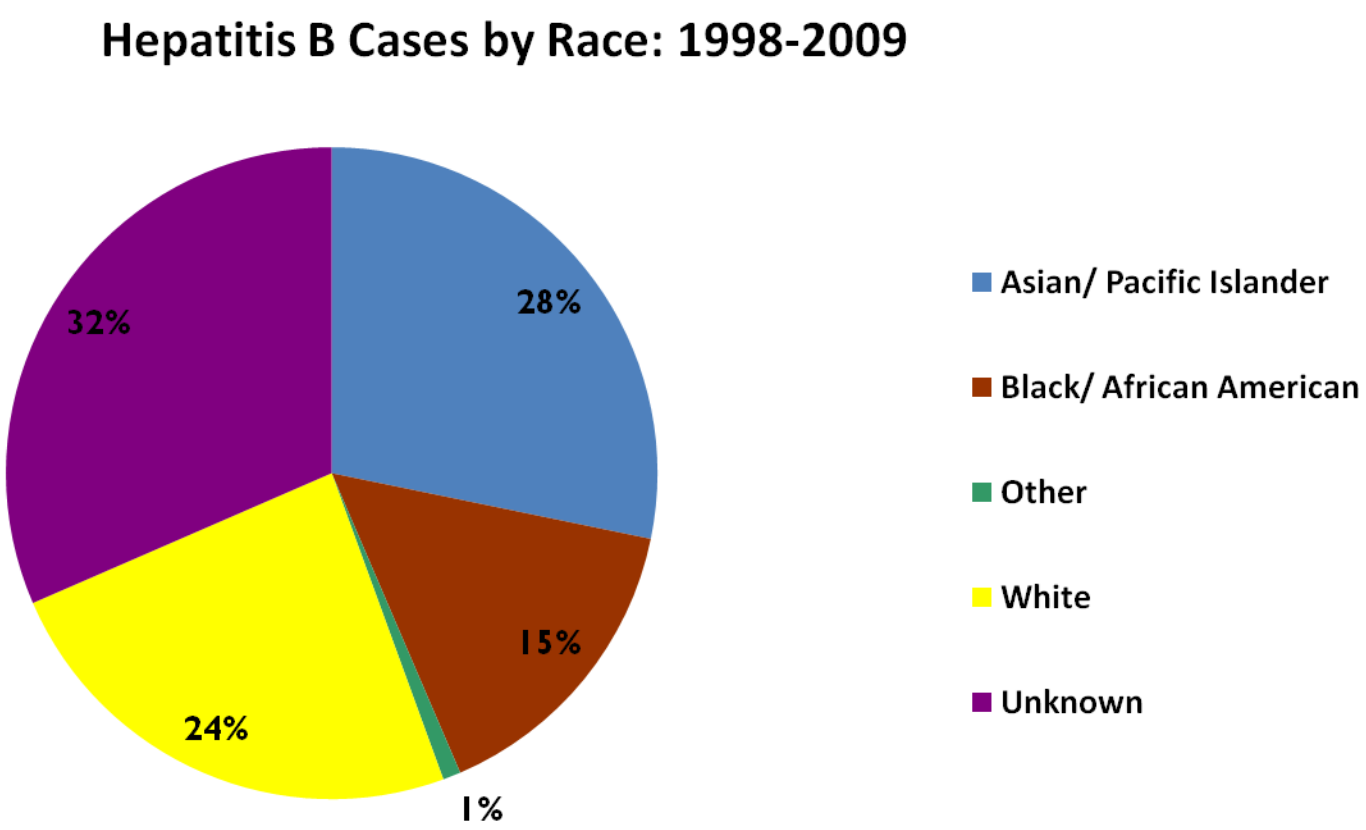
Bloodborne Disease Summary



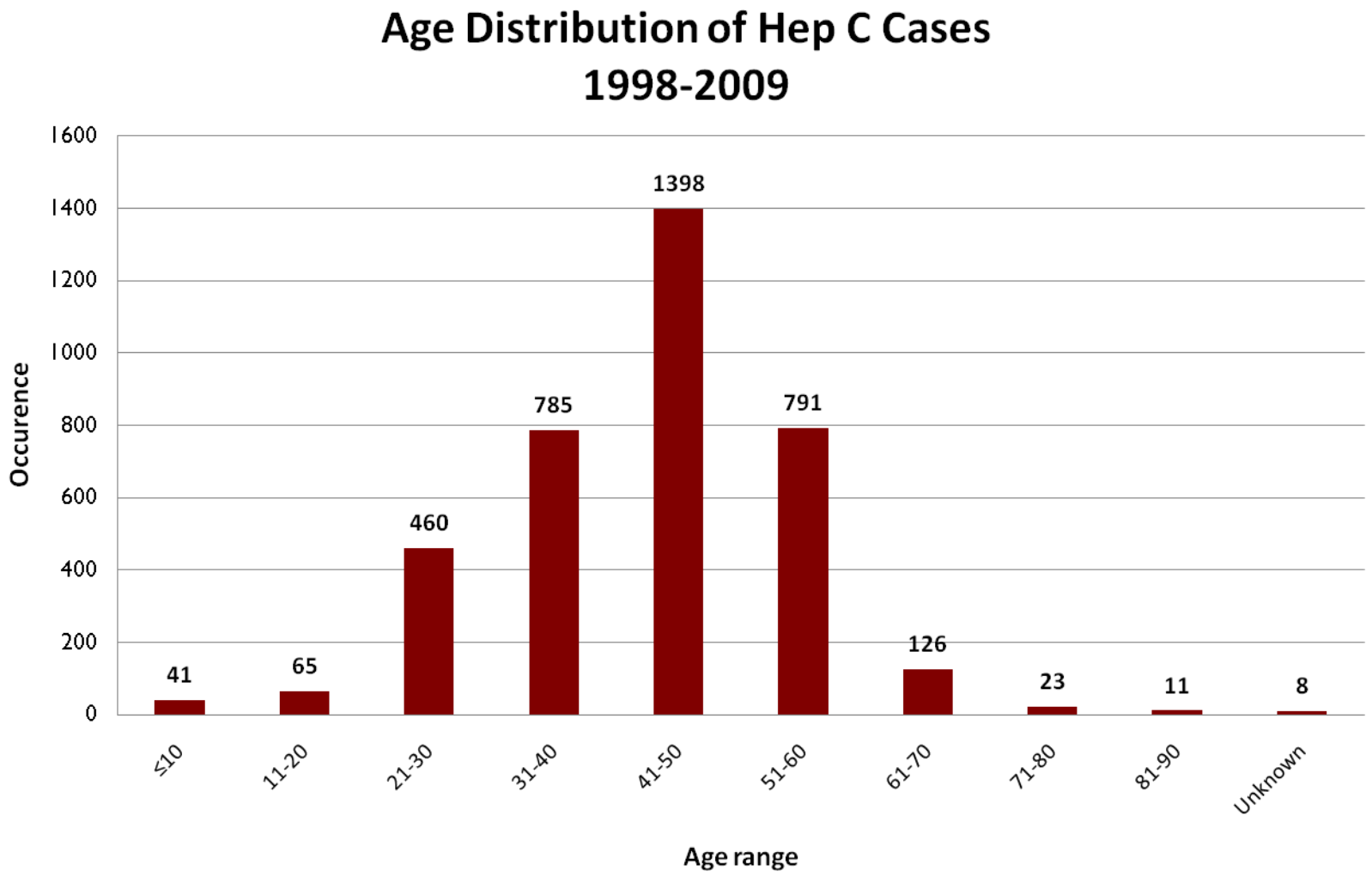
Bloodborne Disease Summary



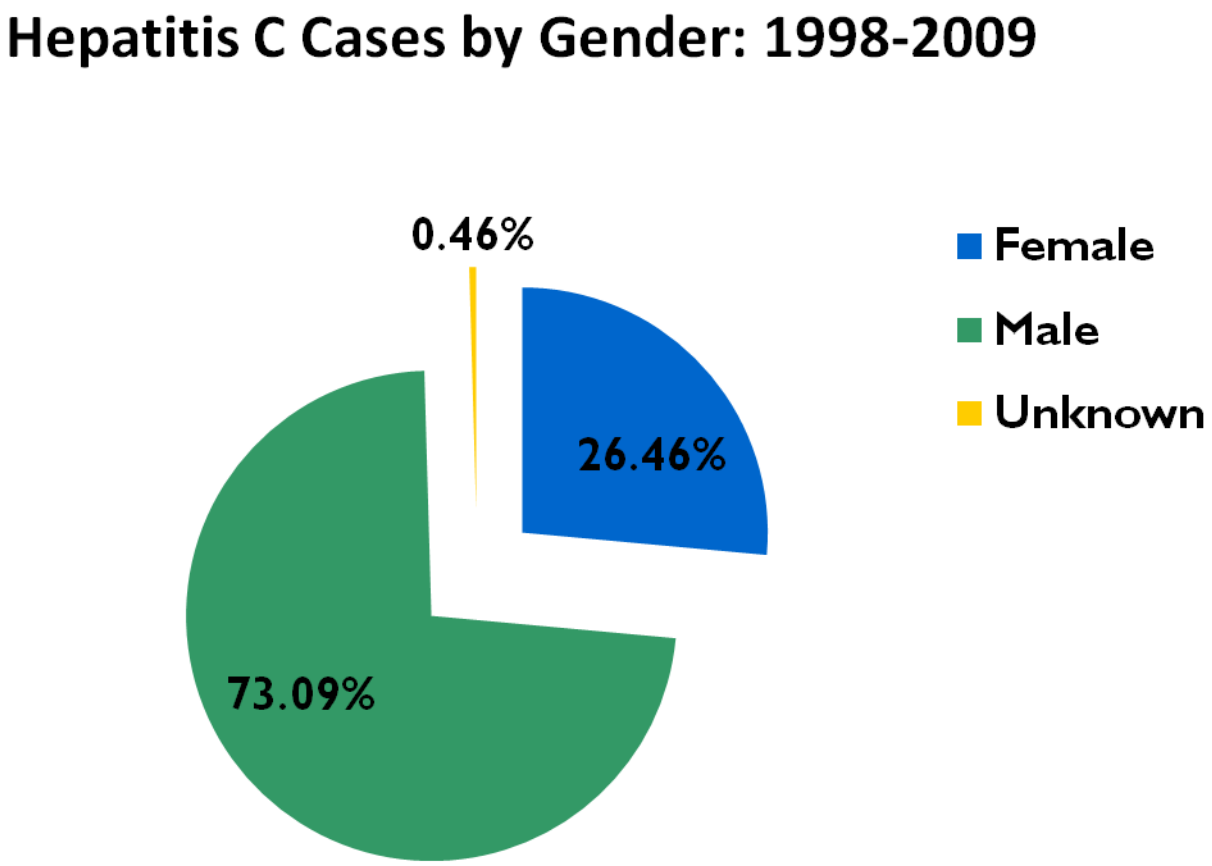
Bloodborne Disease Summary



Bloodborne Disease Summary



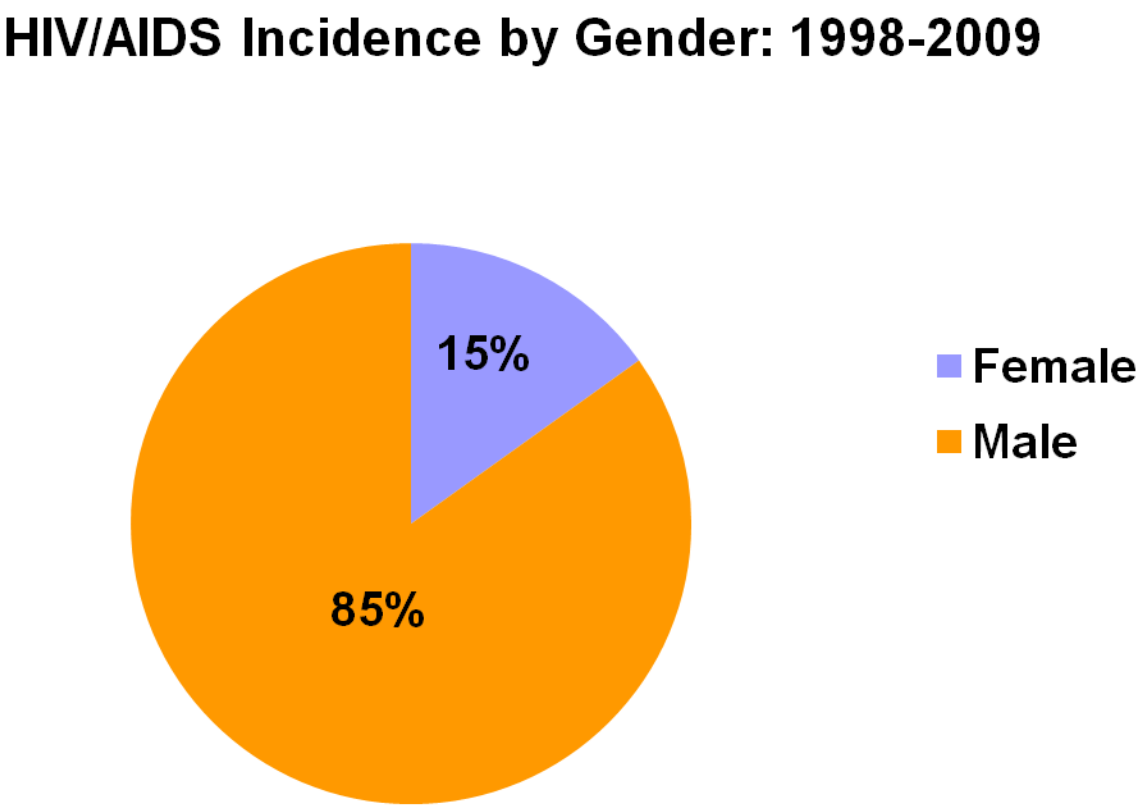
Bloodborne Disease Summary



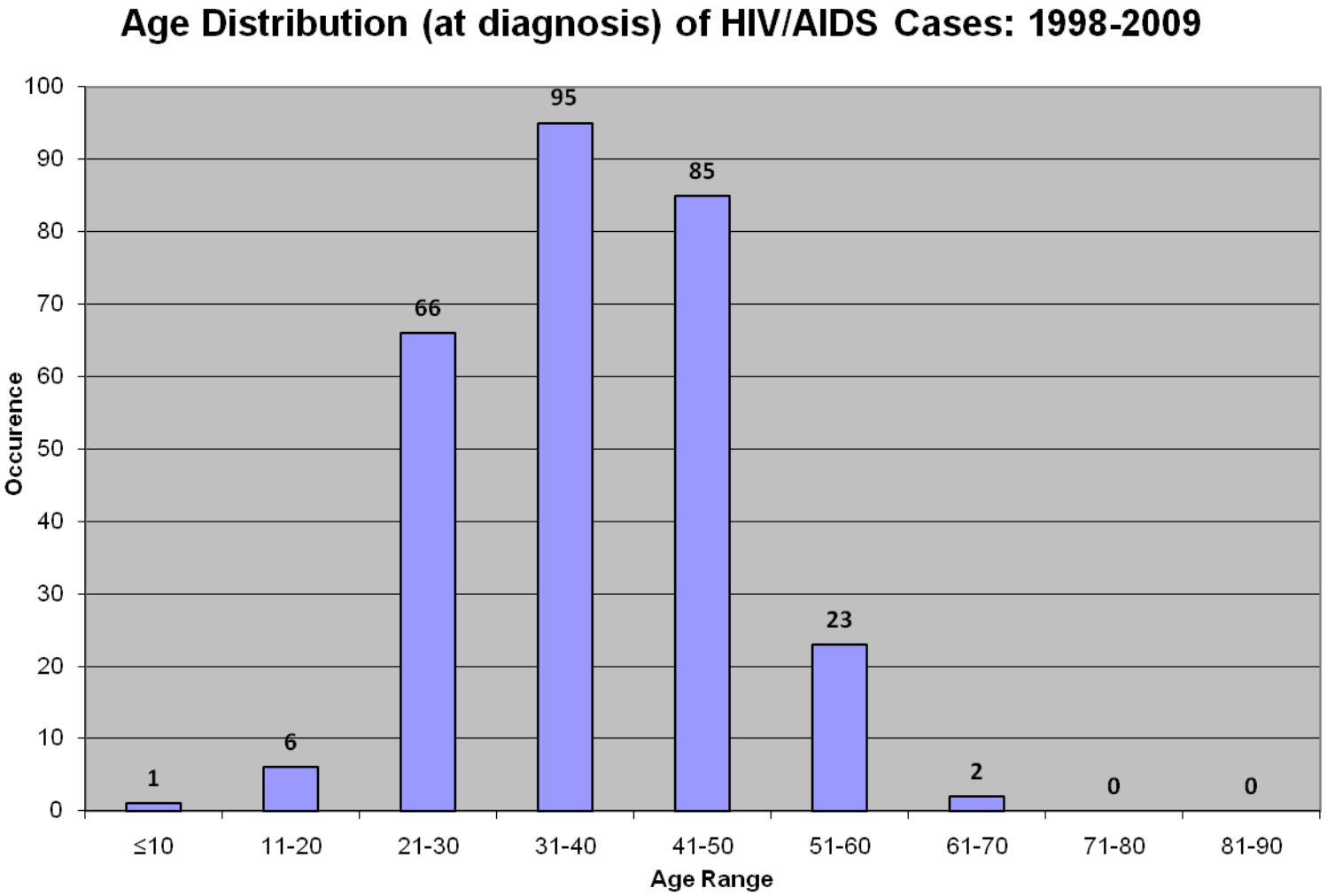
Bloodborne Disease Summary

- **Descriptive Epidemiology: 1998 - 2009**
  - HIV/AIDS
    - Age at time of epidemiologic intervention:
      - Average age 37
      - Minimum age 6
      - Maximum age 67
    - 12% history of incarceration
    - 56% history of substance abuse
    - 11% of cases are foreign born
    - 62% of cases are bisexual men or men who have sex with men (MSM)
    - 4.5% history of co-infection
      - 3.2% Chlamydia, Gonorrhea, Herpes, or Syphilis
      - 1.3% Tuberculosis

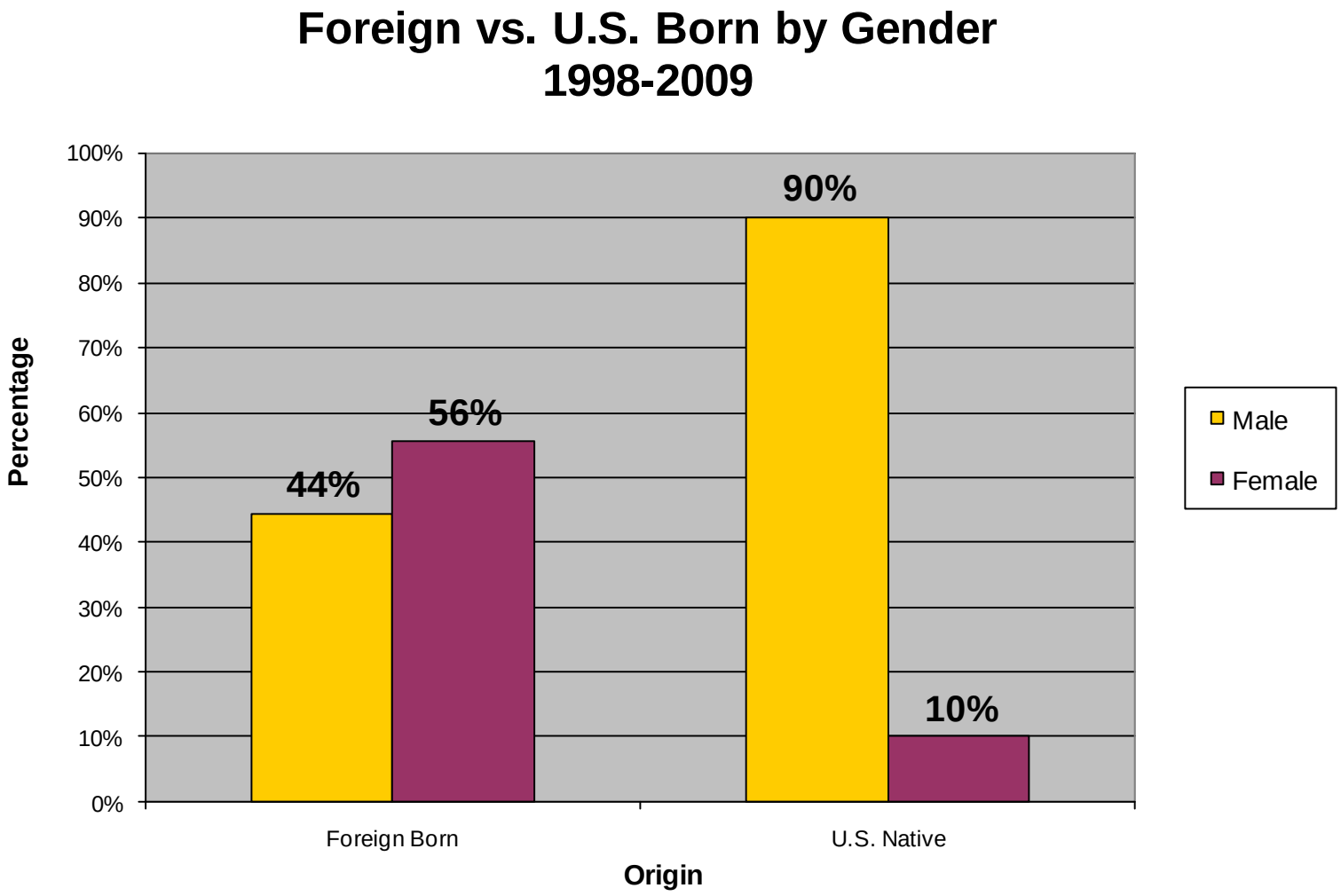
Bloodborne Disease Summary



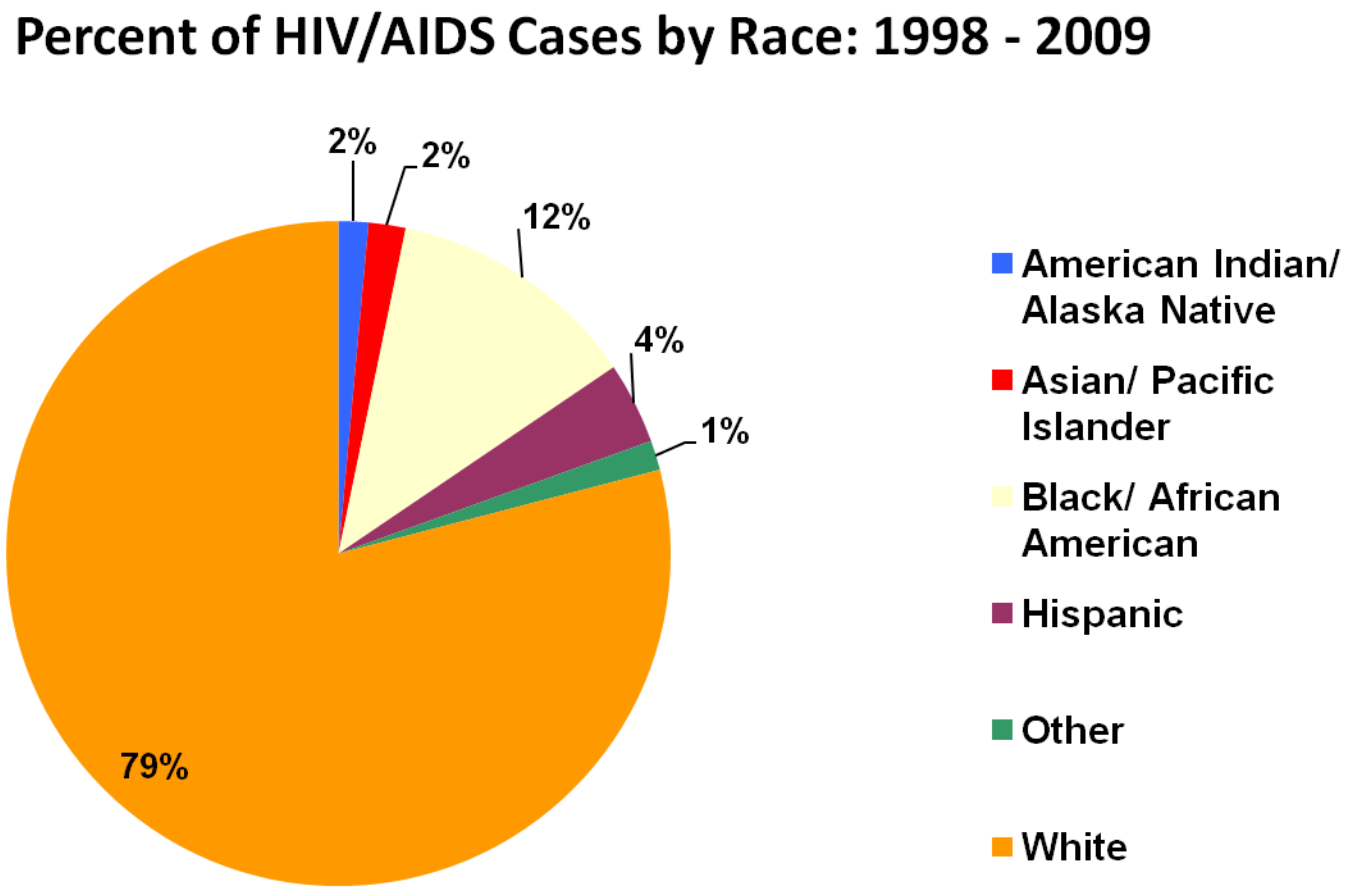
Bloodborne Disease Summary



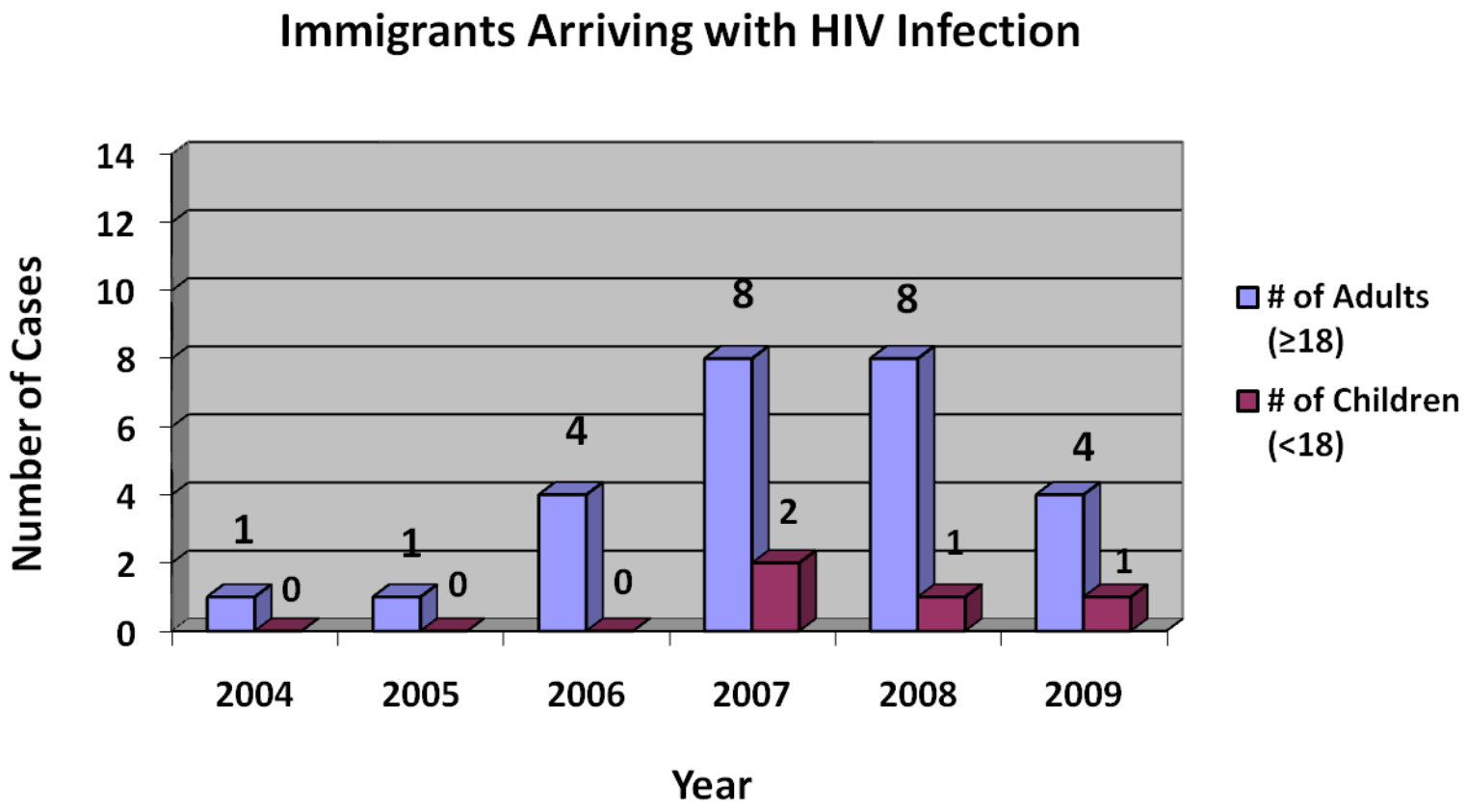
Bloodborne Disease Summary



Bloodborne Disease Summary



HIV Among Newly Arriving Immigrants



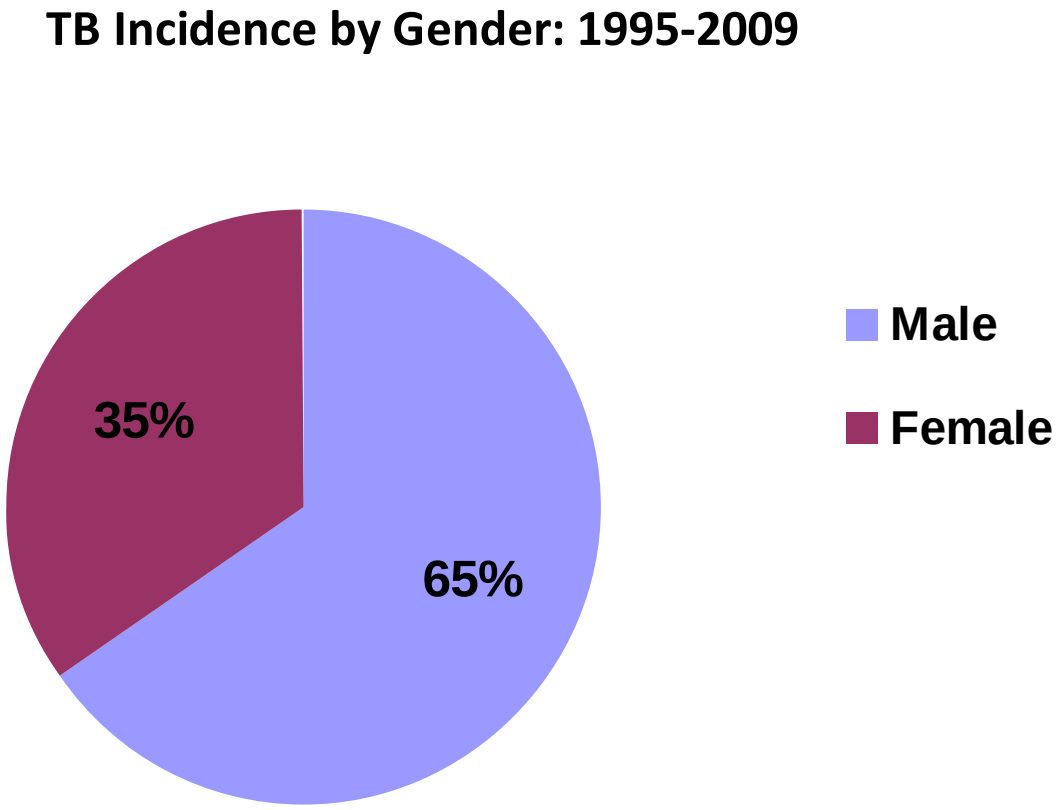
Infectious Diseases

TUBERCULOSIS

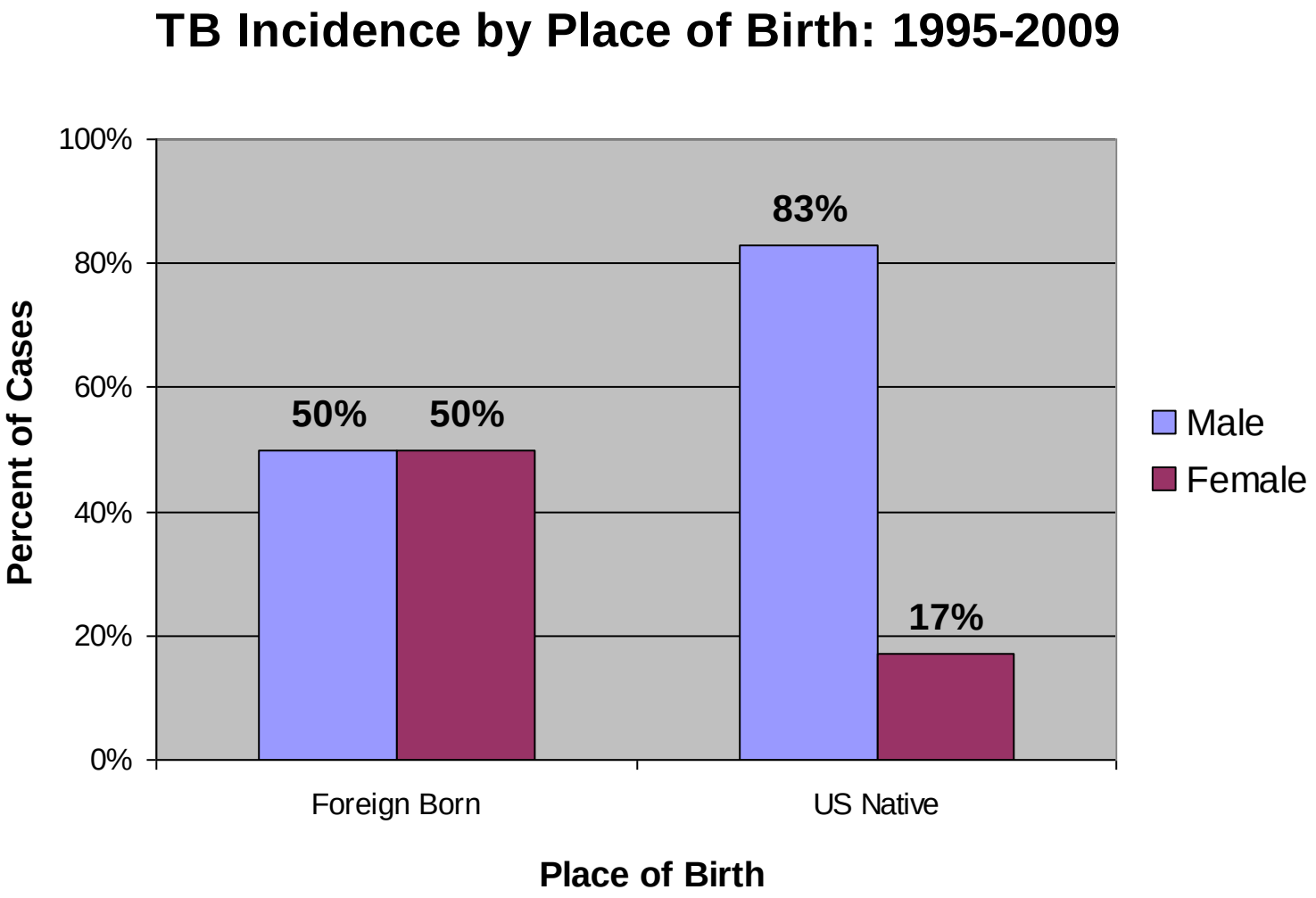
Tuberculosis Summary

- Active pulmonary disease
  - Descriptive epidemiology: 1995-2009
    - 53% White
    - 66% Male
    - 47% U.S. born
    - 21.1% history of substance abuse
    - 7.9% history of incarceration
    - 21.1% history of homelessness

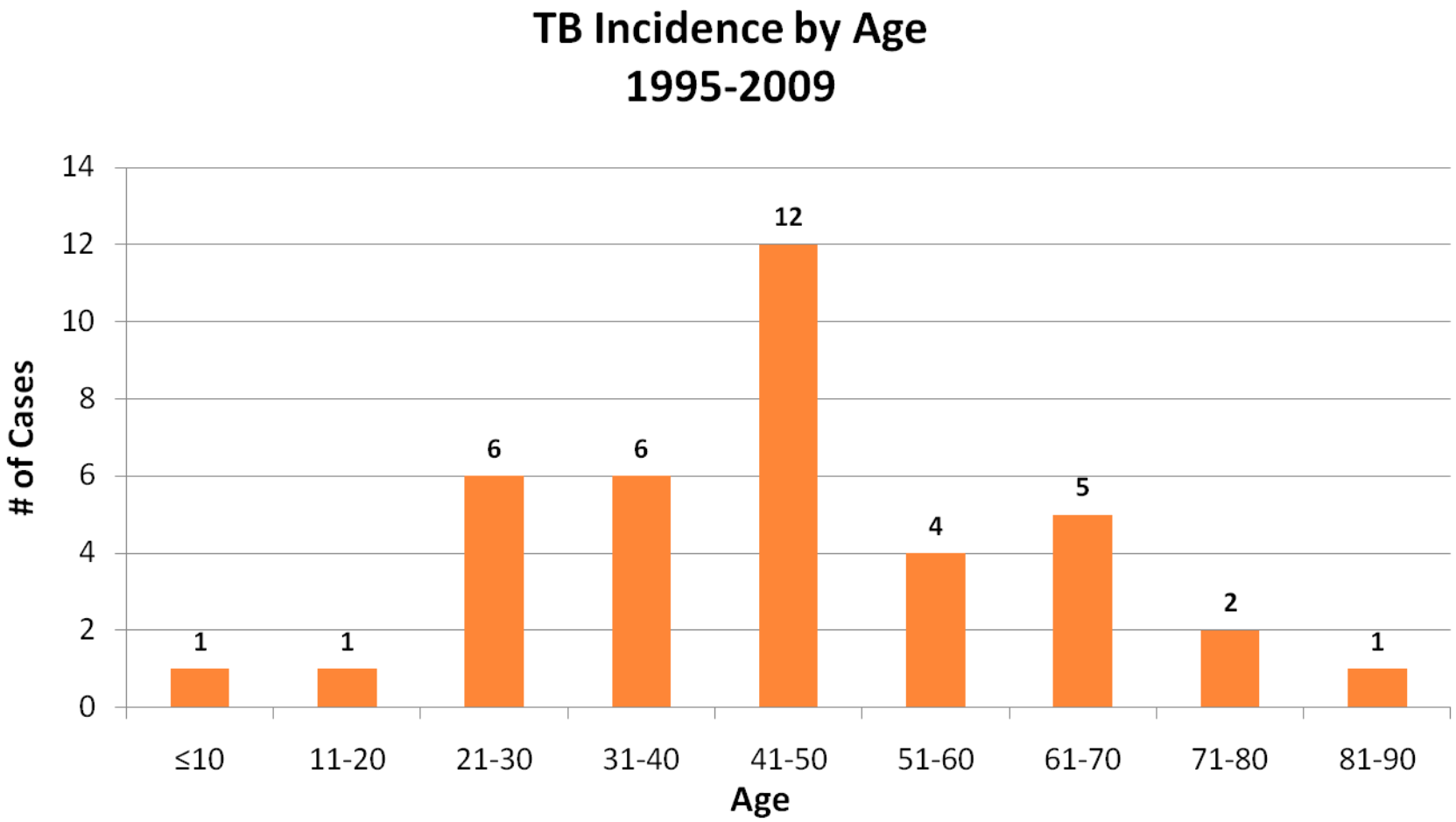
Tuberculosis Summary



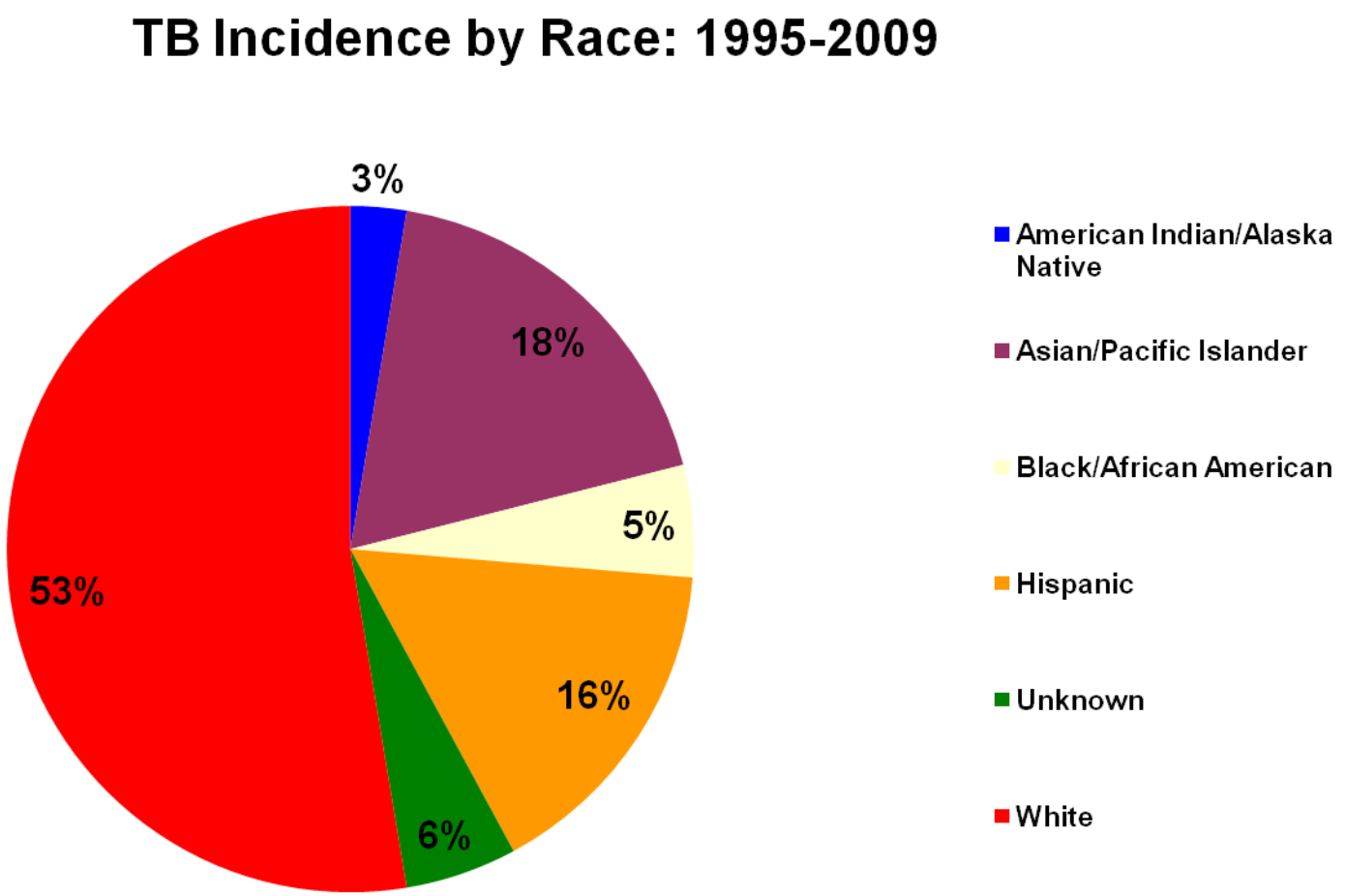
Tuberculosis Summary



Tuberculosis Summary



Tuberculosis Summary



Infectious Diseases

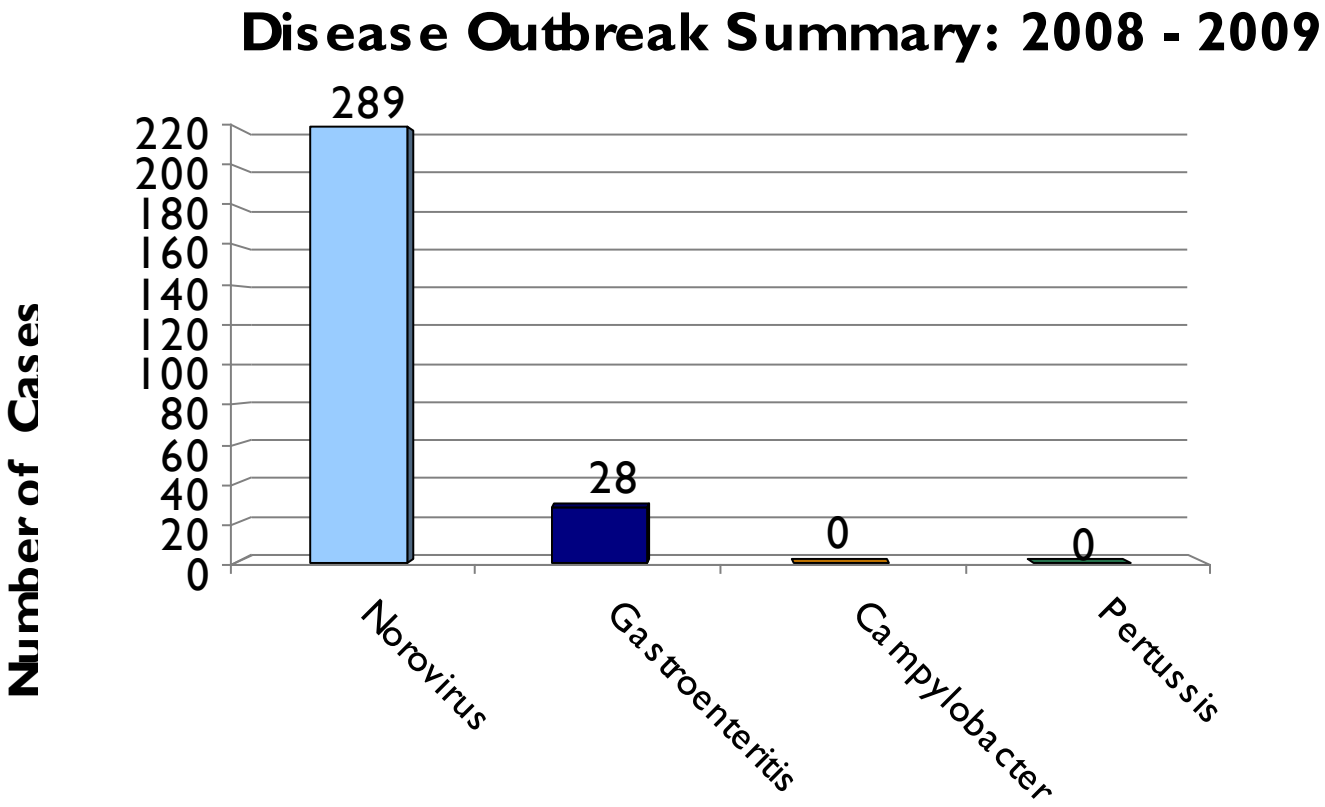
LEGAL AUTHORITY

Legal Authority Summary

Infectious Diseases

OUTBREAK SUMMARY

Outbreak Summary



The above graph displays the number of cases epidemiologically linked with one or more outbreaks of each disease listed.

- Collected and analyzed by
  - Nikki Sakata, MPH
  - Katie Morrissey, BS, Student intern

- Questions or Comments can be directed to Nikki Sakata, Program Manager
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  - nsakata@cdhd.idaho.gov