

MORTALITY DATA

Data Source: DOH Florida CHARTS

Presentation developed by: Pam Beck, Operations Manager, Department of Health-Madison
Presented by: Dr. Daniel Perkins, Chief Medical Officer, Madison County Memorial Hospital

10 Leading Causes of Death 2018, Madison County

Cause of Death	Deaths	Percent of Total
Heart Diseases	65	34%
Malignant Neoplasm (Cancer)	41	22%
Cerebrovascular Diseases	16	8%
Chronic Lower Respiratory Disease	15	8%
Unintentional Injury	14	7%
Nephritis, Nephrotic Syndrome, Nephrosis	9	5%
Diabetes Mellitus	7	4%
Essen Hypertension and Hypertensive Renal Disorder	6	3%
Influenza and Pneumonia	5	3%
Alzheimer's Disease	4	2%
Chronic Liver Disease and Cirrhosis	4	2%
Septicemia	4	2%

Each
had 4
deaths



Leading Causes of Infant Mortality Madison County, 2014-2018 Combined

Cause of Death (N=10)	Percent of Total Deaths
Disorders Related to Short Gestation and Low Birth Weight	30%
Sudden Infant Death Syndrome (SIDS)	20%
Newborn Affected by Maternal Complications of Pregnancy	20%
Other Non-rankable Cause of Death	20%
Renal Failure and Other Kidney Disorders	10%

2019 Robert Wood Johnson County Health Ranking Data, Madison County

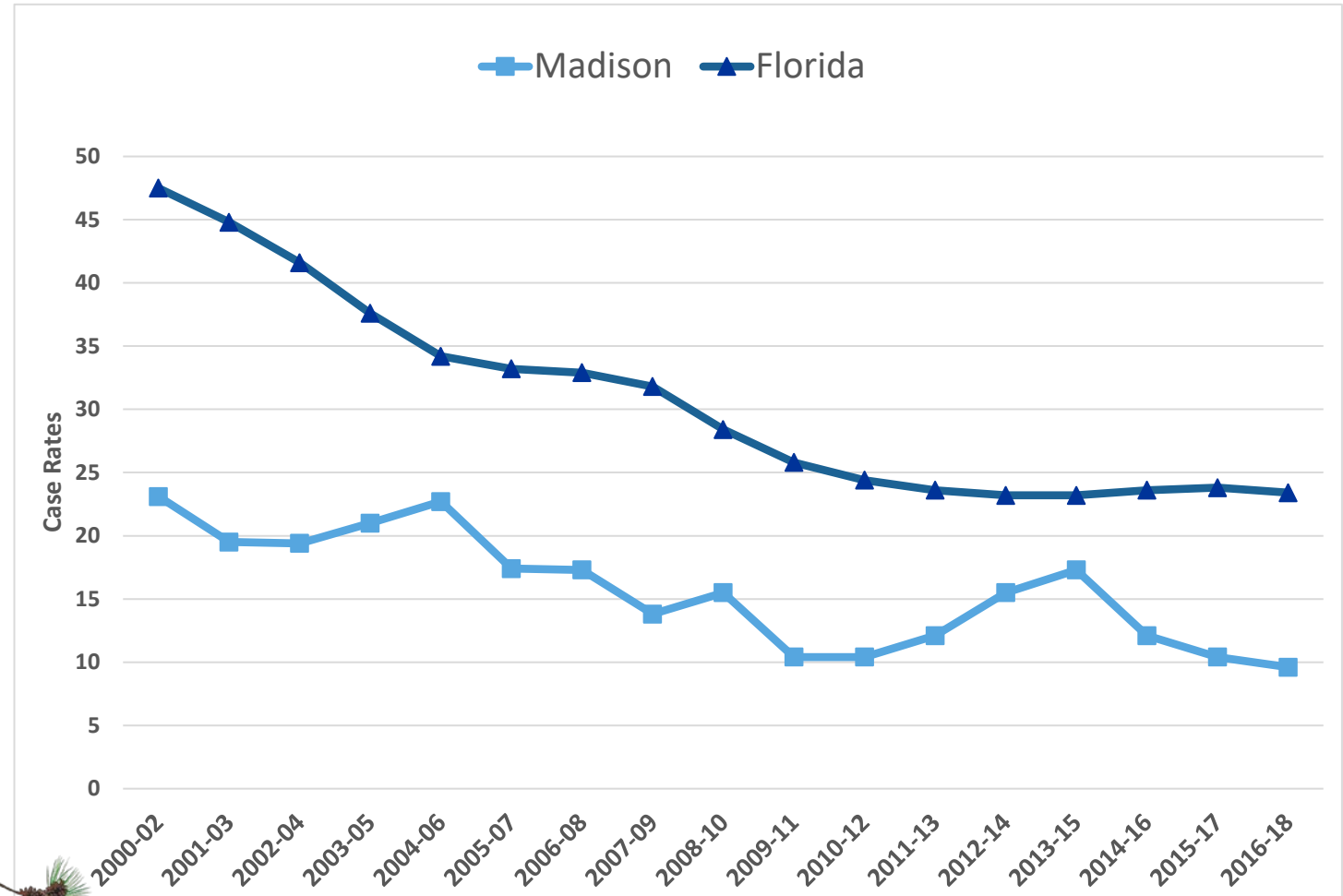
- Life expectancy for Madison County is 76, compared to 80 for Florida
- Child mortality rate is twice that of Florida
- Motor vehicle crash death rates are more than twice that of Florida
- The rate of preventable hospital stays is higher for Madison than Florida

REPORTABLE, INFECTIOUS DISEASES

Data Source: DOH Florida CHARTS, Bureau of Communicable Diseases

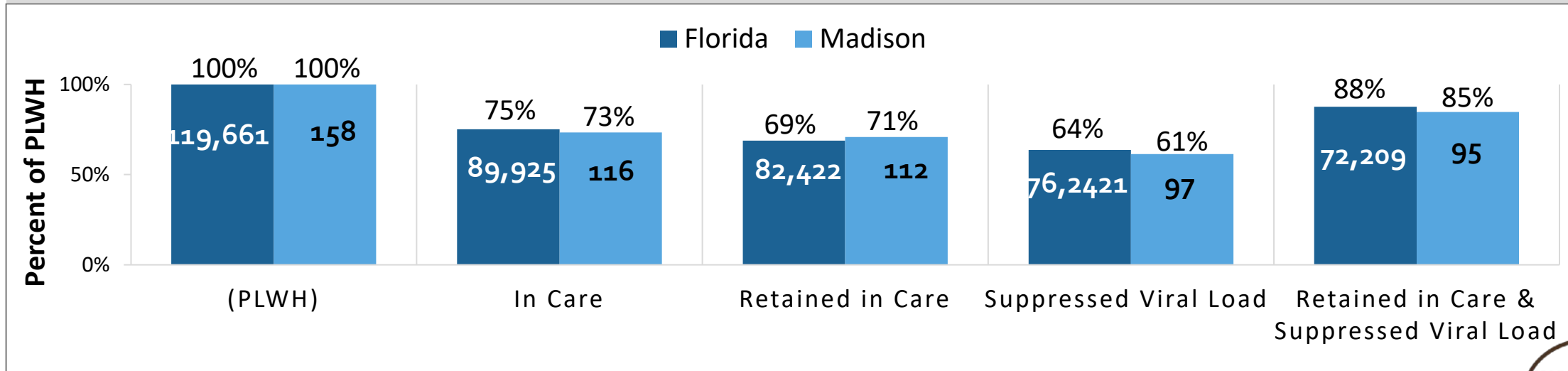
HIV Infection 3-Year Rolling Rates (2000/02 – 2016/18)

- Reported HIV cases increased from 2 in 2017 to 5 in 2018
- Of the 15 HIV cases reported during 2014-2018
 - 80% were Black, non-Hispanic
 - 13% were Hispanic
 - 7% were White, non-Hispanic
 - 66% were Male and 33% were female



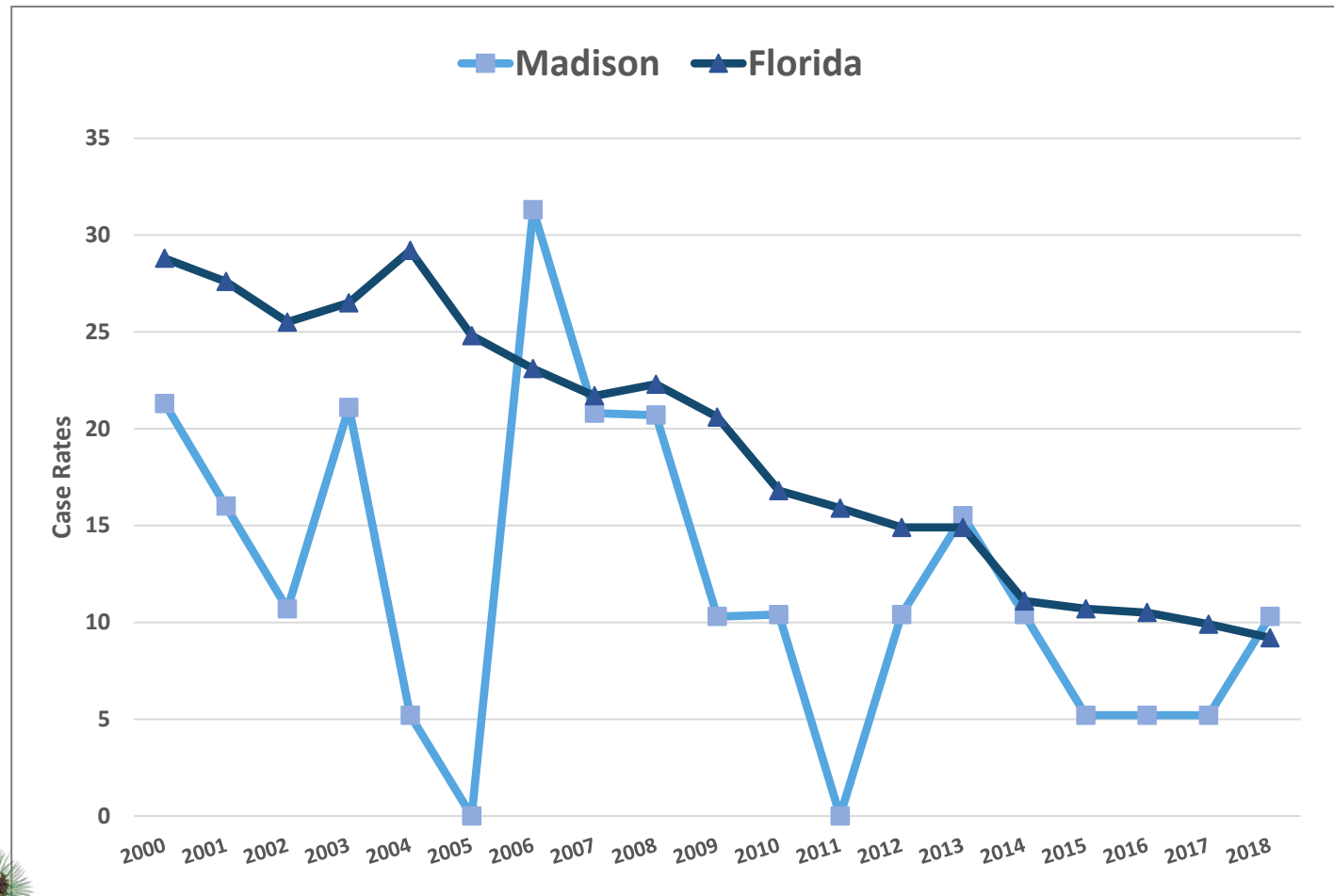
Persons Living with HIV Along the HIV Care Continuum (2018), Madison County and Florida

- PLWH: include persons whose HIV diagnosis occurred during the period specified, data as of 6/30/2019.
- In care: PLWH with at least 1 documented VL or CD4 lab, medical visit, or prescription from 1/1/2018 to 3/31/2019, data as of 6/30/2019.
- Retained in care: PLWH with two or more documented VL or CD4 labs, medical visits, or prescriptions at least three months apart from 1/1/2018 through 6/30/2019, data as of 6/30/2019.
- Suppressed Viral Load: PLWH with a suppressed VL (<200 copies/mL) on the last VL from 1/1/2018 to 3/31/2019, data as of 6/30/2019.
- Retained in Care with Suppressed Viral Load: PLWH with two or more documented VL or CD4 labs, medical visits, or prescriptions at least three months apart from 1/1/2018 through 6/30/2019 that also has a suppressed VL (<200 copies/mL) on the last VL from 1/1/2018 through 3/31/2019, data as of 6/30/2019.



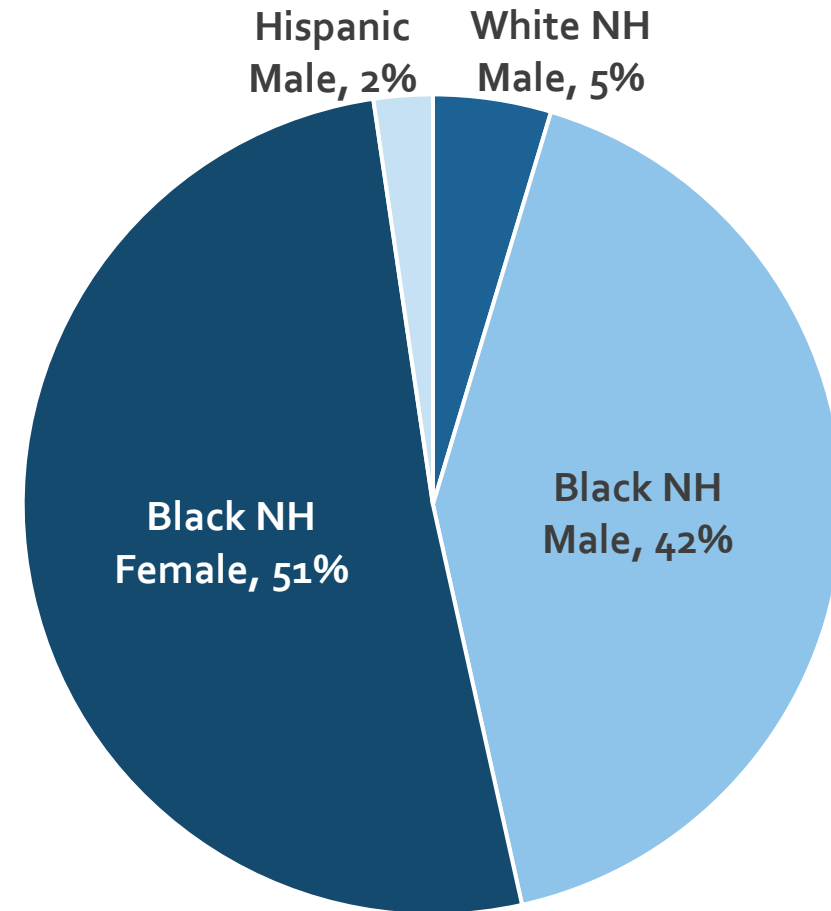
Reported AIDS Case Rates (2000 – 2018) Madison County and Florida

- Trend line represents number of persons reported as an AIDS case, regardless of when the person was diagnosed with HIV
- Progression to AIDS usually represents a treatment failure or someone who was not diagnosed until symptomatic
- Madison County experienced an increase in the AIDS rate in 2018



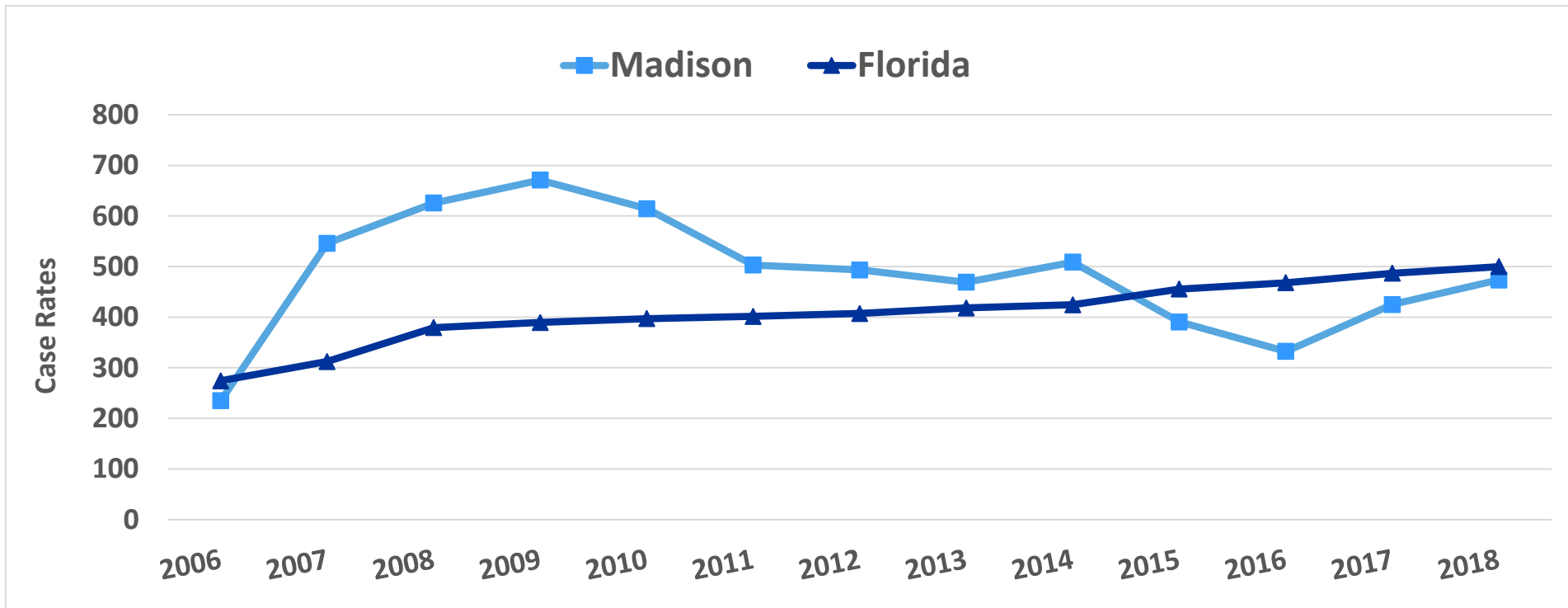
Reported AIDS Cases, by Race/Ethnicity (2000 – 2018), Madison County

- Black, non-Hispanic persons account for 40% of the Madison population and 93% of the AIDS cases reported since 2000
- This is important to consider when addressing health equity



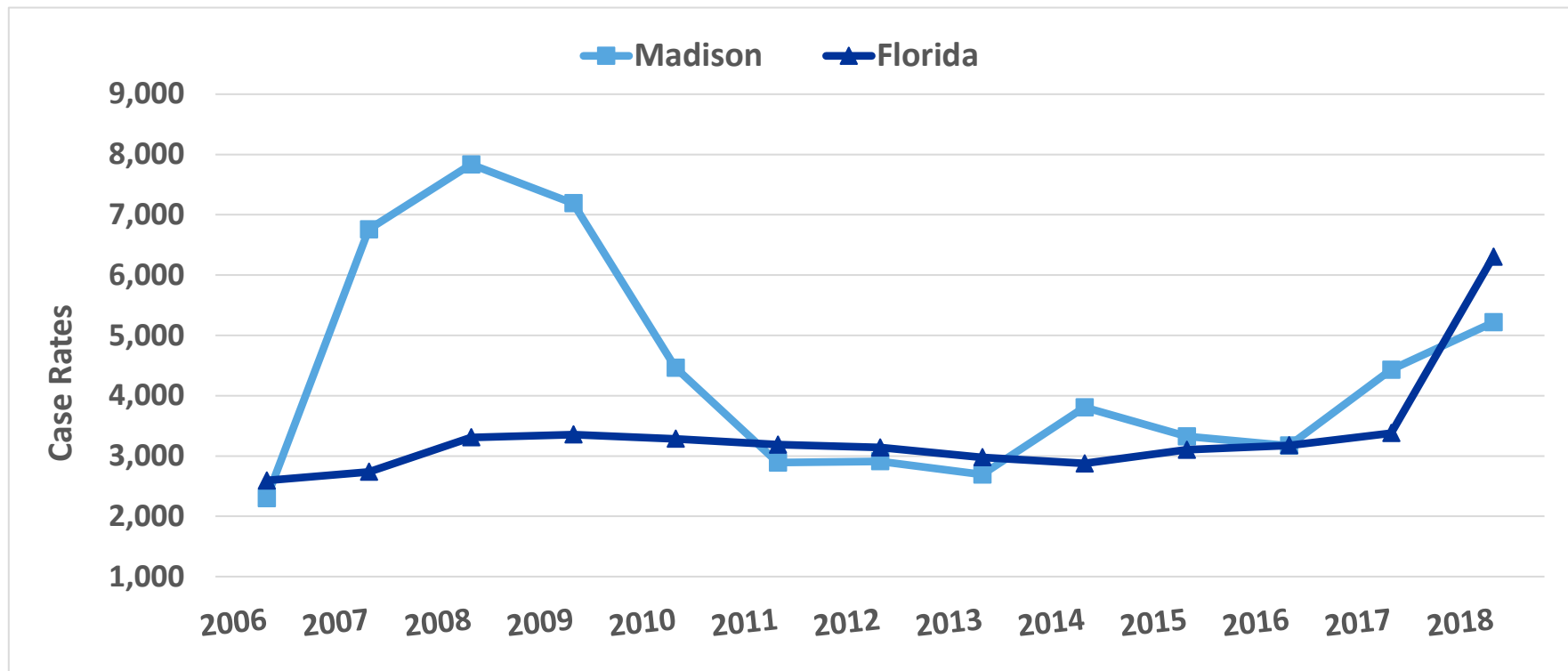
Chlamydia Case Rates, by Year (2006 – 2018), Madison County and Florida

- Chlamydia cases increased from 82 in 2017 to 92 in 2018
- The 2018 Madison County chlamydia rate per 100,000 population was 160.4 for white, non-Hispanics, 875.5 for black, non-Hispanics, and 186.2 for Hispanics



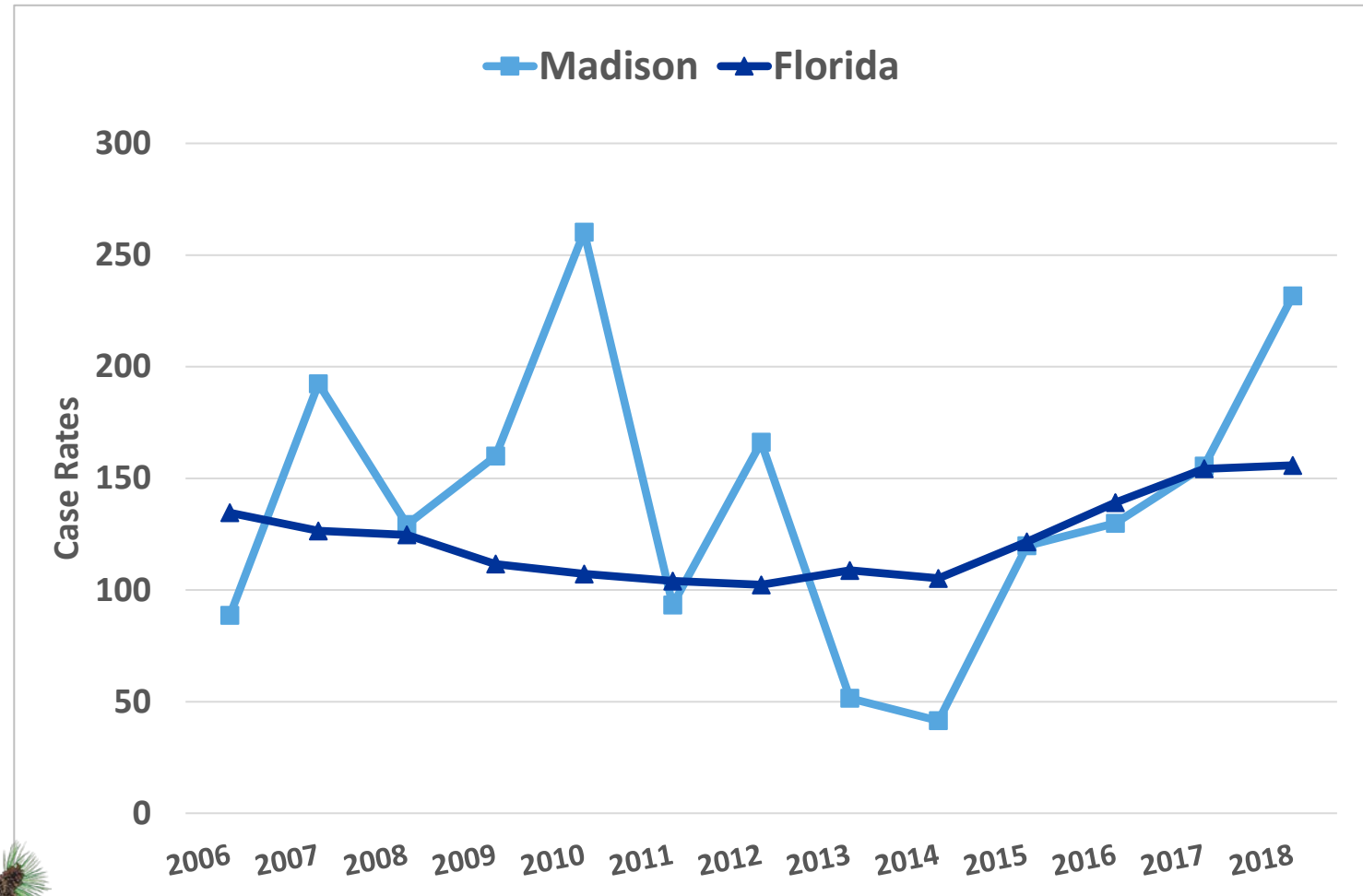
Chlamydia Case Rates for Females Ages 15-19 (2006 – 2018)

- The 2018 chlamydia case rates per 100,000 among females ages 15-19 in Madison County are 2,577.3 for white, non-Hispanics, 3,650.4 for black, non-Hispanics and 6,896.6 for Hispanics



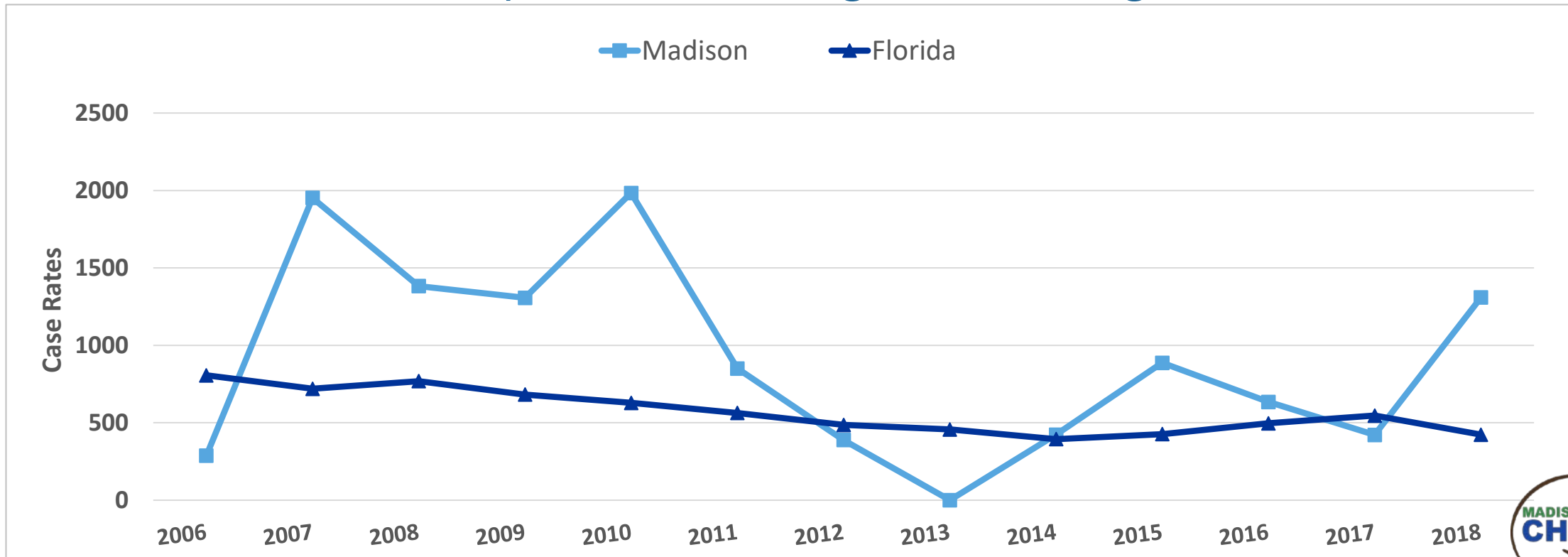
Gonorrhea Case Rates (2006 – 2018) Madison County and Florida

- The number of gonorrhea cases in Madison County increased from 30 in 2017 to 45 in 2018
- The rate per 100,000 population for Madison in 2018 was 45.3 for white, non-Hispanics, 162.7 for black, non-Hispanics and 0.0 for Hispanics



Gonorrhea Case Rates for Females Ages 15-19 (2006-2018)

- The 2018 gonorrhea rate per 100,000 for females ages 15-19 was 515.5 for white, non-Hispanics and 3,500.0 for black, non-Hispanics
There were no Hispanic females ages 15-19 diagnosed in 2018



Syphilis in Madison County

- There was one infectious syphilis case diagnosed in Madison County in 2018
- There have been 10 early syphilis cases diagnosed in Madison County from 2006 through 2018
 - 1 case was a White, non-Hispanic male
 - 6 cases were Black, non-Hispanic males
 - 2 cases were Black, non-Hispanic females
 - 1 case was a Hispanic male
- There have been no congenital syphilis cases diagnosed in Madison County during 2006-2018

Other Reportable Diseases or Conditions

Data Source: DOH Florida CHARTS, Bureau of Epidemiology

Central Nervous System Diseases and Bactermias, 2000-2018, Madison County

Disease or Condition and Definition	Number Cases	Comments
<i>Creutzfeldt-Jakob Disease</i> – a fatal neurodegenerative disease	0	
<i>Haemophilus influenzae Invasive Disease</i> – a bacterial infection that can cause anything from mild ear infections to bloodstream infections	5	2 cases reported in 2017
<i>Meningitis, Bacterial or Mycotic</i> - A bacterial or viral infection of the fluid surrounding the brain and spinal cord that causes swelling of the membranes covering the brain and spinal cord	1	
<i>Staphylococcus aureus Infection Resistant to Vancomycin</i> – a common bacteria found on skin and in the nose. We are tracking resistance to Vancomycin.	0	
<i>Streptococcus pneumoniae Invasive Disease</i> – this bacteria can cause many types of illnesses, including ear infections and meningitis	6	1 case reported in 2018

Enteric, Food and Waterborne Diseases 2000-2018, Madison County

Disease or Condition	Cases	Disease or Condition	Cases
Amebic Encephalitis	0	Listeriosis	0
Campylobacteriosis	21	Neurotoxic Shellfish Poisoning	0
Cholera	0	Salmonella Typhi Infection	0
Ciguatera Fish Poisoning	0	Salmonellosis	71
Cryptosporidiosis	8	Saxitoxin Poisoning	0
Cyclosporiasis	0	Shiga Toxin Producing Escherichia coli	3
Giardiasis, Acute	17	Shigellosis	29
Hemolytic Uremic Syndrome (HUS)	0	Staphylococcal Enterotoxin B Poisoning	0
Legionellosis	0	Vibriosis	2

Note that diseases or conditions highlighted in red had at least one case reported in 2018

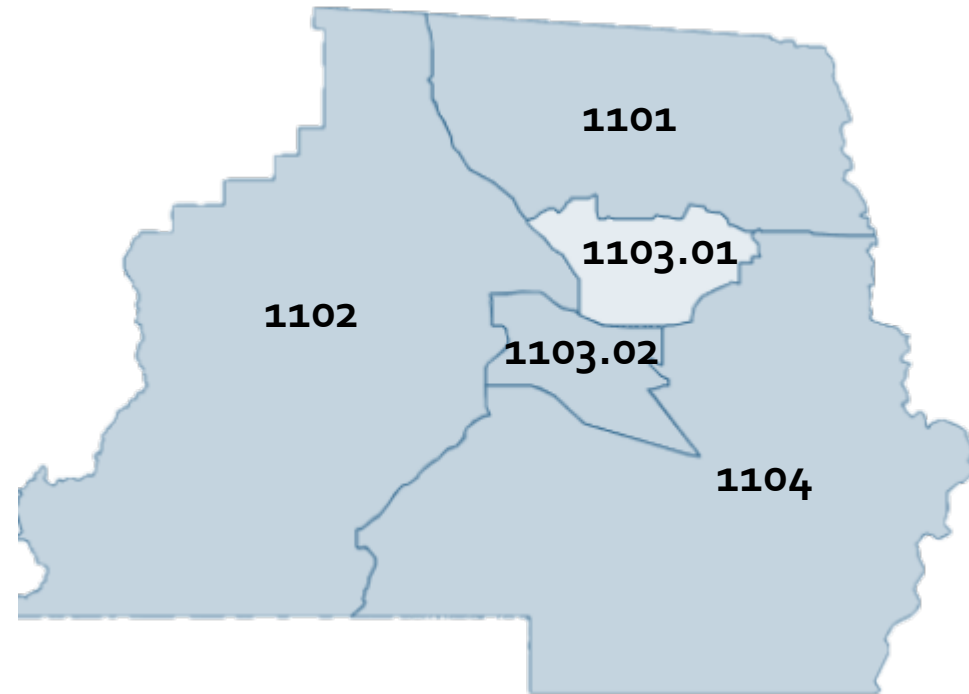
Environmental Conditions, 2008-2018 Madison County

Disease or Condition	Cases
Arsenic Poisoning	0
Carbon Monoxide Poisoning	0
Lead Poisoning	3
Mercury Poisoning	0
Pesticide Related Illness and Injury	2
Ricin Toxin Poisoning	0

Data are not available by race/ethnicity or gender

Influenza and Pneumonia Deaths by Census Tract, 2014-2018, Madison County

- Total deaths = 22
- Census tract 1103.01 had two deaths during the time period
- All other census tracts had five deaths during the time period
- Breakdown by race/ethnicity
 - 16 White, non-Hispanic
 - 6 Black, non-Hispanic
 - 0 Hispanic
- 9 Males, 13 Females



Other Reportable Diseases, 2000-2018

Madison County

Disease or Condition	Cases
Anthrax	0
Botulism, Foodborne	0
Botulism, Infant	0
Botulism, Wound	0
Glanders (<i>Burkholderia mallei</i>)	0
Hansen's Disease (Leprosy)	0
Melioidosis (<i>Burkholderia pseudomallei</i>)	0
Smallpox	0
Vaccinia Disease	0
Viral Hemorrhagic Fever	0

Septicemia Deaths by Census Tract 2014-2018, Madison County

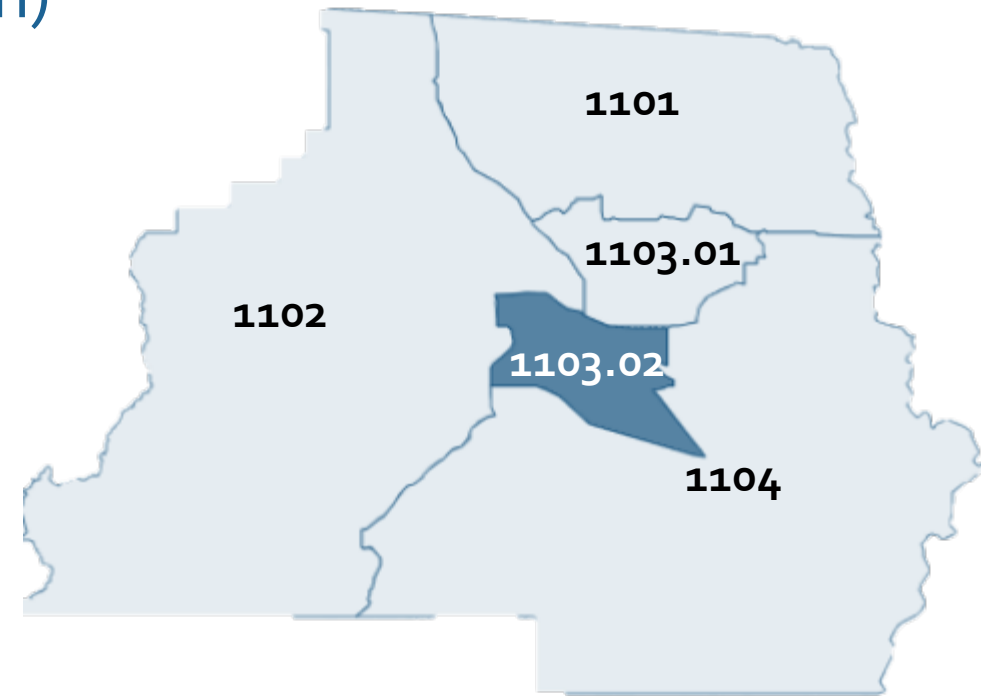
- Breakdown by census tract (1 unknown)

- 1101 = 2
- 1102 = 2
- 1103.01 = 2
- 1103.02 = 6
- 1104 = 2

- Breakdown by race/ethnicity

- 5 White, non-Hispanic
- 12 Black, non-Hispanic
- 0 Hispanic

- 7 Males, 8 Females



Tuberculosis in Madison County, 2000-2018

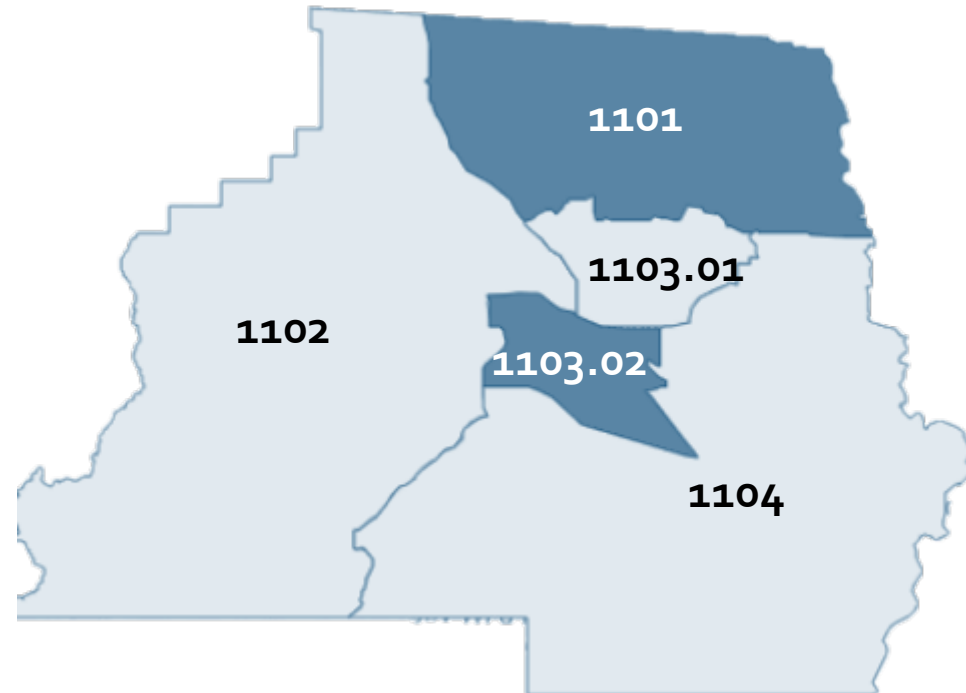
- There were 13 tuberculosis cases diagnosed in Madison County between 2000 and 2018, including one in 2018
- Data are not available by race/ethnicity or gender
- There were no cases of tuberculosis in children under the age of 15 during the time period
- There was one death from tuberculosis in Madison County in 2000

Viral Hepatitis in Madison County 2000-2018

- **Hepatitis A**
 - 3 Hepatitis A cases
- **Hepatitis B**
 - 6 acute Hepatitis B cases
 - 20 chronic Hepatitis B cases
 - 0 Perinatal Hepatitis B cases
 - 3 reported positive Hepatitis B Surface Antigen Results in Pregnant Women
- **Hepatitis C**
 - 0 acute Hepatitis C cases
 - 212 chronic Hepatitis C cases
- No cases of Hepatitis D, E or G reported in Madison County since data collection in 2006
- Data Not Available by Race or Gender

Viral Hepatitis Deaths by Census Tract 2014-2018, Madison County

- Census tracts 1101 and 1103.02 each had one death due to viral hepatitis during the time period.
- Breakdown by race/ethnicity
 - 1 White, non-Hispanic
 - 1 Black, non-Hispanic
 - 0 Hispanic
- 2 Males, 0 Females



Vaccine Preventable Diseases 2000-2018, Madison County

- Pertussis – 1 case reported in 2013 and 1 case reported in 2014
- Varicella (Chickenpox) - 1 case each reported in 2013, 2014 and 2017
- Meningococcal disease - 1 case in 2006
- No cases of the following diseases since 1996
 - Diphtheria
 - Measles
 - Mumps
 - Poliomyelitis
 - Rubella
 - Tetanus

Vectorborne and Zoonotic Diseases 2000-2018, Madison County

Disease or Condition	Cases	Disease or Condition	Cases
Anaplasmosis	0	Rabies, Animal	7
Brucellosis	0	Rabies, Human	0
California Serogroup Virus Disease	0	Rabies, Possible Exposure	19
Dengue Fever	0	Rocky Mountain Spotted Fever	4
Eastern Equine Encephalitis	0	Severe Acute Respiratory Syndrome	0
Ehrlichiosis	2	St. Louis Encephalitis	0
Hantavirus Infection	0	Trichinellosis	0
Leptospirosis	0	Tularemia (Francisella tularensis)	0
Malaria	0	Typhus Fever	0
Middle East Respiratory Syndrome	0	Venezuelan Equine Encephalitis	0
Plague	0	West Nile Virus	0
Psittacosis (Ornithosis)	0	Western Equine Encephalitis	0
Q Fever (Coxiella burnetii)	0	Yellow Fever	0

Environmental Health

Data Source: DOH Florida CHARTS, Bureau of Epidemiology

Asthma, Madison County

- There have been four deaths due to asthma during 2000-2017. Of these, two were Black, non-Hispanic males and two were White, non-Hispanic females
- There have been 149 hospitalizations due to asthma in ages 1-5 during 2000-2017. There were none in this age group for 2016 and 2017.
- There have been 51 hospitalizations due to asthma in ages 12-18 during 2000-2017. There were five in 2016 and none in 2017.

Other Environmental Health Madison County

- Three lead poisoning cases between 2010 and 2017
- No carbon monoxide poisoning cases between 2010 and 2017
- ***Unsatisfactory*** facility inspections 2017
 - 12 of 30 biomedical waste facilities (40%)
 - 1 of 23 group care facilities (4.3%)
 - 5 of 61 institutional food service operations (13.1%)
 - 8 of 66 mobile home and RV parks (12.7%)
 - 3 of 23 swimming pool and spa facilities (13%)
 - 0 of 2 tanning facilities (0%)
 - No body piercing facilities
 - No migrant or labor camps