Miami County Public Health

Prevent. Promote. Protect.

2020
Communicable Disease Report

January 1, 2020 – December 31, 2020

Prepared by Miami County Public Health

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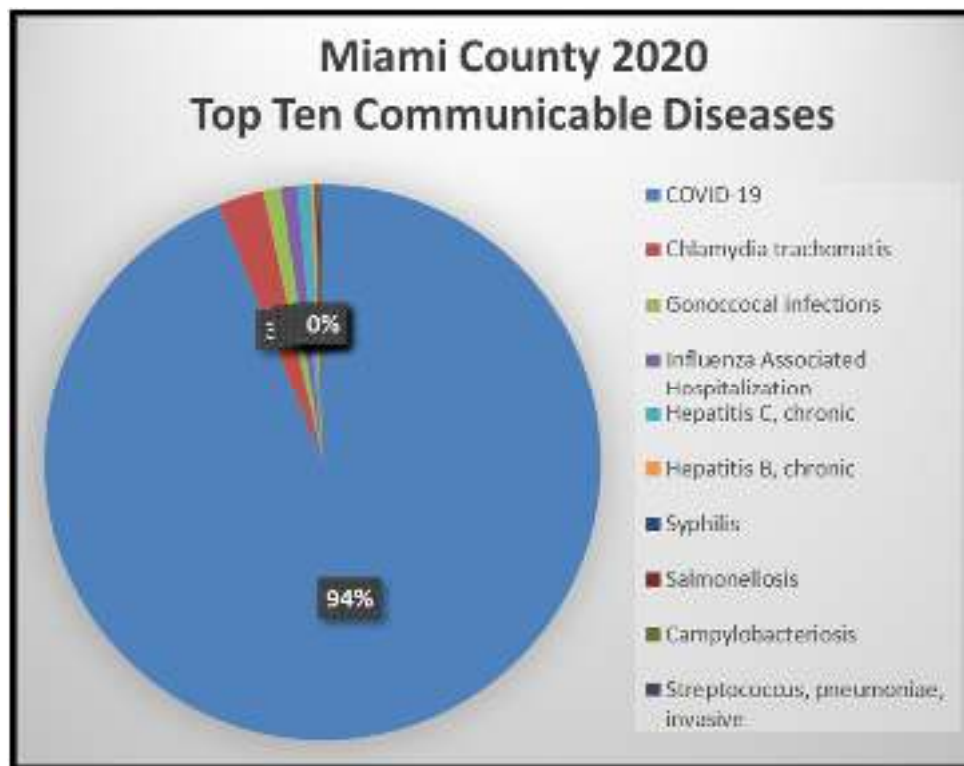Belinda Reilly, BSN, RN

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<u>Communicable Diseases</u>

MIAMI COUNTY
Reportable Communicable Diseases 2014-2020

Reportable Diseases	Miami 2014	Miami 2015	Miami 2016	Miami 2017	Miami 2018	Miami 2019	Miami 2020
Campylobacteriosis	21	12	13	20	13	10	7
Chlamydia	388	278	263	246	242	343	222
COVID-19	0	0	0	0	0	0	7841
CP-CRE	0	0	0	0	5	2	1
Coccidioidomycosis	0	0	0	1	0	2	0
Creutzfeldt-Jakob Disease	0	0	0	0	0	0	1
Cryptosporidiosis	0	1	20	2	2	3	5
Cyclosporiasis	0	0	0	0	0	0	4
E. chaffeensis	0	0	0	0	1	0	0
E. coli 0157	3	3	2	1	2	5	1
Giardiasis	2	1	5	4	10	2	5
Gonococcal infections	74	36	39	53	59	92	87
Haemophilus influenzae	0	0	0	0	0	1	1
Hepatitis A	0	0	0	0	26	33	1
Hepatitis B, acute	7	6	3	3	0	4	1
Hepatitis B, chronic	6	18	11	29	22	27	19
Hepatitis B, perinatal	0	0	0	1	3	2	0
Hepatitis C, acute	8	1	1	2	5	3	1
Hepatitis C, chronic	87	100	127	130	123	77	66
Hepatitis C - Perinatal Infection	0	0	0	0	0	2	0
HiB	1	4	0	0	1	0	0
InfluenzaAssocHospit	38	38	15	82	86	75	78
LaCrosse virus	0	0	0	0	1	0	0
Legionellosis	8	4	1	3	3	1	6
Lyme Disease	0	1	6	6	3	10	3
Measles	0	0	0	0	0	0	0
Meningitis, Bacterial	2	2	1	10	12	5	1
Meningitis, Viral	5	5	4	0	3	2	1
Mumps	1	0	3	1	3	1	1
Mycobacterium, non-TB	3	4	3	0	0	0	0
Mycobacterium, TB	0	0	0	0	0	0	0
Pertussis	12	5	19	15	9	14	3
Rubella	0	0	0	0	0	0	0
Salmonellosis	13	10	14	40	4	11	8
Shigellosis	0	0	0	2	1	1	1
Spotted Fever Rickettsiosis	0	0	0	0	1	2	0
Strep A, Invasive	2	1	5	8	5	10	6
Streptococcal-Group B newborn	0	0	0	0	0	2	0
Strep, Pneumo, Invasive	7	10	7	17	16	8	7
Toxic Shock Syndrome	0	0	0	0	1	1	0
Varicella	3	8	13	17	5	2	5
Vibriosis (not cholera)	0	0	0	0	0	0	1
West Nile Virus	0	0	0	0	0	0	0
Yersiniosis	0	1	0	1	0	1	0
Total per Year	696	551	577	709	679	753	8384

MIAMI COUNTY

2020 Reportable Disease Outbreaks

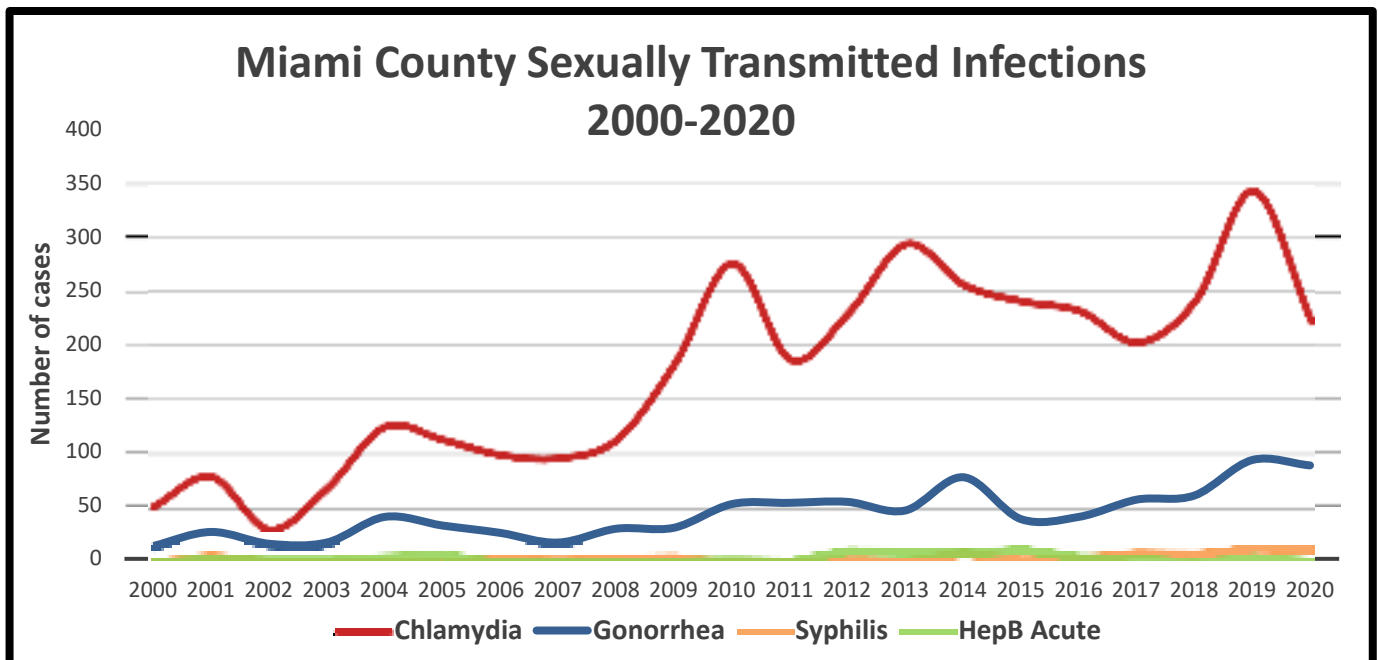### Class A Reportable Disease Outbreak

COVID-19 Pandemic	1

Class B Reportable Disease Outbreak

Cyclosporiasis	1

Sexually Transmitted Infections
2001-2020

Sexually transmitted infections (STIs) are passed from one person to another through intimate physical contact such as heavy petting and from sexual activity. STIs don't always cause symptoms so it is possible to have an infection and not know it. It is important to get tested if you are having sex.*
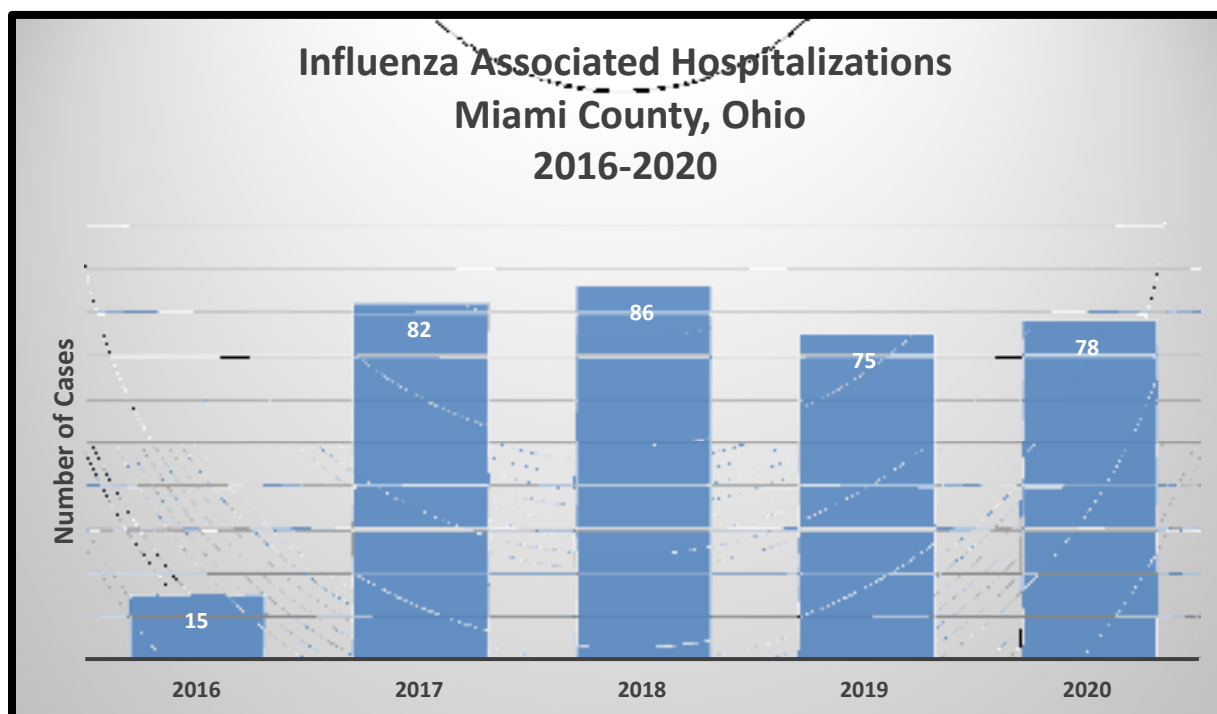

Miami County Sexually Transmitted Infections 2000-2020

In 2020, Chlamydia cases dropped from the previous year, but Gonorrhea cases remained high for the past two years during the pandemic. It must be noted that testing supplies were in short supply due to the pandemic and may not be accurate assessment of the situation.

*Centers for Disease Control and Prevention, Retrieved July 30, 2018 at https://www.cdc.gov/std/default.htm.
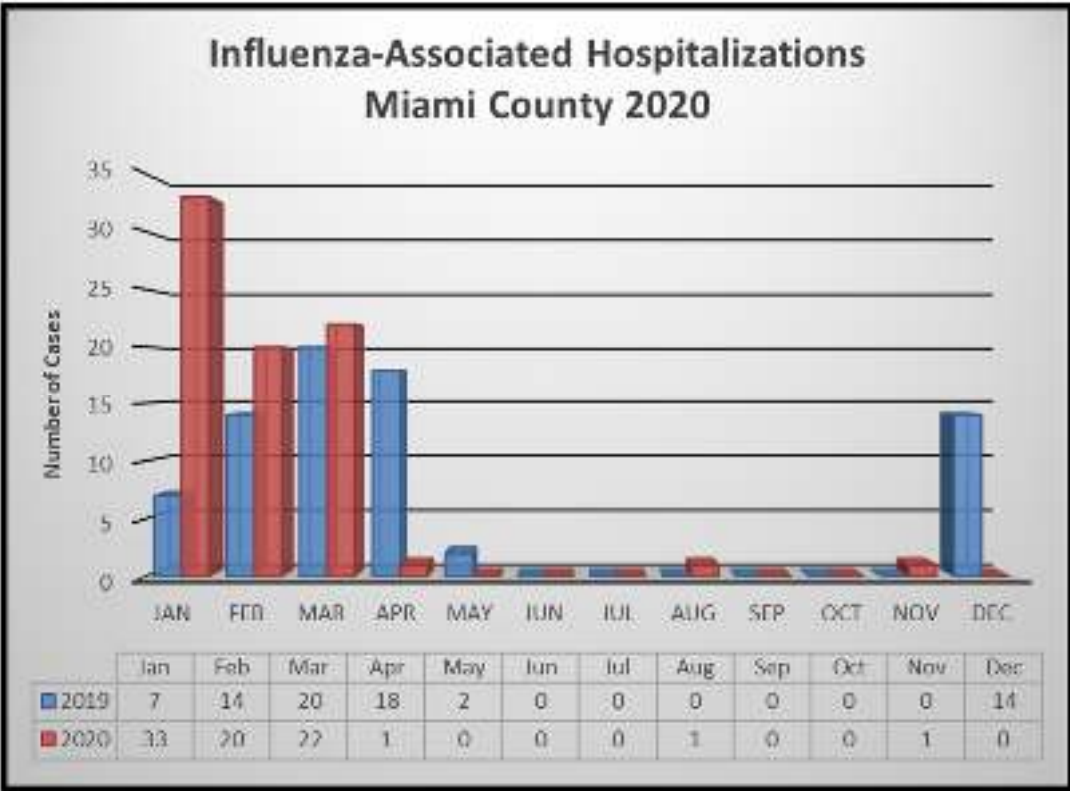
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2020 Influenza Year

Influenza (flu) is a contagious respiratory illness caused by influenza viruses. It can cause mild to severe illness. Serious outcomes of flu infection can result in hospitalization or death. Some people, such as older people, young children, and people with certain health conditions, are at high risk of serious flu complications. The best way to prevent the flu is getting vaccinated each year.*

Influenza Associated Hospitalizations
Miami County, Ohio
2016-2020

Seventy-eight influenza-associated hospitalizations were recorded for 2020 compared to seventy-five cases in 2019, but most of the cases were before the start of the COVID-19 pandemic. Miami County only had one influenza hospitalization in the fall of 2020. The West Central Ohio area experienced a significant decrease of influenza during the pandemic also.

Symptoms for influenza include fever, body aches, headache, malaise, nonproductive cough, sore throat, and runny nose. The influenza virus is spread by direct person-to-person contact through droplets.

*Centers for Disease Control and Prevention, Retrieved July 30, 2018 at
https://www.cdc.gov/flu/about/index.html

Influenza-Associated Hospitalizations
Miami County 2020

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2019	7	14	20	18	2	0	0	0	0	0	0	14
2020	33	20	22	1	0	0	0	1	0	0	1	0

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COVID-19 Pandemic

Coronavirus disease 2019 (COVID-19) is caused by a new coronavirus first identified in Wuhan, China, in December 2019. Because it is a new virus, scientists are learning more each day. Although most people who have COVID-19 have mild symptoms, COVID-19 can also cause severe illness and even death. Some groups, including older adults and people who have certain underlying medical conditions, are at increased risk of severe illness.

Coronaviruses, named for the crown-like spikes on their surfaces, are a large family of viruses that are common in people and many different species of animals, including camels, cattle, cats, and bats. There are many types of human coronaviruses, including some that commonly cause mild upper-respiratory tract illnesses. COVID-19 is a new disease, caused by a novel (or new) coronavirus that has not previously been seen in humans.*

Symptoms of COVID-19

- Fever or chills
- Cough
- Shortness of breath or difficulty breathing
- Fatigue
- Muscle or body aches
- Headache
- New loss of taste or smell
- Sore throat
- Congestion or runny nose
- Nausea or vomiting
- Diarrhea

*Centers for Disease Control and Prevention, Retrieved May 20, 2021 at https://www.cdc.gov/coronavirus/2019-ncov/cdcresponse/about-COVID-19.html

History of COVID-19 in Ohio in 2020

In February, Miami County Public Health (MCPH) tested several travelers from known areas with COVID-19 with all negative results. Obtaining providers willing to test possible cases was a difficult situation for the MCPH with very few providers with the resources.

In March, nine residents from Long-Term Care Facilities (LTCF) tested positive in the first known cases in LTCF in Ohio at that time. Many residents and staff members became sick in the next few months. MCPH worked closely with all LTCF's in the county on infection control to reduce transmission of the virus.

On March 10, 2020 Governor Mike DeWine issued a recommendation on limiting indoor gatherings. On March 15, all Ohio bars and restaurants were ordered to close, with only take-out and delivery options available. All schools closed beginning on Monday, March 16 for the rest of the school year.

On April 4, 2020 The Governor, Lt. Governor, and the Director of the Ohio Department of Health urged Ohioans to begin wearing cloth masks while in public.

In June, MCPH established a Contact Tracing Team to investigate cases and help identify close contacts to quarantine to control the spread of the disease. The Contact Tracer's (CT's) were trained in Ohio Disease Reporting System (ODRS-for positive cases) and Ohio Contact Tracing System (OCTS-close contacts of cases).
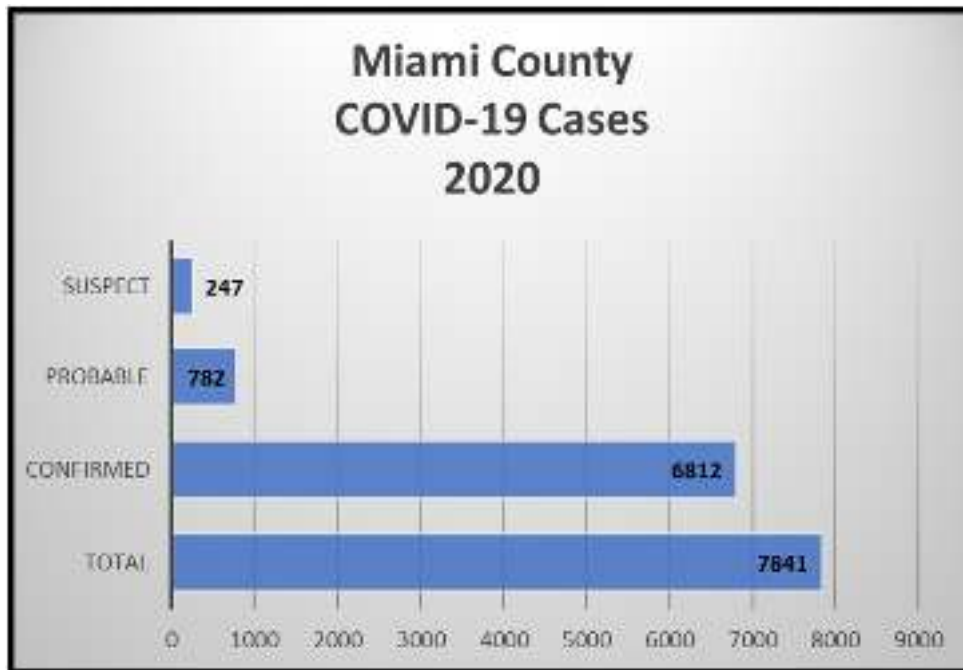
On October 27, 2020 Governor DeWine announced that 82 of Ohio's 88 counties are now considered high incidence counties as defined by the federal government.

In November, Governor DeWine announced mandatory mask and social distancing orders especially in retail locations across the state due to the increase of hospitalizations and deaths. A statewide curfew was issued from 10 p.m. to 5 a.m. MCPH was planning clinics for vaccine distribution in Miami County.

On December 22, 2020 MCPH began vaccinating employees with the Moderna vaccine. Healthcare workers, dental workers, congregate setting employees, LTCF employees and residents were among the first to be vaccinated.

The Ohio Department of Health (ODH) changed the case definition often at the start of the pandemic. A case definition was finally established as:

- Suspect: Detection of specific antibody in serum, plasma, or whole blood
- Probable: Detection of SARS-CoV-2 by antigen test in respiratory specimen
- Confirm: Detection of SARS-CoV-2 RNA in a clinical or autopsy specimen using a molecular amplification detection test

Miami County also had 409 hospitalizations and 131 deaths attributed to COVID-19. Cases are constantly being reviewed and these numbers may change as time goes on.