



MISSAUKEE Community Data

DHD#10 Chartbooks provide a brief overview of the health status of the District Health Department #10 jurisdiction. Information is presented by county and when available, comparisons are made to the jurisdiction, to Michigan, and to Healthy People 2020 Objectives. Information is collected about poverty, access to preventive care, promotion of healthy lifestyle and behavior, and creation and maintenance of healthy communities.



2022 Community Data Missaukee

The 2022 Chartbooks provide a health profile for Missaukee County. In certain sections, this information is compared to the overall health status of counties within District Health Department #10. The data includes population, education, race, births and deaths, incidence of disease, injuries, and immunizations.

Last year, a Behavioral Risk Factor Survey was conducted in the entire 10 county jurisdiction. A wide range of health behaviors were included:

- Health status indicators, such as perception of general health, satisfaction with life, weight (BMI), and levels of high blood pressure.
- Health risk behaviors, such as smoking, drinking, diet, and physical activity
- Clinical preventative measures, such as routine physical checkups, cancer screenings, oral health, and immunizations
- Chronic conditions, such as diabetes, asthma, and cancer

In addition, DHD#10 has completed the Community Health Improvement Plan in 2017. The identified strategic issues included the following:

- · Access to Health Care
- Tobacco Use
- Substance Use Disorders
- Healthy Lifestyles
- Health Disparities
- Maternal, Infant & Child Health
- Mental Health
- Chronic Disease

Table of Contents Demographics **Birth Trends Poverty Indicators Economic Wellbeing** Leading Causes of Death & Years of Potential Life Lost Cardiovascular Disease Cancer Incidence 9 10 Sexual Health Pregnancy & 11 Birth Related Trends **Immunizations** 12 Behavioral Risk Factor 13 Survey 18 **County Health Rankings** Conclusions 19

After the data are presented in this Chartbook, the last section will summarize some of the conclusions from the Behavioral Risk Factor Survey and examples of progress completed toward the CHIP goals.

If you have any questions or data requests, please e-mail data@dhd10.org

Demographics

Demographics serve as an important indicator which can be used to disaggregate data to gain more detailed information on specific sub-populations (i.e. ethnicity, sex, education level, etc.) and better tailor public health interventions.

Population

	Missaukee	Michigan
Total Population	15,052	10,077,331
Population per square mile	26.3	174.8
Persons under 5 years	6.3%	5.7%
Persons under 18 years	22.9%	21.5%
Persons 65 years and over	20.7%	17.7%
Disability, under age 65	13.6%	10.2%
Gender: Females	49.6%	50.7%

Income & Economy

	Missaukee	Michigan
Persons in poverty	12.6%	12.6%
Median household income	\$47,370	\$59,234
Per capita income	\$25,146	\$32,854
Unemployment	9.1%	9.9%

Race, Ethnicity, & Household Characteristics

	Missaukee	Michigan
White	96.2%	79.2%
Black	0.6%	14.1%
American Indian/Alaska Native	0.8%	0.7%
Asian	0.7%	3.4%
More than one race	1.7%	2.5%
Hispanic	3.0%	5.3%
Language other than English spoken at home	2.6%	9.7%
Persons per household	2.41	2.45
High school graduates	90.6%	91.3%
Bachelor's degree or higher	15.8%	30.0%

Sources

US Census Bureau:

- Population, April 2020
- Age & race, April, 2020
- Language other than English, 2016-2020
- Disability, under 65, 2020
- Education based on persons age 25 and over, 2016-2020
- Female persons, April, 2020
- Persons per household, 2016-2020
- Median household income, 2016-2020
- Persons in poverty, April 2020
- Per capita income in past 12 months, 2016-2020
- <u>Population per square mile, 2010</u>

Bureau of Labor Statistics:

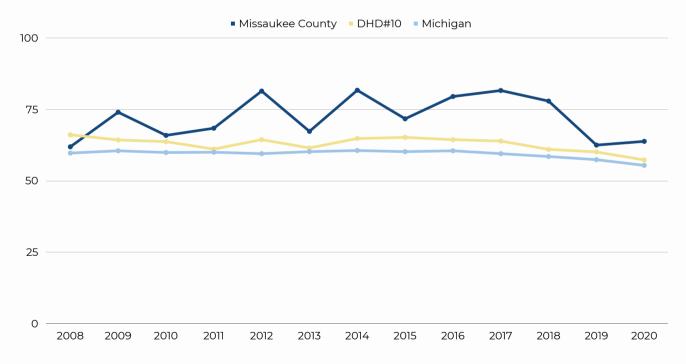
• Average unemployment percentage, 2020

Births

Birth numbers and rates represent growth within a community and offer insight into the future population trends. In this section, births are provided from 2007 to 2020.

Number of Live Births in Missaukee County, 2007-2020							
Year	2007	2008	2009	2010	2011	2012	2013
Births	185	158	182	158	166	199	163
Year	2014	2015	2016	2017	2018	2019	2020
Births	196	170	188	191	185	150	153

Live Birth Rates per 1,000 Female in Missaukee County, DHD#10, Michigan, 2008-2020



Sources:

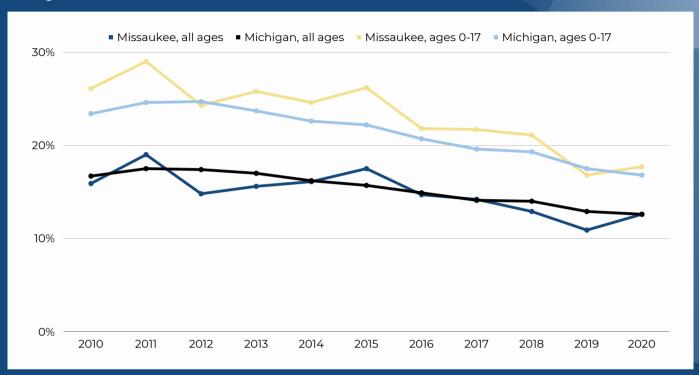
Michigan Department of Health and Human Services (MDHHS)

- Live births by county, 2007-2020
- Live birth rates by county, 2008-2020
- Live births rates by health jurisdiction, 2008-2020
- Live births rates by state, 2008-2020

Poverty & Poverty Indicators

Poverty is strongly linked to negative health outcomes, keeping track of poverty levels and identifying significant change can suggest a positive or negative change within the community.

Percentage of Population (0-17 years and all ages) Living in Poverty in Missaukee County and Michigan, 2010-2020



% of Students Eligible for Free or Reduced Lunch, 2020

MISSAUKEE COUNTY

62.3%

MICHIGAN

50.5%

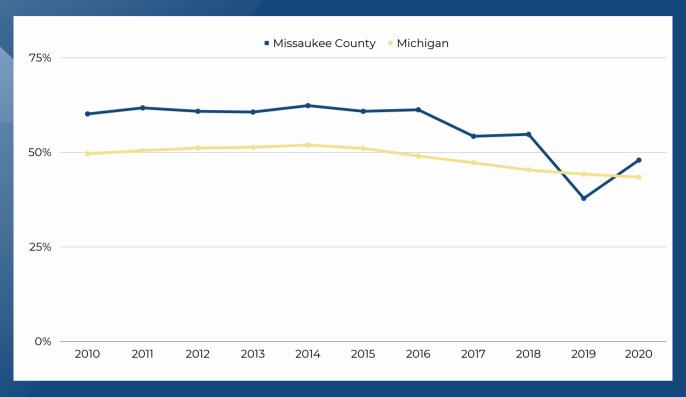
Sources:

Michigan League for Public Policy

- Poverty, 0-17 years, by county & state 2010-2020
- Poverty, all ages, by county & state, 2010-2020
- Percentage of student eligible for free/reduced lunch, 2020

Poverty & Poverty Indicators

Percentage of Children (0-4) Who Receive Women, Infant, and Children (WIC) Benefits in Missaukee County and Michigan, 2010-2020



% of Live Births Paid by Medicaid, 2020

MISSAUKEE COUNTY

MICHIGAN

50.3% 39.9%

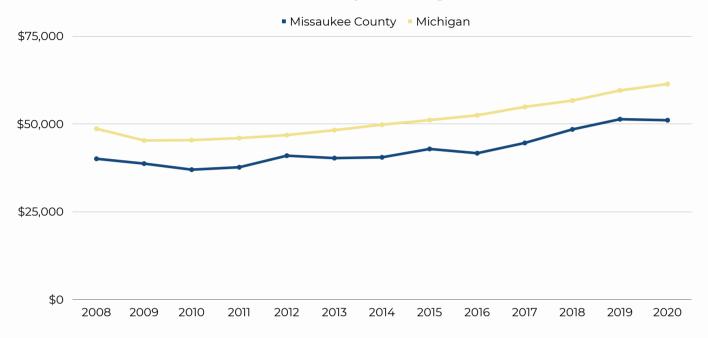
Michigan League for Public Policy

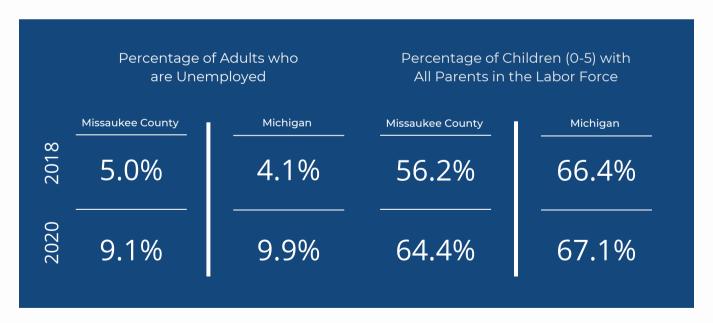
- Children (0-4) who Receive WIC Benefits by County & State, 2010-2020
- Percentage of Live Births Paid by Medicaid by County & State, 2020

Economic Wellbeing

Economic wellbeing is a quick hint into the health of a community by providing indicators that focus on economic hardships. Studies have shown that those who live in poverty are at a higher risk for both acute and chronic diseases.

Median Household Income in Missaukee County and Michigan, 2008-2020





Sources:

Michigan League for Public Policy

- Median Household Income by County & State, 2008-2020
- Percentage of Adults who are Unemployed, 2018 & 2020
- Percentage of Children (0-5) with All Parents in the Labor Force, 2018 & 2020

Leading Causes of Death

Age-adjusted Mortality Rates per 100,000, 2020; *Too small to calculate

	Missaukee	DHD#10	Michigan
Heart Disease	242.1	192.4	206.0
Cancer	171.3	180.9	158.8
COVID-19	*	43.0	86.5
Unintentional Injury	*	69.7	56.2
Stroke	*	54.0	44.8
Chronic Lower Respiratory	89.8	63.5	42.4
Alzheimer's Disease	*	46.9	37.0
Diabetes	*	23.9	26.3
Kidney Disease	*	9.5	14.8
Pneumonia/Influenza	*	9.9	14.4

Years of Potential Life Lost

Rates per 100,000 under 75 years of age, 2020; *Too small to calculate. The number of years of potential life lost are rates calculated as the number of years between the age at death and 75 years of age for persons dying before their 75th year.

	Missaukee	DHD#10	Michigan
Cancer	1,196.6	1,855.9	1,495.9
Heart Disease	1,740.5	1,447.2	1,443.0
Unintentional Injury	*	1,715.7	1,438.3
COVID-19	*	310.2	567.9
Suicide	*	530.3	430.0
Homicide	0	*	352.5
Birth-related Conditions	0	*	291.3
Chronic Liver Disease	*	279.2	281.8
Drug-induced Death	*	848.3	977.0
Injury by Firearms	*	359.8	509.0
Alcohol-induced Death	*	469.5	322.0

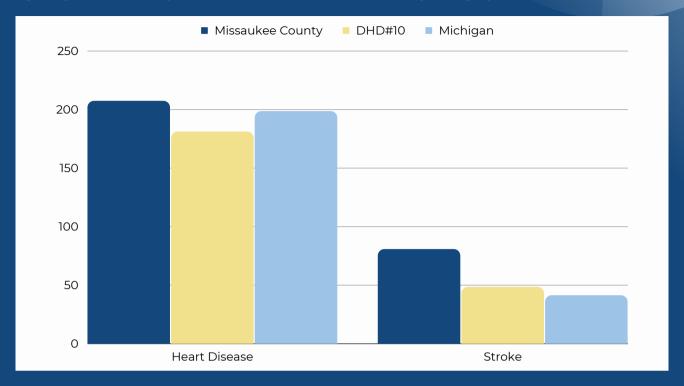
Sources: MDHHS

[•] Leading Causes of Death, 2020

[•] Years of Potential Life Lost, 2020

Cardiovascular Disease

Age-adjusted Mortality Rates for Cardiovascular Disease by Category, 2018-2020



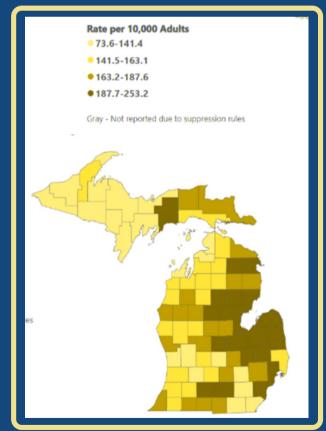
Cardiovascular Disease Hospitalization 2016-2019, rates per 10,000

MISSAUKEE COUNTY

146.7

MICHIGAN

181.8

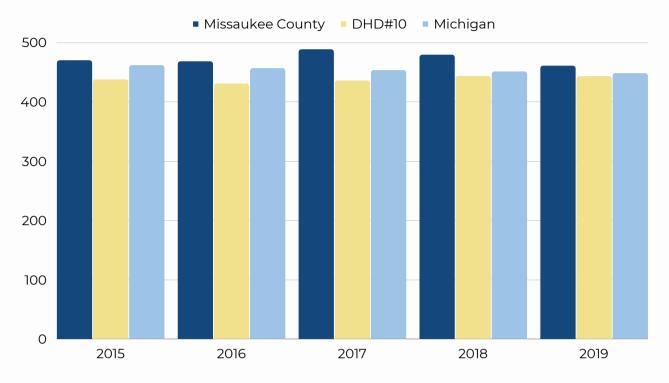


Sources: MDHHS

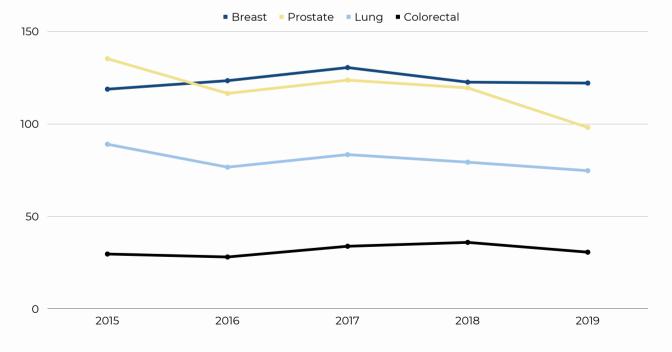
- Mortality Trends by Type, County, Health District, State, 2018-2020
- Cardiovascular Hospitalization Rates, 2016-2019

Cancer Incidence

Five-year Average Age-adjusted Rates for Invasive Cancer Incidence per 100,000, 2015-2019



Five-year Average Age-adjusted Rates for Invasive Cancer Incidence by Location per 100,000, Missaukee County, 2015-2019

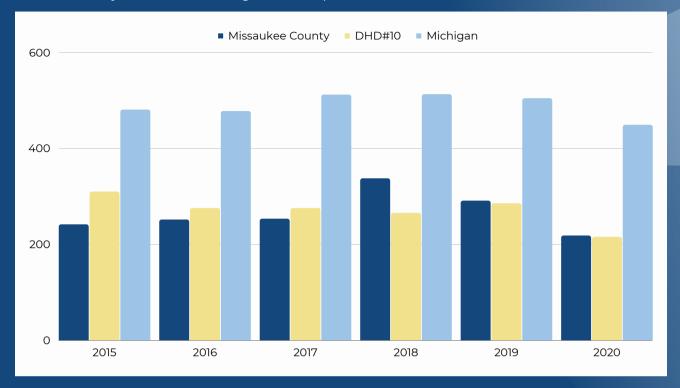


Sources: MDHHS

- <u>Five-year Average Age-adjusted Invasive Cancer Incidence per 100,000, 2015-19</u>
- <u>Five-year Average Age-adjusted Invasive Cancer Incidence by Location per 100,000, Missaukee County, 2015-2019</u>

Sexual Health

Rate of Chlamydia Cases for all age and sex, per 100,000, 2015-2020



of Gonorrhea Cases, 2020

MISSUAKEE COUNTY

15

of new HIV Cases, 2020

MICHIGAN **522**

DHD#10

<u> 151</u>

of individuals living with HIV, 2020

MICHIGAN

17,348

of Women younger than 20 in Need of Publicly Funded Contraceptive Services & Supplies, 2016

MISSUAKEE COUNTY

190

Sources: MDHHS

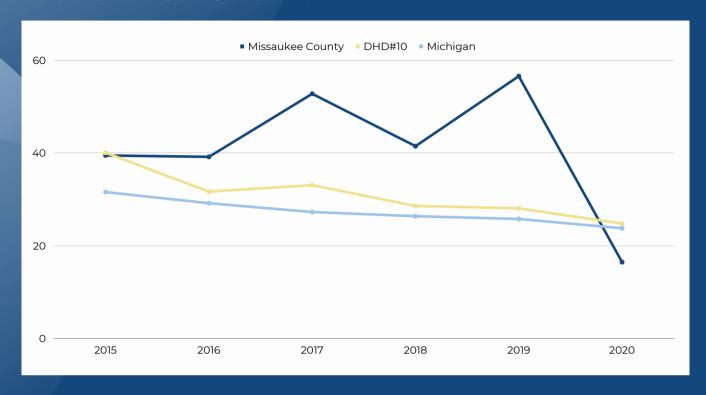
- Five-year Average Rate of Chlamydia Cases per 100,000, 2015-2020
- Number of Gonorrhea Cases, 2020
- Number of HIV Cases, 2020

Guttmacher Data Center

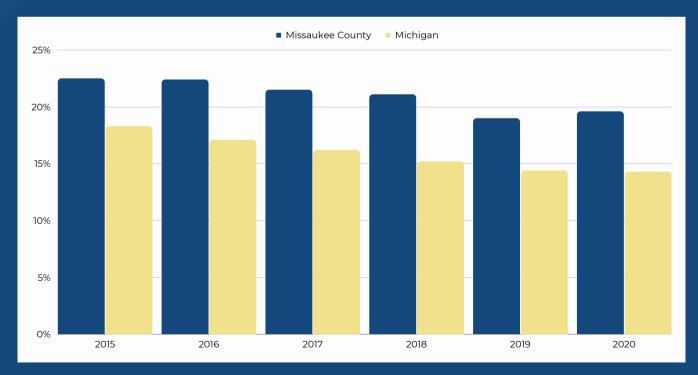
• Number of Women in Need of Publicly Funded Contraceptive Services & Supplies, 2016 https://www.dhd10.org

Pregnancy & Birth-Related Trends

Teen (15-19 years of age) Pregnancy Rate per 1,000, 2015-2020



Percentage of Mothers Who Smoked During Pregnancy, 2015-2020



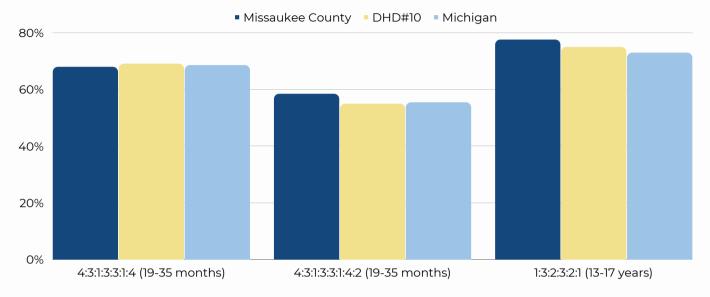
Sources: MDHHS

- <u>Teen (15-19 years of age) Pregnancy Rate per 1,000, 2015-2020</u> Michigan League of Public Policy
- Percentage of Mothers Who Smoked During Pregnancy, 2015-2020

Immunization

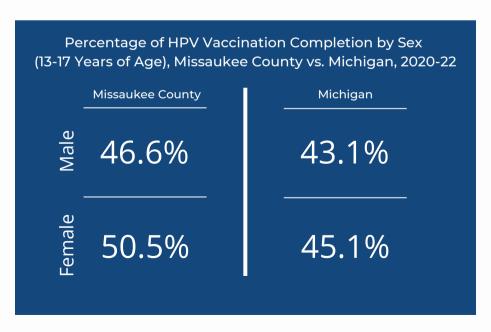
Immunization compliance is one of public health's greatest defenses against many communicable diseases. Our Immunization nurses work tirelessly providing education and vaccines from infants to the senior population.

Percent of Children that received CDC Recommended Childhood Immunizations, 2020-2022



Immunization Key

- 4:3:1:3:3:1:4 includes 4 doses of DTaP, 3 polio, 1 MMR, 3Hib, 3 Hepatitis B, 1 varicella, and 4 PCV7/13. This is the percent of 19-35-month-old children who have received these immunizations.
- 4:3:1:3:3:1:4:2 includes the above vaccines with the addition of 2 doses of Hepatitis A. This is the percent of 19-35-monthold children who have received these immunizations.
- 1:3:2:3:2:1 includes 1 Tdap, 3 IPV, 2 MMR, 3 HepB, 2 Varicella, and 1 Meningococcal. This is the percent of 13-17-year olds who have received these immunizations.

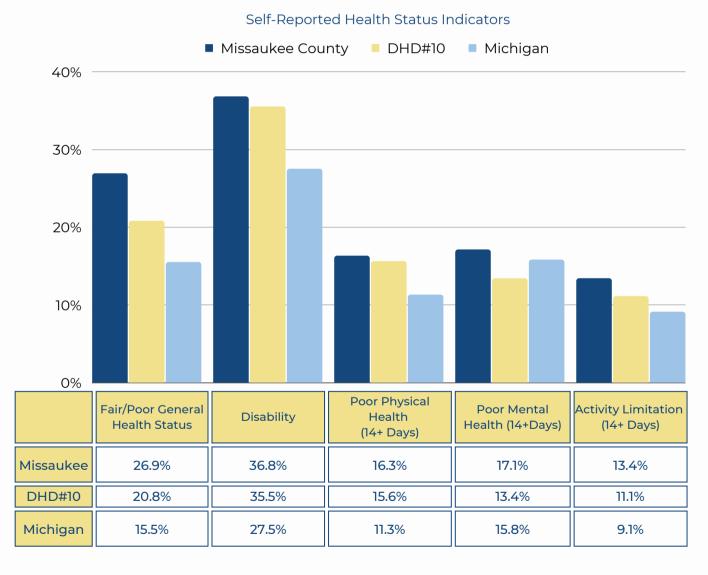


Sources: <u>Michigan Care Improvement Registry</u>

Behavioral Risk Factors

In previous years, DHD#10 hired an independent research and evaluation firm to conduct a regional Behavioral Risk Factor Survey (BRFSS) to bolster our survey response rates to increase validity and to obtain comprehensive and inclusive survey results. The following geographic areas will be presented: DHD#10 Region, County Level, & Michigan. There will be some data sets with no Michigan comparison – this is due to DHD#10 adding customized questions to the BRFS.

The Michigan Behavior Risk Factor Survey is completed annually through randomized telephone surveys for Michigan residents 18+. The most recent Michigan Behavioral Risk Factor Survey Annual Table (2020) can be accessed here.

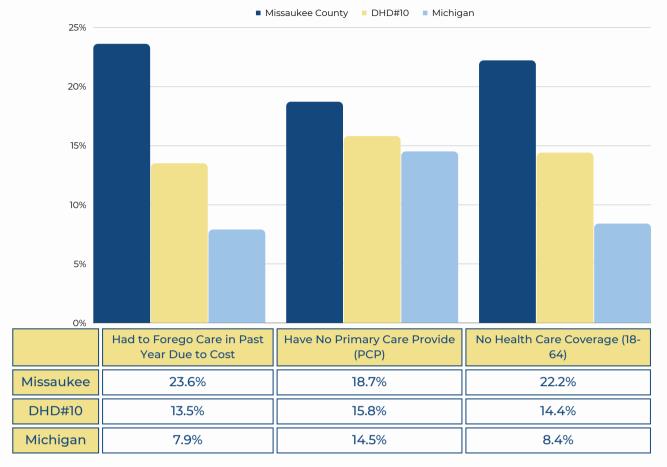


Sources:

Michigan Department of Health & Human Services

• Michigan Behavioral Risk Factor Surveillance System, 2020

BRFSS: Access to Healthcare



Health Care Provider

Number of Residents per Health	Care Provider (2020)	
	Missaukee County	Michigan
Primary Care Physician	7,500:1	1,280:1
Denstist	7,560:1	1,340:1
Mental Health Provider*	5,040:1	370:1

^{*}Mental health providers include psychiatrists, clinical psychologists, clinical social workers, psychiatric nurse specialists, and marriage and family therapists who meet certain qualifications and certifications.

Sources:

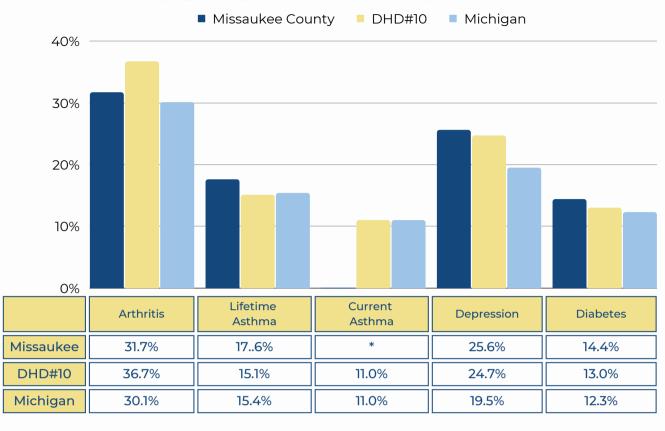
Michigan Department of Health & Human Services

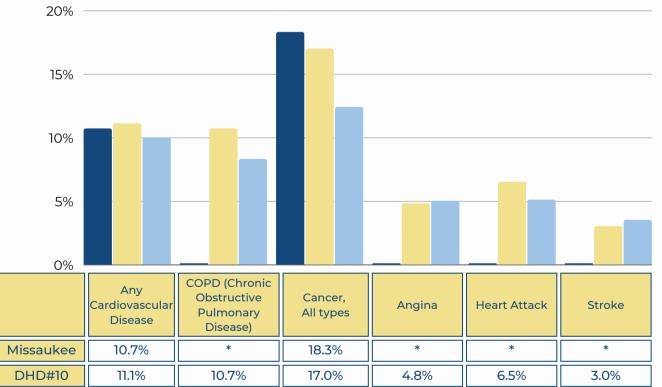
• <u>Michigan Behavioral Risk Factor Surveillance System, 2020</u>

County Health Rankings

• County vs. State Rankings, 2020

BRFSS: Chronic Conditions





12.4%

Sources:

Michigan

Michigan Department of Health & Human Services

10.0%

• Michigan Behavioral Risk Factor Surveillance System, 2020

8.3%

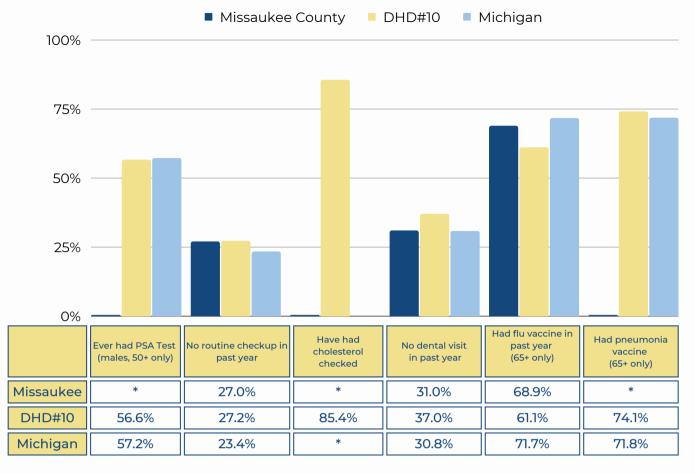
https://www.dhd10.org

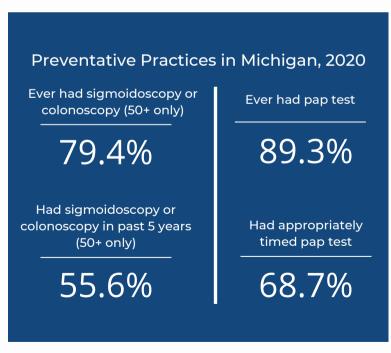
5.0%

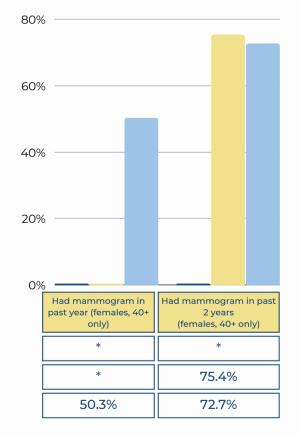
5.1%

3.5%

BRFSS: Clinical Preventative Practices







Sources:

Michigan Department of Health & Human Services

Michigan Behavioral Risk Factor Surveillance System, 2020

BRFS: Risk Behaviors



Sources:

Michigan Department of Health & Human Services

• Michigan Behavioral Risk Factor Surveillance System, 2020

County Health Rankings

County Health Rankings is a collaboration between the Robert Wood Johnson Foundation and the University of Wisconsin Population Health Institute. The County Health Rankings measure the health of nearly all counties in the nation and rank them within states. Below is an overall snapshot at the county level vs. all ranked counties (83 in total).

The most recent County Health Rankings (2020) can be accessed here.

	Ranking (out of 83 counties)		
	Health Outcom	es	21
Represents how healthy a county is, using factors of	Length of Life	Premature death	19
how long people live and how healthy they feel while they are alive (quality of life)	Quality of Life	Poor or fair health; poor physical health days; poor mental health days; low birth weight	40
	Health Factor	s	36
Represents what influences the health of a county	Health Behaviors	Smoking; obesity; food environment; physical activity; excessive drinking; alcohol impaired driving deaths; sexually transmitted infections; teen births	45
	Clinical Care	Uninsured; ratios of physicians, dentists and mental health providers to population; preventable hospital stays; diabetic monitoring; mammography screening	48
	Social and Economic Factors	Education; unemployment; poverty; children in single-parent households; social associations; violent crime; injury deaths	37
	Physical Environment	Air pollution; drinking water violations; severe housing problems; driving alone to work and long commute	22

Sources:

County Health Rankings

• County vs. State Rankings, 2020

Conclusions: Community Health Improvement Plan



Healthy Lifestyle Strategy Progress	
Promote and implement comprehensive worksite wellness programs	
Maternal, Infant & Child Health Strategy Progress	
Implement programs to address child abuse and neglect	
Implement programs to address childhood trauma	
Chronic Disease Strategy Progress	
Implement a social media campaign that focuses on obesity prevention	
Partner with the Northern Michigan CHIR to implement the strategic plan to reduce obesity	
Partner with the Cadillac Area Health Coalition and Munson Healthcare Cadillac to implement the obesity prevention/reduction plan	
Increase collaboration among community agencies to address the obesity issue	
Increase healthy options in food pantries	

Sources:

District Health Department #10

• Community Health Improvement Plan Progress Report, 2019



Thank You!

We appreciate you taking the time to read about the health status of Missaukee County within District Health Department #10's ten-county jurisdiction. If you have any questions, please feel free to reach out via email at info@dhd10.org.

Additional Information

District Health Department #10: https://www.dhd10.org

North Michigan CHIR MiThrive: https://northernmichiganchir.org/mit hrive/

Michigan Department of Health and Human Services: https://www.michigan.gov/mdhhs

Community Health Ranking: https://www.countyhealthrankings.org

Behavioral Risk Factor Survey: https://www.cdc.gov/brfss

Michigan League for Public Policy: https://mlpp.org