District Health Department #10
Healthy People, Healthy Communities

2025

MISSAUKEE COUNTY

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 and to Michigan. Information is collected about poverty, access to preventive care, promotion of healthy lifestyle and behavior, and creation and maintenance of healthy communities.

2023 Community Data Missaukee

The 2025 Chartbooks provide a health profile for each county in the jurisdiction. In certain sections, this information is compared to the overall health status of District Health Department #10. The data includes population, education, race, births and deaths, incidence of disease, injuries, and immunizations.

The Michigan Department of Health and Human Services conducts the annual Behavioral Risk Factor Survey, which includes data on all counties in the state on a wide range of health behaviors, such as:

- 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

As backbone support to the MiThrive initiative, DHD#10 helped facilitate the completion of the 2021 Community Health Assessment and the 2022 Community Health Improvement Plan across 31 counties. DHD#10 completed a Community Health Assessment report for the 10 counties in the jurisdiction, which will facilitate the implementation of the Community Health Improvement Plan across DHD#10 counties. This plan will address the issues identified below:

- Access to Health Care
- Chronic Disease
- Mental Health
- Economic Insecurity
- Substance Use Disorders
- Housing

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

TABLE OF CONTENTS

Demographics	2
Economic Wellbeing	3
Leading Causes of Death & Hospital Discharges	5
Cardiovascular Disease	6
Cancer Incidence	7
Sexual Health	8
Pregnancy & Birth Related Trends	9
Substance Use Disorder	10
Immunizations	11
Behavioral Risk Factor Survey	12
County Health Rankings	16
Additional Information	17

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	15,311	10,037,261
POPULATION PER SQUARE MILE	26.7	176.7
PERSONS UNDER 5 YEARS	5.5%	5.3%
PERSONS UNDER 18 YEARS	22.1%	21.0%
PERSONS 65 YEARS AND OVER	22.6%	19.2%
DISABILITY, UNDER AGE 65	13.4%	10.3%
GENDER: FEMALES	49.3%	50.4%

ACCESS TO HEALTHCARE

	MISSAUKEE	MICHIGAN
SOCIAL VULNERABILITY INDEX, 2022	0.6829	NA
UNDER 65 UNINSURED	9.0%	6.0%
HOUSEHOLDS WITH BROADBAND INTERNET	84.2%	89.3%
PRIMARY CARE PROVIDER SHORTAGE SCORE	15	14
DENTAL CARE PROVIDER SHORTAGE SCORE	15	15
MENTAL HEALTH PROVIDER SHORTAGE SCORE	16	14

RACE, ETHNICITY, & HOUSEHOLD

	MISSAUKEE	MICHIGAN
WHITE	95.9%	78.7%
BLACK	0.6%	14.1%
AMERICAN INDIAN/ALASKA NATIVE	0.9%	0.8%
ASIAN	0.6%	3.6%
MORE THAN ONE RACE	1.9%	2.8%
HISPANIC	3.5%	6.0%
LANGUAGE OTHER THAN ENGLISH SPOKEN AT HOME	3.9%	10.2%
PERSONS PER HOUSEHOLD	2.6	2.4
HIGH SCHOOL GRADUATES	91.1%	91.9%
BACHELOR'S DEGREE OR HIGHER	18.0%	31.8%

SOURCES

US CENSUS BUREAU:

- POPULATION, 2023
- AGE & RACE, 2023
- LANGUAGE OTHER THAN ENGLISH, 2019-2023
- DISABILITY, UNDER 65, 2023
- EDUCATION BASED ON PERSONS AGE 25 AND OVER, 2019-2023
- FEMALE PERSONS, 2023
- PERSONS PER HOUSEHOLD, 2019-2023

COUNTY HEALTH RANKINGS:

- UNDER 65 UNINSURED

MICHIGAN VITAL STATISTICS

- POPULATION PER SQUARE MILE, 2023

CDC/ATSDR SOCIAL VULNERABILITY INDEX (SVI)

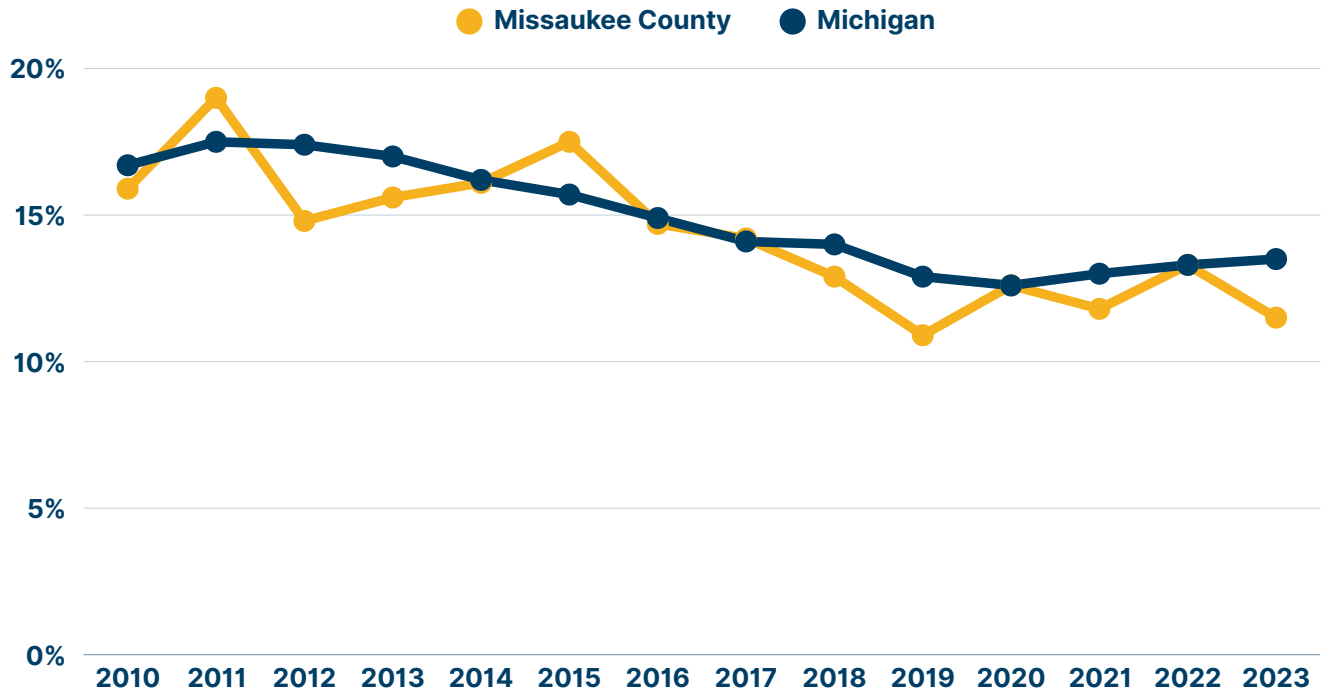
U.S. DEPARTMENT OF HEALTH & HUMAN SERVICES (USDHHS):

- HEALTH PROFESSIONAL SHORTAGE AREA SCORES

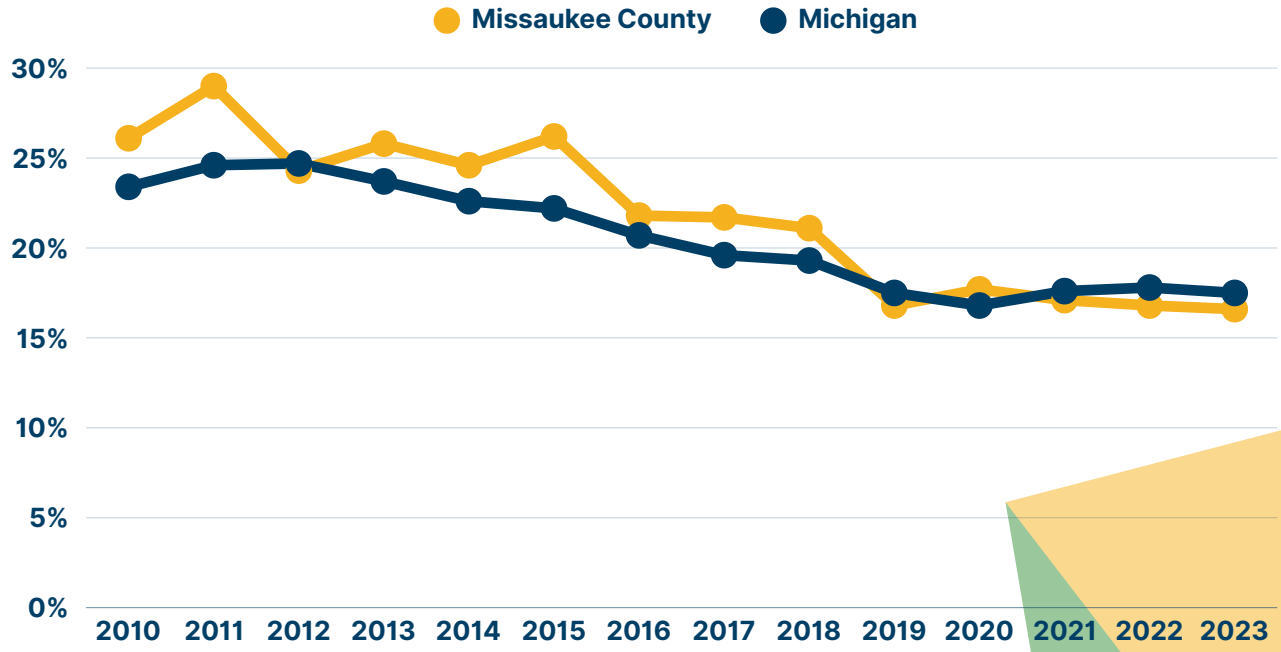
ECONOMIC WELLBEING

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 (ALL AGES) LIVING IN POVERTY IN MISSAUKEE COUNTY AND MICHIGAN, 2010-2023



PERCENTAGE OF POPULATION (0-17 YEARS) LIVING IN POVERTY IN MISSAUKEE COUNTY AND MICHIGAN, 2010-2023



SOURCES:
MICHIGAN LEAGUE FOR PUBLIC POLICY

- POVERTY, 0-17 YEARS, BY COUNTY & STATE 2010-2023
- POVERTY, ALL AGES, BY COUNTY & STATE, 2010-2023

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.

INCOME & ECONOMY

	MISSAUKEE	MICHIGAN
PERSONS IN POVERTY	11.5%	13.5%
MEDIAN HOUSEHOLD INCOME	$66,397	$69,097
PER CAPITA INCOME	$30,435	$39,538
UNEMPLOYMENT	4.8%	3.9%
PERCENT OF STUDENTS ELIGIBLE FOR FREE OR REDUCED LUNCH, 2023	65.3%	53.7%
PERCENTAGE OF CHILDREN (0-4) WHO RECEIVE WOMEN, INFANT, AND CHILDREN (WIC) BENEFITS, 2023	52.1%	43.8%

	PERCENTAGE OF ADULTS WHO ARE UNEMPLOYED		PERCENTAGE OF CHILDREN (0-5) WITH ALL PARENTS IN THE LABOR FORCE	
	MISSAUKEE COUNTY	MICHIGAN	MISSAUKEE COUNTY	MICHIGAN
2023	4.8%	3.9%	58.6%	67.1%
2022	5.1%	4.2%	59.7%	67.0%

SOURCES:

KIDS COUNT DATA CENTER:

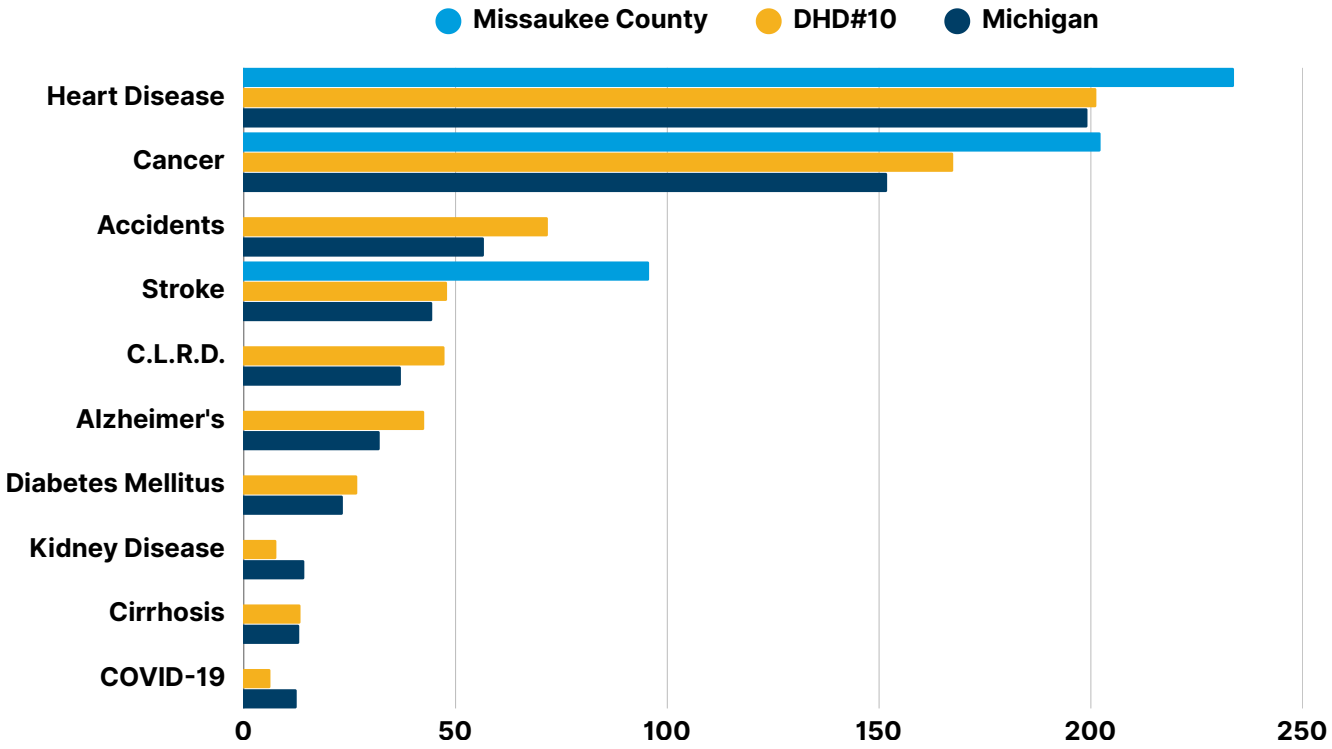
- PERSONS IN POVERTY (ALL AGES) BY COUNTY & STATE, 2023
- CHILDREN (0-4) WHO RECEIVE WIC BENEFITS BY COUNTY & STATE, 2010-2023
- MEDIAN HOUSEHOLD INCOME BY COUNTY & STATE, 2008-2023
- PERCENTAGE OF ADULTS WHO ARE UNEMPLOYED, 2020-2023
- PERCENTAGE OF CHILDREN (0-5) WITH ALL PARENTS IN THE LABOR FORCE, 2022 & 2023
- STUDENTS RECEIVING FREE OR REDUCED-PRICED LUNCH, 2023

U.S. CENSUS BUREAU:

- PER CAPITA INCOME IN PAST 12 MONTHS, 2023

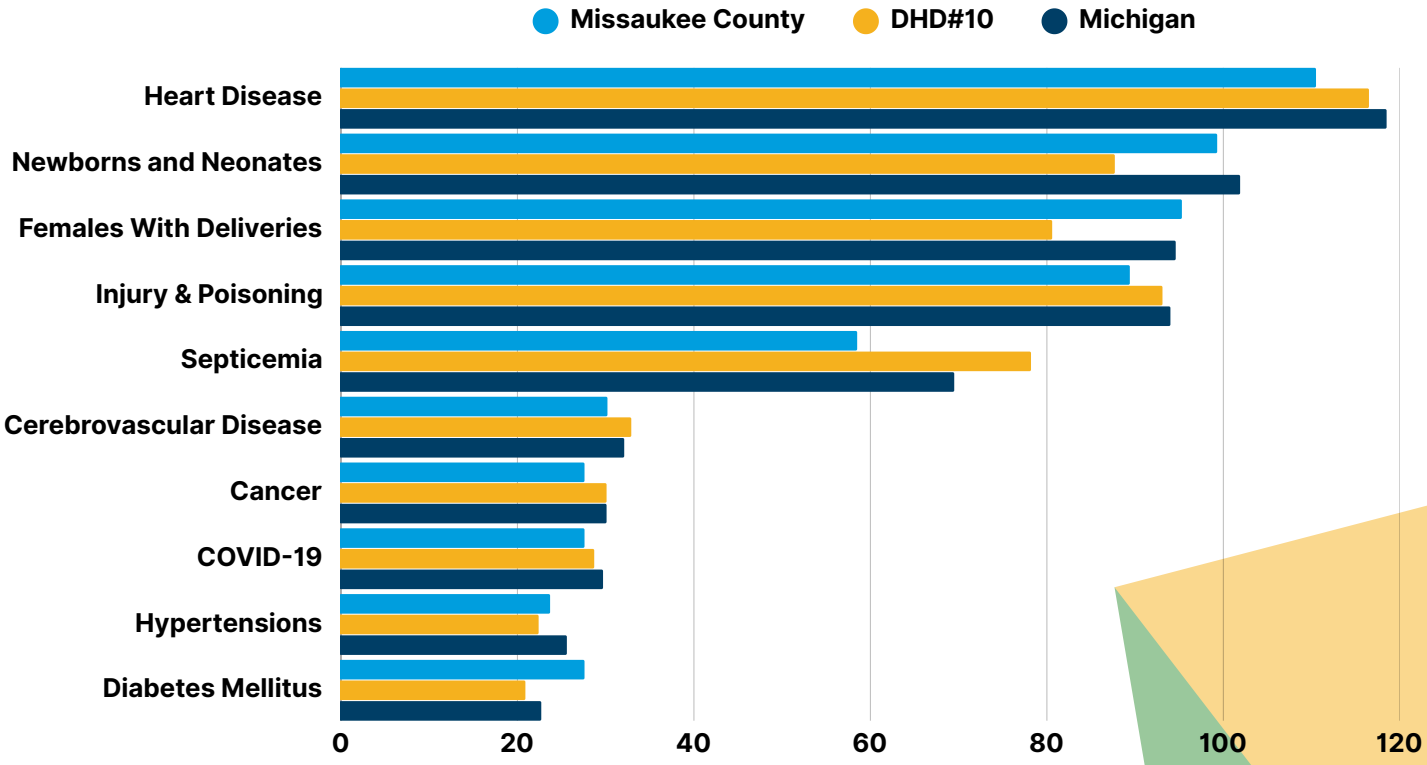
LEADING CAUSES OF DEATH

LEADING CAUSES OF DEATHS PER 100,000 POPULATION, 2023



Note: rates are per 100,000. leading causes of death are computed by the direct method, using as the standard population the age distribution of the total population of the united states for the year 200.

LEADING HOSPITAL DISCHARGES PER 100,000 POPULATION, 2022

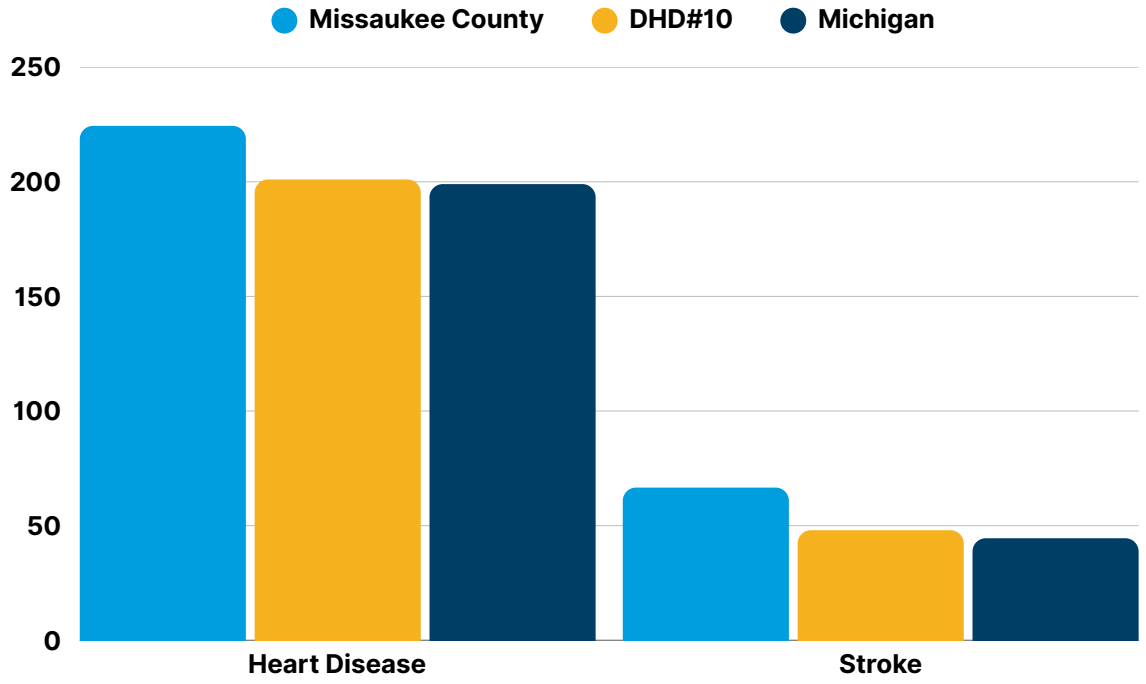


SOURCE: MDHHS

- LEADING CAUSES OF DEATH & HOSPITALIZATION, 2022 & 2023

CARDIOVASCULAR DISEASE

AGE-ADJUSTED MORTALITY RATES FOR CARDIOVASCULAR DISEASE BY CATEGORY, 2021-2023



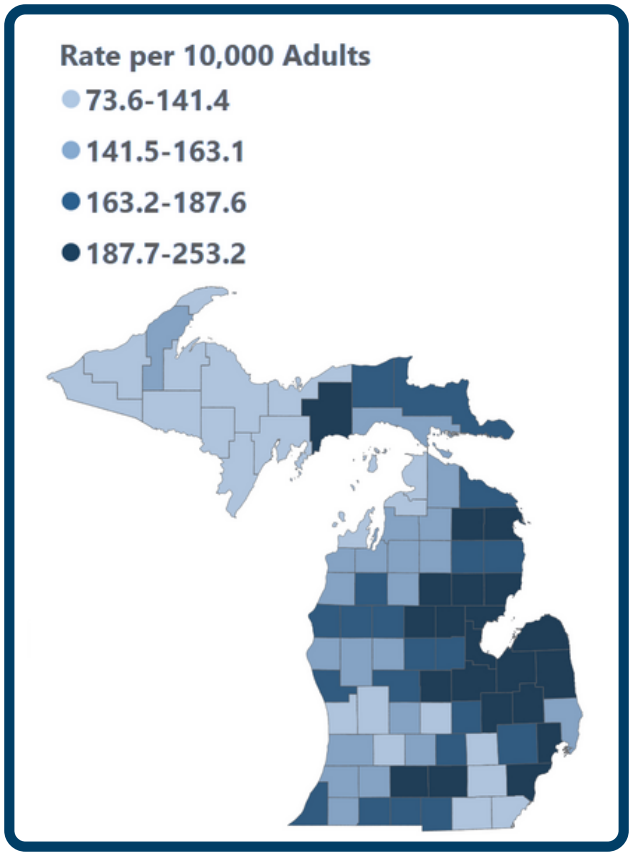
CARDIOVASCULAR DISEASE HOSPITALIZATION 2016-2019, RATES PER 10,000

MISSAUKEE COUNTY

146.7

MICHIGAN

181.8

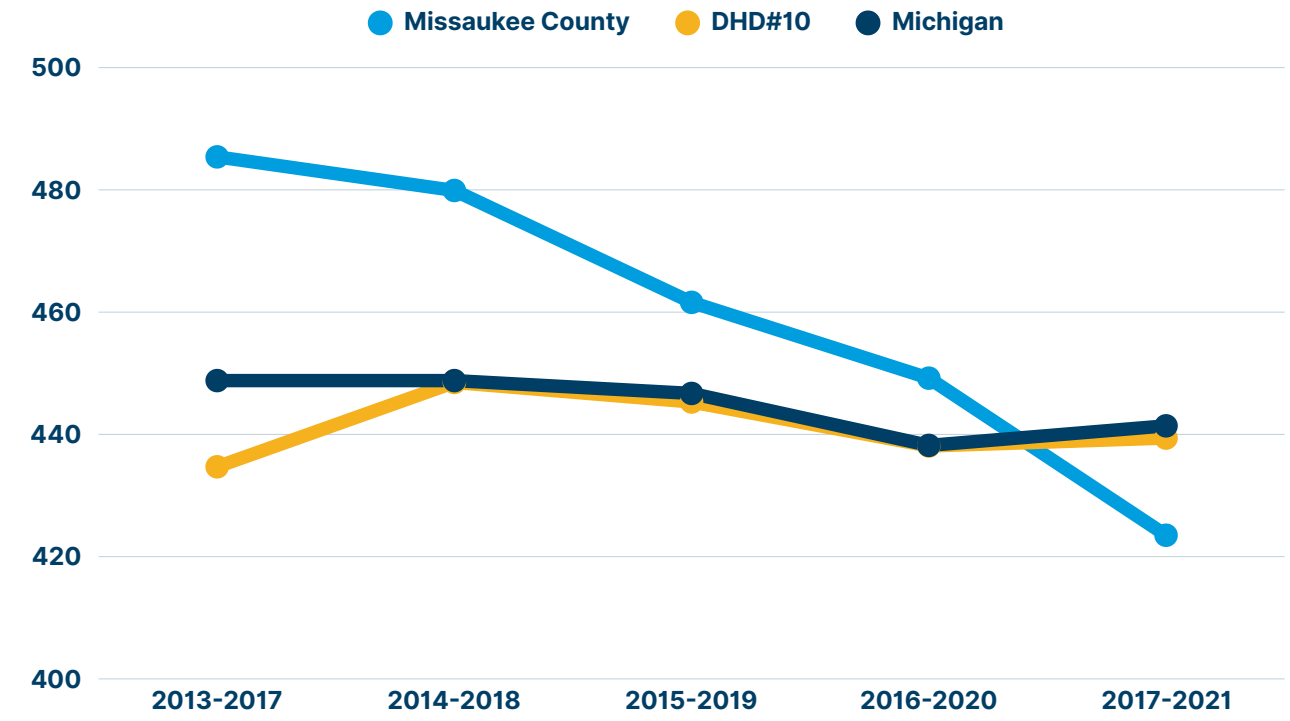


SOURCES: MDHHS

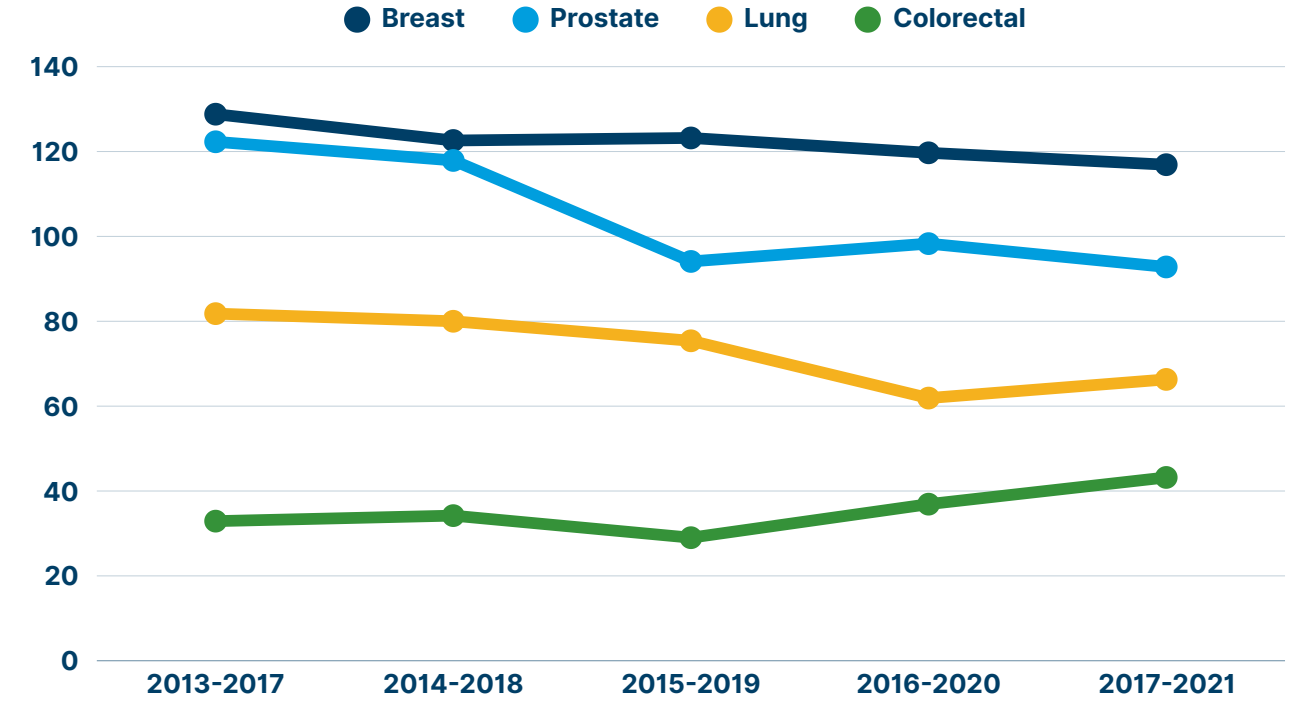
- MORTALITY TRENDS BY TYPE, COUNTY, HEALTH DISTRICT, STATE, 2023
- CARDIOVASCULAR HOSPITALIZATION RATES, 2016-2019

CANCER INCIDENCE

FIVE-YEAR AVERAGE AGE-ADJUSTED RATES FOR INVASIVE CANCER INCIDENCE PER 100,000, 2013-2021



FIVE-YEAR AVERAGE AGE-ADJUSTED RATES FOR INVASIVE CANCER INCIDENCE BY LOCATION PER 100,000, MISSAUKEE COUNTY, 2013-2021

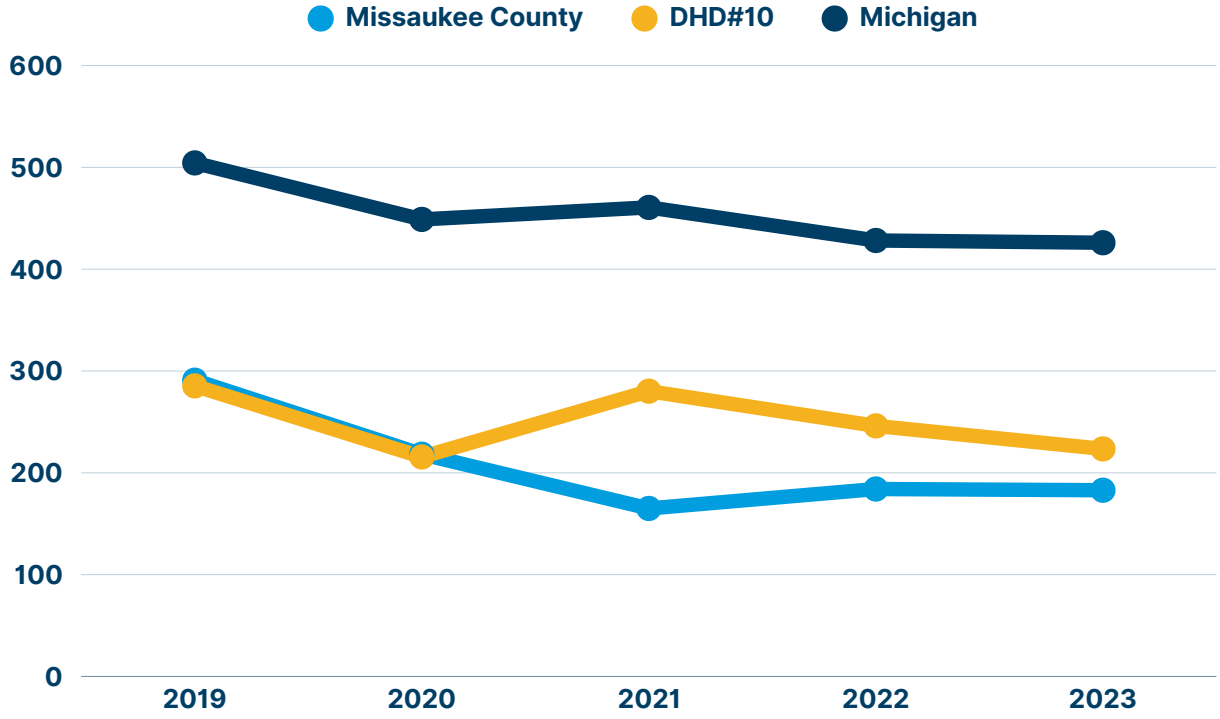


SOURCES:
MDHHS
- FIVE-YEAR AVERAGE AGE-ADJUSTED INVASIVE CANCER INCIDENCE PER 100,000, 2013-2021

NIH
- STATE CANCER PROFILES - NATIONAL CANCER INSTITUTE, 2017-2021

SEXUAL HEALTH

RATE OF CHLAMYDIA CASES FOR ALL AGE AND SEX, PER 100,000, 2019-2023



OF GONORRHEA CASES, 2023

MISSAUKEE COUNTY

4

DHD#10

87

OF NEW HIV CASES, 2023

MICHIGAN

696

OF INDIVIDUALS LIVING WITH HIV, 2023

MICHIGAN

18,437

OF WOMEN YOUNGER THAN 20 IN NEED OF PUBLICLY FUNDED CONTRACEPTIVE SERVICES & SUPPLIES, 2016

MISSAUKEE COUNTY

190

SOURCES: MDHHS

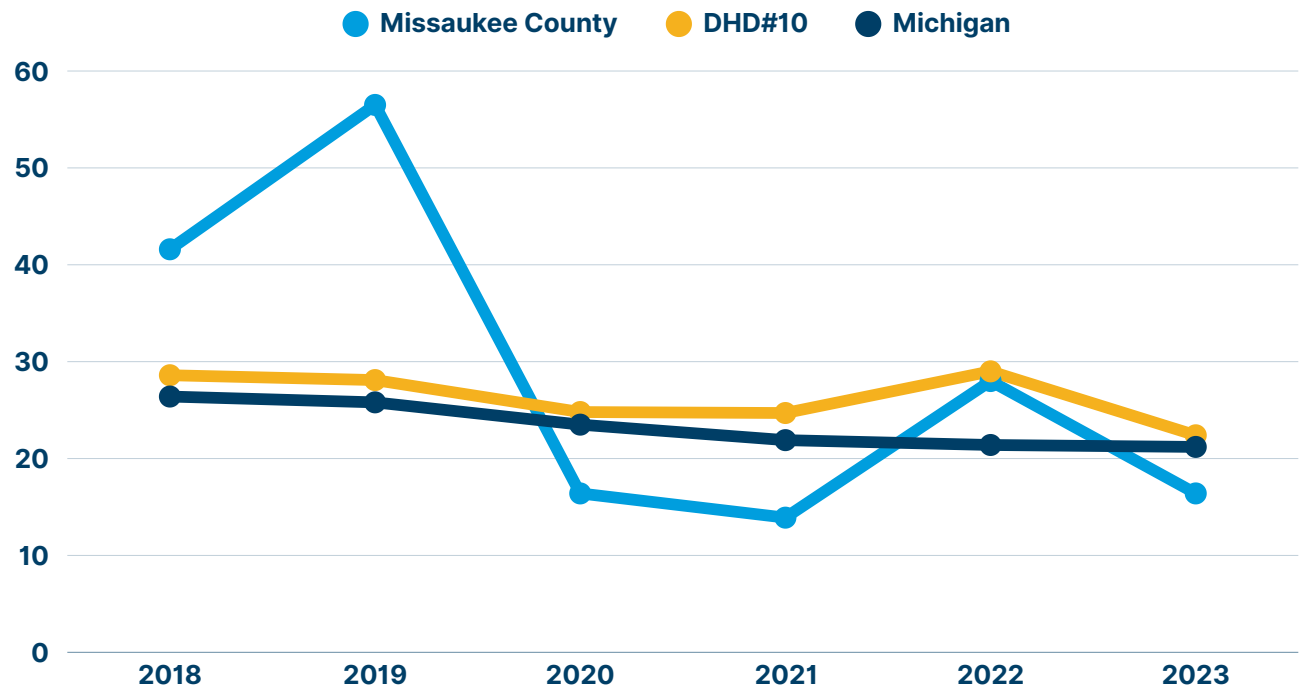
- RATE OF CHLAMYDIA CASES PER 100,000, 2018-2023
- NUMBER OF GONORRHEA CASES, 2023
- NUMBER OF HIV CASES, 2023

GUTTMACHER DATA CENTER

- NUMBER OF WOMEN IN NEED OF PUBLICLY FUNDED CONTRACEPTIVE SERVICES & SUPPLIES, 2016

PREGNANCY & BIRTH-RELATED TRENDS

TEEN (15-19 YEARS OF AGE) PREGNANCY RATE PER 1,000, 2018-2023



BIRTH AND PREGNANCY COMPARED TO MICHIGAN

	MISSAUKEE	MICHIGAN
NUMBER OF LIVE BIRTHS	157	102,202
PERCENT OF LIVE BIRTHS WITH LOW BIRTHWEIGHT	5.7%	9.1%
PERCENT OF MOTHERS WHO SMOKED DURING PREGNANCY	14.7%	8.5%

SOURCES: MDHHS
- TEEN (15-19 YEARS OF AGE) PREGNANCY RATE PER 1,000, 2018-2023

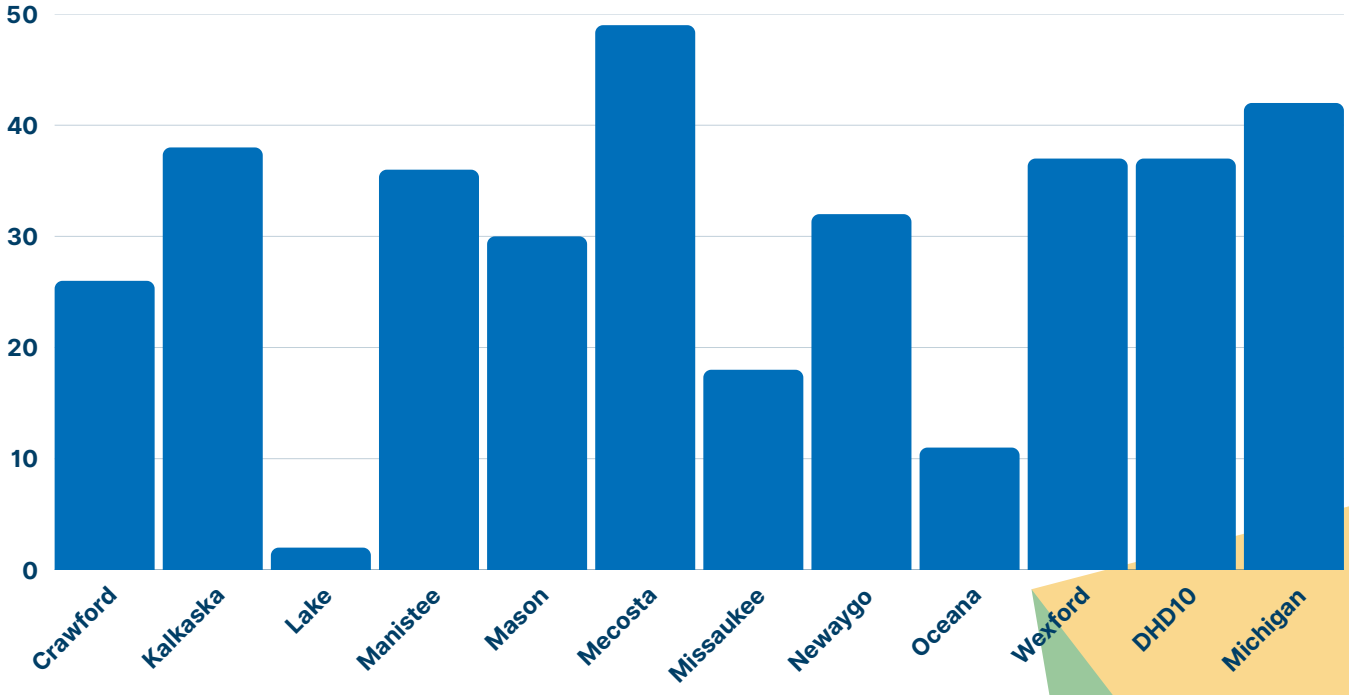
MICHIGAN LEAGUE FOR PUBLIC POLICY
- NUMBER OF LIVE BIRTHS, 2023
- PERCENT OF LIVE BIRTHS WITH LOW BIRTHWEIGHT BABIES, 2021-2023
- PERCENTAGE OF MOTHERS WHO SMOKED DURING PREGNANCY, 2021-2023

SUBSTANCE USE DISORDER

OVERDOSE RATES AND OPIOID PRESCRIPTION RATES FOR MISSAUKEE COUNTY AND MICHIGAN, 2021-2023

	MISSAUKEE COUNTY	MICHIGAN
3-YEAR AVERAGE FATAL OVERDOSE RATE PER 100,000 (2021-2023)	*	29.9
3-YEAR AVERAGE NONFATAL OVERDOSE ED VISIT RATE PER 100,000 (2021-2023)	252.4	293
OPIOID PRESCRIPTIONS DISPENSED PER 10,000, 2022	6,240	6,328

COUNTY RANKING OF SUBSTANCE USE VULNERABILITY INDEX BY COUNTY, 2022
****COUNTIES WITH LOWER SCORES ARE MORE VULNERABLE**



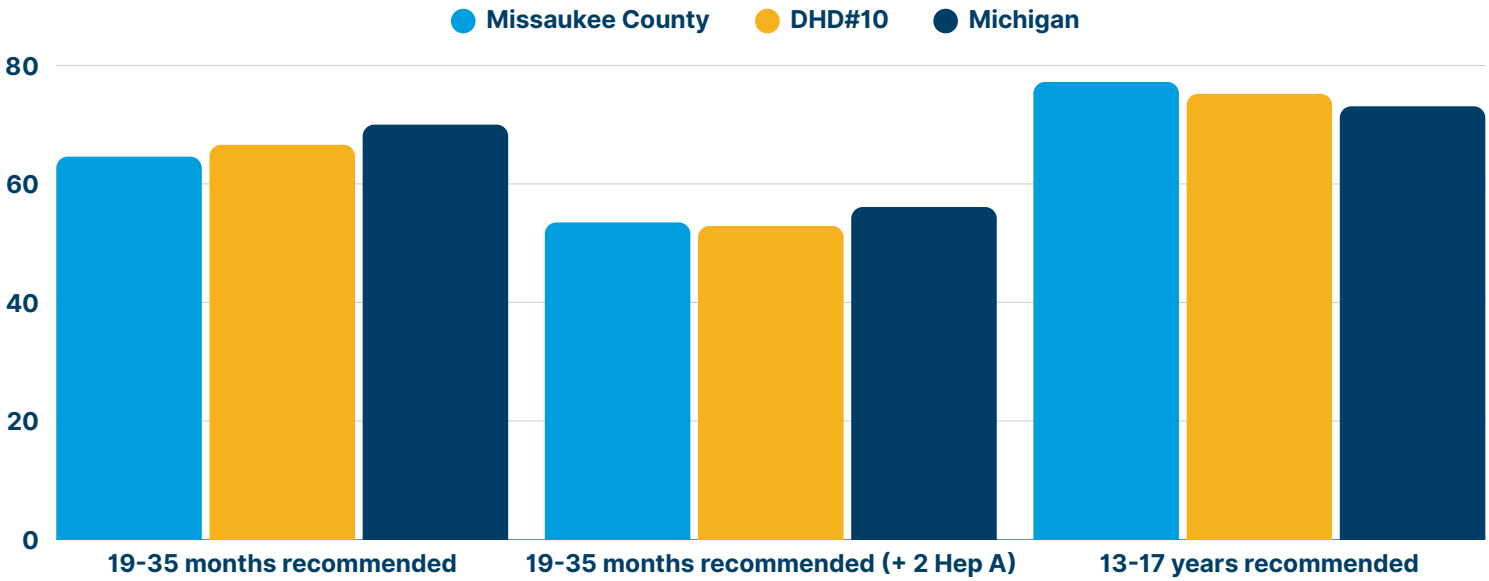
SOURCES: MDHHS

- MICHIGAN OVERDOSE DASHBOARD, 2021-2023

IMMUNIZATION

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

PERCENT OF CHILDREN THAT RECEIVED CDC RECOMMENDED CHILDHOOD IMMUNIZATIONS, 2023



RECOMMENDED VACCINES

- 19-35 MONTHS
  - 4 DTAP, 3 POLIO, 1 MMR, 3 HIB, 3 HEP B, 1 VARICELLA (CHICKENPOX), 4 PCV
- 19-35 MONTHS (+ 2 OPTIONAL HEP A)
  - 2 DOSES OF HEP A ARE OPTIONALLY RECOMMENDED IN ADDITION TO THE ABOVE RECOMMENDED
- 13-17 YEARS
  - 1 TDAP, 3 POLIO, 2 MMR, 3 HEP B, 2 VARICELLA (CHICKENPOX), 1 MENACWY, (2 OR 3 HPV - MALES & FEMALES)

PERCENTAGE OF HPV VACCINATION COMPLETION BY GENDER (13-17 YEARS OF AGE), MISSAUKEE COUNTY VS. MICHIGAN, 2023

	MISSAUKEE COUNTY	MICHIGAN
MALE	46.6%	43.1%
FEMALE	49.4%	45.4%

PREVENTATIVE VACCINATION COMPLETION IN OLDER ADULTS (65+ ONLY), 2019-2023

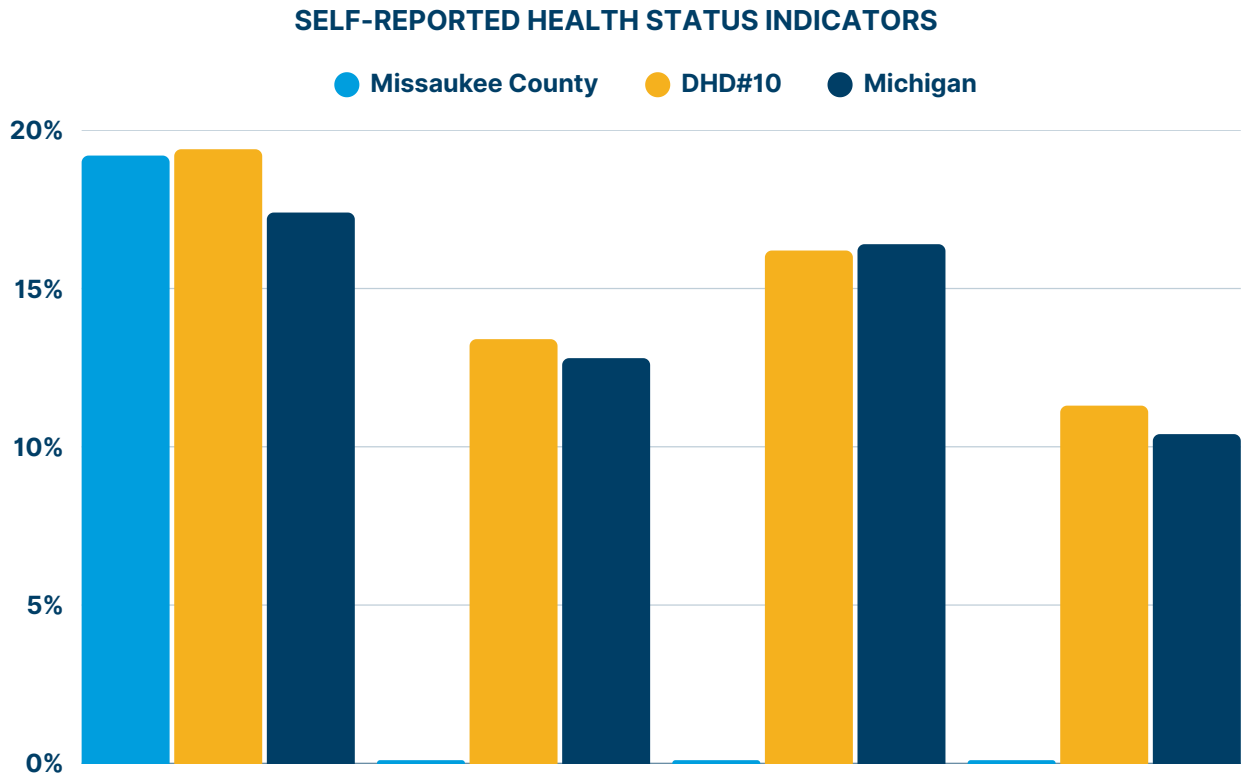
	HAD FLU VACCINE IN PAST YEAR	HAD PNEUMONIA VACCINE
DHD#10	59.3%	64.6%
MICHIGAN	69.3%	72.8%

SOURCES:
MICHIGAN CARE IMPROVEMENT REGISTRY
MICHIGAN BEHAVIORAL RISK FACTOR SURVEILLANCE SYSTEM, 2021-2023

BEHAVIORAL RISK FACTORS

The national Behavioral Risk Factor Surveillance System (BRFSS) collects data on health behaviors and conditions through annual telephone surveys. These surveys are conducted by the state and are the only source of state-specific and population-based estimates of these factors. The following geographic areas will be presented: County Level, DHD#10 Region, & Michigan. There will be some data sets with no county level comparison – data is suppressed when there are not enough responses to accurately represent the county as a whole.

The Michigan Behavioral Risk Factor Survey is completed annually through randomized telephone surveys for Michigan residents 18+. The most recent Michigan Behavioral Risk Factor Survey Annual Table (2023) can be accessed here.

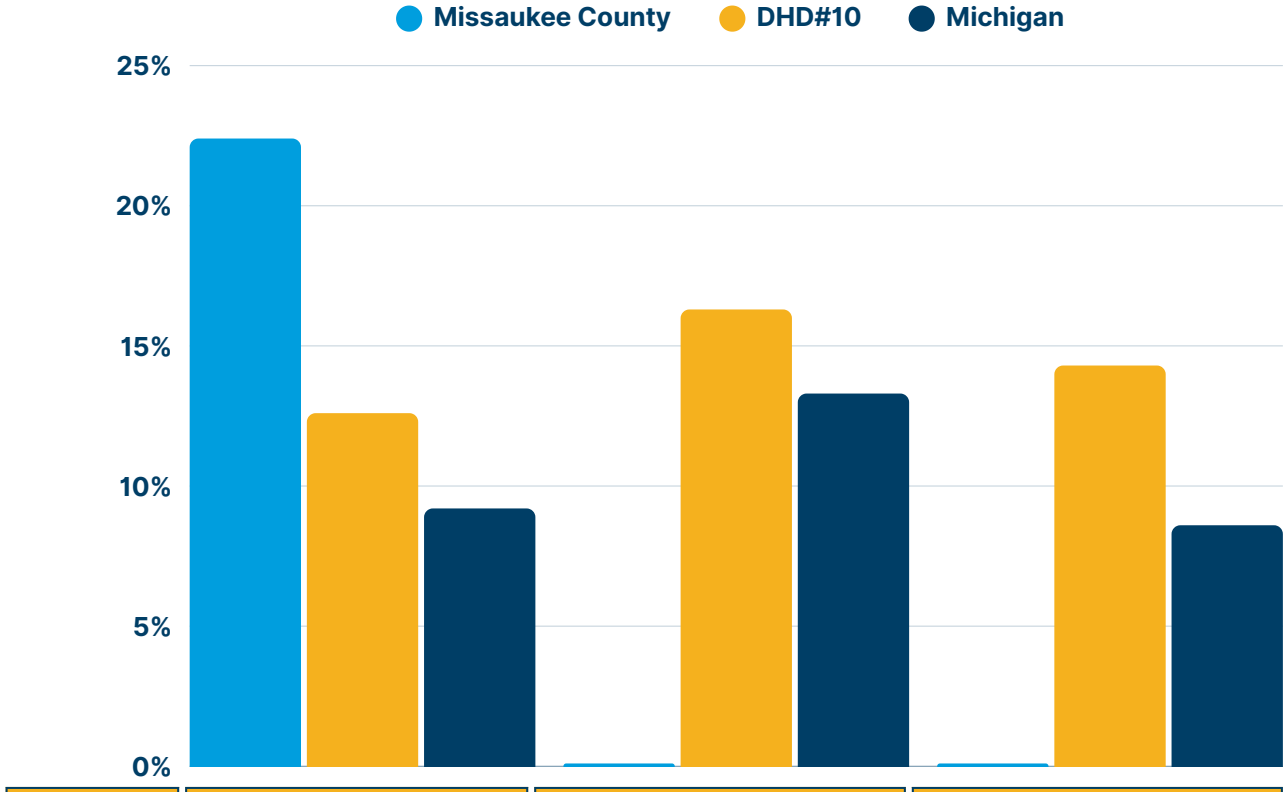


	FAIR/POOR GENERAL HEALTH STATUS	POOR PHYSICAL HEALTH (14+ DAYS)	POOR MENTAL HEALTH (14+DAYS)	ACTIVITY LIMITATION (14+ DAYS)
MISSAUKEE	19.2%	*	*	*
DHD#10	19.4%	13.4%	16.2%	11.3%
MICHIGAN	17.4%	12.8%	16.4%	10.4

SOURCES:
MICHIGAN DEPARTMENT OF HEALTH & HUMAN SERVICES

- MICHIGAN BEHAVIORAL RISK FACTOR SURVEILLANCE SYSTEM, 2023

BRFSS: ACCESS TO HEALTHCARE



	HAD TO FOREGO CARE IN PAST YEAR DUE TO COST	HAVE NO PRIMARY CARE PROVIDER (PCP)	NO HEALTH CARE COVERAGE (18-64)
MISSAUKEE	*	16.3%	*
DHD#10	9.8%	12.8%	8.5%
MICHIGAN	8.3%	11.6%	5.9%

NUMBER OF RESIDENTS PER HEALTHCARE PROVIDER IN 2023

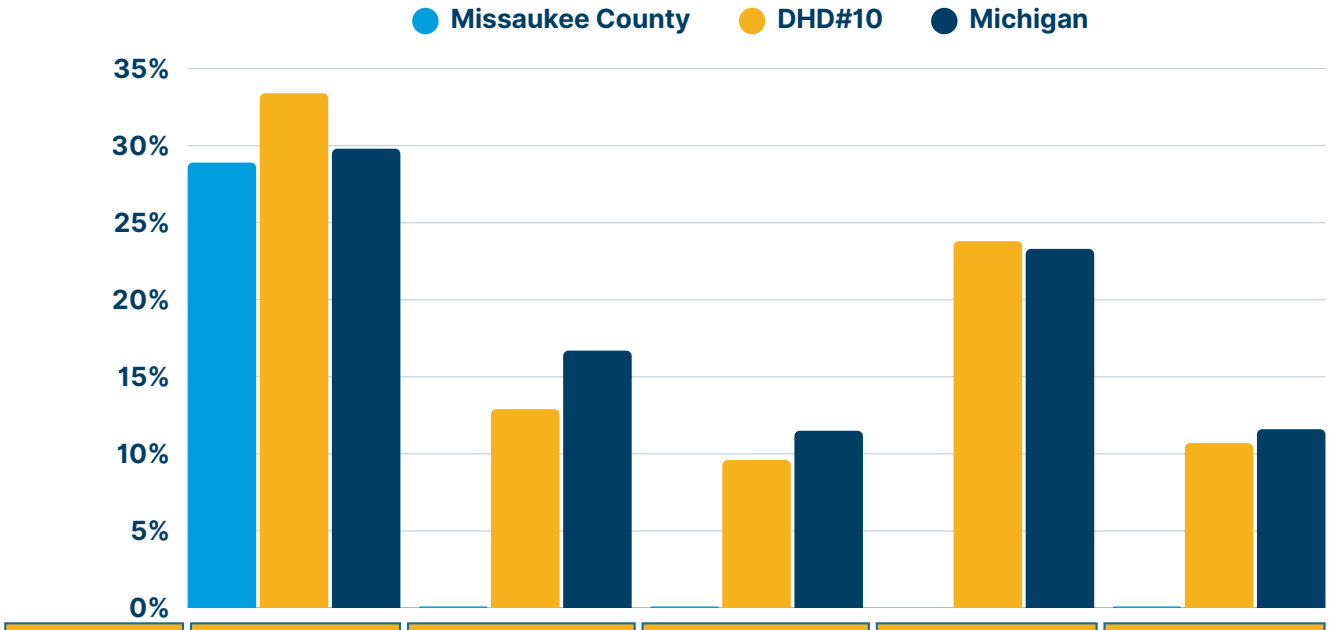
	MISSAUKEE	MICHIGAN
PRIMARY CARE PHYSICIAN	5,051:1	1,235:1
DENTIST	5,043:1	1,273:1
MENTAL HEALTH PROVIDER*	2,161:1	316:1

*MENTAL HEALTH PROVIDERS INCLUDE PSYCHIATRISTS, CLINICAL PSYCHOLOGISTS, CLINICAL SOCIAL WORKERS, PSYCHIATRIC NURSE SPECIALISTS, AND MARRIAGE AND FAMILY THERAPISTS WHO MEET CERTAIN QUALIFICATIONS AND CERTIFICATIONS.

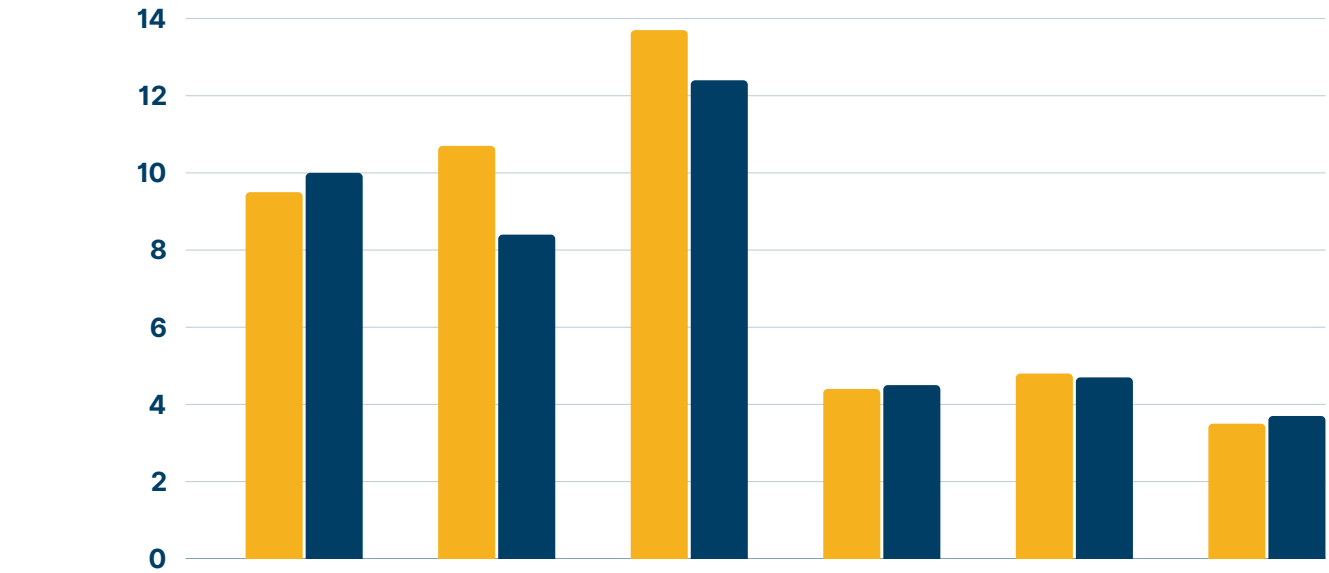
SOURCES:
MICHIGAN DEPARTMENT OF HEALTH & HUMAN SERVICES

- MICHIGAN BEHAVIORAL RISK FACTOR SURVEILLANCE SYSTEM, 2023
- COUNTY VS. STATE RANKINGS, 2023

BRFSS: CHRONIC CONDITIONS



	ARTHRITIS	LIFETIME ASTHMA	CURRENT ASTHMA	DEPRESSION	DIABETES
MISSAUKEE	28.9%	*	*	*	*
DHD#10	33.4%	12.9%	9.6%	23.8%	10.7%
MICHIGAN	29.8%	16.7%	11.5%	23.3%	11.6%

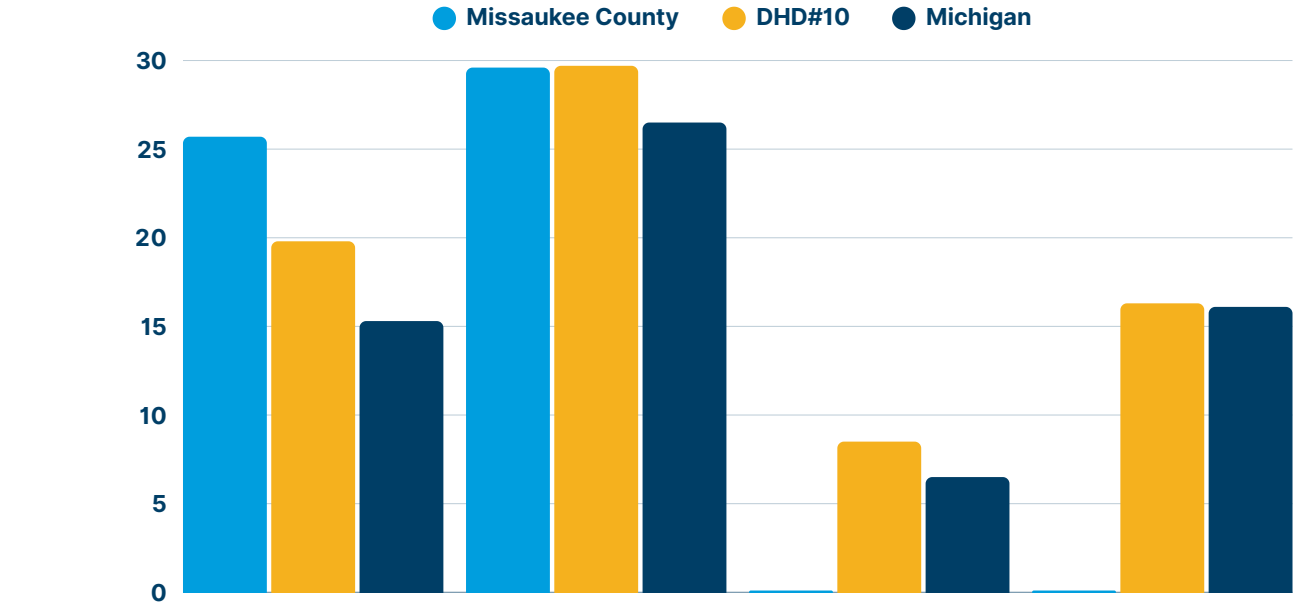


	ANY CARDIOVASCULAR DISEASE	COPD (CHRONIC OBSTRUCTIVE PULMONARY DISEASE)	CANCER, ALL TYPES	ANGINA (CHEST PAIN)	HEART ATTACK	STROKE
MISSAUKEE	*	*	*	*	*	*
DHD#10	9.5%	10.7%	13.7%	4.4%	4.8%	3.5%
MICHIGAN	9.7%	8.4%	12.4%	4.5%	4.7%	3.7%

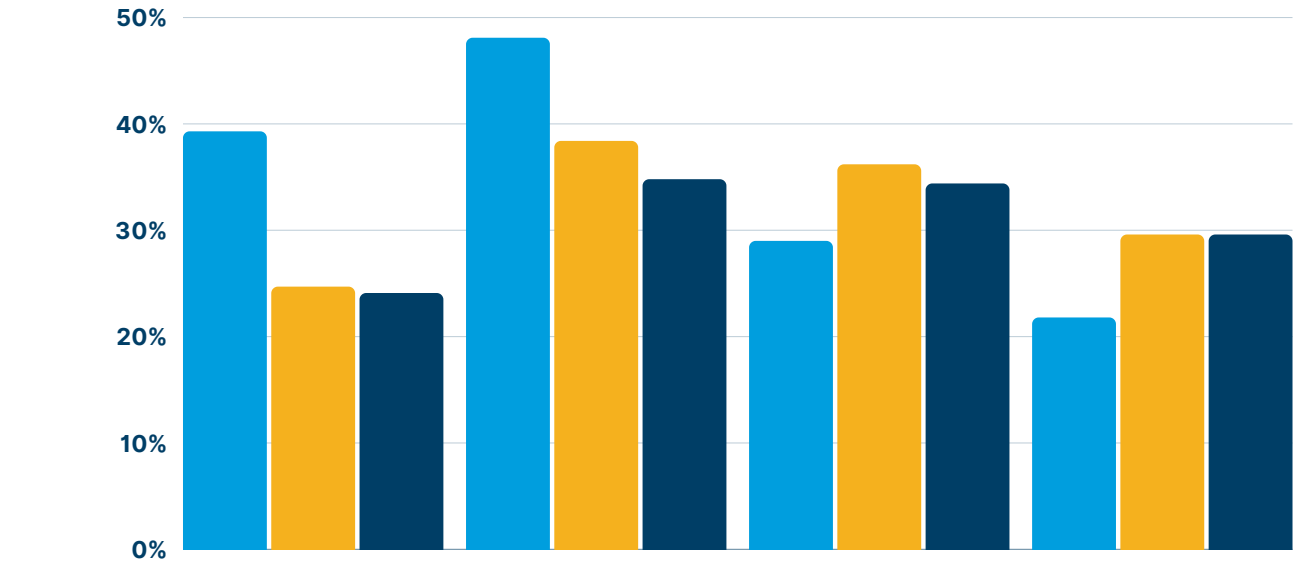
SOURCES:
MICHIGAN DEPARTMENT OF HEALTH & HUMAN SERVICES

- MICHIGAN BEHAVIORAL RISK FACTOR SURVEILLANCE SYSTEM, 2023

BRFSS: RISK BEHAVIORS



	CURRENTLY SMOKE CIGARETTES	FORMERLY SMOKE CIGARETTES	DRINK HEAVILY	CURRENTLY BINGE DRINK
MISSAUKEE	25.7%	29.6%	*	*
DHD#10	19.8%	29.7%	8.5%	16.3%
MICHIGAN	15.3%	26.5%	6.5%	16.1%



	NO LEISURE TIME PHYSICAL ACTIVITY	OBESE	OVERWEIGHT	HEALTHY WEIGHT
MISSAUKEE	39.3%	48.1%	29.0%	21.8%
DHD#10	24.7%	38.4%	31.1%	29.6%
MICHIGAN	24.1%	34.8%	33.5%	29.6%

SOURCES:
MICHIGAN DEPARTMENT OF HEALTH & HUMAN SERVICES

- MICHIGAN BEHAVIORAL RISK FACTOR SURVEILLANCE SYSTEM, 2023

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 (2023) can be accessed here.

MISSAUKEE COUNTY HEALTH RANKINGS (2023)		OVERALL 16 OUT 0F 83
HEALTH OUTCOMES		16
LENGTH OF LIFE	PREMATURE DEATH	10
QUALITY OF LIFE	POOR OR FAIR HEALTH: POOR PHYSICAL HEALTH DAYS; POOR MENTAL HEALTH DAYS; LOW BIRTH WEIGHT	22
HEALTH FACTORS		43
HEALTH BEHAVIORS	SMOKING; OBESITY; FOOD ENVIORMENT; PHUSICAL ACTIVITY; EXCESSIVE DRINKING; ALCHOL IMPAIRED DRIVING DEATHS; SEXUALLY TRANSMITTED INFECTIONS; TEEN BIRTHS	61
CLINCIAL CARE	UNINSURED; RATIONS OF PHYSICIANS, DENTISTS, AND MENTAL HEALTH PROVIDERS TO POPULATION; PREVENTABLE HOSPITAL STAYS; DIABETIC MONITORING; MAMMOGRAPHY SCREENING	75
SOCIAL AND ECONOMIC FACTORS	EDUCATIONS; UNEMPLOYMENT; POVERTY; CHILDREN IN SINGLE-PARENT HOUSEHOLDS; SOCIAL ASSOCIATIONS; VIOLENT CRIME; INJURY DEATHS	27
PHYSICAL ENVIROMENT	AIR POLLUTION; DRINKING WATER VIOLATIONS; SEVERE HOUSING PROBLEMS; DRIVING ALONG TO WORK AND LONG COMMUTE	31

SOURCES:
COUNTY HEALTH RANKINGS

- COUNTY VS. STATE RANKINGS, 2023

District Health Department #10

Healthy People, Healthy Communities

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 data@dhd10.org.

ADDITIONAL INFORMATION

DISTRICT HEALTH DEPARTMENT #10:
WWW.DHD10.ORG

NORTH MICHIGAN CHIR MITHRIVE:
WWW.NORTHERNMICHIGANCHIR.ORG/MITHRIVE/

MICHIGAN DEPARTMENT OF HEALTH AND HUMAN SERVICES:
WWW.MICHIGAN.GOV/MDHHS

COMMUNITY HEALTH RANKING:
WWW.COUNTYHEALTHRANKINGS.ORG

BEHAVIORAL RISK FACTOR SURVEY:
WWW.CDC.GOV/BRFSS

MICHIGAN LEAGUE FOR PUBLIC POLICY:
WWW.MLPP.ORG