

Kalamazoo County Health Statistics Update



2022

For more information or questions about this report, contact pio@kalcourtuy.com

Kalamazoo County Health & Community Services is committed to providing equitable, culturally competent care to all individuals served, regardless of race, age, sex, color, national origin, religion, height, weight, marital status, political affiliation, sexual orientation, gender identity, or disability.



KALAMAZOO COUNTY GOVERNMENT

In the Pursuit of Extraordinary Governance

Health and Community Services Department

Table of Contents

<u>Population Trends</u>	1
<u>Poverty</u>	2
<u>Maternal and Infant Health</u>	3
<u>Leading Causes of Death</u>	5
<u>Invasive Cancer</u>	6
<u>Sexually Transmitted Diseases/Human Immunodeficiency Virus</u>	7
<u>Health Outcomes</u>	8
<u>Health Behaviors</u>	9
<u>Definition of Terms</u>	10

Kalamazoo County Population Trends

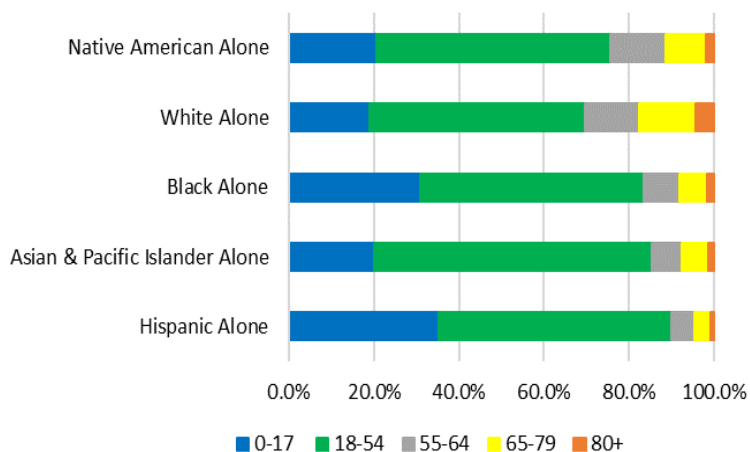
Total Population (2021)

261,108

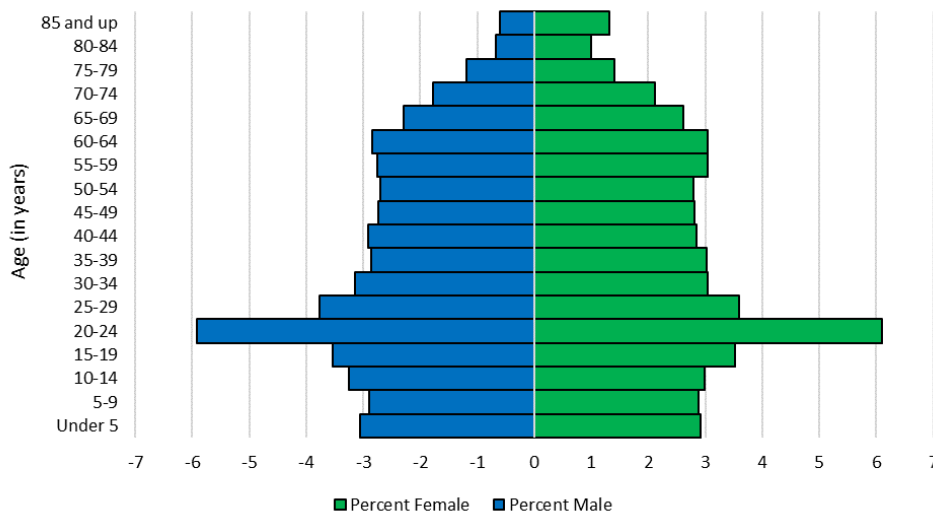
Live Births (2020)	2771
Deaths (2020)	2560

Population in 2020		%
Non-Hispanic White Alone	201,053.16	77.0%
Non-Hispanic Black Alone	30,810.74	11.8%
Non-Hispanic American Indian or Alaska Alone	1,305.54	0.5%
Two or More Races Alone	9,399.89	5.2%
Non-Hispanic Asian Alone	7,311.02	2.8%
Hispanic Alone	13,577.62	5.2%

2019 Population by Race and Age



2020 Kalamazoo Population Pyramid



This 2020 population pyramid shows the age-gender structure of Kalamazoo County's population. The largest group is persons aged 20-24 years, likely representing the college population.

Data Sources:

Michigan Department of Health and Human Services

U.S. Census

[Kalamazoo County Live Births, 2020](#)

[Age and Sex Kalamazoo County 2020](#)

[Deaths and Death Rates, Kalamazoo County 2020](#)

[Kalamazoo County Population 2021](#)

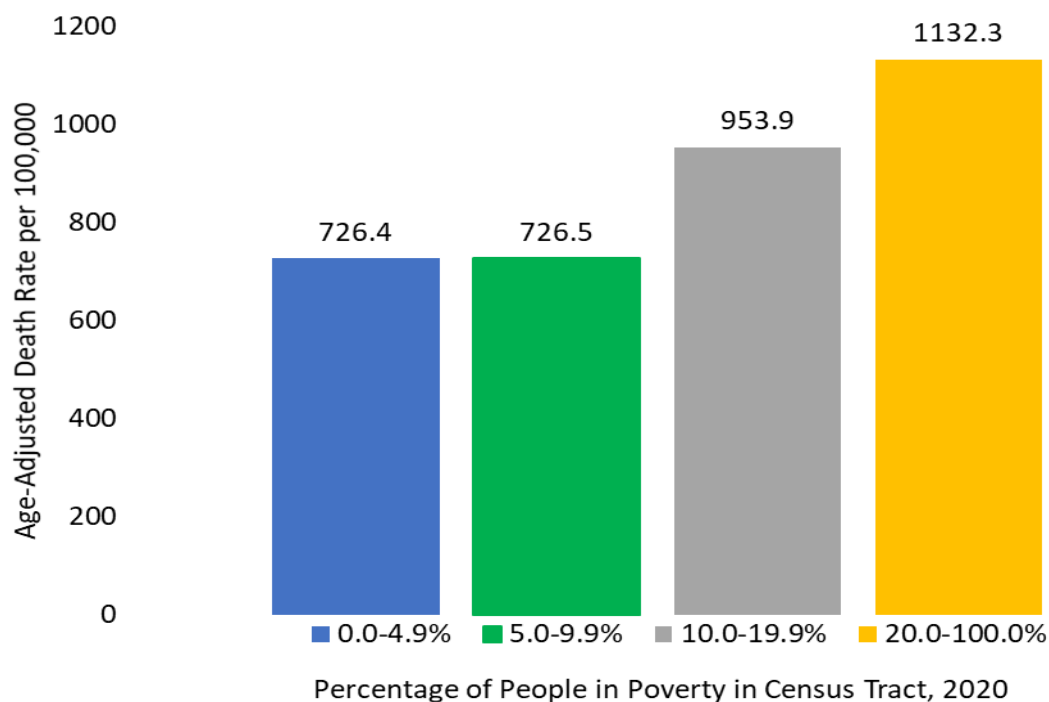
[Kalamazoo Population 2019](#)

Kalamazoo County Poverty

Poverty by Race/Ethnicity and Age Group 2020

	Population for whom poverty status is determined	% Below Poverty Level
Total	256,153	14.4%
Race/Ethnicity		
White Alone	205,420	11.9%
Black Alone	27,053	27.0%
Two or More Races	14,348	23.5%
Age Group		
Under 18 years	55,880	15.1%
18-64 years	161,489	16.3%
65+ years	38,784	5.7%

Impact of Poverty on Mortality



The mortality rate by census tract shows the relationship between the percentage of people living in poverty in a census tract and the age-adjusted death rate for that census tract. The census tracts with the highest percentage of people in poverty had an age-adjusted mortality rate that was 1.6 times the rate of the census tracts with the lowest percentage of people living in poverty.

Data Sources:

United States Census Bureau

[Poverty Status in the Past 12 Months, Kalamazoo 2020](#)

[Death Rates by Census Tract Poverty, 2020](#)

Kalamazoo County Maternal and Infant Health

Total Births 2020

2771

Race and Ethnicity of Mother 2020	Number of Live Births 2020
White	2096
Black	563
Asian & Pacific Islander	80
American Indian	8
All Other Races	22
Hispanic	191
Mid Easterner	47

Teen Pregnancy Rates* 2020

	Kalamazoo County	Michigan
Total	13.0	13.3
White	10.2	9.2
Black	27.4	29.7

*Births per 1,000 women aged 15-19

Maternal Characteristics 2020

	Kalamazoo	Michigan
Received prenatal care during first trimester	78.9%	74.6%
Smoked while pregnant	21.3%	14.5%
Received WIC during pregnancy	30.2%	32.5%

Level of Prenatal Care — Kotelchuck Index 2020

	Total		White		Black		Hispanic	
Adequate Plus	1627	58.7%	1276	60.9%	290	51.5%	111	58.1%
Adequate	582	21.0%	449	21.4%	107	19.0%	44	23.0%
Intermediate	175	6.3%	118	5.6%	47	8.3%	10	5.2%
Inadequate	372	13.4%	244	11.6%	114	20.2%	25	13.1%

Data Sources:

Michigan Department of Health and Human Services

[Birth Statistics, 2020](#)

[Teen Pregnancy, 2020](#)

[Maternal Characteristics, 2020](#)

[Level of Prenatal Care, 2020](#)

Kalamazoo County Maternal and Infant Health, Continued

Prematurity and Low Birthweight Rates* by Race of Mother 2020

	Very Preterm	Mid Preterm	Late Preterm	Very Low Birthweight	Low Birthweight
Total	15.9	10.5	72.5	13.7	82.6
White	13.4	7.6	68.2	11	68.2
Black	24.9	21.3	83.5	21.3	127.9
Hispanic	-	-	83.8	-	62.8

*Rate per 1,000 live births

Infant Mortality Rate* 2014-2020

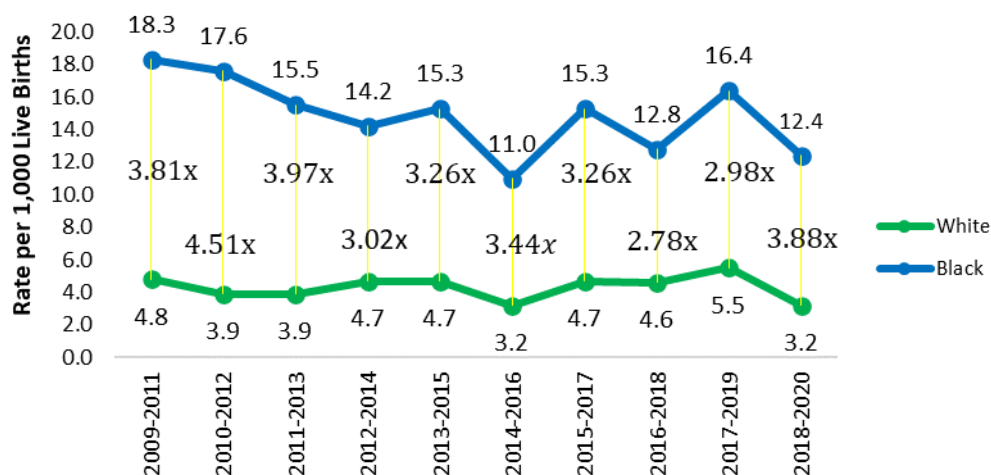
	2014-2016	2015-2017	2016-2018	2017-2019	2018-2020
Total	4.6	6.7	6.2	7.7	5
White	3.2	4.7	4.6	5.5	3.2
Black	11	15.3	12.8	16.4	12.4

*Rate per 1,000 live births

Black/White Infant Mortality Disparity 2014-2020

	2014-2016	2015-2017	2016-2018	2017-2019	2018-2020
Kalamazoo County	3.44	3.26	2.78	2.98	3.88
Michigan	2.71	2.92	3.06	3.04	3.00

3-Year Moving Average Infant Mortality Rate by Race and Black/White Mortality Disparity
(Kalamazoo County, 2009-2020)



Three Year Moving Average Infant Mortality Rate by Race for Kalamazoo County 2009-2020. Black/White mortality disparity is indicated on high-low lines.

Data Sources:
MDHHS

[Birth Statistics, 2019](#)

[Three Year Average Infant Mortality](#)

Mortality

Age-Adjusted Mortality Rates* 2020

	Kalamazoo Co	MI	US
All Causes	837.4	913.8	830.5
Heart Disease	161.9	206	167
Cancer	163.5	158.8	143.7
COVID-19	58.9	86.5	91.5
Unintentional Injuries	53.8	56.2	54
Stroke	34	44.8	38.6
Chronic Lower Respiratory Diseases	44	42.4	36.2
Alzheimer's Disease	26.6	37	32.2
Diabetes Mellitus	26.2	26.3	24.6
Kidney Disease	11.3	14.8	12.7
Pneumonia/Influenza	12.4	14.4	13

*Rate per 100,000 population

Kalamazoo County Mortality Rates* by Age and Race 2020

Age in years	Total	White	Black
Under 1	300.7	212.3	-
1-14	15.7	-	-
15-24	42.2	28	116.9
25-34	151.1	125.8	256.9
35-44	221.8	193.6	393.1
45-54	445.4	388.1	761.8
55-64	1125.5	1005.9	2258
65-74	2101.4	1999.2	3367
75-84	5030.2	4938.8	6805.6
Over 85	15803.5	16157.3	12000
Age-Adjusted Rate	837.4	812.1	1159.9

*Rate per 100,000 population

Data Sources:

Michigan Department of Health and Human Services

[Michigan and US Age-adjusted Death Rates for Leading Causes for Death, 2020](#)

[Community Health Information—Mortality, 2020](#)

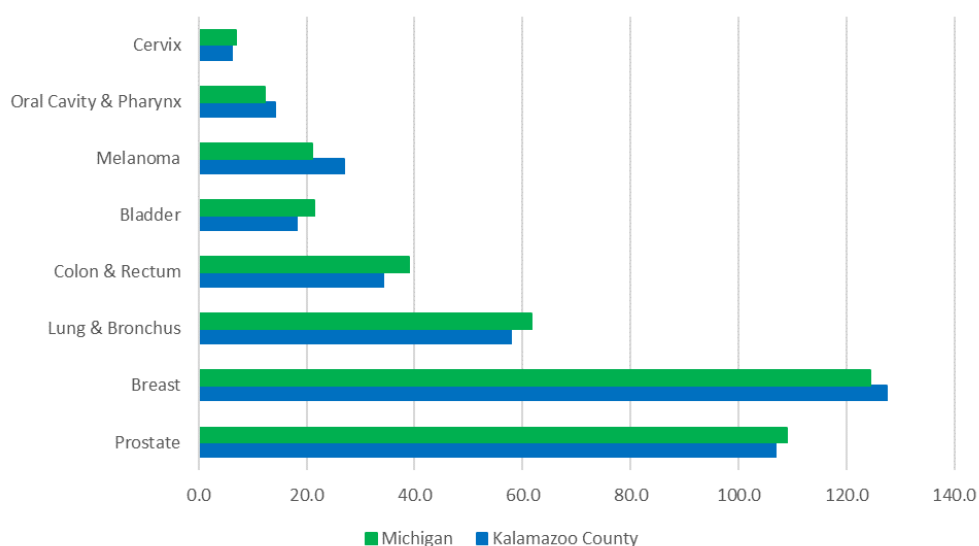
Kalamazoo County Invasive Cancer

Incidence Rate of Invasive Cancer

	2011-2015	2012-2016	2013-2017	2014-2018
Kalamazoo	428.7	428.6	417.9	421
Michigan	461.6	456.5	452.1	449.7

Invasive Cancer Mortality Rate

	2011-2015	2012-2016	2013-2017	2014-2018
Kalamazoo	162.4	156.7	153.7	153.1
Michigan	172.2	170.2	167.5	165.7



Invasive

Cancer

	Prostate	Breast	Lung & Bronchus	Colon & Rectum	Bladder	Melanoma	Oral Cavity & Pharynx	Cervix
Incidence (2016-2018)								
Kalamazoo	106.9	127.5	57.9	34.1	18.1	27.0	14.2	6.1
Michigan	109.0	124.5	61.7	39.0	21.4	21.0	12.2	6.9
Mortality (2018-2020)								
Kalamazoo	14.2	21.6	35.5	12.3	4.0	—	3.4	—
Michigan	17.8	20.3	40.7	14.0	4.4	2.1	2.6	1.9

Data Sources:

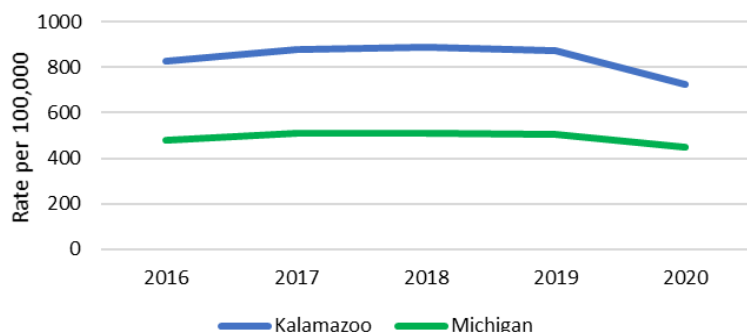
Michigan Department of Health and Human Services

[Five-Year Incidence and Mortality Trends — Invasive Cancer](#)

[Chronic Disease Indicators, 2018-2020](#)

Sexually Transmitted Infections/Human Immunodeficiency Virus

Chlamydia Case Rate



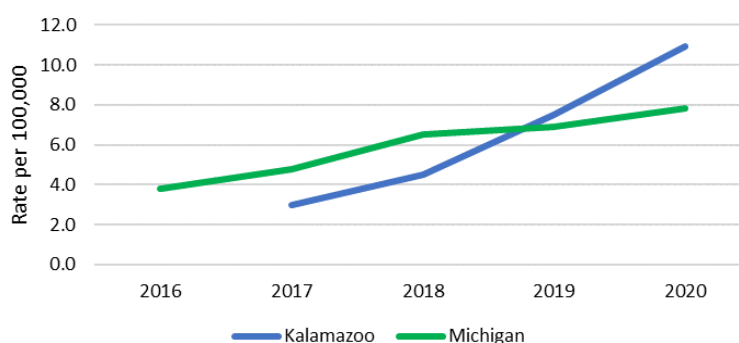
Chlamydia Case Rates

	Kalamazoo	Michigan
2016	825.5	477.6
2017	876.1	511.9
2018	891.4	512.8
2019	875.3	504.4
2020	727.0	448.9

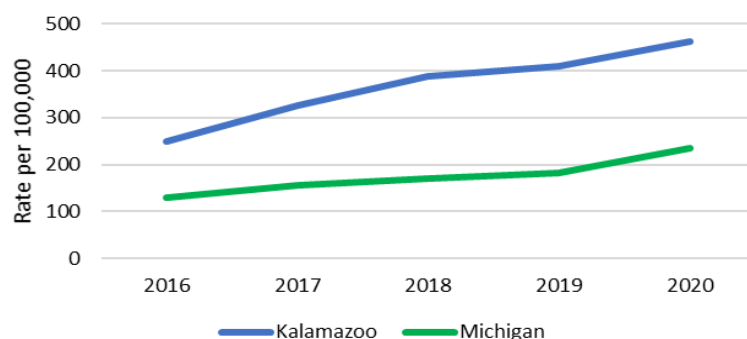
Primary and Secondary Syphilis Case Rates

	Kalamazoo	Michigan
2016	-	3.8
2017	3.0	4.8
2018	4.5	6.5
2019	7.5	6.9
2020	10.9	7.8

Primary and Secondary Syphilis Case Rate



Gonorrhea Case Rates



Gonorrhea Case Rates

	Kalamazoo	Michigan
2016	249.9	129.6
2017	324.7	154.7
2018	387.7	169.3
2019	408.6	182.9
2020	462.5	234.4

Kalamazoo County HIV Counts (All Stages, Count)

	2015	2016	2017	2018	2019
HIV Diagnoses	18	11	18	15	27
Prevalence	314	343	335	360	386

Data Sources:

Michigan Department of Health and Human Services

[Rates of Gonorrhea Cases Kalamazoo County](#)

[Rates of Chlamydia Cases Kalamazoo County](#)

[Rates of Primary and Secondary Syphilis Cases Kalamazoo County](#)

[STI Case Rates Michigan](#)

Center for Disease Control and Prevention

[HIV Incidence and Prevalence](#)

Health Outcomes

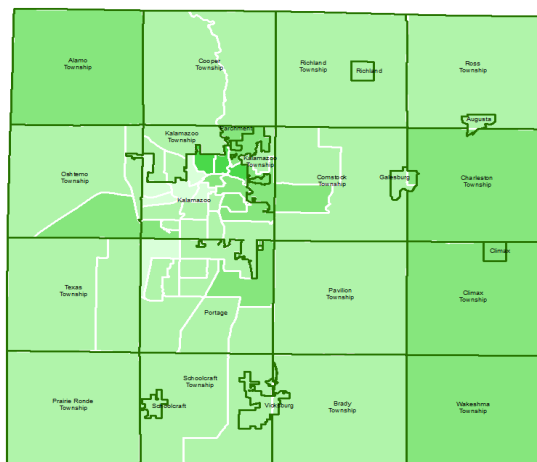
Health Outcomes for Adults 2017-2020

	Kalamazoo	Michigan
Healthy Weight	31.6%	29.0%
Overweight	31.9%	34.5%
Obese	34.8%	34.7%
General Health Status, Fair or Poor	14.3%	17.9%
Poor Physical Health on at least 14 days in the past month	11.3%	13.2%
Poor Mental Health on at least 14 days in the past month	19.0%	15.4%
Arthritis	27.1%	31.0%
Current Asthma	12.0%	11.1%
Depression	29.1%	21.4%
Diabetes	9.4%	11.7%
High Blood Pressure	32.8%	34.9%
High Cholesterol	33.5%	33.6%

Health Outcomes for Youth 2019-2020

	Kalamazoo Middle Schoolers	Kalamazoo High Schoolers	Michigan High Schoolers
Overweight	15.7%	15.1%	16.1%
Obese	11.6%	12.3%	15.3%
Ever Had Asthma	14.9%	19.1%	24.2

Diagnosed Diabetes Among Adults Age 18 and older by Census Tract 2017



■ 2.7% - 7.3% (6)
 ■ 7.4% - 10.2% (34)
 ■ 10.3% - 13.7% (14)
 ■ 13.8% - 22.2% (3)

Respondents aged ≥ 18 years who report ever been told by a doctor, nurse, or other health professional that they have diabetes other than diabetes during pregnancy.

Data Source: 2017 BRFSS, CDC 500 Cities & Places Data Portal - Map Created By: Jeff Reicherts, MA (October 22, 2021)

Data Sources:

Michigan Department of Health and Human Services

[BRFS Results 2017-2019](#)

[BRFS Results 2018-2020](#)

Michigan Department of Education

[MiPHY Results 2019-2020](#)

Center for Disease Control and Prevention

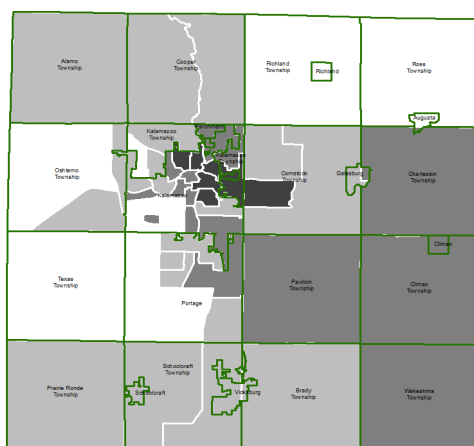
[YRBS—Michigan 2019 Results](#)

Health Behaviors

Health Behaviors for Adults 2018-2020

	Kalamazoo	Michigan
No Health Care Coverage Among Those Aged 18-64 Years	9.0%	9.5%
No Routine Check-up in Past Year	21.1%	21.2%
No Dental Check-up in Past Year	26.8%	30.8%
Adequate Physical Activity	23.3%	21.3%
Current Smoking	17.9%	18.6%
Binge Drinking	19.8%	17.9%
Flu Vaccine in Past Year, Adults Aged 65 and Older	63.5%	61.6%

Smoking Among Adults Age 18 Years and Older by Census tract 2017



11.8% - 16.3% (15) 16.4% - 20.1% (20) 20.2% - 24.9% (15) 25% - 32.4% (7)
 Respondents aged >= 18 years who report having smoked >=100 cigarettes in their lifetime and currently smoke every day or some days.

Data Source: 2017 BRFSS, CDC 500 Cities & Places Data Portal - Map Created By: Jeff Reicherts, MA (November 8, 2021)

Health Behaviors for Youth 2019-2020

	Kalamazoo Middle Schoolers	Kalamazoo High Schoolers	Michigan High Schoolers
Consumed ≤ 5 Fruit/Vegetables per day	29.5%	19.7%	—
Check-Up or Physical Exam in past 12 months	74.3%	77.4%	—
Dental Check-up in past 12 months	77.6%	83.0%	—
Physically Active 60 min per day in 5 of past 7 days	58.1%	47.6%	—
Smoked Cigarettes during the past 30 days	0.5%	1.0%	4.5%
Drank Alcohol in Past 30 days	1.1%	13.8%	25.4%
Binge Drinking	0.8%	7.7%	11.2%
Used an electronic vapor product in the past 30 days	3.7%	16.3%	20.8%

Data Sources:

Michigan Department of Health and Human Services

[BRFS Results 2018-2020](#)

Michigan Department of Education

[MiPHY Results 2019-2020](#)

Definition of Terms

Age-Adjustment – Age-adjustment is used to compare risks of two or more populations at one point in time or one population at two or more points in time. Age-adjusted rates should be viewed as relative indexes rather than actual measures of risk. Age-adjusted rates are computed by the direct method by applying age-specific rates in a population of interest to a standardized age distribution, in order to eliminate differences in observed rates that result from age differences in population composition.

Incidence – The number of cases of disease having their onset during a prescribed period of time. It is often expressed as a rate. Incidence is a measure of morbidity or other events that occur within a specified period of time. Only new cases are counted as incident cases.

Prevalence – The number of cases of a disease, infected persons, or persons with some other attribute present during a particular interval of time. It is often expressed as a rate (for example, the prevalence of diabetes per 1,000 persons during a year). Prevalence is influenced by the incidence (number of new cases), the duration of disease (how long the disease lasts), and the case fatality/survival rate (the proportion of people who have the disease that will die from it).

Infant Mortality Rate – Calculated by dividing the number of infant deaths during a calendar year by the number of live births reported in the same year. It is expressed as the number of infant deaths per 1,000 live births.

Poverty – Individuals or families are "poor" if their annual pre-tax cash income falls below a dollar amount, or poverty threshold, that the Census Bureau determines using a federal measure of poverty that is recalculated each year. (For more information on the definition of poverty, please visit the [Institute for Research on Poverty website](#).)

Co-infected — When both STI and HIV infection are present at the same time. Requires HIV diagnosis to be on or before the date of STI diagnosis.

Co-diagnosed — When an STI and HIV or another STI are both diagnosed within 30 days of each other, regardless of which is diagnosed first. May include cases which are not counted as a coinfection due to HIV diagnosis coming after STI.

High Lead Levels – *The Michigan Blood Testing Plan* uses [three criteria](#) for determining if a child should be tested for lead poisoning: 1. Living in one of Michigan's 14 target communities. 2. Enrollment in Medicaid or WIC. 3. Score on a screening questionnaire.

The data in this report are for tested children less than age 6. Each child was counted once each year, even if they had more than one test that year. The counts of children by blood lead level were based on the value representing the highest blood lead level obtained from a venous blood draw, or a capillary blood test if there was no venous test that calendar year. Blood lead levels (BLL) equal or greater than five micrograms per deciliter of blood ($\geq 5 \mu\text{g}/\text{dL}$) are considered elevated. In addition to data on numbers of children tested and numbers with elevated BLLs, the county-level data tables include data on the numbers of children in each county and the percent of older homes, based on data from the U.S. Census, because older homes are a risk factor for lead exposure.

Kotelchuck – An index that uses a combination of when prenatal

care began and the number of prenatal visits to classify the adequacy of prenatal care. A ratio of observed to expected visits is then calculated and grouped into four categories: Inadequate (received less than 50% of expected visits), Intermediate (50%-79%), Adequate (80%-109%), and Adequate Plus (110% or more).

Healthy Weight – In adults, a body mass index (BMI) between 18.5 and 24.9 kg/m^2 .

Overweight – In adults, a BMI between 25.0 and 29.9 kg/m^2 . In youth, a BMI between the 85th percentile and 95th percentile for height and weight.

Obese – In adults, a BMI greater than 30.0 kg/m^2 . In youth, BMI at or above the 95th percentile for age and sex.

Arthritis – The proportion who reported ever being told by a health care professional that they had some form of arthritis, rheumatoid arthritis, gout, lupus, or fibromyalgia.

Asthma – The proportion who reported that they currently have asthma.

Depression – The proportion who reported ever being told by a doctor that they had a depressive disorder including depression, major depression, dysthymia, or minor depression.

Diabetes – The proportion who reported that they were ever told by a doctor that they have diabetes. Women who had diabetes only during pregnancy and adults who were diagnosed with pre-diabetes were not included.

High Blood Pressure – The proportion who reported that they were ever told by a doctor that they had high blood pressure (HBP). Women who had HBP only during pregnancy and adults who were borderline hypertensive were considered not included.

High Cholesterol – The proportion who ever had their blood cholesterol checked and reported that a doctor, nurse, or other health professional had told them that their cholesterol was high.

No Healthcare Coverage – Among adults 18-64 in survey population, the proportion who reported having no healthcare coverage, including health insurance, prepaid plans such as HMOs, or government plans, such as Medicare.

Consume ≤ 5 Servings of Fruits/Vegetables Per Day – The proportion who reported not consuming more than or equal to the recommended five servings of fruits (including juice) and vegetables per day.

Adequate Physical Activity – The proportion who reported that they do either moderate physical activities for at least 150 minutes per week, vigorous physical activities for at least 75 minutes per week, or an equivalent combination of moderate and vigorous physical activities and also participate in muscle strengthening activities on two or more days per week.

Current Cigarette Smoker – The proportion of adults who reported that they had ever smoked at least 100 cigarettes (five packs) in their life and that they smoke cigarettes now, either every day or on some days.

Binge Drinking – In adults, those who reported consuming five or more drinks per occasion (men) or 4 or more drinks per occasion (women) at least once in the previous month. In youth, those who had five or more drinks of alcohol in a row, that is, within a couple of hours, during the past 30 days.