

**Health Indicators and Risk Estimates by
Community Health Assessment Regions
&
Local Health Departments**

State of Michigan

Selected Tables

**Michigan Behavioral Risk Factor Surveillance System
(Michigan BRFSS)**

2022 - 2024

Lifecourse Epidemiology and Genomics Division
Bureau of Epidemiology and Population Health
Michigan Department of Health and Human Services

This report has been modified from the original format to present data specific to the Branch Hillsdale St. Joseph Community Health Agency. The complete report is located at [2022-2024 Michigan BRFSS Regional and Local Health Department Estimates](#).

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Introduction

The Michigan Behavioral Risk Factor Survey (MiBRFS) is an annual, statewide telephone survey of Michigan adults aged 18 years and older that is conducted through a collaborative effort among the Population Health Surveillance Branch (PHSB) of the Centers for Disease Control and Prevention (CDC), the ICF Macro Inc., and the Michigan Department of Health and Human Services. Michigan BRFSS data contribute to the national [Behavioral Risk Factor Surveillance System](#) that is managed by the PHSB at the CDC.

State-specific, population-based prevalence estimates (and asymmetric 95% confidence intervals) of health risk behaviors, preventive health practices, and chronic conditions are calculated using annual data sets (see Annual Tables at the [MiBRFSS website](http://www.michigan.gov/brfs) [<http://www.michigan.gov/brfs>]). However, region-specific and local health department-specific prevalence rates are usually computed using BRFSS data combined across years.

For this report, data from the 2022-2024 Michigan BRFSS were combined. The total sample sizes by year were: 10,058 in 2022, 9,978 in 2023, and 11,419 in 2024. Not all questions were included annually in the survey. The table subtitles indicate which years were used for that particular analysis.

For the 2022 through 2024 Michigan Behavioral Risk Factor Surveys, the sample of land line telephone numbers that were utilized for data collection was selected using a list-assisted, random-digit-dialed methodology with a disproportionate stratification based on phone bank density, and whether or not the phone numbers were directory listed. The sample of cell phone numbers used within each survey year was randomly selected from dedicated cellular telephone banks sorted on the basis of area code and exchange within the State of Michigan.

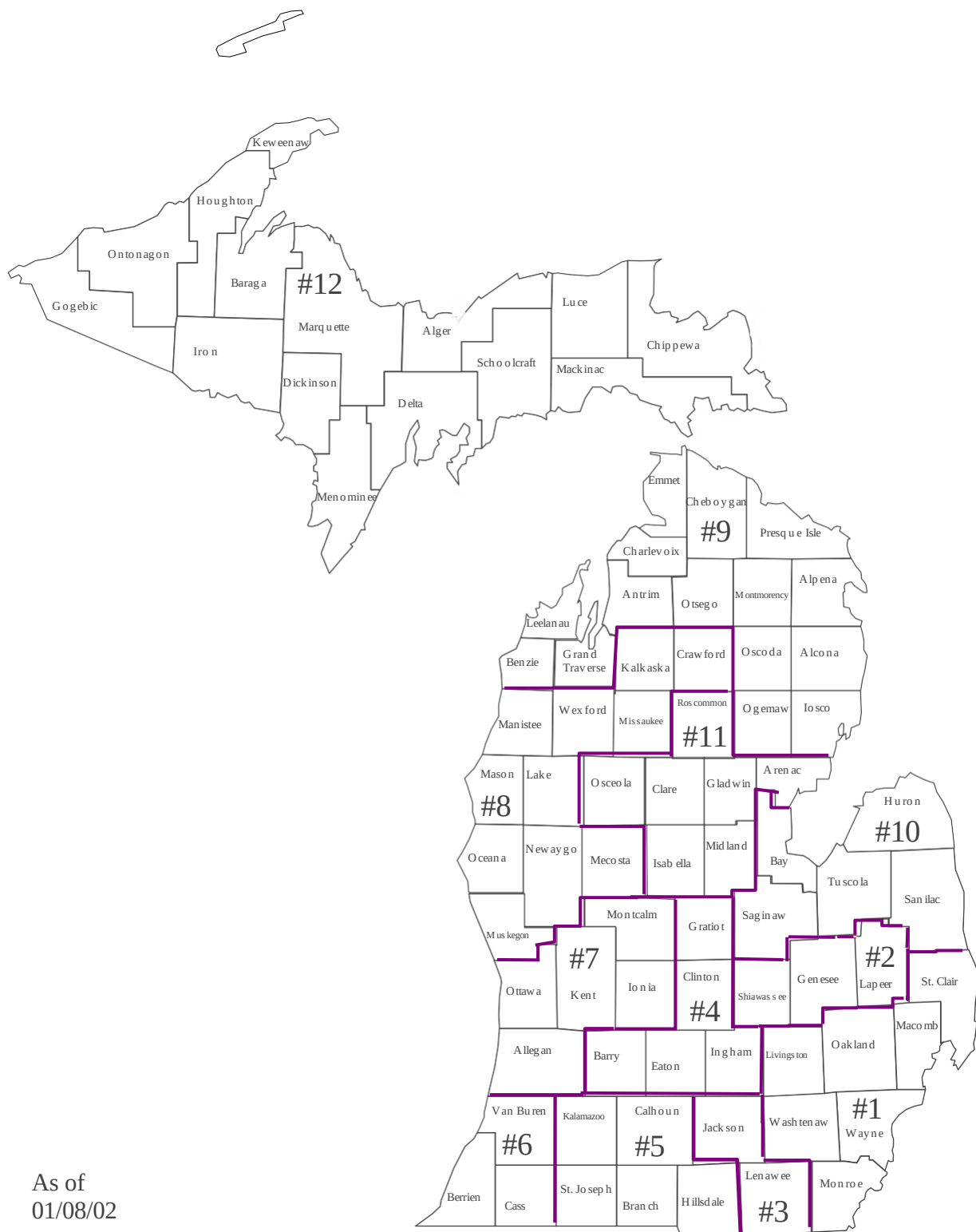
Iterative proportional fitting or raking was the weighting methodology used to make the 2022-2024 Michigan BRFSS data representative of the current Michigan adult population. Estimates based on this methodology were weighted to adjust for the probabilities of selection and a raking adjustment factor that adjusted for the distribution of Michigan adults by telephone source (land line vs. cell phone), detailed race/ethnicity, education level, marital status, age by gender, gender by race/ethnicity, age by race/ethnicity, and renter/owner status. No additional weighting factors were computed at the regional or local health department (LHD) level, thus the weights used might not always provide accurate regional and/or LHD estimates, particularly when regional and/or LHD demographic distributions vary greatly from that of the state.

Population-based prevalence estimates and asymmetric 95% confidence intervals were calculated for indicators of health status, health risk behaviors, clinical preventive practices, and chronic conditions among the overall adult population in Michigan, as well as at the regional and local health department level. All analyses were performed in SAS-Callable SUDAAN®, a statistical computing program that was designed for complex sample surveys. In an effort to provide the most reliable information possible, prevalence estimates are suppressed if they are based on a denominator of less than 50 respondents or have a relative standard error of greater than 30%. Comparisons between estimates with non-overlapping 95% confidence intervals should be considered significantly different.

Due to the BRFSS methodology changes that took place in 2011, the estimates provided within the following tables should not be compared to Michigan BRFSS estimates from years prior to 2011.

If you have any questions regarding any of the estimates within the following tables, please contact us at MIBRFSS@michigan.gov.

Community Health Assessment and Improvement Regions State of Michigan



As of
01/08/02

Local Health Departments State of Michigan

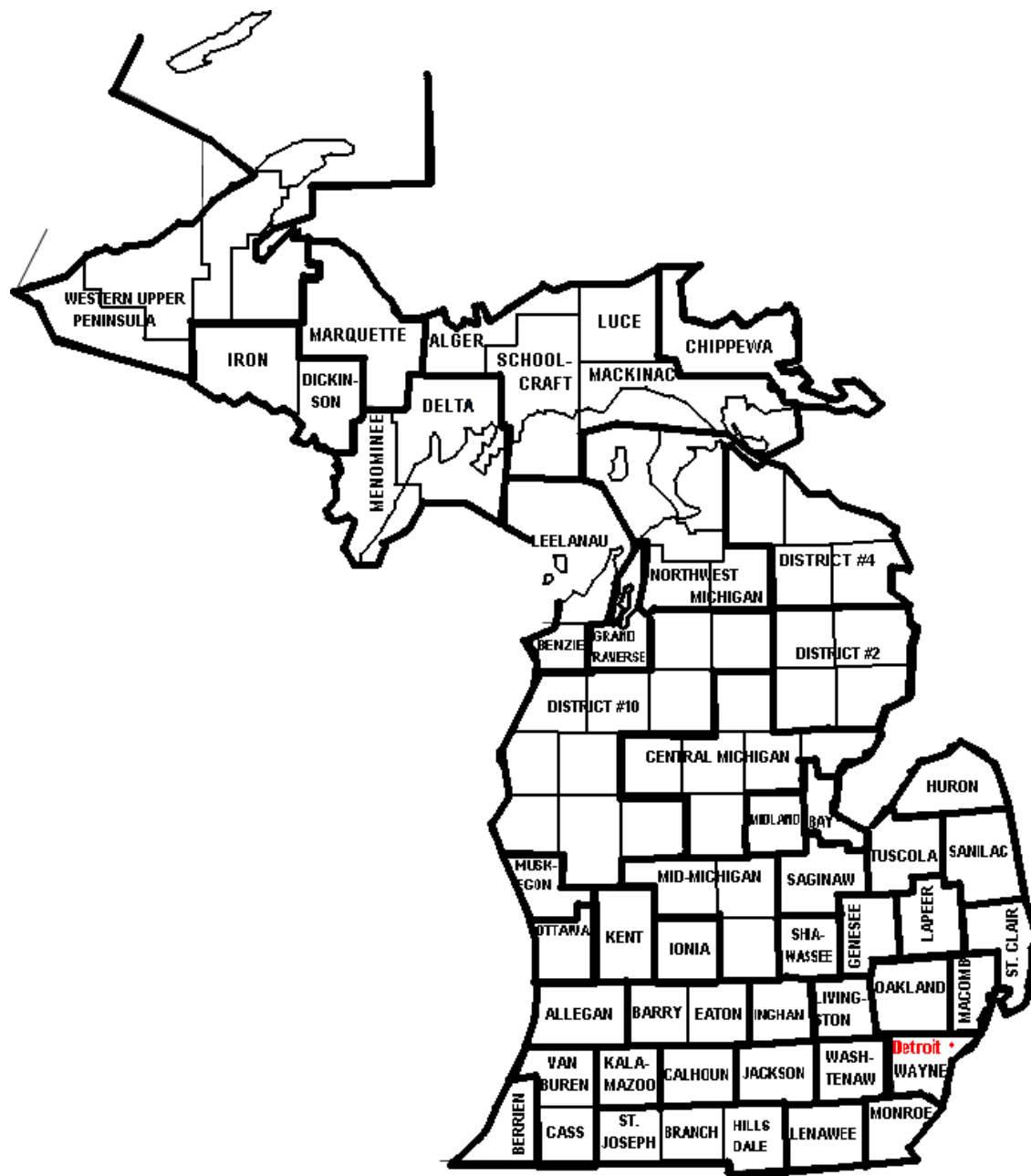


Table 1: Health Status Michigan BRFSS, 2022-2024 Combined			
Geographic Area	General Health, Fair or Poor The proportion of adults who reported that their health, in general, was either fair or poor.		
	N	%	95% Confidence Interval
Michigan Total	31,367	19.1	(18.5-19.7)
Region 5	1,834	18.2	(15.9-20.6)
Branch-Hillsdale-St. Joseph	435	21.1	(16.8-26.1)

Table 2: Poor Physical Health on at Least 14 Days in the Past Month Michigan BRFSS, 2022-2024 Combined			
Geographic Area	Poor Physical Health The proportion of adults who reported 14 or more days, out of the previous 30, on which their physical health was not good, which includes physical illness and injury.		
	N	%	95% Confidence Interval
Michigan Total	30,608	13.7	(13.2-14.3)
Region 5	1,791	14.1	(12.0-16.3)
Branch-Hillsdale-St. Joseph	419	16.8	(13.2-21.2)

Poor Mental Health on at Least 14 Days in the Past Month Michigan BRFSS, 2022-2024 Combined			
Geographic Area	Poor Mental Health The proportion of adults who reported 14 or more days, out of the previous 30, on which their mental health was not good, which, and includes stress, depression problems with emotions.		
	N	%	95% Confidence Interval
Michigan Total	30,877	17.0	(16.3-17.6)
Region 5	1,808	17.7	(15.2-20.6)
Branch-Hillsdale-St. Joseph	428	16.1	(12.2-20.8)

Table 4: Activity Limitation on at Least 14 Days in the Past Month Michigan BRFSS, 2022-2024 Combined			
Geographic Area	Activity Limitation The proportion of adults who reported 14 or more days, out of the previous 30, on which either poor physical health or poor mental health kept them from doing their usual activities, such as self-care, work, and recreation.		
	N	%	95% Confidence Interval
Michigan Total	31,068	11.0	(10.5-11.5)
Region 5	1,823	11.2	(9.3-13.5)
Branch-Hillsdale-St. Joseph	431	14.1	(10.6-18.6)

Table 5: Disability Michigan BRFSS, 2022-2024 Combined			
Geographic Area	Disability Among all adults, the proportion who reported having serious difficulty hearing, visual impairment, difficulty concentrating, remembering, or making decisions, difficulty walking or climbing stairs, difficulty dressing or bathing, or difficulty doing errands alone.		
	N	%	95% Confidence Interval
Michigan Total	29,610	30.6	(29.9-31.3)
Region 5	1,762	32.6	(29.6-35.8)
Branch-Hillsdale-St. Joseph	426	36.1	(30.3-42.2)

Table 6: Weight Status Michigan BRFSS, 2022-2024 Combined							
BMI, body mass index, is defined as weight (in kilograms) divided by height (in meters) squared [weight in kg/(height in meters) ²]. Weight and height were self-reported. Pregnant women were excluded.							
Geographic Area	Sample Size	Obese The proportion of adults whose BMI was greater than or equal to 30.0.		Overweight The proportion of adults whose BMI was greater than or equal to 25.0, but less than 30.0.		Healthy Weight The proportion of adults whose BMI was greater than or equal to 18.5, but less than 25.0.	
	N	%	95% Confidence Interval	%	95% Confidence Interval	%	95% Confidence Interval
Michigan Total	28,167	35.4	(34.6-36.1)	32.9	(32.2-33.7)	29.6	(28.9-30.4)
Region 5	1,678	35.6	(32.5-38.8)	33.3	(30.3-36.4)	29.3	(26.2-32.7)
Branch-Hillsdale-St. Joseph	403	34.7	(28.9-40.9)	36.0	(30.1-42.5)	26.4	(20.6-33.1)

Table 7: No Health Care Coverage Among Those Aged 18-64 Years Michigan BRFSS, 2022-2024 Combined			
Geographic Area	No Health Care Coverage Among adults aged 18-64 years, the proportion who reported having no health care coverage, including health insurance, prepaid plans such as HMOs, or government plans, such as Medicare.		
	N	%	95% Confidence Interval
Michigan Total	17,142	6.3	(5.7-6.8)
Region 5	1,018	6.8	(4.8-9.5)
Branch-Hillsdale-St. Joseph Suppressed due to a denominator < 50 and/or a relative standard error > 30%.	-- ^c	-- ^c	-- ^c

Table 8: Health Care Access Michigan BRFSS, 2022-2024 Combined						
Geographic Area	No Personal Health Care Provider The proportion of adults who reported that they did not have anyone that they thought of as their personal doctor or health care provider.			No Health Care Access During Past 12 Months Due to Cost The proportion of adults who reported that in the past 12 months there was a time when they needed to see a doctor but could not due to the cost.		
	N	%	95% Confidence Interval	N	%	95% Confidence Interval
Michigan Total	31,138	11.8	(11.2-12.4)	31,352	9.5	(9.0-10.0)
Region 5	1,821	11.8	(9.7-14.2)	1,836	9.8	(7.9-12.1)
Branch-Hillsdale-St. Joseph	434	11.5	(7.5-17.2)	439	10.3	(6.6-15.7)

Table 9: No Leisure Time Physical Activity Michigan BRFSS, 2022-2024 Combined			
Geographic Area	No Leisure Time Physical Activity The proportion of adults who reported not participating in any leisure time physical activities or exercises such as running, calisthenics, golf, gardening, or walking during the past month.		
	N	%	95% Confidence Interval
Michigan Total	31,334	23.7	(23.0-24.4)
Region 5	1,836	25.9	(23.2-28.8)
Branch-Hillsdale-St. Joseph	436	29.8	(24.5-35.7)

Table 10: Cigarette Smoking
Michigan BRFSS, 2022-2024 Combined

Geographic Area	Sample Size	Current Smoking 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.		Former Smoking The proportion of adults who reported that they had ever smoked at least 100 cigarettes (five packs) in their life, but they do not smoke cigarettes now.		Never Smoked	
	N	%	95% Confidence Interval	%	95% Confidence Interval	%	95% Confidence Interval
Michigan Total	29,071	14.1	(13.5-14.7)	27.4	(26.7-28.1)	58.5	(57.7-59.3)
Region 5	1,738	13.7	(11.7-16.1)	29.7	(27.0-32.7)	56.5	(53.3-59.7)
Branch-Hillsdale-St. Joseph	420	16.9	(13.0-21.8)	36.9	(31.1-43.1)	46.2	(40.0-52.6)

Table 11: Alcohol Consumption
Michigan BRFSS, 2022-2024 Combined

Geographic Area	Sample Size	Any Alcohol in Past Month Among all adults, the proportion who reported consuming at least one drink of any alcoholic beverage in the previous month.		Heavy Drinking Among all adults, the proportion who reported consuming an average of more than two alcoholic drinks per day for men or more than one per day for women in the previous month.		Binge Drinking Among all adults, the proportion who reported consuming five or more drinks per occasion (for men) or 4 or more drinks per occasion (for women) at least once in the previous month.	
	N	%	95% Confidence Interval	%	95% Confidence Interval	%	95% Confidence Interval
Michigan Total	28,093	53.2	(52.4-54.0)	6.4	(6.0-6.8)	15.8	(15.2-16.4)
Region 5	1,690	51.9	(48.6-55.2)	6.8	(5.3-8.5)	14.8	(12.6-17.4)
Branch-Hillsdale-St. Joseph	403	42.0	(36.0-48.3)	5.9	(3.7-9.3)	11.4	(8.0-16.0)

Table 12: No Routine Checkup in Past Year Michigan BRFS, 2022-2024 Combined			
Geographic Area	Had No Routine Checkup in Past Year The proportion of adults who reported that they did not have a routine checkup in the past year.		
	N	%	95% Confidence Interval
Michigan Total	31,120	19.6	(19.0-20.3)
Region 5	1,823	23.1	(20.5-26.1)
Branch-Hillsdale-St. Joseph	435	19.5	(14.9-25.3)

Table 13: Breast Cancer Screening Among Women 40 Years and Older Michigan BRFS, 2020, 2022 and 2024 Combined			
Geographic Area	Had Mammogram in Past Two Years Among women aged 40 years and older, the proportion who reported having a mammogram in the past two years.		
	N	%	95% Confidence Interval
Michigan Total	11,628	73.4	(72.3-74.5)
Region 5	623	70.7	(66.1-74.9)
Branch-Hillsdale-St. Joseph	194	71.1	(63.0-78.0)

Table 14: Cervical Cancer Screening Among Women 21-65 Years Old Michigan BRFS, 2022 and 2024 Combined			
Geographic Area	Had Appropriately Timed Cervical Cancer Screening Test Among women aged 21-65 years old, the proportion who reported having a cervical cancer screening test within the previous three years.		
	N	%	95% Confidence Interval
Michigan Total	4,429	61.7	(59.7-63.5)
Region 5	221	60.8	(53.0-68.0)
Branch-Hillsdale-St. Joseph	54	59.3	(44.1-72.9)

Table 15: Colorectal Cancer Screening Among Adults 50 Years and Older Michigan BRFSS, 2020, 2022 & 2024 Combined			
Geographic Area	Appropriate Colorectal Cancer Screening Among adults aged 50 years and older, the proportion who had either a fecal occult blood test within the past year, a sigmoidoscopy within the past five years, or a colonoscopy within the past ten years.		
	N	%	95% Confidence Interval
Michigan Total	17,278	75.9	(75.0-76.8)
Region 5	908	76.8	(73.3-79.9)
Branch-Hillsdale-St. Joseph	287	76.0	(69.5-81.5)

Table 16: Oral Health Michigan BRFSS, 2020 and 2022 Combined						
Geographic Area	No Dental Visit in Past Year The proportion of adults who reported that they had not visited a dentist or dental clinic for any reason in the past year			6+ Teeth Missing The proportion of adults who reported that they were missing 6+ teeth due to tooth decay or gum disease. This excludes teeth lost for other reasons, such as injury or orthodontics.		
	N	%	95% Confidence Interval	N	%	95% Confidence Interval
Michigan Total	21,243	30.6	(29.7-31.5)	21,035	14.2	(13.6-14.8)
Region 5	1,046	31.5	(27.9-35.4)	1,041	15.4	(12.8-18.4)
Branch-Hillsdale-St. Joseph	288	36.3	(29.3-44.0)	286	25.2	(18.9-32.7)

Table 17: Immunizations Among Adults Aged 65 Years and Older Michigan BRFSS, 2022-2024 Combined						
Geographic Area	Had Flu Vaccine in Past Year^a			Ever Had Pneumonia Vaccine^b		
	N	%	95% Confidence Interval	N	%	95% Confidence Interval
Michigan Total	11,743	67.0	(65.9-68.2)	11,408	72.4	(71.2-73.5)
Region 5	703	73.5	(69.1-77.4)	682	73.3	(68.7-77.4)
Branch-Hillsdale-St. Joseph	191	74.8	(67.0-81.4)	187	74.8	(66.7-81.4)

Table 18: HIV Testing Among Adults Aged 18-64 Years Michigan BRFSS, 2022-2024 Combined			
Geographic Area	Ever Had an HIV Test Note: "Don't know" was considered a valid response. Among adults aged 18 - 64 years, the proportion who reported that they ever had been tested for HIV, apart from tests that were part of a blood donation.		
	N	%	95% Confidence Interval
Michigan Total	15,089	44.1	(43.1-45.1)
Region 5	914	41.9	(37.8-46.0)
Branch-Hillsdale-St. Joseph	193	34.1	(26.5-42.5)

Table 19: Asthma Michigan BRFSS, 2022-2024 Combined						
Geographic Area	Ever Told Have Asthma The proportion of adults who reported that they were ever told by a doctor, nurse, or other health care professional that they had asthma.			Still Have Asthma Among all adults, the proportion who reported that they still had asthma.		
	N	%	95% Confidence Interval	N	%	95% Confidence Interval
Michigan Total	31,314	17.3	(16.7-17.9)	31,166	11.9	(11.4-12.4)
Region 5	1,834	16.4	(14.3-18.8)	1,828	11.2	(9.4-13.2)
Branch-Hillsdale-St. Joseph	436	16.9	(13.1-21.6)	435	13.5	(10.0-18.0)

Table 20: Chronic Obstructive Pulmonary Disease (COPD) Michigan BRFSS, 2022-2024 Combined			
Geographic Area	Ever Told COPD, Emphysema or Chronic Bronchitis Among all adults, the proportion who reported ever being told by a doctor that they had chronic obstructive pulmonary disease (COPD), emphysema or chronic bronchitis.		
	N	%	95% Confidence Interval
Michigan Total	31,302	8.8	(8.4-9.2)
Region 5	1,834	9.3	(7.8-11.1)
Branch-Hillsdale-St. Joseph	439	15.4	(11.6-20.3)

Table 21: Arthritis Michigan BRFS, 2022-2024 Combined			
Geographic Area	Ever Told Arthritis Among all adults, 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.		
	N	%	95% Confidence Interval
Michigan Total	31,294	30.4	(29.8-31.1)
Region 5	1,831	31.1	(28.4-33.8)
Branch-Hillsdale-St. Joseph	437	36.6	(31.2-42.5)

Table 22: Heart Attack Michigan BRFS, 2022-2024 Combined			
Geographic Area	Ever Told Heart Attack Among all adults, the proportion who had ever been told by a doctor that they had a heart attack or myocardial infarction.		
	N	%	95% Confidence Interval
Michigan Total	31,211	4.9	(4.6-5.2)
Region 5	1,830	5.7	(4.5-7.2)
Branch-Hillsdale-St. Joseph	436	11.3	(7.9-15.7)

Table 23: Angina or Coronary Heart Disease Michigan BRFS, 2022-2024 Combined			
Geographic Area	Ever Told Angina or Coronary Heart Disease Among all adults, the proportion who had ever been told by a doctor that they had angina or coronary heart disease.		
	N	%	95% Confidence Interval
Michigan Total	31,135	4.8	(4.6-5.1)
Region 5	1,827	4.7	(3.7-5.9)
Branch-Hillsdale-St. Joseph	434	8.1	(5.5-11.7)

Table 24: Stroke Michigan BRFSS, 2022-2024 Combined			
Geographic Area	Ever Told Stroke Among all adults, the proportion who had ever been told by a doctor that they had a stroke.		
	N	%	95% Confidence Interval
Michigan Total	31,350	3.8	(3.5-4.0)
Region 5	1,837	4.0	(3.1-5.2)
Branch-Hillsdale-St. Joseph	438	4.7	(2.9-7.5)

Table 25: Cardiovascular Disease Michigan BRFSS, 2022-2024 Combined			
Geographic Area	Ever Told Any Cardiovascular Disease Among all adults, the proportion who had ever been told by a doctor that they had a heart attack, coronary heart disease or a stroke.		
	N	%	95% Confidence Interval
Michigan Total	31,063	10.0	(9.6-10.5)
Region 5	1,824	10.8	(9.2-12.7)
Branch-Hillsdale-St. Joseph	432	17.7	(13.6-22.7)

Table 26: Cancer Michigan BRFSS, 2022-2024 Combined			
Geographic Area	Ever Told Cancer Among all adults, the proportion who reported ever being told by a doctor that they had skin cancer or any other type of cancer.		
	N	%	95% Confidence Interval
Michigan Total	31,253	12.3	(11.9-12.7)
Region 5	1,829	12.3	(10.7-14.0)
Branch-Hillsdale-St. Joseph	434	15.9	(12.4-20.1)

Table 27: Diabetes Michigan BRFSS, 2022-2024 Combined			
Geographic Area	Ever Told Diabetes The proportion of adults 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 considered to not have been diagnosed with diabetes.		
	N	%	95% Confidence Interval
Michigan Total	31,374	12.6	(12.1-13.0)
Region 5	1,837	14.2	(12.2-16.5)
Branch-Hillsdale-St. Joseph	438	17.0	(12.8-22.3)

Table 28: Kidney Disease Michigan BRFSS, 2022-2024 Combined			
Geographic Area	Ever Told Kidney Disease Among all adults, the proportion who reported ever being told by a doctor that they had kidney disease.		
	N	%	95% Confidence Interval
Michigan Total	31,324	4.3	(4.0-4.6)
Region 5	1,835	4.2	(3.2-5.5)
Branch-Hillsdale-St. Joseph	439	5.4	(3.0-9.5)

Table 29: Depression Michigan BRFSS, 2022-2024 Combined			
Geographic Area	Ever Told Depression Among all adults, the proportion who reported ever being told by a doctor that they had a depressive disorder including depression, major depression, dysthymia, or minor depression.		
	N	%	95% Confidence Interval
Michigan Total	31,284	24.6	(24.0-25.3)
Region 5	1,832	27.5	(24.8-30.5)
Branch-Hillsdale-St. Joseph	438	23.2	(18.6-28.5)

