

Michigan Behavioral Risk Factor Surveillance System (MiBRFSS)



2022 MICHIGAN BRFSS
DATA USERS MEETING

JUNE 29TH, 2022



Outline



- Introduction
 - Michigan Behavioral Risk Factor Surveillance System (MiBRFSS)
 - Michigan Behavioral Risk Factor Survey (MiBRFS)
- 2020 MiBRFS Annual Report Highlights
- 2021 and 2022 MiBRFS Updates
 - Current Progress
- 2023 MiBRFS Plans
 - CDC Core Questionnaire
 - CDC Optional Module
 - Michigan State-added Topics

Michigan BRFSS (MiBRFSS)



- The MiBRFSS comprises annual, statewide telephone surveys of Michigan adults aged 18 years and older and is part of the national BRFSS coordinated by the CDC.
- Only source of state-specific, population-based health estimates among Michigan adults
 - Health behaviors, medical conditions, and preventive healthcare practices
- Since 1989, MiBRFSS conducted on an annual basis
 - Both landline and cell phone starting in 2011
 - Due to methodology changes that took place in 2011, BRFSS estimates from 2011 and moving forward cannot be compared to BRFSS estimates from 2010 and earlier.
- Respondent source for the Michigan Asthma Call Back Survey (since 2005)
 - Follow-up survey for respondents that reported ever being diagnosed with asthma.

MiBRFS Questionnaire



- **CDC Core questions**
 - The **fixed core** contains standard questions that are asked by every state each year. There is also a **rotating core**, which consists of questions that are collected every other year by every state. In off years, the rotating core questions are offered as optional modules.
- **CDC optional modules**
 - Each year, the CDC offers a selection of standardized optional modules that states can elect to add to their questionnaire. Data processing for optional modules is completed by the CDC. The CDC requires that, if the modules are used, they must be used in their entirety without any modification. If optional modules are altered, they are considered state-added questions.
- **State-Added Questions**
 - These are questions of special interest to the state that are not offered as optional modules. The CDC does not complete any of the data processing necessary for analysis of state added questions. Additionally, state-added questions are not necessarily comparable to other states. However, state-added questions allow states the flexibility to address their unique health issues.
- www.Michigan.gov/BRFS (2010-2022)

2022 Michigan Behavioral Risk Factor Survey

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Summary of BRFSS CORE Questions



Periodicity of Data Collection	Content/Core Section
Annual	<ul style="list-style-type: none"> • General Health • Healthy Days • Healthcare Access • Chronic Disease • Tobacco Use • Alcohol Consumption • Exercise • Immunization • HIV/AIDS
Even-Year Rotating Core	<ul style="list-style-type: none"> • HIV/AIDS • Oral Health • Breast/Cervical Cancer • Prostate Cancer Screening • Colorectal Cancer Screening

Periodicity of Data Collection	Content/Core Section
Odd-Year Rotating Core	<ul style="list-style-type: none"> • Hypertension Awareness • Cholesterol Awareness
Three-Year Core	<ul style="list-style-type: none"> • Seat Belt Use/Drinking and Driving • Immunization (include Shingles) • Sleep • Falls
Four-Year Core	<ul style="list-style-type: none"> • Fruits and Vegetables • Exercise (Physical Activity)

MiBRFS Data Collection



- MiBRFSS data collection conducted through a contract with
 - Office for Survey Research at Michigan State University (1996-2020)
 - ICF Marco Inc. (2021-)
- MiBRFSS funding for data collection
 - Cooperative agreement with the Centers for Disease Control and Prevention (CDC)
 - ✦ ~50% of data collection costs
 - ✦ To support CDC core questions
 - Other state programs and health organizations
 - ✦ ~50% of data collection costs
 - ✦ To support state-added questions and CDC optional modules

MiBRFS Annual Analysis



- Data are weighted by CDC to adjust for the probabilities of selection and a raking weighting factor is used to adjust for the distribution of the Michigan adult population based on eight demographic variables.
 - Telephone source (landline or cell phone), race/ethnicity, education level, marital status, age by gender, gender by race/ethnicity, age by race/ethnicity, and renter/owner status.
- All analyses are performed using SAS-callable SUDAAN® to account for the complex sampling design.
 - If the 95% CIs for two estimates from different subpopulations or survey years did not overlap, they were considered to be statistically different.
 - Unless otherwise specified, respondents who answered that they did not know or refused to answer were not included in the calculation of estimates.
- Data suppression rules
 - A denominator of less than 50 respondents
 - Relative standard error (RSE) of greater than 30%: $RSE = (\text{Standard Error} / \text{Point Estimate}) * 100$
- Results are available on MiBRFSS website (www.Michigan.gov/BRFS) and sent out via GovDelivery or email distribution list.
- Data requests
 - Estimates not included in the standard tables, please email coordinator with details of request
 - Raw data requests: MiBRFSS data use agreement process

Michigan BRFSS website

www.Michigan.gov/BRFS

HEALTH RISK BEHAVIORS WITHIN THE STATE OF MICHIGAN



2020 BEHAVIORAL RISK FACTOR SURVEY 34TH ANNUAL REPORT



Michigan.gov | Health & Human Services

Assistance
Programs

Adult & Children's
Services

Safety & Injury
Prevention

Keeping Michigan
Healthy

Doing Business with
MDHHS

Inside
MDHHS

Michigan Behavioral Risk Factor Surveillance System

MDHHS
>

Keeping Michigan Healthy
>

Communicable & Chronic Diseases
>

Epidemiology Services
>

Chronic Disease Epidemiology
>

Behavioral Risk Factor
Survey

Background

The Michigan Behavioral Risk Factor Surveillance System (MIBRFSS) is composed of annual, state-level telephone surveys of Michigan residents, aged 18 years and older. These annual, state-level surveys, also known as Michigan Behavioral Risk Factor Surveys (MIBRFS) act as the only source of state-specific, population-based estimates of the prevalence of various behaviors, medical conditions, and preventive health care practices among Michigan adults. MIBRFS results are used by public health agencies, academic institutions, non-profit organizations and others to develop and evaluate programs that promote the health of Michigan citizens.

The national [Behavioral Risk Factor Surveillance System](#) (BRFSS) consists of annual surveys (i.e., BRFSS) conducted independently by the states, District of Columbia, and U.S. territories, and is coordinated through cooperative agreements with the Centers for Disease Control and Prevention (CDC). The annual Michigan surveys follow the CDC telephone survey protocol for the BRFSS and the annual standardized core questionnaire is used. In addition, the Michigan BRFSS includes about 25 state-added questions each year.

Michigan Behavioral Risk Factor Surveillance System (MIBRFSS) Dashboard, 2022



Publications

Within the sections below, you will find annual Michigan BRFSS questionnaires, as well as annual and multi-year Michigan BRFSS surveillance data focusing on health risk behaviors, health indicators, and chronic diseases both at the state and local level. These sections also include a variety of reports focusing on special analyses that have been conducted using Michigan BRFSS data.

- **Michigan BRFSS Annual Questionnaires**
The BRFSS annual questionnaires consist on CDC core questions, optional modules, and state-added questions.
- **Michigan BRFSS Annual Reports**
The BRFSS annual reports highlight key health risk behaviors, health indicators, and diseases in Michigan.
- **Michigan BRFSS Standard Tables**
The MIBRFSS standard tables present prevalence estimates on health risk behaviors, health indicators, and diseases from the Michigan BRFSS by age group, gender, race, education level, and household income level.
- **Michigan BRFSS Race/Ethnicity Tables**
The MIBRFSS race/ethnicity tables provide prevalence estimates on key health risk behaviors, health indicators, and diseases for Michigan's major racial/ethnic populations.
- **Michigan BRFSS Regional and Local Health Department Tables**
Region-specific and local health department-specific prevalence estimates for health-risk behaviors, preventive health practices, and chronic conditions are computed using a three to five-year combined MIBRFSS dataset that maximizes the available sample size.
- **Michigan BRFSS Surveillance Briefs**
The MIBRFSS Surveillance Brief is a quarterly newsletter highlighting new topical data from the MI BRFSS. The miscellaneous BRFSS reports include other reports and presentations that have been created using BRFSS data.
- **Michigan BRFSS Highlights**
The following presentations provide short summaries of the key findings from the most recent Michigan Behavioral Risk Factor Surveys.
 - 2021 Michigan BRFSS Data Users Meeting Presentation Slides (PPT)
 - 2021 Michigan BRFSS Data Users Meeting (video)
 - 2018 Michigan BRFSS Data Users Meeting (PPT)
 - The Behavioral Risk Factor Surveillance System: Past, Present, and Future (PDF)

2020 MiBRFS Annual Tables

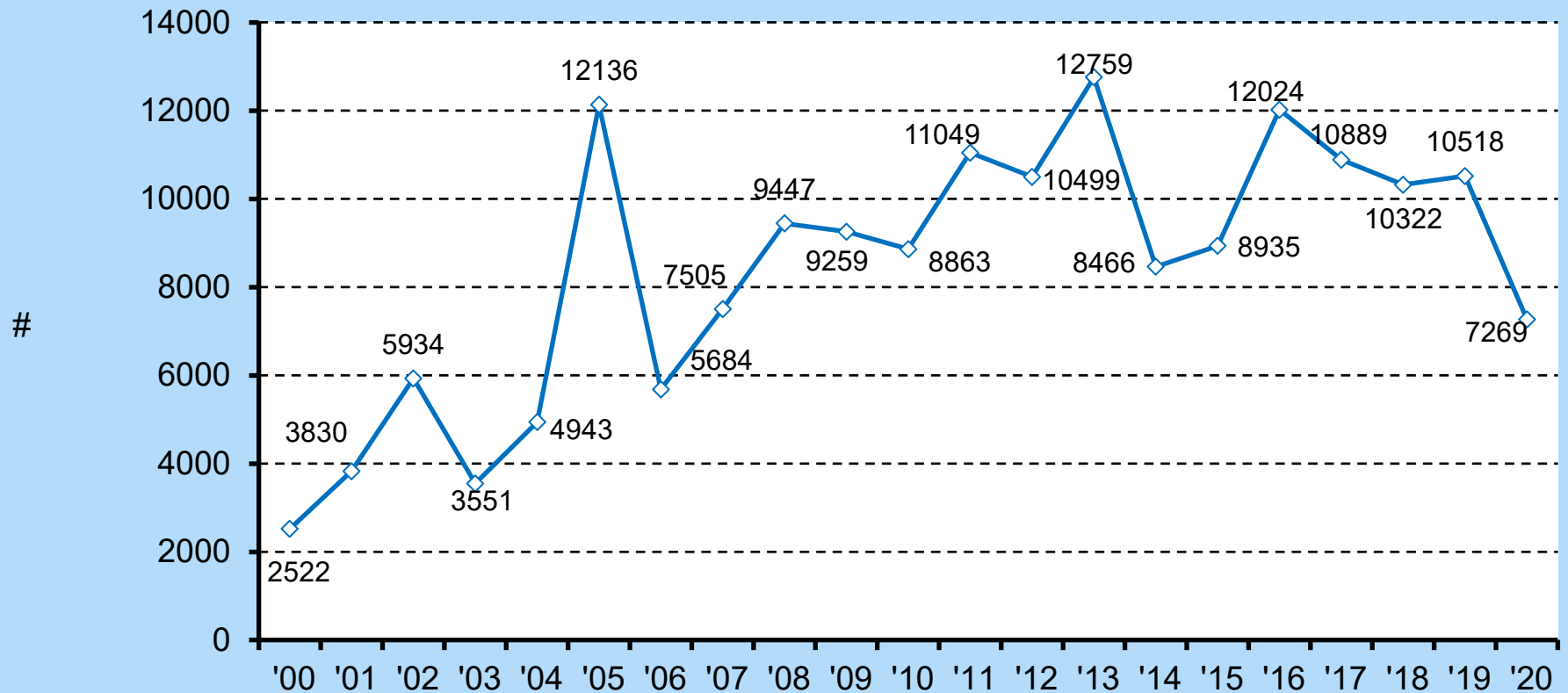


- Annual tables are located on the MiBRFSS website
 - www.michigan.gov/brfs
 - 2020 MiBRFS Standard Tables
 - 2020 MiBRFS Age and Gender Tables
 - 2020 MiBRFS Race/Ethnicity Tables
 - 2018-2020 Expanded Race/Ethnicity Tables
 - 2018-2020 Regional and Local Health Department Tables
 - 2018-2020 Prosperity Region Tables
 - 2018-2020 Emergency Preparedness Region Tables
- 2020 state-added question results can be requested via email to the coordinator.

2020 MiBRFS Results



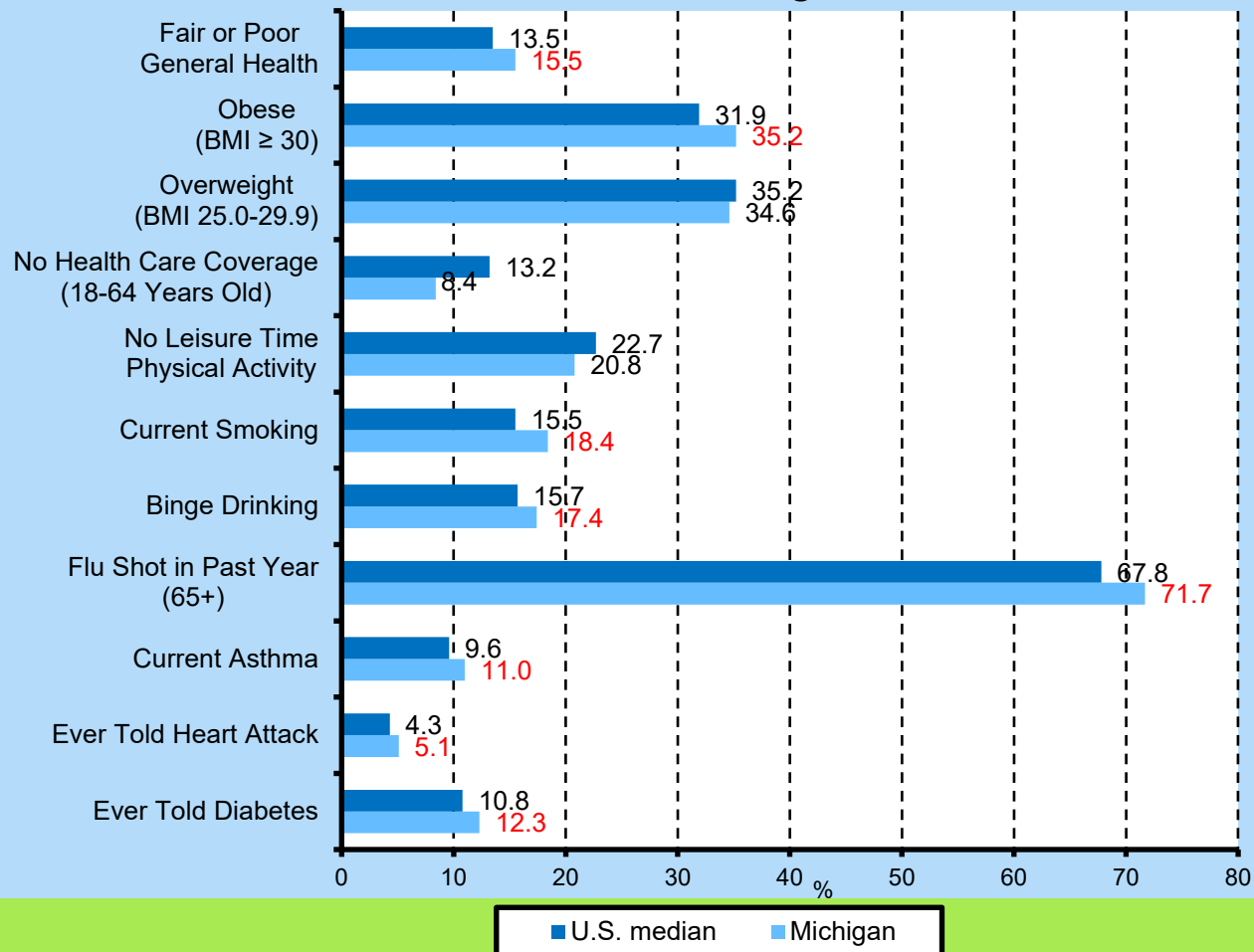
Number of Interviews by Survey Year
Michigan BRFS 2000-2020



2020 MiBRFS Results



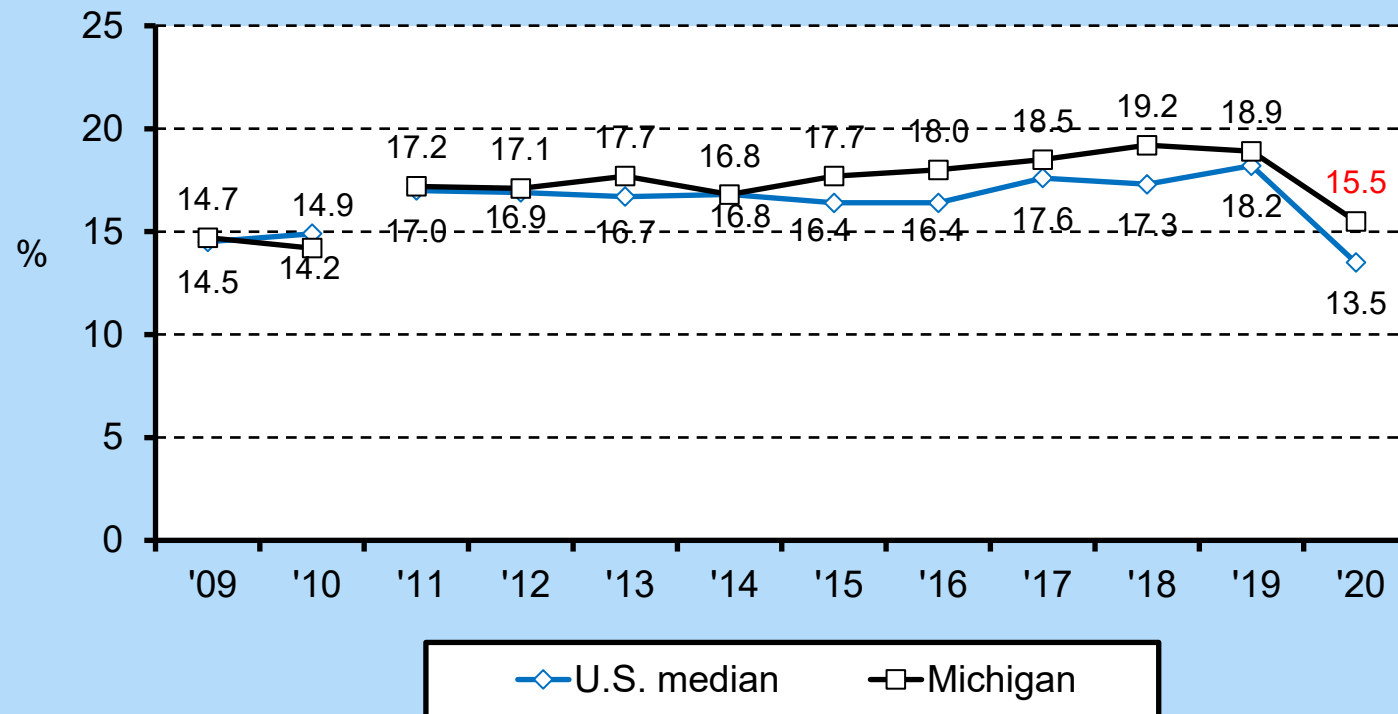
Selected Risk Factors - 2020 BRFSS: U.S. vs. Michigan



2020 MiBRFS Results



General Health, Fair or Poor U.S. vs. Michigan, 2009-2020

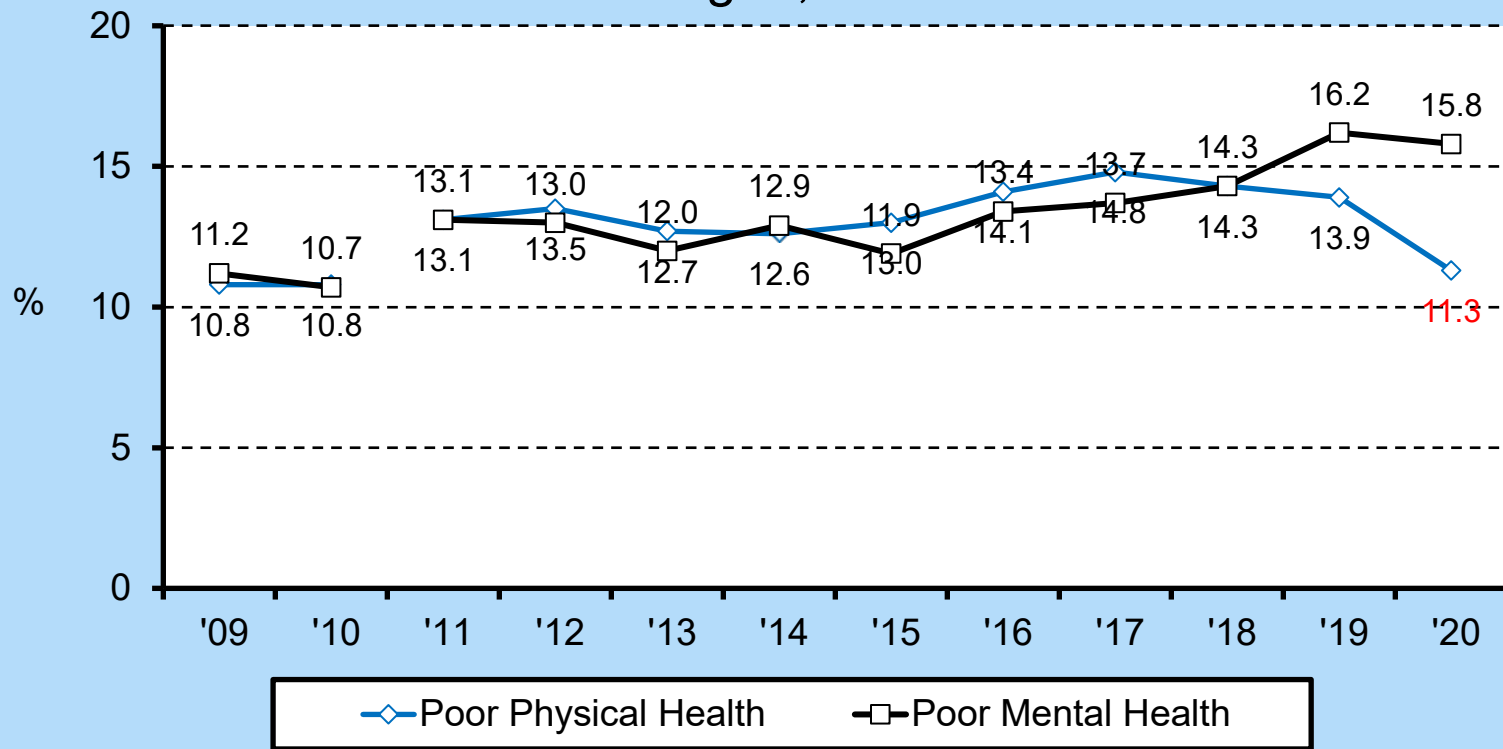


Due to methodology changes that took place in 2011, BRFSS estimates from 2011 and moving forward cannot be compared to BRFSS estimates from 2010 and earlier.

2020 MiBRFS Results



Poor Physical and Mental Health Michigan, 2009-2020

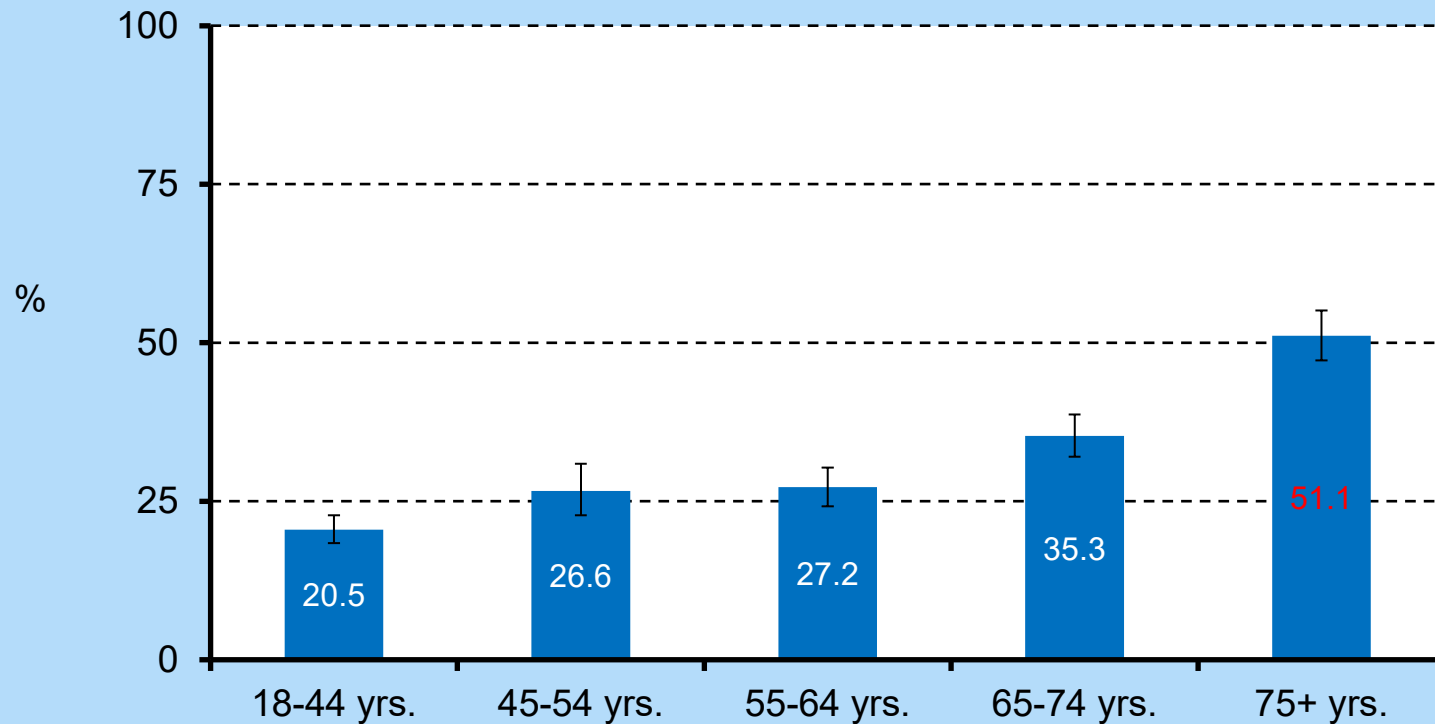


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2020 MiBRFS Results



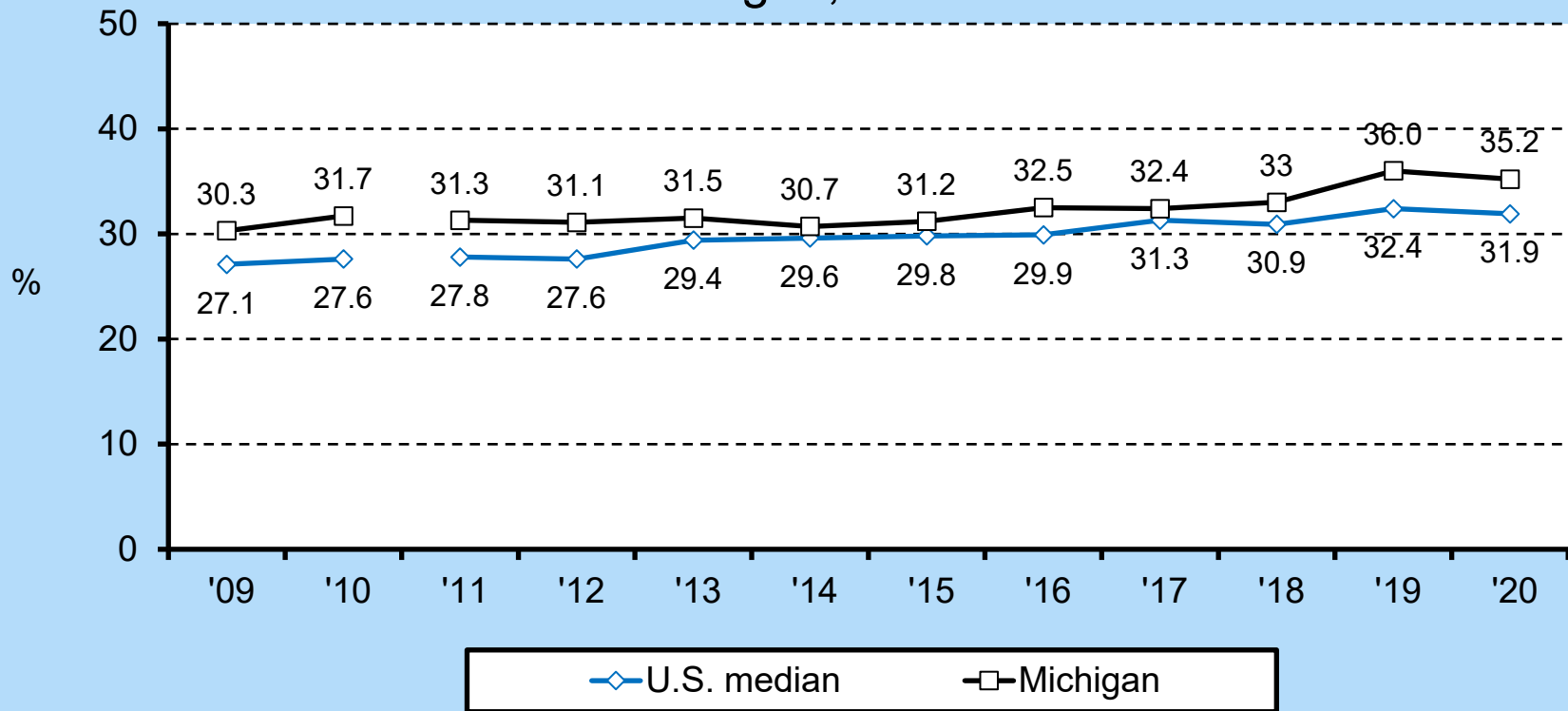
Disability by Age Group Michigan, 2020



2020 MiBRFS Results



Obesity U.S. vs. Michigan, 2009-2020

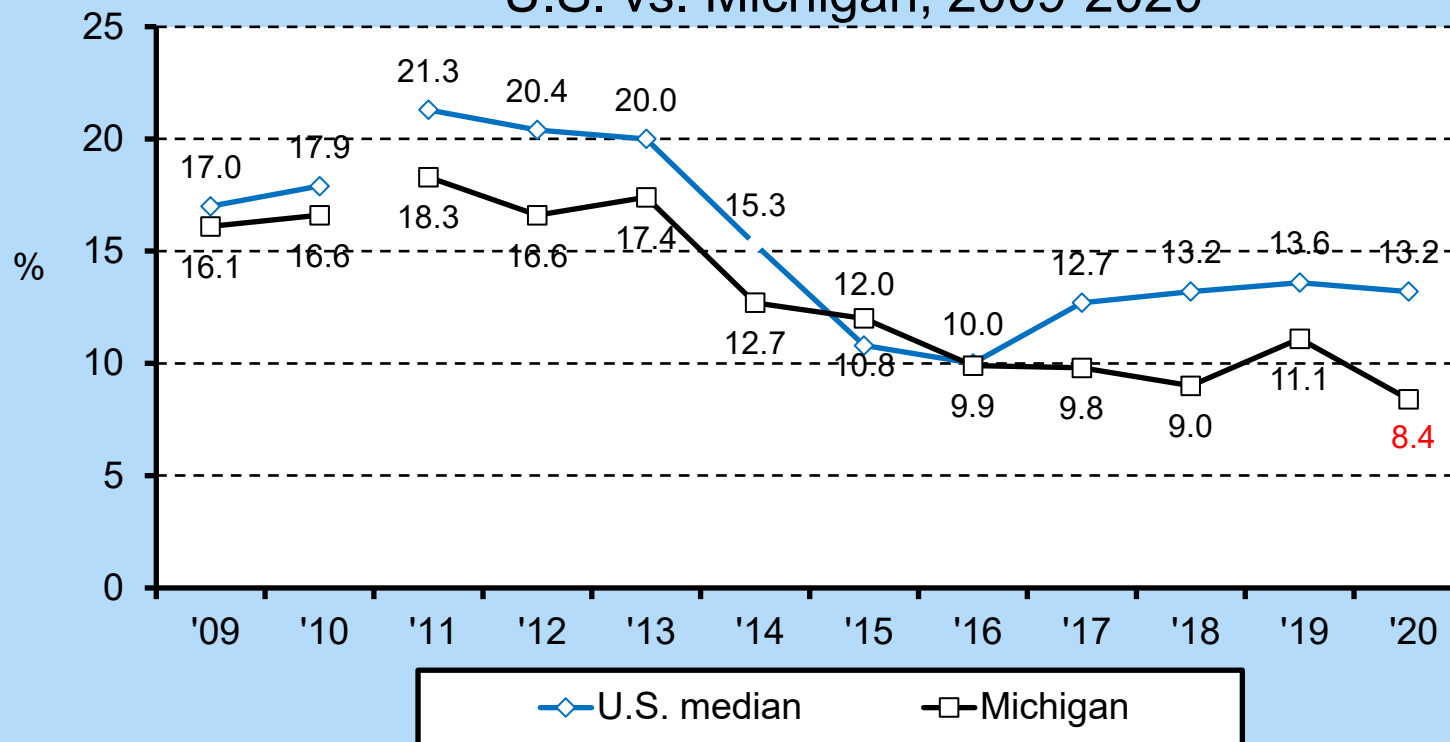


Due to methodology changes that took place in 2011, BRFSS estimates from 2011 and moving forward cannot be compared to BRFSS estimates from 2010 and earlier.

2020 MiBRFS Results



No Health Care Coverage Among Adults Aged 18 to 64 Years U.S. vs. Michigan, 2009-2020

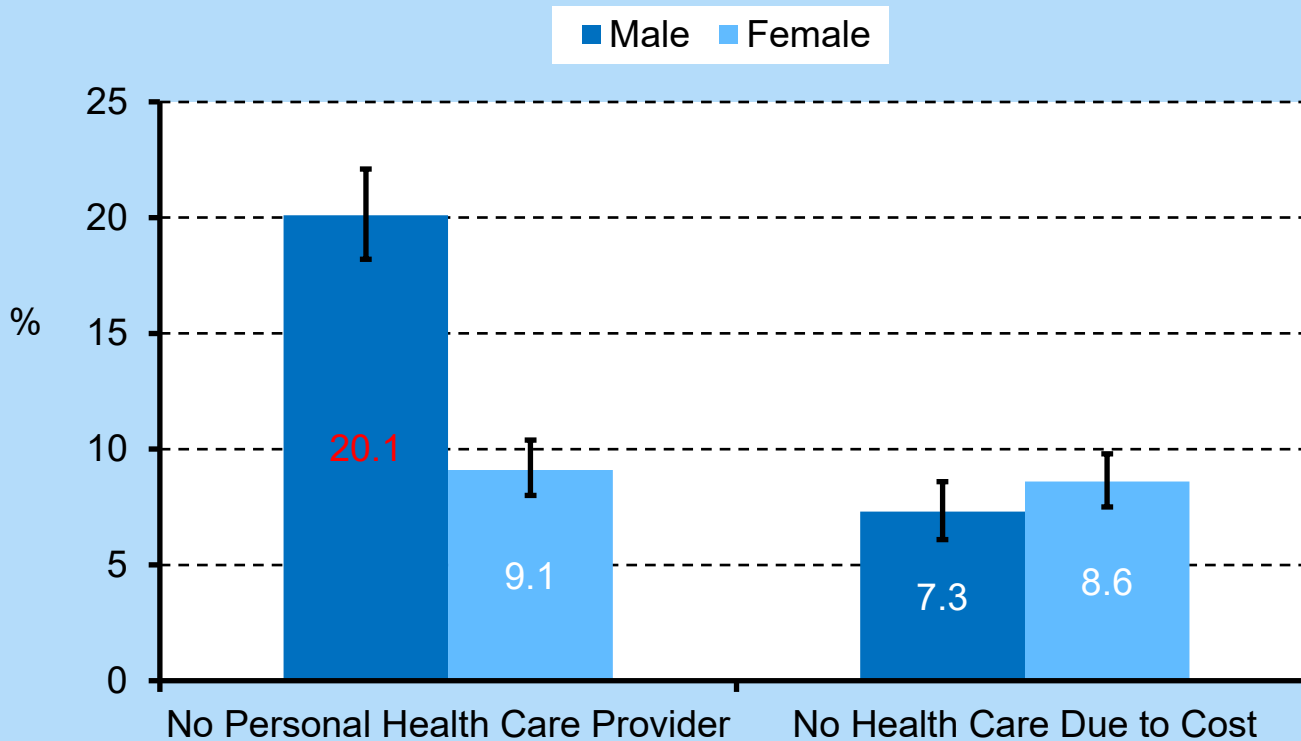


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2020 MiBRFS Results



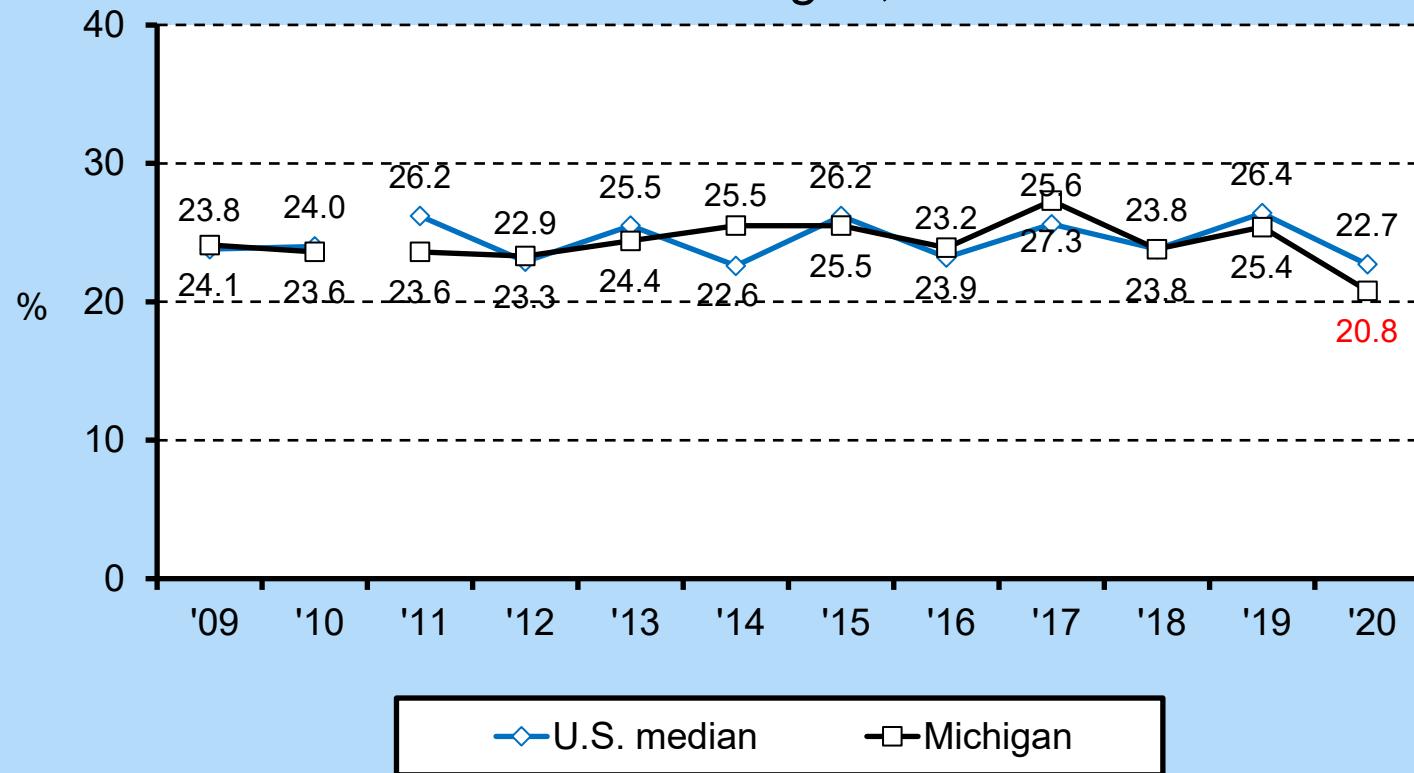
Health Care Access Indicators by Gender Michigan, 2020



2020 MiBRFS Results



No Leisure Time Physical Activity U.S. vs. Michigan, 2009-2020

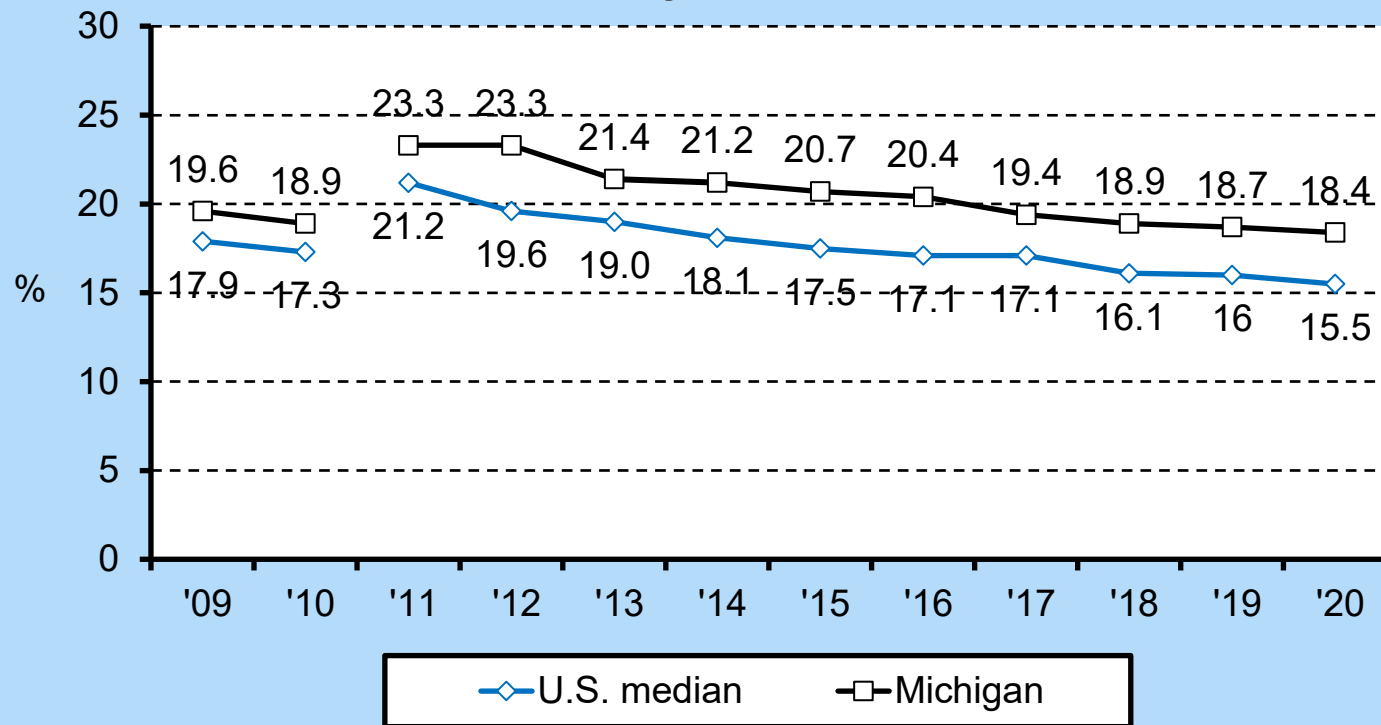


Due to methodology changes that took place in 2011, BRFSS estimates from 2011 and moving forward cannot be compared to BRFSS estimates from 2010 and earlier.

2020 MiBRFS Results



Current Cigarette Smoking U.S. vs. Michigan, 2009-2020

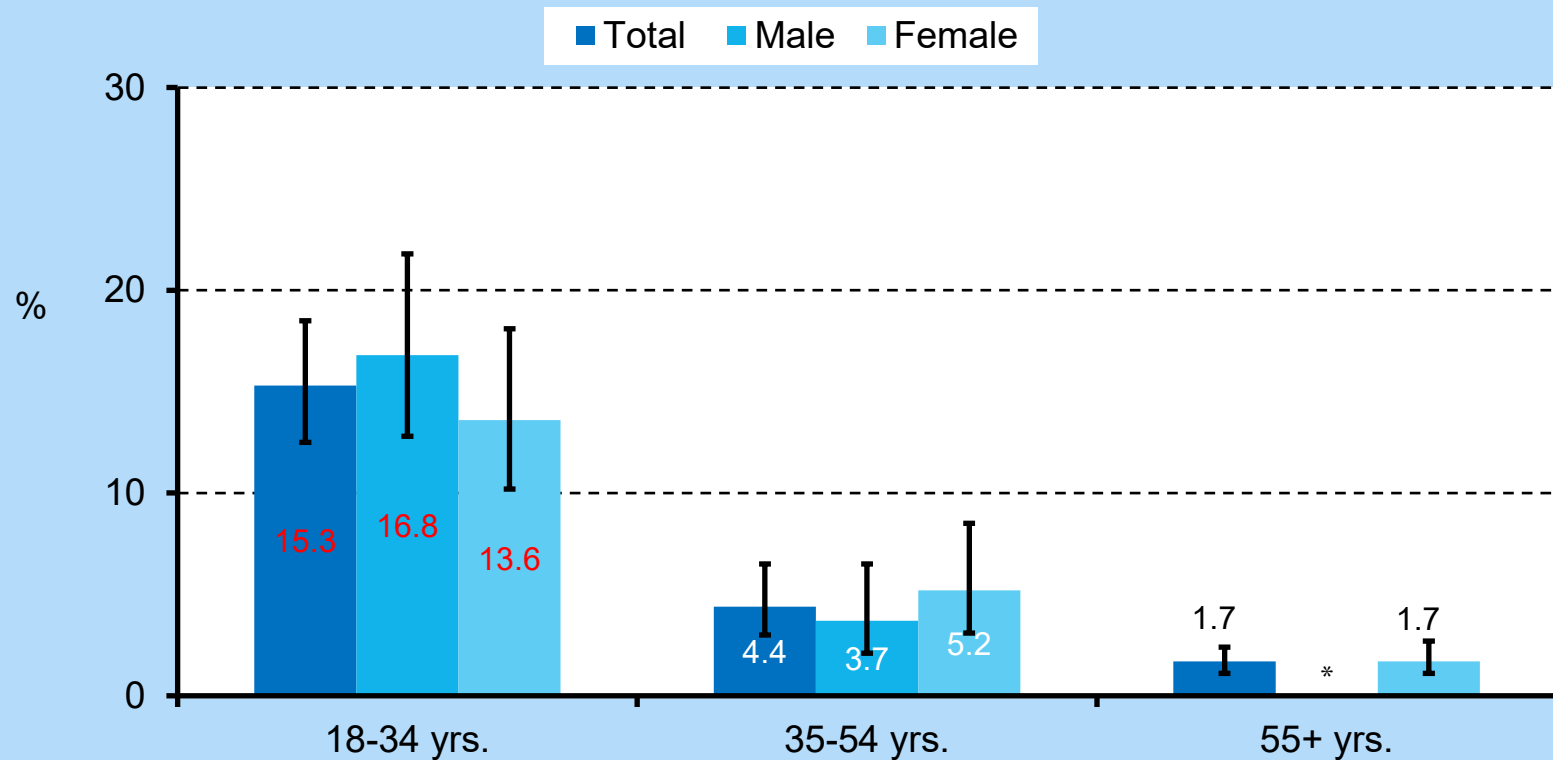


Due to methodology changes that took place in 2011, BRFSS estimates from 2011 and moving forward cannot be compared to BRFSS estimates from 2010 and earlier.

2020 MiBRFs Results



Current E-Cigarette Use by Age and Gender Michigan, 2020

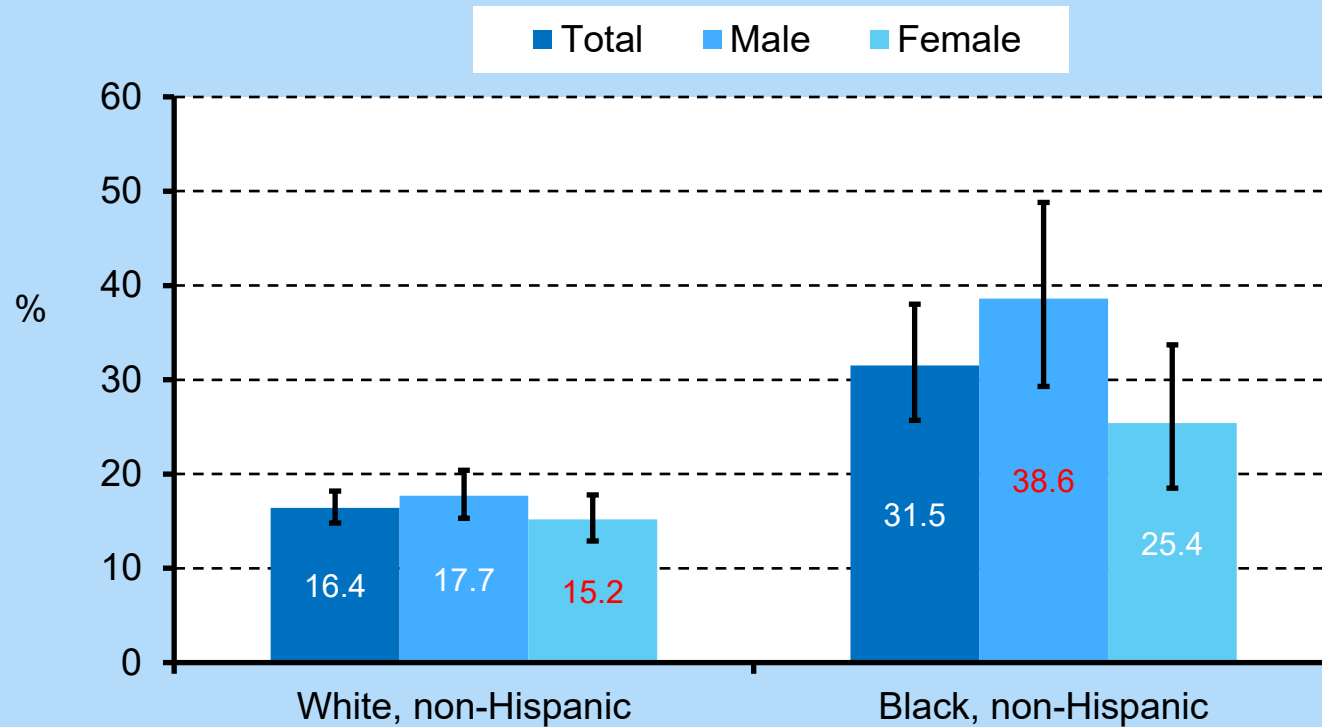


*Suppressed due to a denominator of < 50 and/or a relative standard error > 30%.

2020 MiBRFS Results



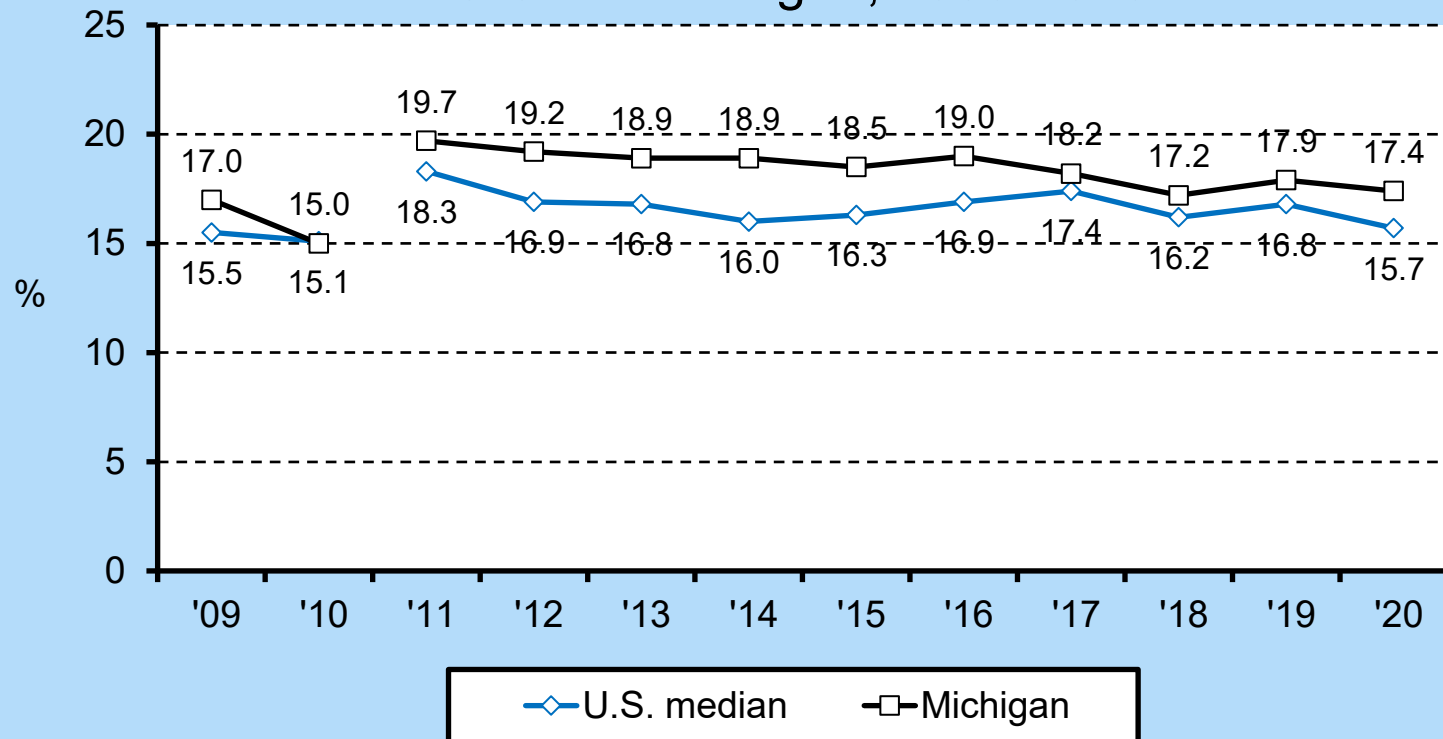
Secondhand Smoke Exposure by Race and Gender, Michigan, 2020



2020 MiBRFS Results



Binge Drinking U.S. vs. Michigan, 2009-2020

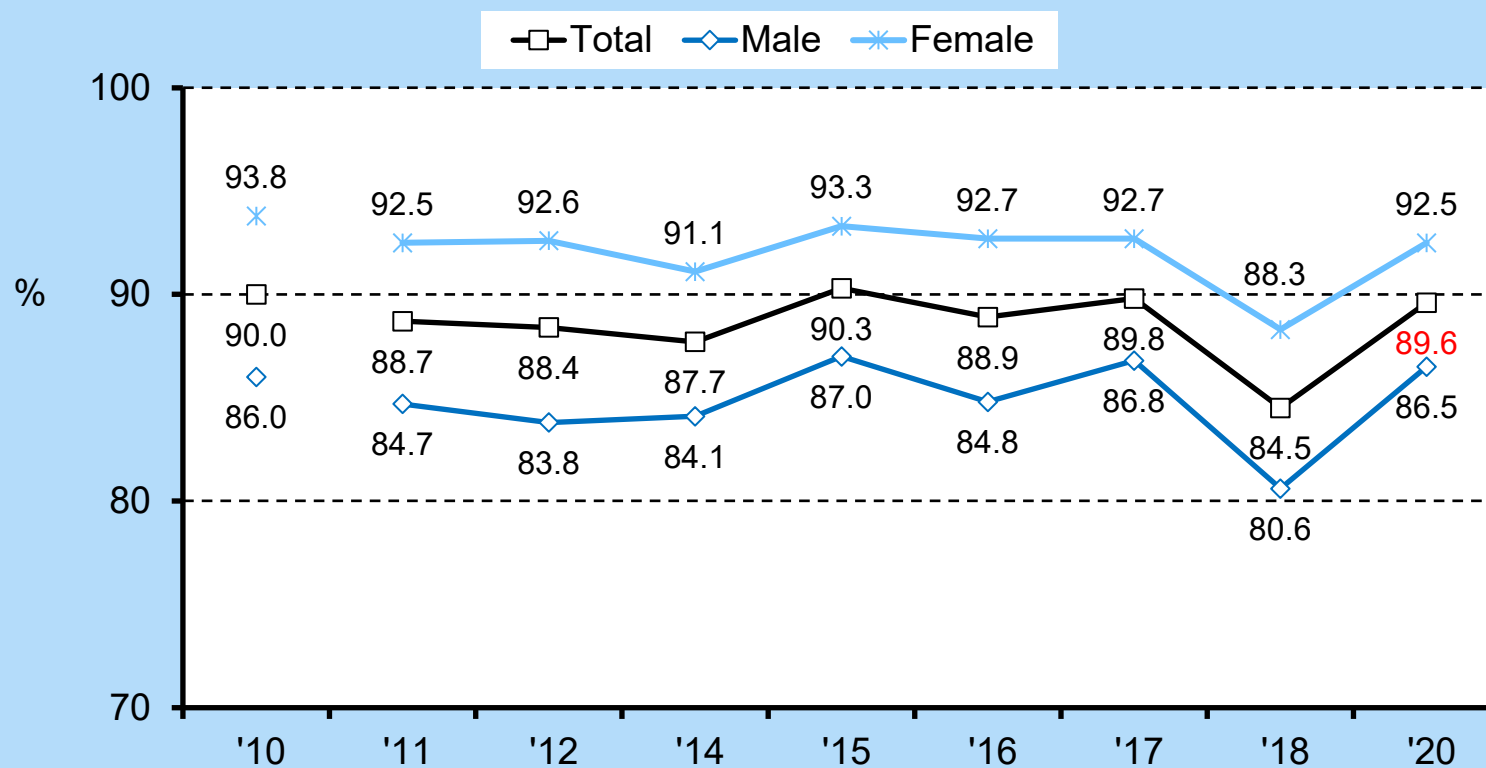


Due to methodology changes that took place in 2011, BRFSS estimates from 2011 and moving forward cannot be compared to BRFSS estimates from 2010 and earlier.

2020 MiBRFS Results



Always Uses A Seat Belt by Gender Michigan, 2010-2020

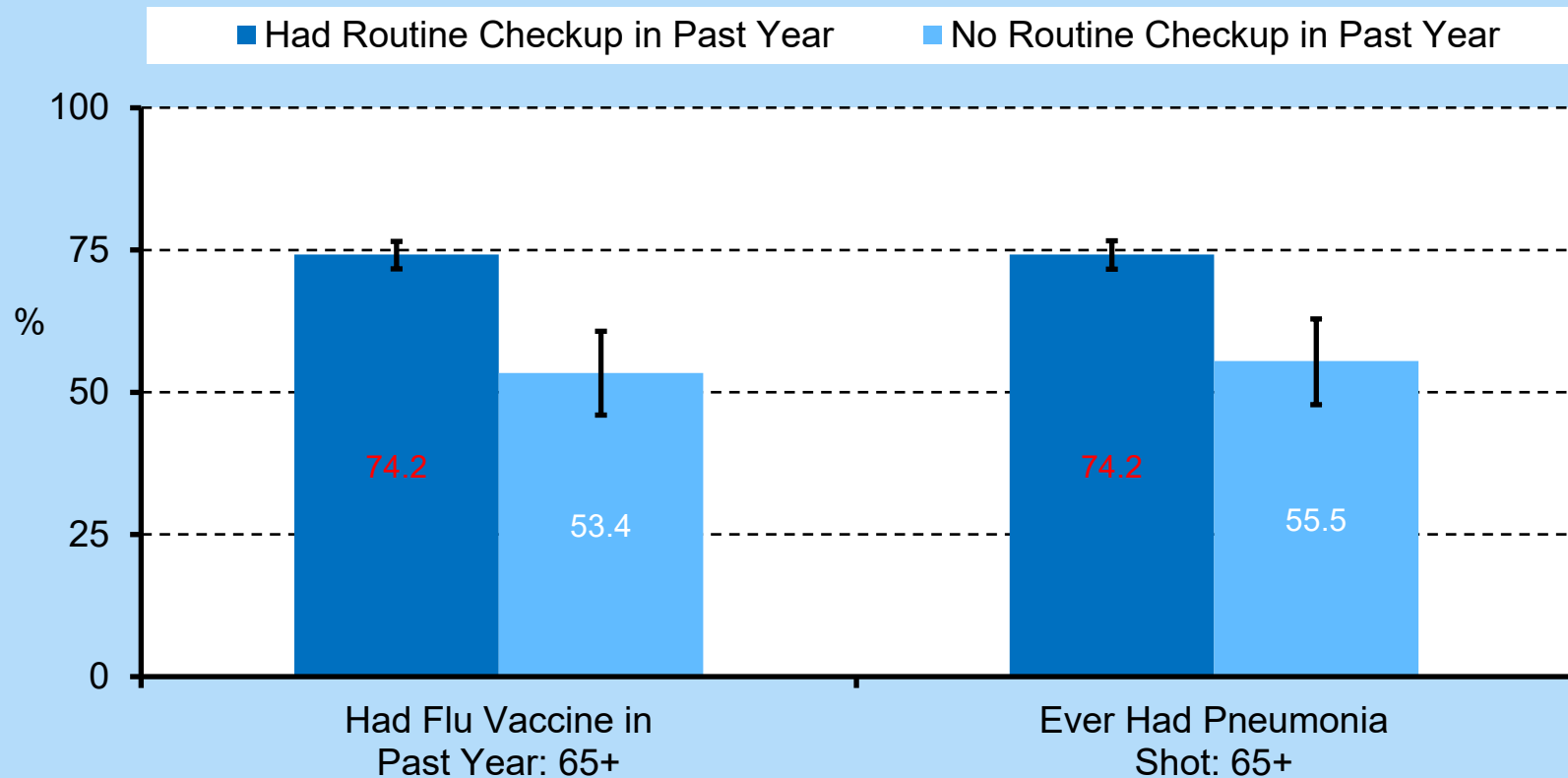


Due to methodology changes that took place in 2011, BRFSS estimates from 2011 and moving forward cannot be compared to BRFSS estimates from 2010 and earlier.

2020 MiBRFS Results



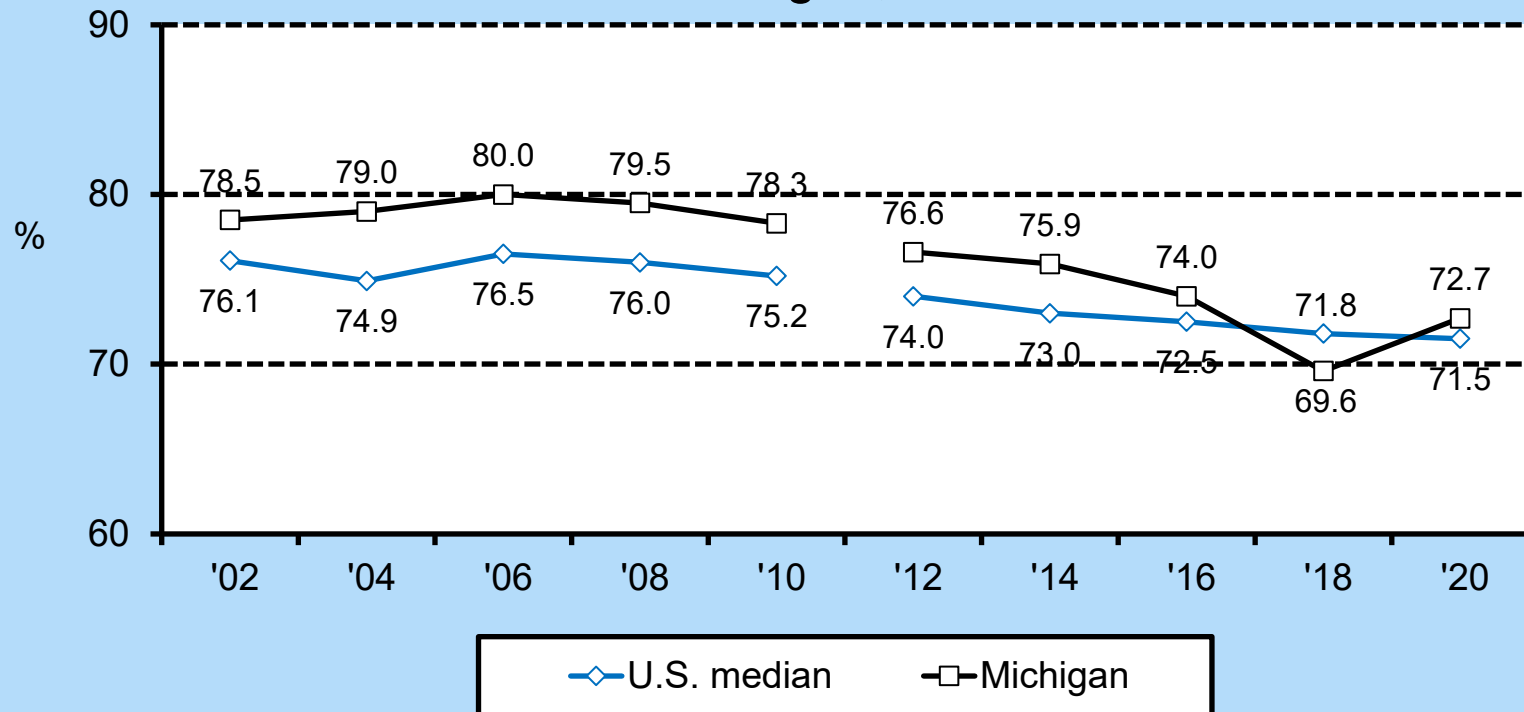
Health Screenings and Immunizations by Routine Checkup Status, Michigan, 2020



2020 MiBRFS Results



Had a Mammogram in the Past Two Years Among Women Aged 40 Years and Older U.S. vs. Michigan, 2002-2020

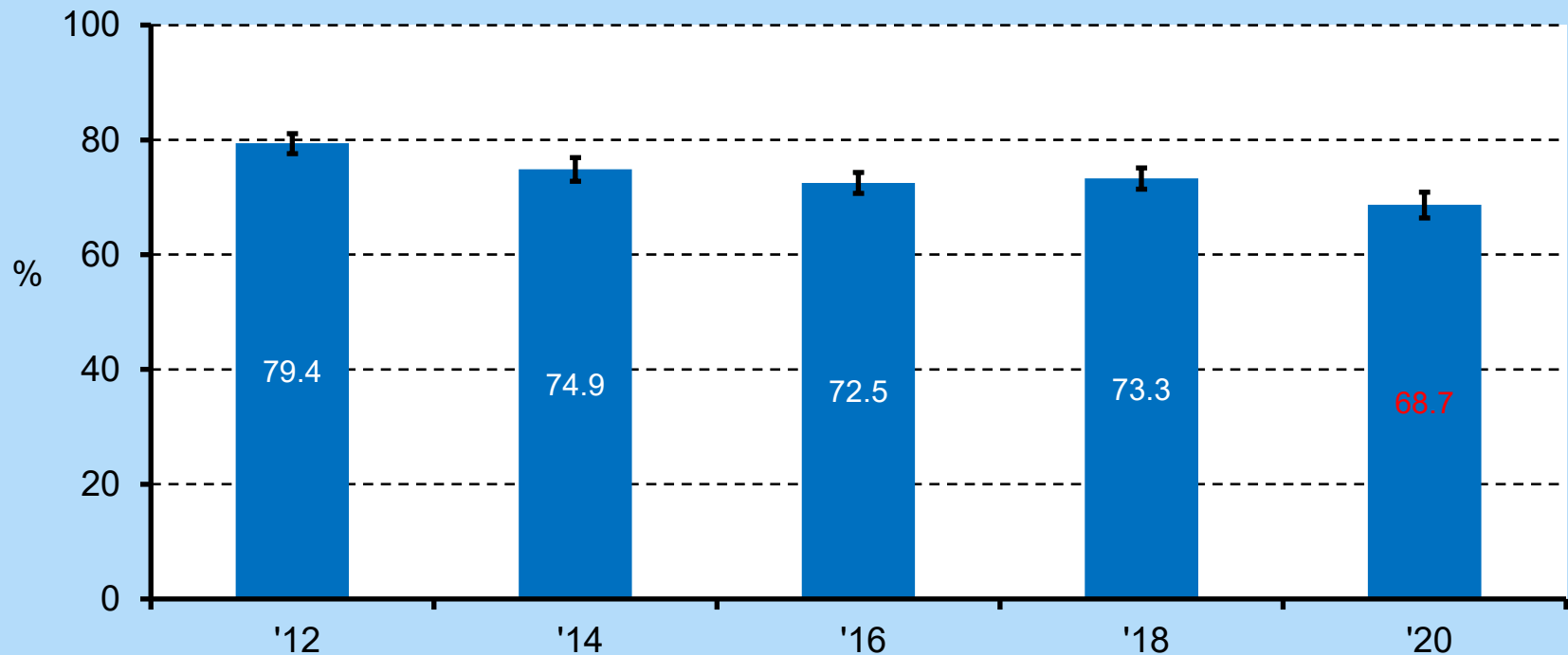


Due to methodology changes that took place in 2011, BRFSS estimates from 2011 and moving forward cannot be compared to BRFSS estimates from 2010 and earlier.

2020 MiBRFS Results



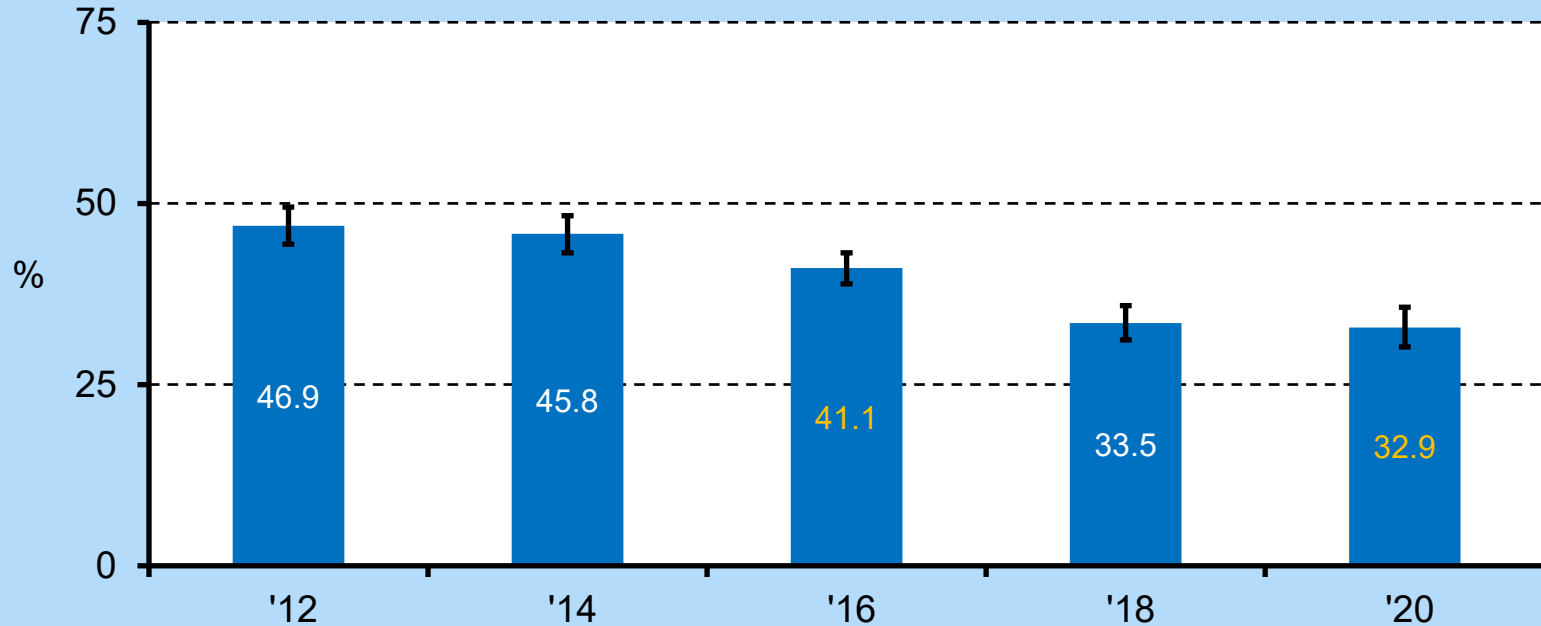
Had a Pap Test in the Past Three Years
Among Women Aged 18 Years and Older
Michigan, 2012-2020



2020 MiBRFS Results



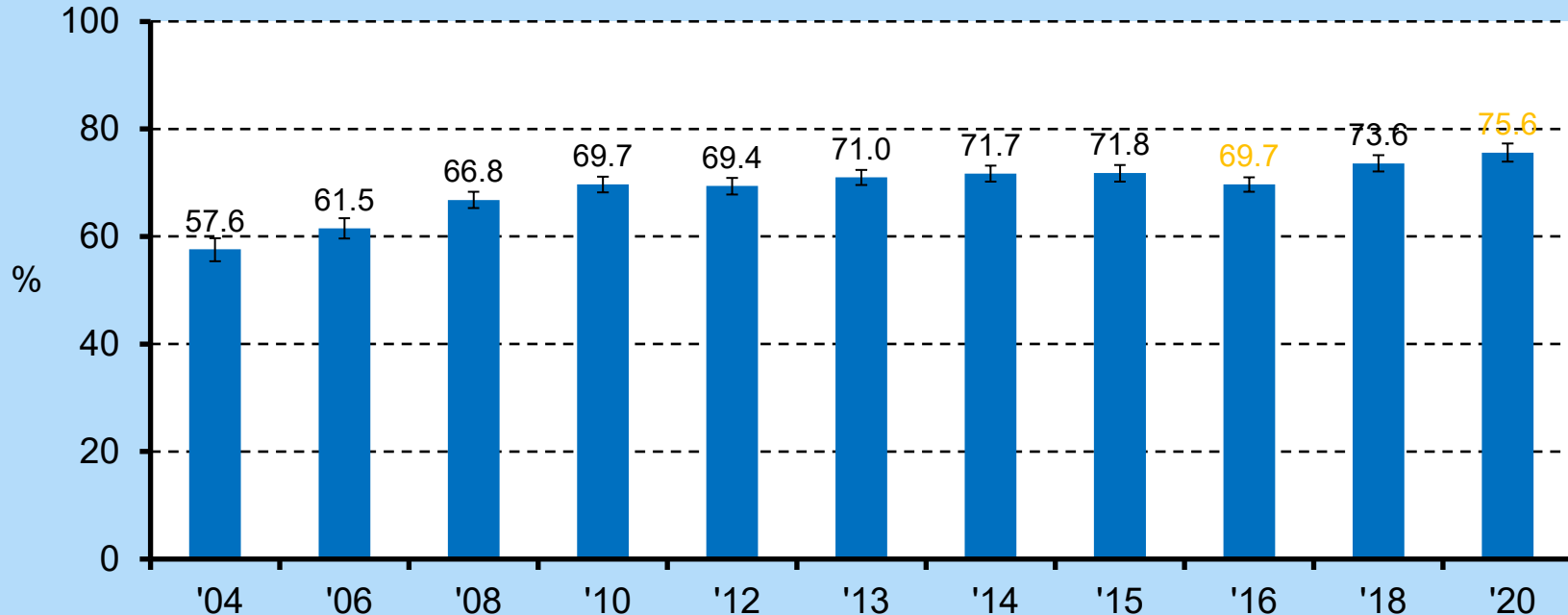
Had a PSA Test in the Past Year
Among Men Aged 50 Years and Older
Michigan, 2012-2020



2020 MiBRFS Results



Appropriate Colorectal Cancer Screening Among Adults Aged 50 Years and Older Michigan, 2004-2020

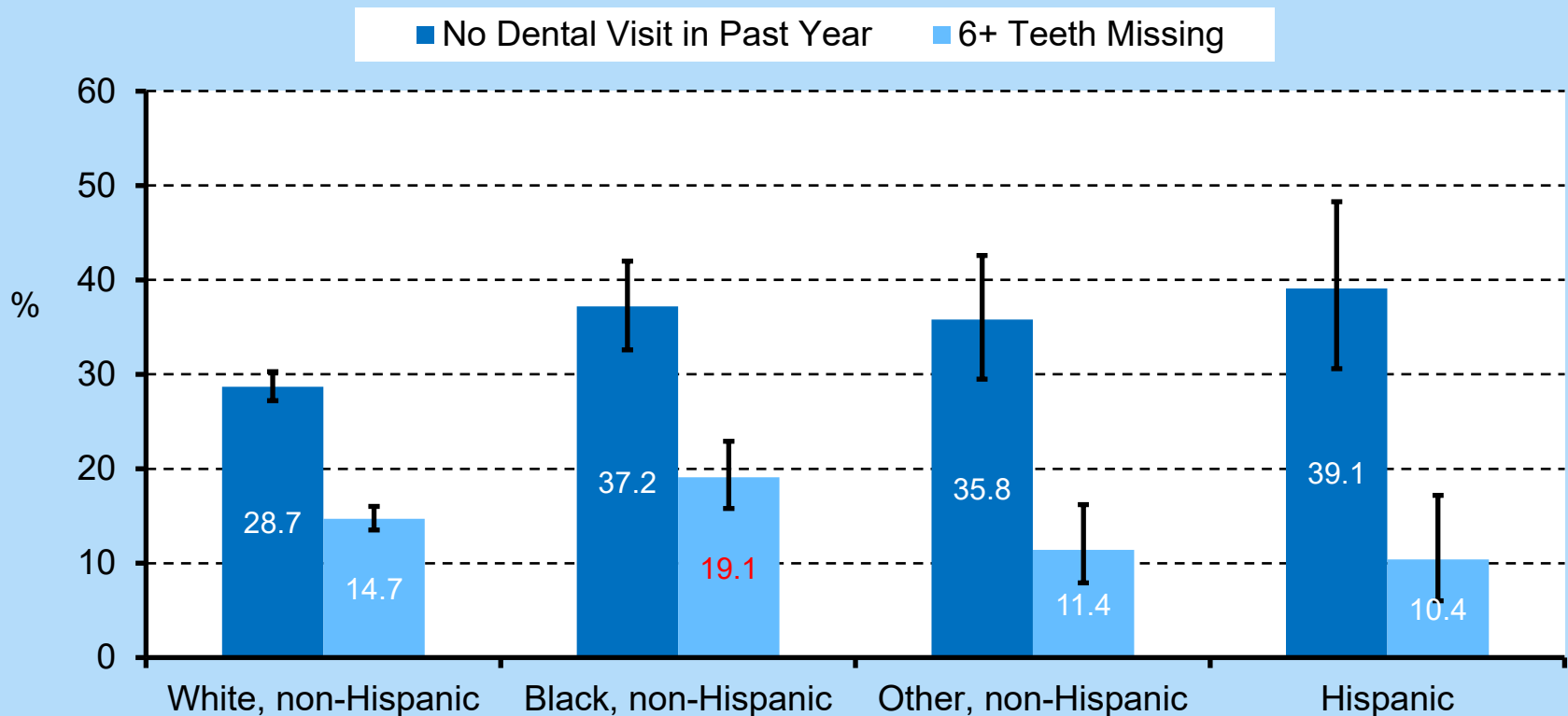


Due to methodology changes that took place in 2011, BRFSS estimates from 2011 and moving forward cannot be compared to BRFSS estimates from 2010 and earlier.

2020 MiBRFS Results



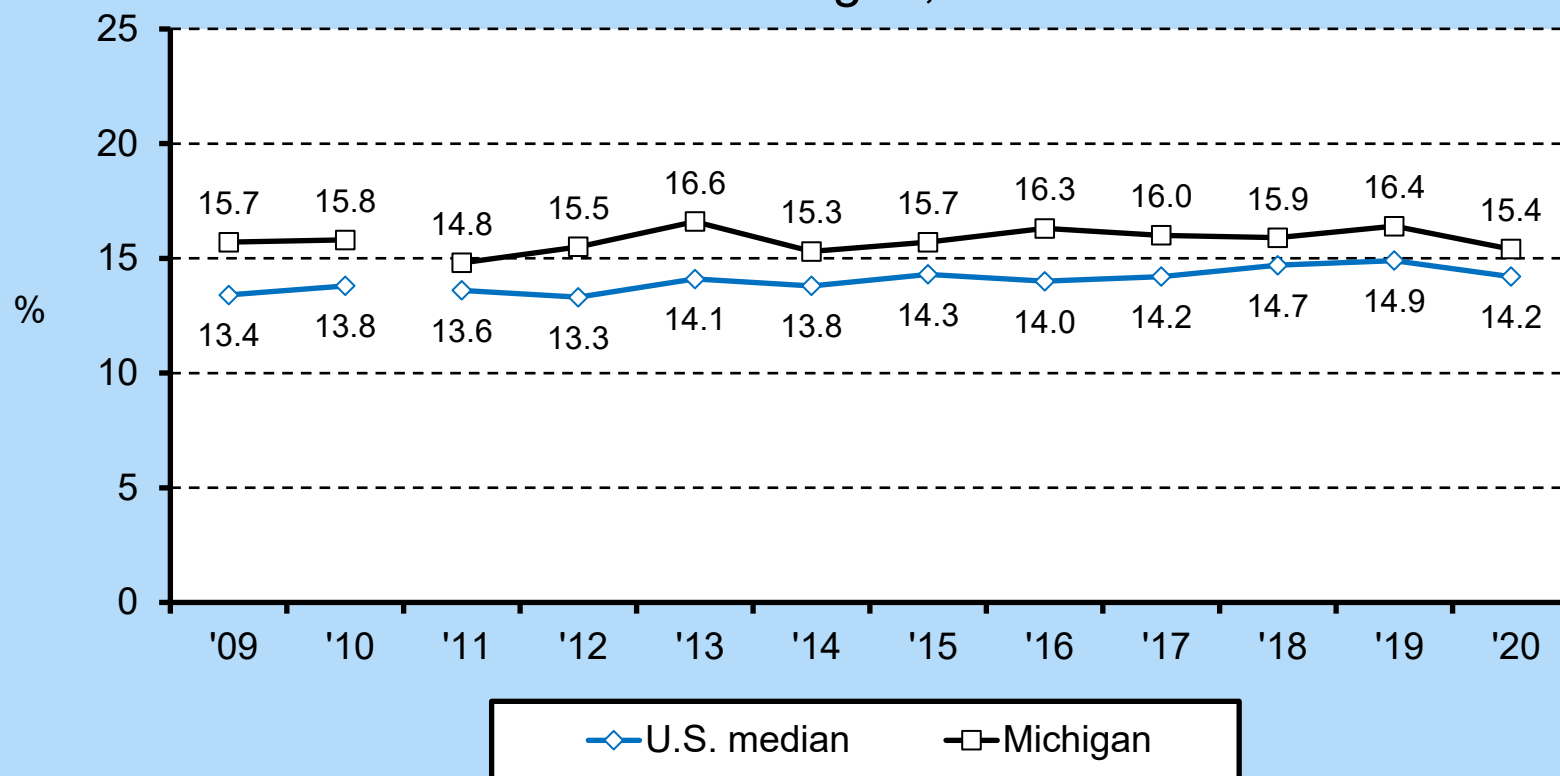
Oral Health Risk Factors by Race/Ethnicity Michigan, 2020



2020 MiBRFS Results



Lifetime Adult Asthma U.S. vs. Michigan, 2009-2020

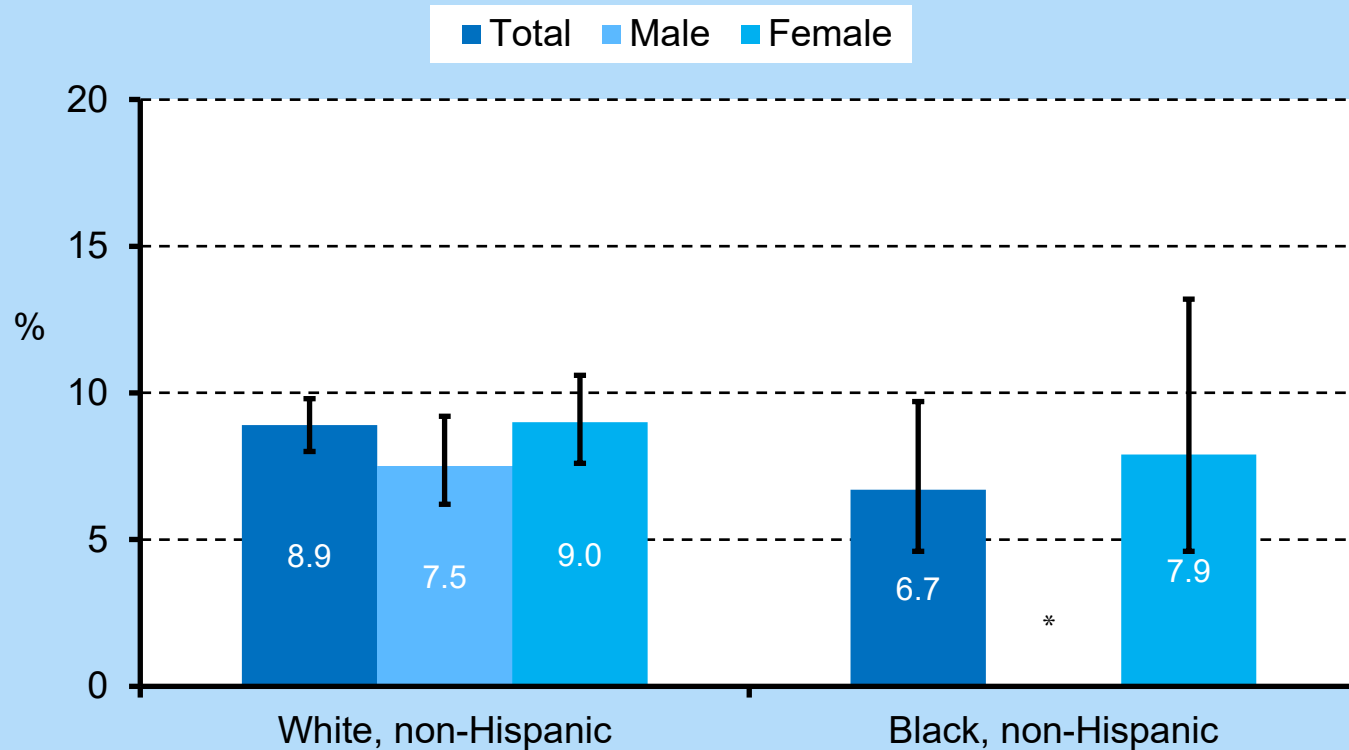


Due to methodology changes that took place in 2011, BRFSS estimates from 2011 and moving forward cannot be compared to BRFSS estimates from 2010 and earlier.

2020 MiBRFS Results



COPD by Race and Gender Michigan, 2020



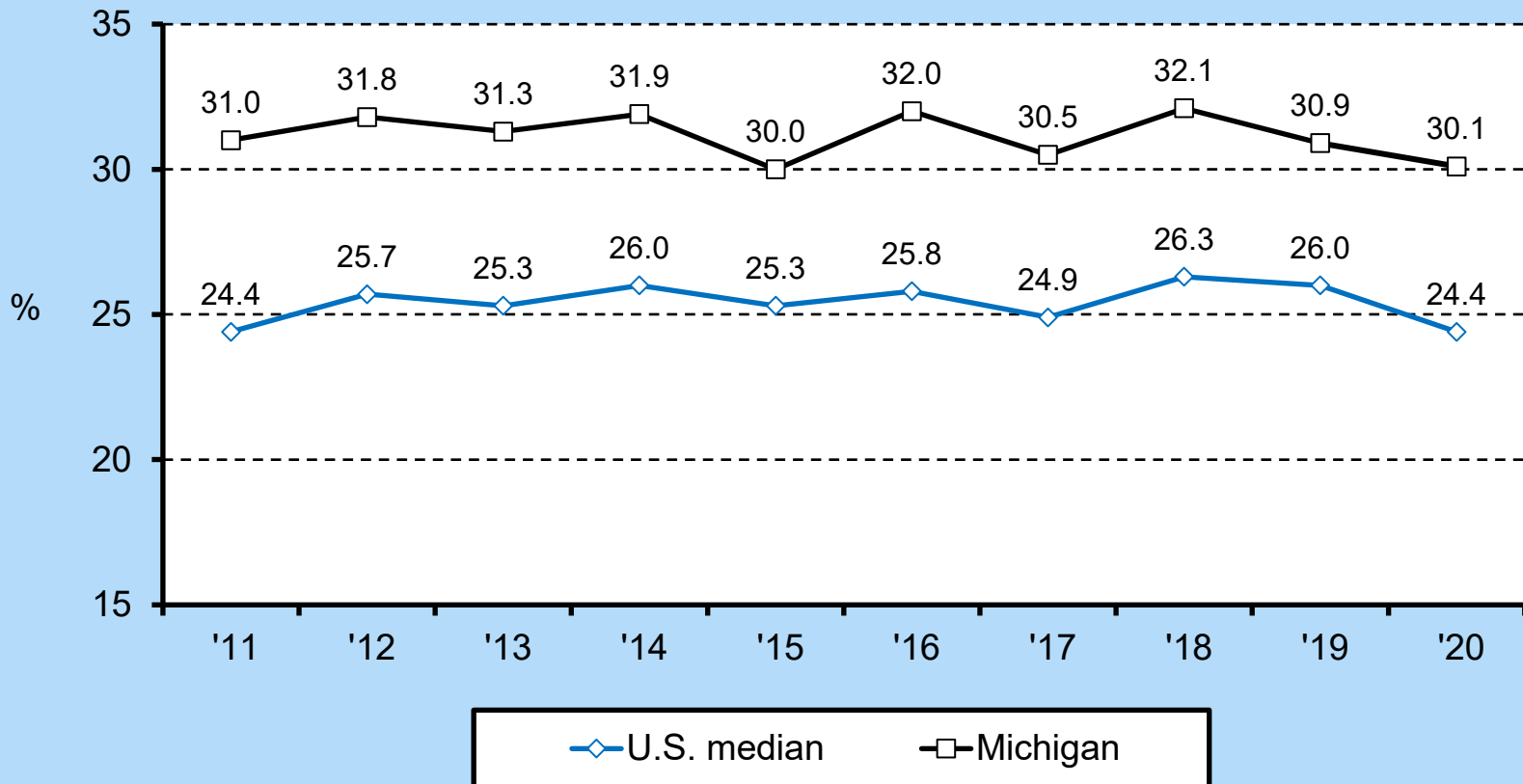
*Suppressed due to a denominator of < 50 and/or a relative standard error > 30%.

Chronic Obstructive Pulmonary Disease (COPD)

2020 MiBRFS Results



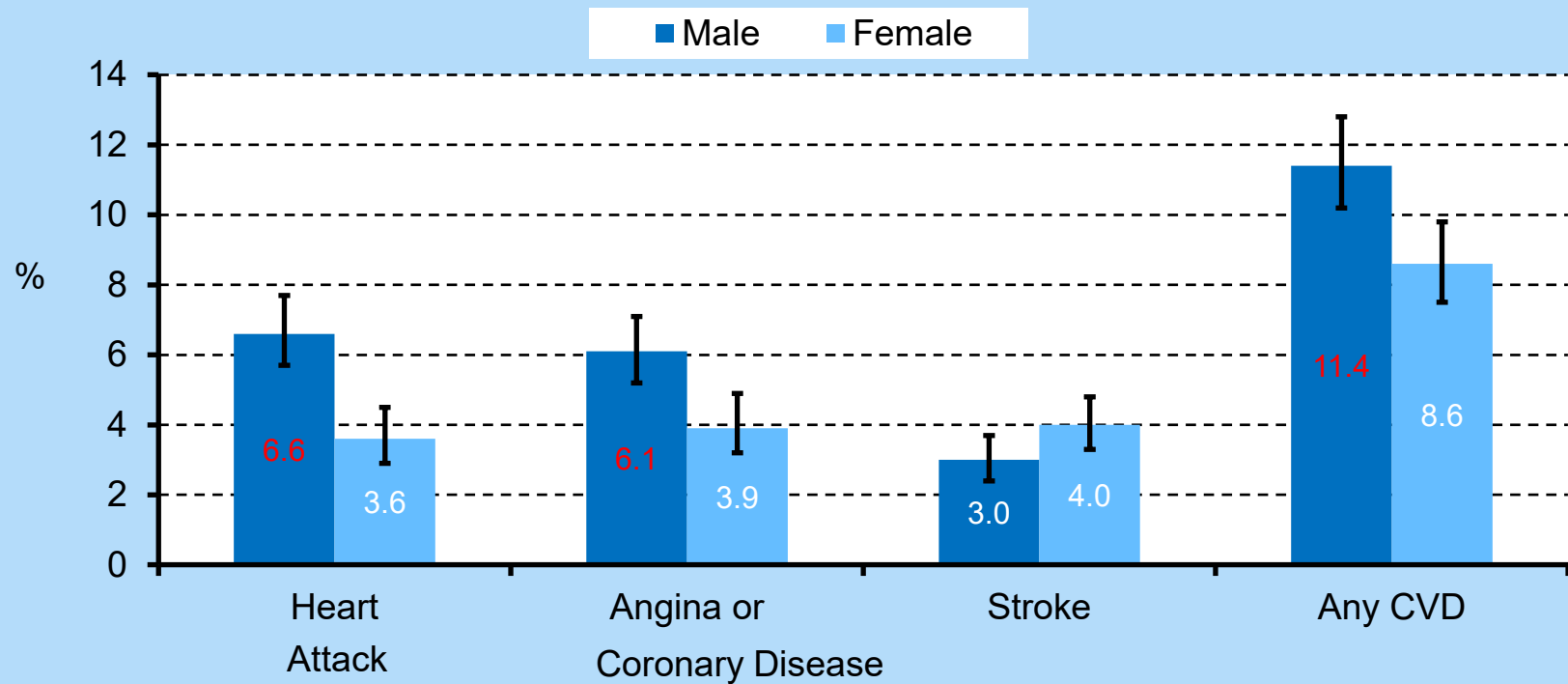
Ever Told Arthritis U.S. vs. Michigan, 2011-2020



2020 MiBRFS Results



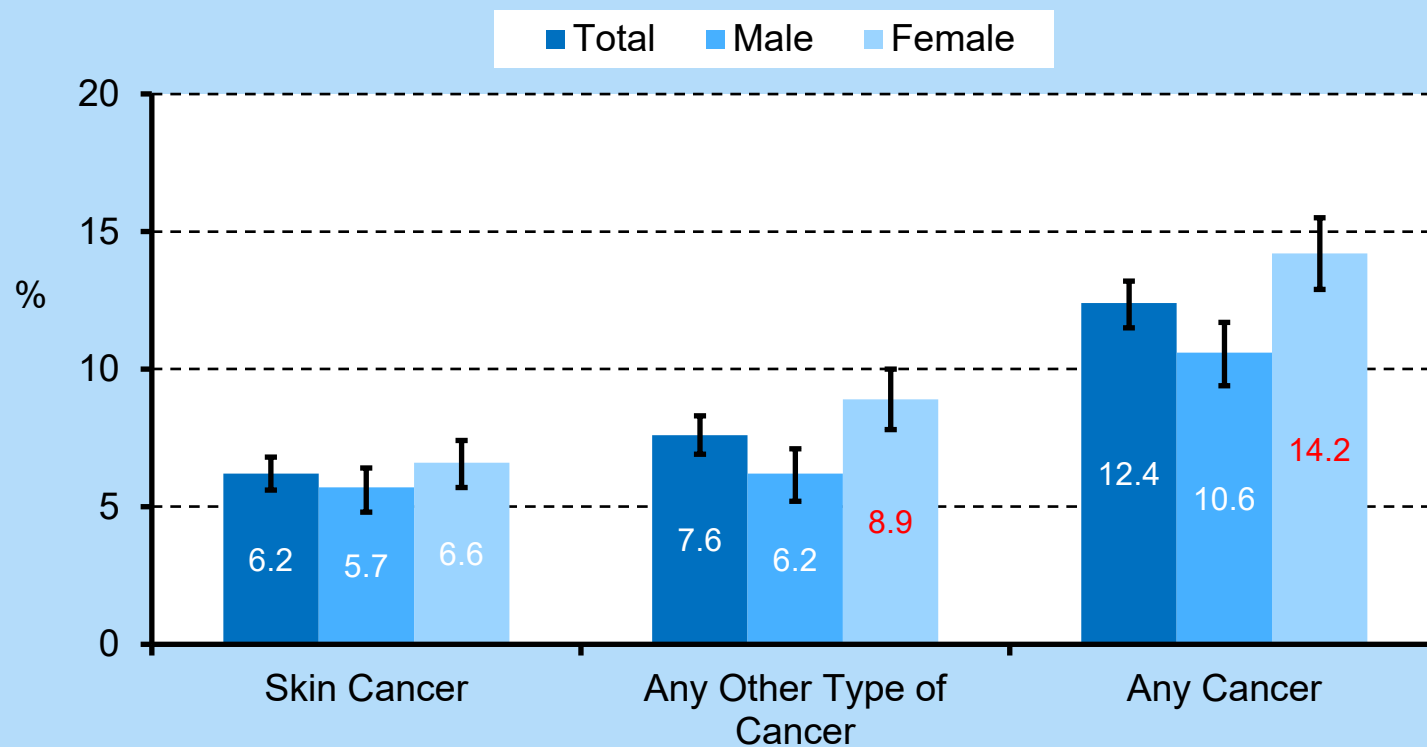
Cardiovascular Disease by Gender Michigan, 2020



2020 MiBRFS Results



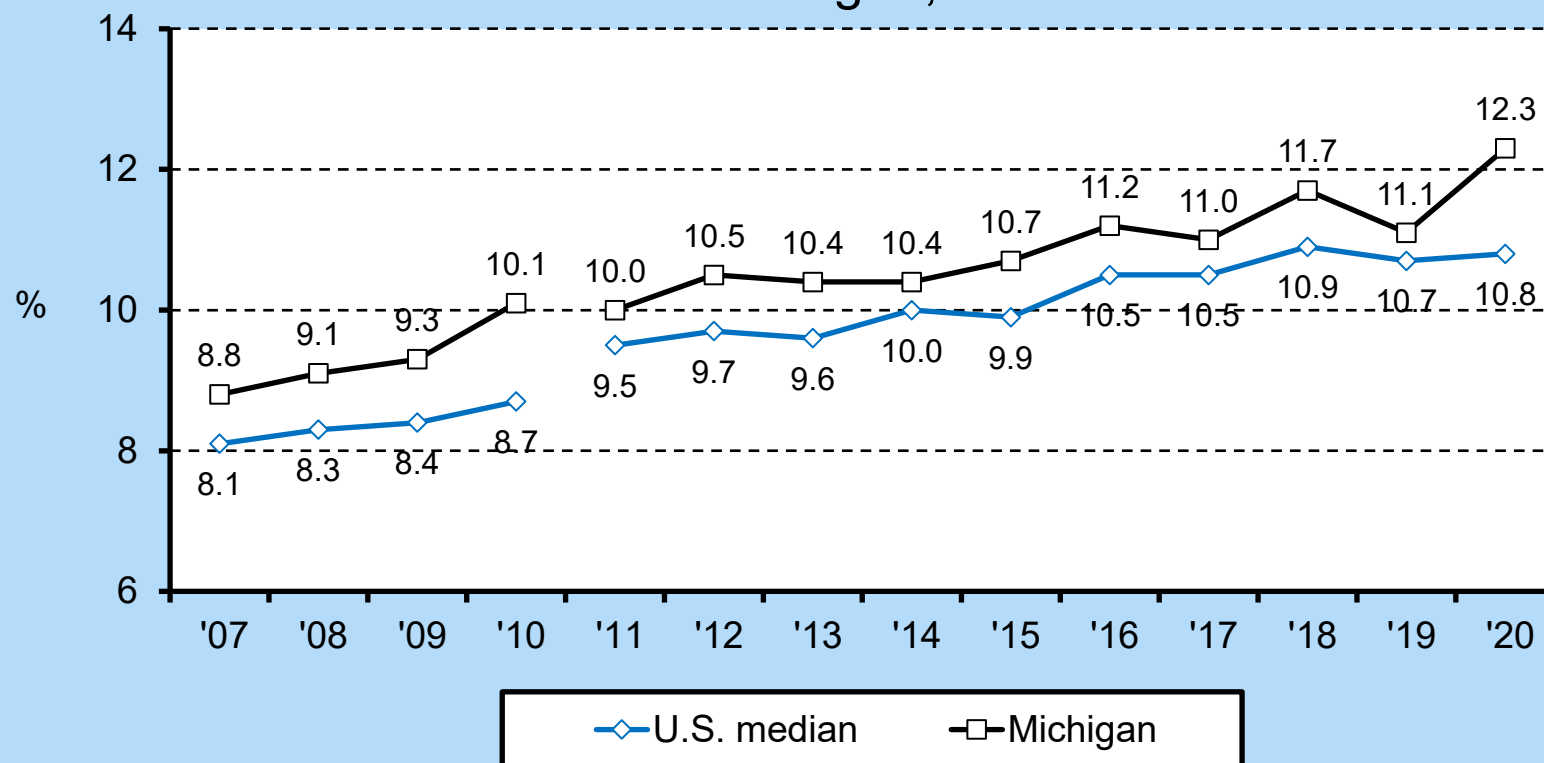
Ever Told Cancer by Gender Michigan, 2020



2020 MiBRFS Results



Ever Told Diabetes U.S. vs. Michigan, 2007-2020

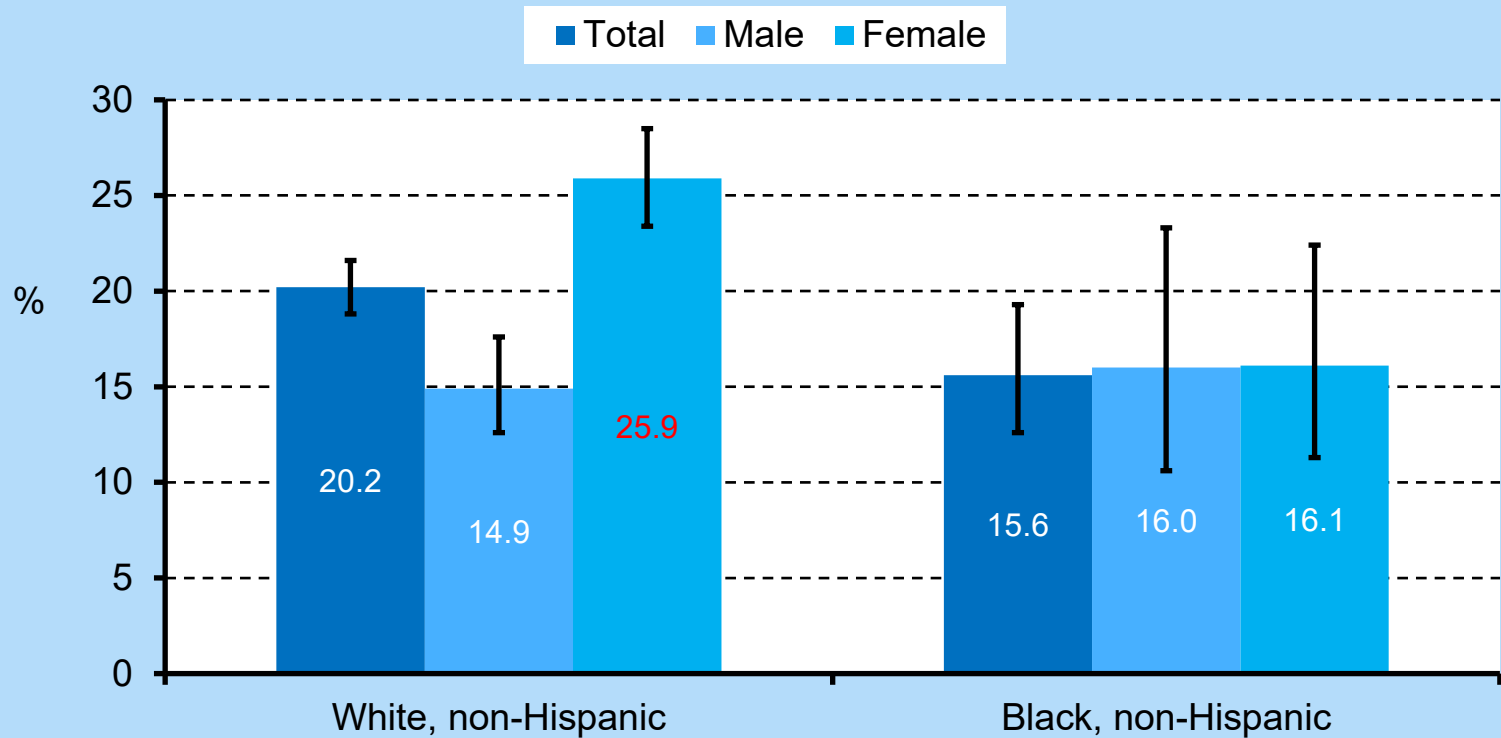


Due to methodology changes that took place in 2011, BRFSS estimates from 2011 and moving forward cannot be compared to BRFSS estimates from 2010 and earlier.

2020 MiBRFS Results



Depression by Race and Gender Michigan, 2020



2021 MiBRFS Status Update



- Survey Statistics
 - 7,527 completed interviews
 - Landline = 2,259
 - Cell Phone = 5,268
- Asthma Call Back Survey
 - Completed 795 interviews (708 adults and 87 children)
- Public use data expected to be available in August/September 2022.
- MDHHS Standard Tables expected to be available November/December 2022 at www.michigan.gov/brfs.

2022 MiBRFS Status Update



- Current Survey Progress (as of June 28th, 2022)
 - Completed = 3,988 (53%) interviews
 - Landline = 1,392 (62%)
 - Cell Phone = 2,596 (49%)
- 2022 Survey Target Numbers
 - Completed = 7,500 interviews (30/70 split)
 - Landline = 2,256
 - Cell Phone = 5,244
- Asthma Call Back Survey is also being conducted in 2022
 - Progress: 456 completed interviews (416 adults, 40 children) (as of June 28th, 2022)

CDC BRFs Core Topics Planning 2021-2026



	2021	2022	2023	2024	2025	2026
Health Status	√	√	√	√	√	√
Healthy Days	√	√	√	√	√	√
Health Care Access	√	√	√	√	√	√
Exercise	√	√	√	√	√	√
Hypertension	√		√		√	
Cholesterol	√		√		√	
Chronic Conditions	√	√	√	√	√	√
Arthritis	√					
Demographics	√	√	√	√	√	√
Disability	√	√	√	√	√	√
Tobacco Use	√	√	√	√	√	√
Alcohol	√	√	√	√	√	√
Immunization	√	√	√	√	√	√

CDC BRFs Core Topics Planning 2021-2026



	2021	2022	2023	2024	2025	2026
H.I.V./AIDS	√	√	√	√	√	√
Falls			√			√
Physical Activity			√			
Breast and Cervical Cancer		√		√		√
Prostate Cancer		√		√		√
Colorectal Cancer		√		√		√
Drinking Driving/ Seat Belt Use			√			√
Inadequate Sleep		√			√	
Oral Health		√		√		√
Fruits and Vegetables	√				√	

2023 CDC BRFs Core Topics



1: Health Status

2: Healthy Days

3: Health Care Access

4: Exercise (Physical Activity)

5: Hypertension Awareness

6: Cholesterol Awareness

7: Chronic Health Conditions

8: Demographics

9: Disability

10: Falls

11: Tobacco Use

12: Alcohol Consumption

13: Immunization (with shingles)

14: H.I.V./AIDS

15: Drinking Driving/ Seat Belt Use

16: Emerging Core: Long-term
COVID Effects

2023 CDC BRFSS Optional Modules



- 1: Prediabetes
- 2: Diabetes
- 3: Place of Flu Vaccination
- 4: Lung Cancer Screening
- 5: Breast and Cervical Cancer Screening
- 6: Prostate Cancer Screening
- 7: Colorectal Cancer Screening
- 8: Cancer Survivorship: Type of Cancer
- 9: Cancer Survivorship: Course of Treatment
- 10: Cancer Survivorship: Pain Management
- 11: Indoor Tanning
- 12: Excess Sun Exposure
- 13: Cognitive Decline
- 14: Caregiver

- 15: Tobacco Cessation
- 16: Other Tobacco Products
- 17: Firearm Safety
- 18: Industry and Occupation
- 19: Heart Attack and Stroke
- 20: Reaction to Race
- 21: Social Determinants and Health Equity
- 22: Sexual Orientation and Gender Identity
- 23: Random Child Selection
- 24: Childhood Asthma Prevalence
- 25: Marijuana Use
- 26: Adverse Childhood Experiences
- 27: COVID-19 Vaccination
- 28: Sex at Birth

2023 MiBRFS State-Added Questions



- In 2023, we will continue to ask programs that have state-added questions included within the MiBRFS to contribute financially towards the conduct and analysis of the survey.
- Question costs (per split of ~ 2,500)
 - < 20% of respondents = \$2,500 per question
 - ≥ 20% of respondents = \$3,000 per question
- For those interested in adding specific questions to the 2023 MiBRFS, please submit the State-added Question Proposal form to TianY@michigan.gov by July 15th, 2022.

2023 Michigan Behavioral Risk Factor Survey (MiBRFS) State-Added Question / Regional Oversample Proposal Form

If you are interested in having specific questions added to the 2023 MiBRFS or conducting a regional oversample within the 2023 survey year, please complete this form and submit it to Yan Tian (TianY@michigan.gov) by **Friday, July 15th, 2022**.

In 2023, we will continue to ask programs that have state-added questions included within the MiBRFS to contribute financially towards the conduct and analysis of the survey. For each questionnaire split on which the questions are included, funded programs will be asked to contribute **\$2,500** for each question asked of less than 20% of respondents and **\$3,000** each for all other questions. The costs associated with regional oversamples vary depending on the goals of each oversample and thus will need to be discussed further with MiBRFSS staff before exact costs can be determined.

The list of potential 2023 MiBRFS state-added questions and regional oversamples will be compiled and discussed in further detail as part of the 2022 Michigan BRFSS Data Users Meeting presentation that will be scheduled on **Wednesday, June 29th, 2022**.

Topic: _____

Name of Requester: _____ Bureau/Division: _____

Phone : _____ E-mail: _____

How will these data be used from a program or policy aspect?

What is the target population from whom you want to collect this data?

What data are currently available on these issues/populations and what would data from the BRFSS provide that is not provided by these other sources?

If you are proposing a regional oversample only, please skip to the last question.

Approximately how many questions do you think are needed?

Expected number of questionnaire splits for these questions, if available:

- ☐ 1 split = 2,500 - 3,500 interviews (if questions are asked of the entire adult population)
- ☐ 2 splits = 5,000 - 7,000 interviews (if questions are asked of the entire adult population)
- ☐ 3 splits = 7,500 - 10,500 interviews (if questions are asked of the entire adult population)

2023 MiBRFS State-Added Topics ---Planned



Module Name	# Questions	# Splits
Firearm Safety	3	3
Social Determinants and Health Equity	10	2
Reaction to Race	6	2
Other Tobacco Products	3	2
Cancer Survivor	3	3
Prostate Cancer Screening	5	3

MiBRFSS Questions



- Questions related to the MiBRFSS Data Users Presentation
- Have interest in state-added question proposals for the 2023 or future survey
- Need further information on other MiBRFSS-related topics
- Contact Yan Tian
 - Michigan BRFSS Coordinator/Epidemiologist
 - TianY@michigan.gov
 - 517-335-8144

MiBRFSS Staff Information



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