



Iowa Community Health Snapshot Series

*275 community reports prepared for the Iowa State University
Extension and Outreach Community and Economic
Development Unit*



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By Matthew Voss & Shawn Dorius

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Iowa Community Health Snapshot Series

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Health in Muscatine: Overview

Dear Community Members & Stakeholders of Muscatine,

We are pleased to share the Iowa Community Health Snapshot series, a set of reports designed in partnership with Iowa State University’s Community Economic Development to assess the overall landscape of health and well-being across Iowa. The following pages include the health snapshot for your community. The snapshot can be used to see how Muscatine ranks across various health measures compared to the rest of the state and similarly-sized communities. This comparison allows us to identify Muscatine’s strengths and opportunities for growth by leveraging the Centers for Disease Control and Prevention PLACES dataset.

The report includes 37 health measures organized topically by general health status, risky behavior, health outcomes, prevention, and disability. We provide a general overview of each health topic, followed by a description of each health measure. Health measure descriptions include crude and age-adjusted rates and a ranking that tells you how your community ranks compared to all Iowa communities and communities of similar size to Muscatine. Crude rates tell you the raw, un-adjusted percent of the population experiencing the health measure. Age-adjusted rates account for the age distribution present in your community and presents what the rate would be if your community had a standard age distribution. Crude rates can provide a general comparison between communities and age-adjusted rates can give a fairer comparison between communities with different age structures.

Strengths

Take a look at the top strengths of your community! Below are unadjusted and age-adjusted health measures that represent your community’s strengths. We recommend using continued investment in these areas to maintain them as strengths, as well as building on them to improve in other health domains.

Crude			Age-Adjusted		
Health Domain	Statewide Community Rank	Mid-Large Community Rank	Health Domain	Statewide Community Rank	Mid-Large Community Rank
High Cholesterol	105th	9th	Binge Drinking	21st	3rd
Arthritis	127th	15th	Taking BP Medication	50th	5th
Cancer (except skin)	204th	16th	High Cholesterol	114th	4th
Core preventive services for older women	210th	11th	Core preventive services for older women	131st	13th
High Blood Pressure	223rd	17th	Arthritis	163rd	11th

Opportunities

Below are health measures that represent potential areas for growth in your community. We recommend increasing investment in these areas to support community health and well-being.

Crude			Age-Adjusted		
Health Domain	Statewide Community Rank	Mid-Large Community Rank	Health Domain	Statewide Community Rank	Mid-Large Community Rank
Health Insurance	933rd	28th	Health Insurance	877th	28th
Depression	895th	24th	Any Disability	845th	25th
Mental Health	886th	23rd	Vision Disability	837th	23rd
Sleep <7 hours	880th	31st	Sleep <7 hours	826th	28th
Cognitive Disability	871st	22nd	Depression	824th	28th

Please review the rest of the report to learn more about your community and reach out to us with questions about the report or for recommendations to improve the overall health and well-being in Muscatine.

Sincerely,



Shawn F. Dorius, PhD
Iowa State University
Public Science Collaborative



IOWA STATE UNIVERSITY
Extension and Outreach
Community and Economic Development

This project was supported by funding from Iowa State University's Extension and Outreach Community and Economic Development Unit, via an award from Iowa State University's Presidential Strategic Initiative Plan 2022-2031.

How to Use this Report

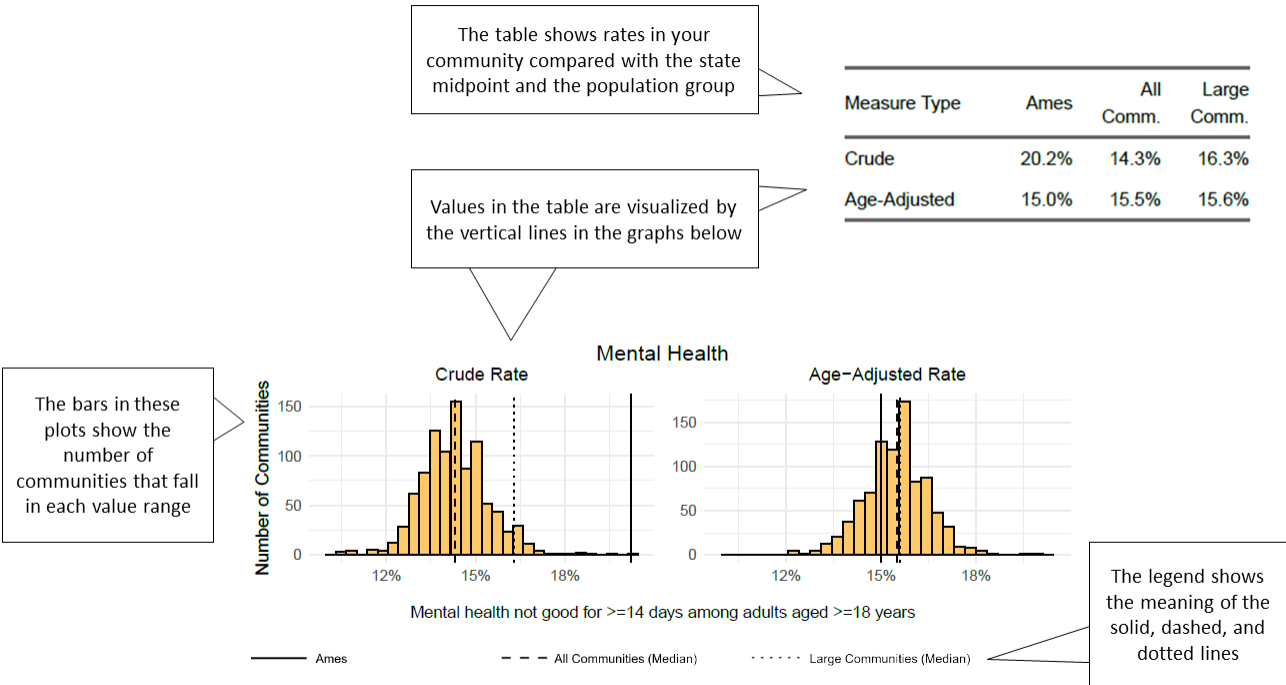
The purpose of the Iowa Community Health Snapshot Series is to provide an overview of health in Muscatine that can be used to help inform health-related interventions and programming. This report contains five sections, including the overall health status of Muscatine, a review of risky behaviors in the community, and information on various health outcomes, prevention measures, and disability needs. Each section includes an overview of the health domain, a breakdown of its underlying health measures, and data to see how Muscatine compares to the rest of the state and similarly-sized communities.

With a population of 23,671, Muscatine’s similarly sized communities are defined as mid-large communities. In Iowa, mid-large communities have an average population of 20,750, and there are 31 communities that are considered mid-large communities. To see all of the communities in this population group, please see Appendix 3 of this report.

Group	Population Range	Number of Communities
Large	50,000+	11
Mid-Large	10,000-49,999	31
Midsized	2,500-9,999	102
Small	1,000-2,499	138
Very Small	0-999	676
Total		958

Using Ames, IA as an Example

The graphic below is an example of the details included for each health measure. The table in the upper right shows your community's crude and age-adjusted rate estimates alongside their averages across all Iowa communities and similarly-sized communities. The images below show the distribution of the health measure across communities. The vertical lines correspond with the values in the table to show the estimate for the specific community compared to communities across the state. The solid black line in each plot represents the community rate, with the dashed lines indicating the average rate for all Iowa communities and the dotted lines showing the average rate for similarly-sized communities.



The example graphic above displays the poor mental health rate in Ames, Iowa. The left plot shows the crude rate of poor mental health in the community. Crude rates are the raw, un-adjusted percent of the population experiencing the health measure. Notice how the solid black line is closer to the right of the plot than the dashed and dotted lines; this indicates that Ames has a higher crude rate of poor mental health than most communities in the state. However, the age-adjusted rate plot on the right shows the solid line closer to the peak of the distribution and averages for the state and similarly-sized communities, indicating that when accounting for Ames's unique age distribution, Ames's poor mental health rate is not a significant outlier, and is estimated to be lower than the statewide average. Accounting for crude and age-adjusted rates is critical to help inform health interventions as age-adjusted rates can help contextualize the health measure within the population.

Health Status

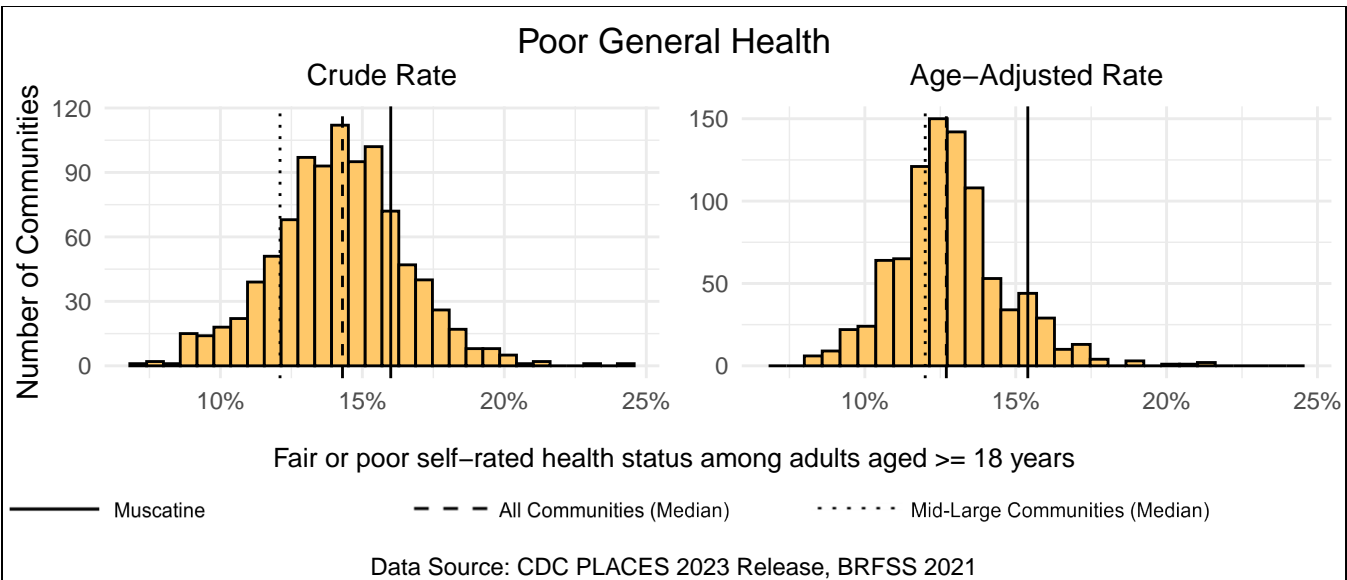
This section reflects measures for overall health, including general, physical, and mental health. These measures are a valuable way to see a simple summary of the health of a country’s population. The questions to calculate these measures ask respondents to evaluate their health status. General health is evaluated on a 5-point scale where respondents can report their health status as one of “excellent,” “very good,” “good,” “fair,” or “poor,” from which the respondents who answer “fair” or “poor” are included in the measure. Physical and mental health are evaluated as the rate of respondents who say they have had 14 or more days in the last 30 days in which their physical or mental health was not good. The URL below includes more information about each variable.

<https://www.cdc.gov/places/measure-definitions/health-status/index.html>

Poor General Health

Muscatine has a crude rate of 16.0% for fair or poor self-rated health status among adults aged >= 18 years, which ranks 770th out of 958 Iowa communities (24th out of 31 mid-large communities). The age-adjusted rate for Muscatine is 15.4%, which ranks 817th out of 905 Iowa communities (24th out of 31 mid-large communities).

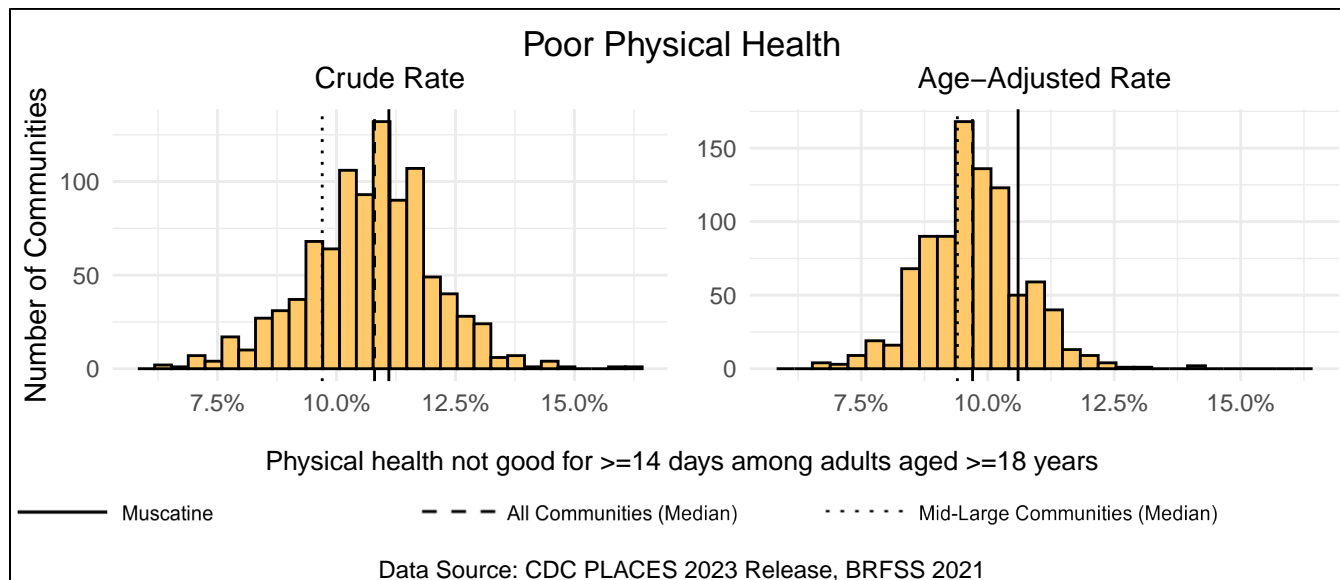
Measure Type	Muscatine	All Comm.	Mid-Large Comm.
Crude	16.0%	14.3%	12.1%
Age-Adjusted	15.4%	12.7%	12.0%



Poor Physical Health

Muscatine has a crude rate of 11.1% for physical health not good for ≥ 14 days among adults aged ≥ 18 years, which ranks 568th out of 958 Iowa communities (22nd out of 31 mid-large communities). The age-adjusted rate for Muscatine is 10.6%, which ranks 742nd out of 905 Iowa communities (23rd out of 31 mid-large communities).

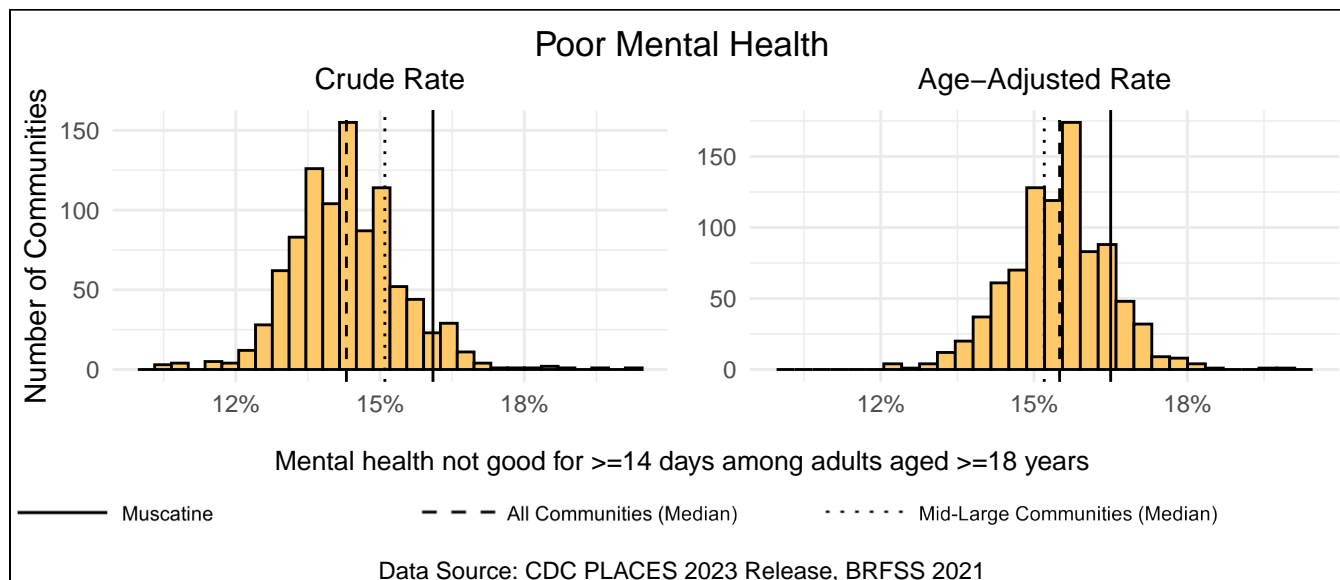
Measure Type	Muscatine	All Comm.	Mid-Large Comm.
Crude	11.1%	10.8%	9.7%
Age-Adjusted	10.6%	9.7%	9.4%



Poor Mental Health

Muscatine has a crude rate of 16.1% for mental health not good for ≥ 14 days among adults aged ≥ 18 years, which ranks 886th out of 958 Iowa communities (23rd out of 31 mid-large communities). The age-adjusted rate for Muscatine is 16.5%, which ranks 765th out of 905 Iowa communities (23rd out of 31 mid-large communities).

Measure Type	Muscatine	All Comm.	Mid-Large Comm.
Crude	16.1%	14.3%	15.1%
Age-Adjusted	16.5%	15.5%	15.2%



Health Risk Behaviors

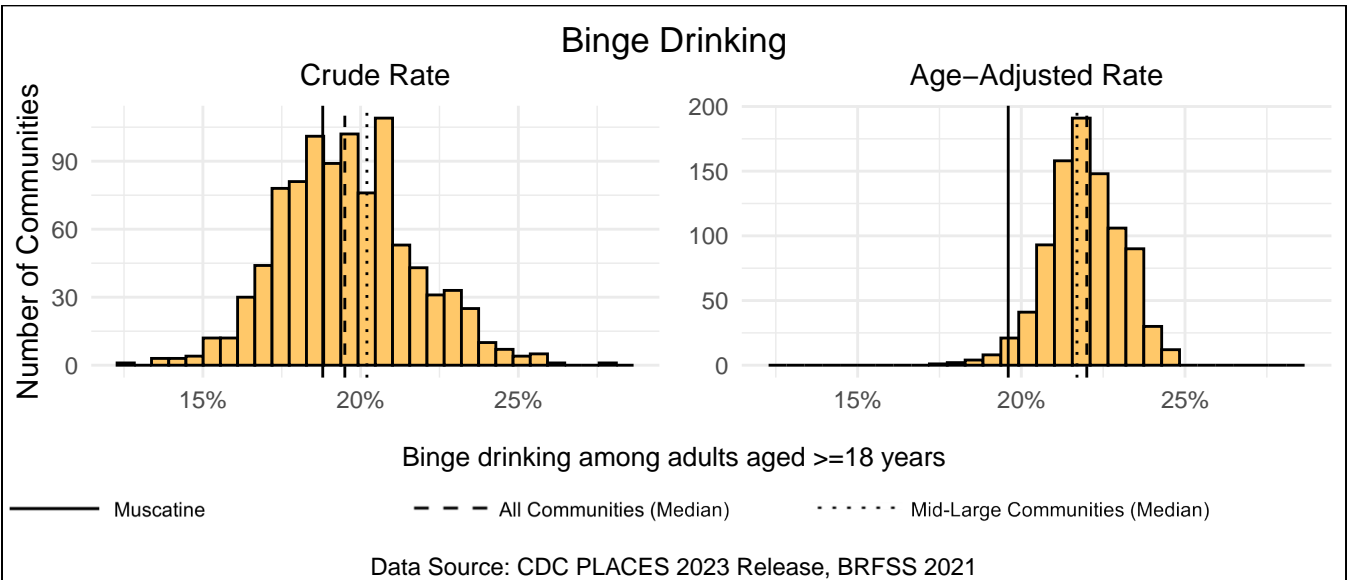
Health risk measures are measures of individual behaviors that can lead to poor health outcomes. These include binge drinking, current smoking, physical inactivity, and getting less than seven hours of nightly sleep. Risk behaviors are the most critical intervention points as they can help save lives and drastically improve health outcomes later in life. Each measure is calculated as the rate of respondents participating in a high level of risk behavior. The exact cutoff points for the behavior depend on the health area. The link below includes more information about each variable.

<https://www.cdc.gov/places/measure-definitions/unhealthy-behaviors/index.html>

Binge Drinking

Muscatine has a crude rate of 18.8% for binge drinking among adults aged ≥ 18 years, which ranks 356th out of 958 Iowa communities (7th out of 31 mid-large communities). The age-adjusted rate for Muscatine is 19.6%, which ranks 21st out of 905 Iowa communities (3rd out of 31 mid-large communities).

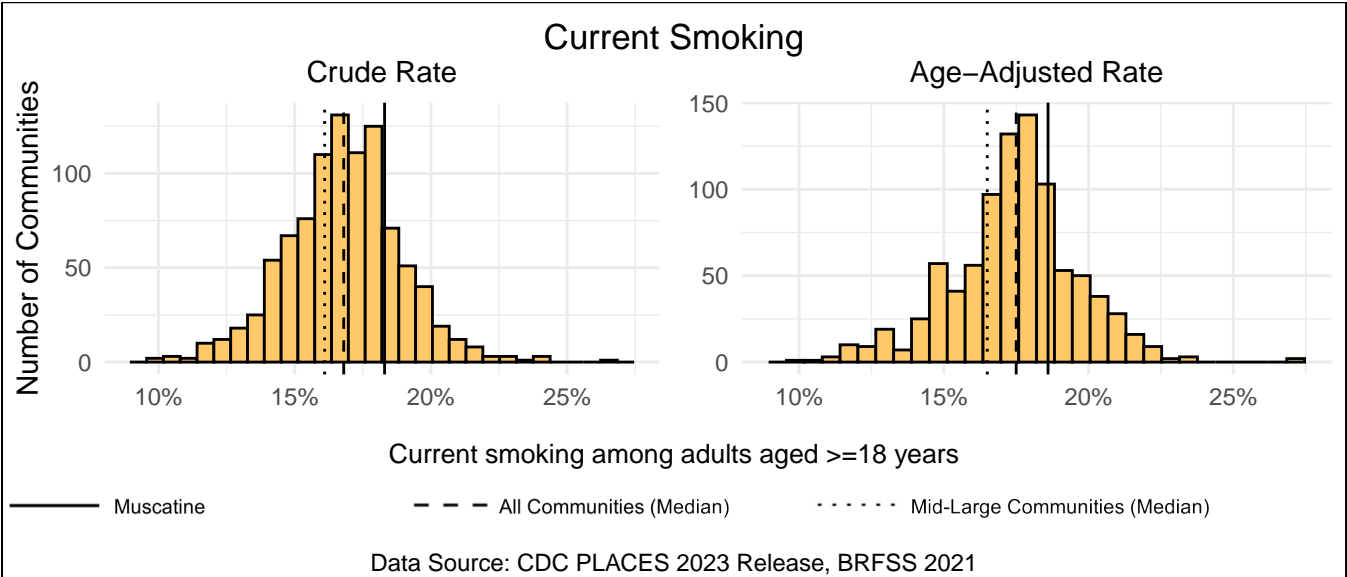
Measure Type	Muscatine	All Comm.	Mid-Large Comm.
Crude	18.8%	19.5%	20.2%
Age-Adjusted	19.6%	22.0%	21.7%



Current Smoking

Muscatine has a crude rate of 18.3% for current smoking among adults aged >=18 years, which ranks 747th out of 958 Iowa communities (23rd out of 31 mid-large communities). The age-adjusted rate for Muscatine is 18.6%, which ranks 649th out of 905 Iowa communities (23rd out of 31 mid-large communities).

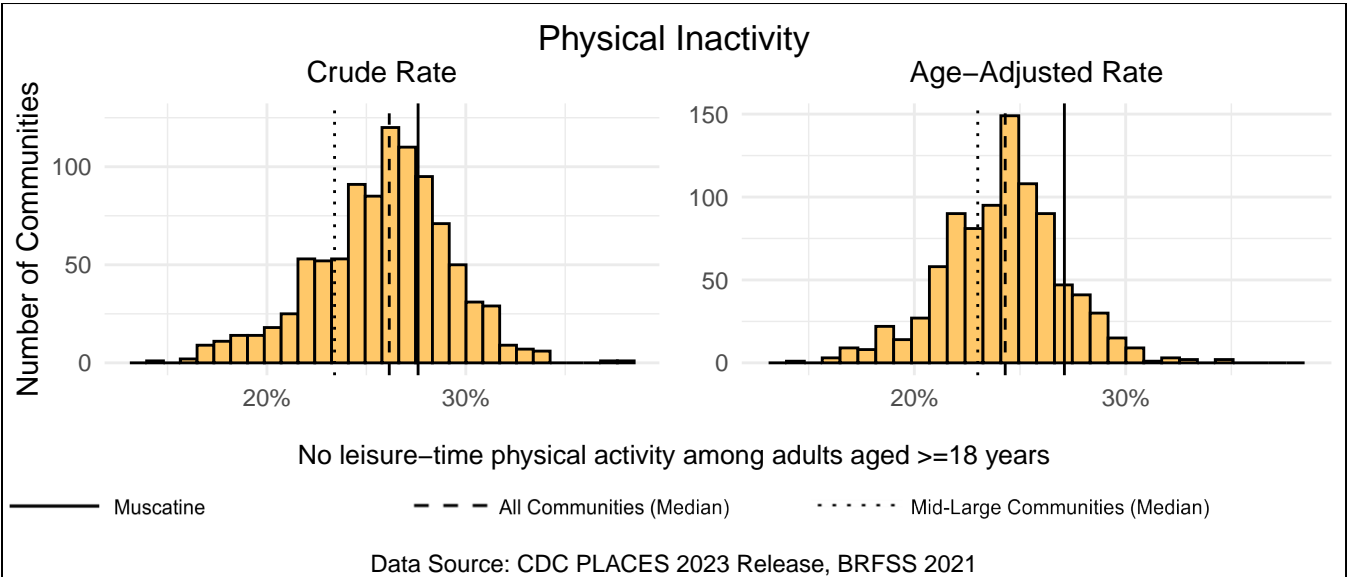
Measure Type	Muscatine	All Comm.	Mid-Large Comm.
Crude	18.3%	16.8%	16.1%
Age-Adjusted	18.6%	17.5%	16.5%



Physical Inactivity

Muscatine has a crude rate of 27.6% for no leisure-time physical activity among adults aged >=18 years, which ranks 678th out of 958 Iowa communities (22nd out of 31 mid-large communities). The age-adjusted rate for Muscatine is 27.1%, which ranks 777th out of 905 Iowa communities (23rd out of 31 mid-large communities).

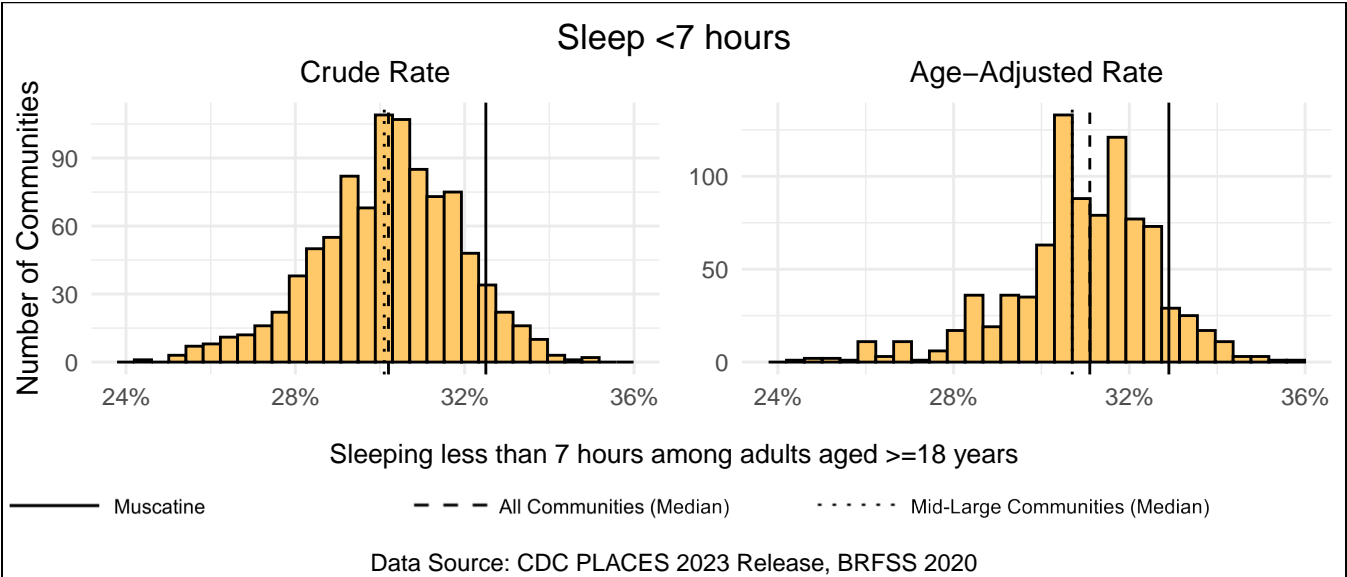
Measure Type	Muscatine	All Comm.	Mid-Large Comm.
Crude	27.6%	26.1%	23.4%
Age-Adjusted	27.1%	24.3%	23.0%



Sleep <7 hours

Muscatine has a crude rate of 32.5% for sleeping less than 7 hours among adults aged ≥ 18 years, which ranks 880th out of 958 Iowa communities (31st out of 31 mid-large communities). The age-adjusted rate for Muscatine is 32.9%, which ranks 826th out of 905 Iowa communities (28th out of 31 mid-large communities).

Measure Type	Muscatine	All Mid-Large	
		Comm.	Comm.
Crude	32.5%	30.2%	30.1%
Age-Adjusted	32.9%	31.1%	30.7%



Health Outcomes

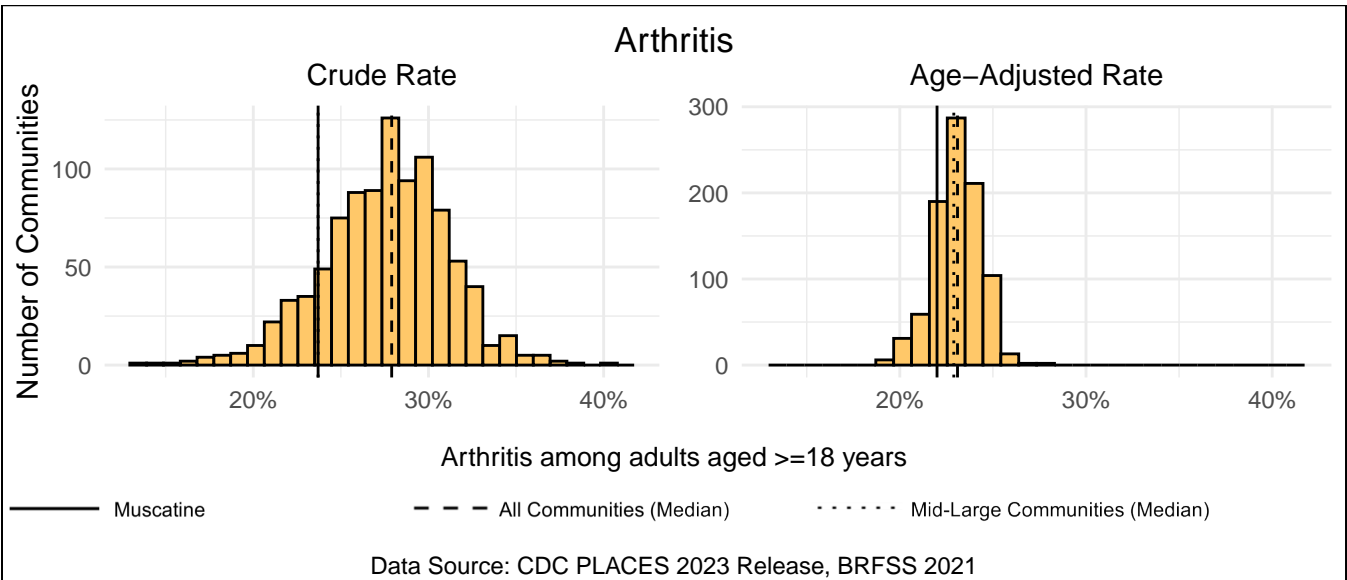
This section includes measures about specific health outcomes such as chronic illness, mental health conditions, and risk factors for future disease. Health outcome measures include but are not limited to arthritis, high blood pressure, cancer, depression, and obesity. Each measure is the percentage of respondents reporting receiving the diagnosis by a doctor, nurse, or other health professional. The link below includes more information about each variable.

<https://www.cdc.gov/places/measure-definitions/health-outcomes/index.html>

Arthritis

Muscatine has a crude rate of 23.7% for arthritis among adults aged ≥ 18 years, which ranks 127th out of 958 Iowa communities (15th out of 31 mid-large communities). The age-adjusted rate for Muscatine is 22.0%, which ranks 163rd out of 905 Iowa communities (11th out of 31 mid-large communities).

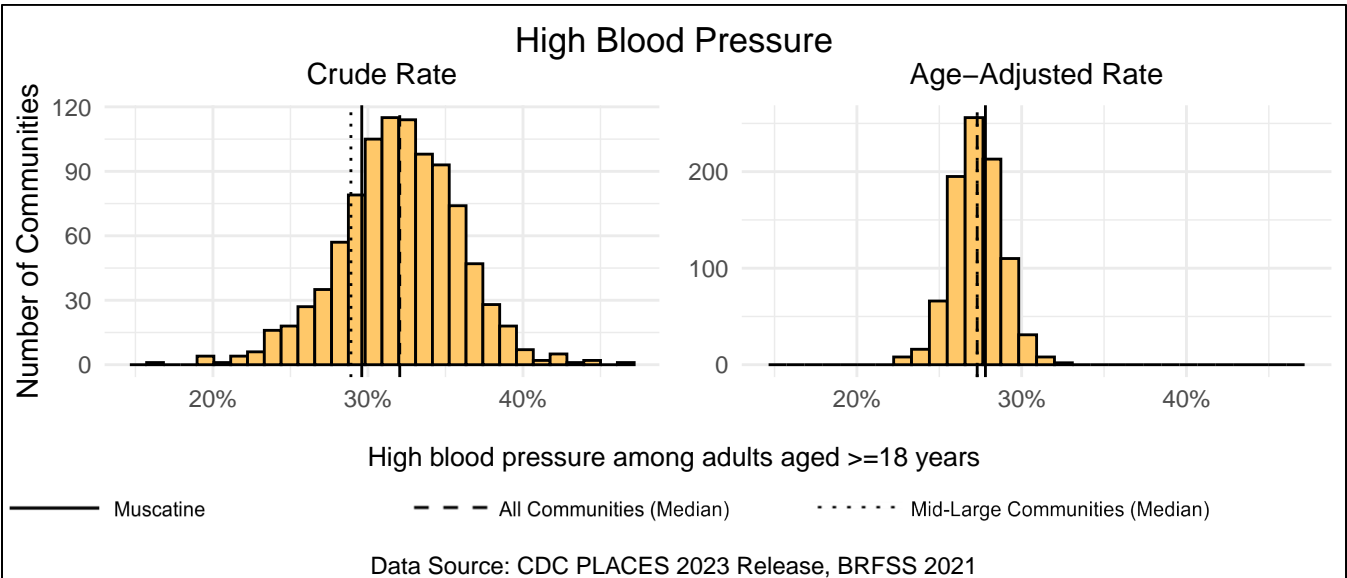
Measure Type	Muscatine	All Comm.	Mid-Large Comm.
Crude	23.7%	27.9%	23.7%
Age-Adjusted	22.0%	23.1%	22.9%



High Blood Pressure

Muscatine has a crude rate of 29.6% for high blood pressure among adults aged ≥ 18 years, which ranks 223rd out of 958 Iowa communities (17th out of 31 mid-large communities). The age-adjusted rate for Muscatine is 27.8%, which ranks 572nd out of 905 Iowa communities (21st out of 31 mid-large communities).

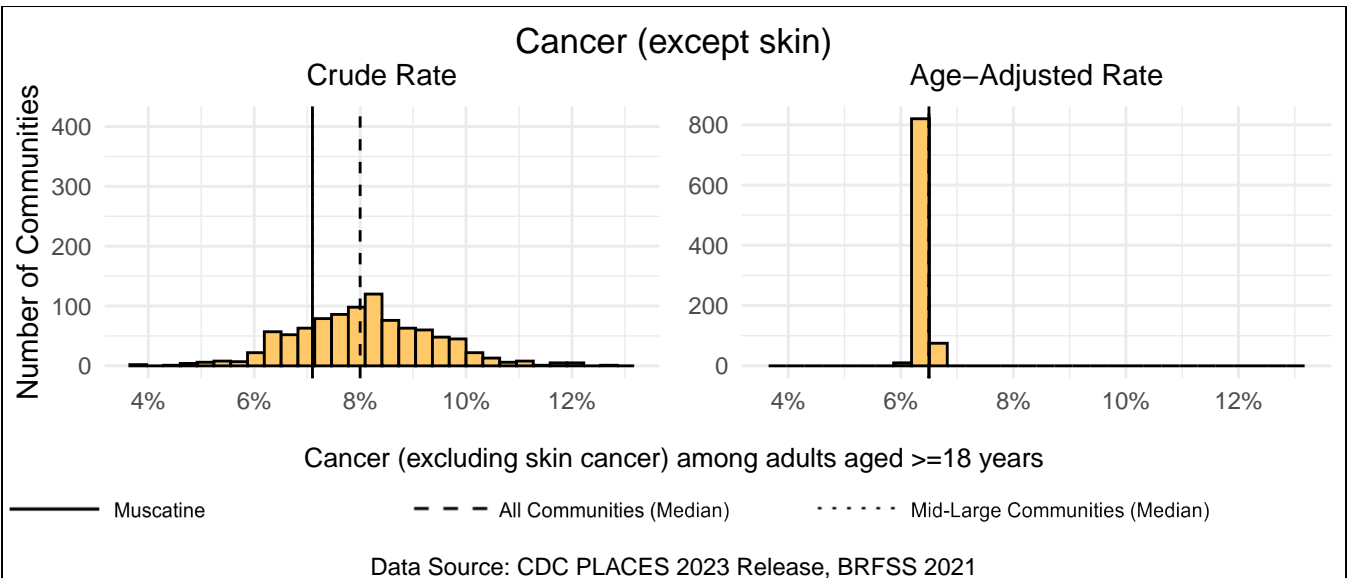
Measure Type	Muscatine	All Comm.	Mid-Large Comm.
Crude	29.6%	32.0%	28.9%
Age-Adjusted	27.8%	27.3%	27.3%



Cancer (except skin)

Muscatine has a crude rate of 7.1% for cancer (excluding skin cancer) among adults aged ≥ 18 years, which ranks 204th out of 958 Iowa communities (16th out of 31 mid-large communities). The age-adjusted rate for Muscatine is 6.5%, which ranks 418th out of 905 Iowa communities (15th out of 31 mid-large communities).

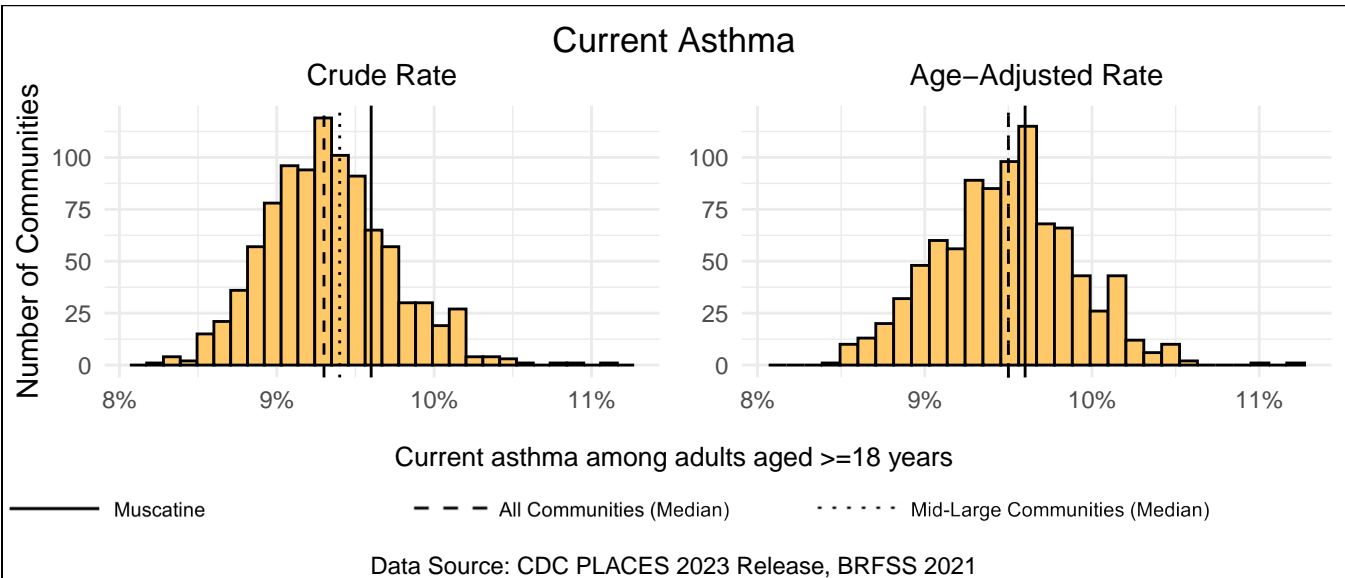
Measure Type	Muscatine	All Comm.	Mid-Large Comm.
Crude	7.1%	8.0%	7.1%
Age-Adjusted	6.5%	6.5%	6.5%



Current Asthma

Muscatine has a crude rate of 9.6% for current asthma among adults aged ≥ 18 years, which ranks 716th out of 958 Iowa communities (18th out of 31 mid-large communities). The age-adjusted rate for Muscatine is 9.6%, which ranks 513th out of 905 Iowa communities (17th out of 31 mid-large communities).

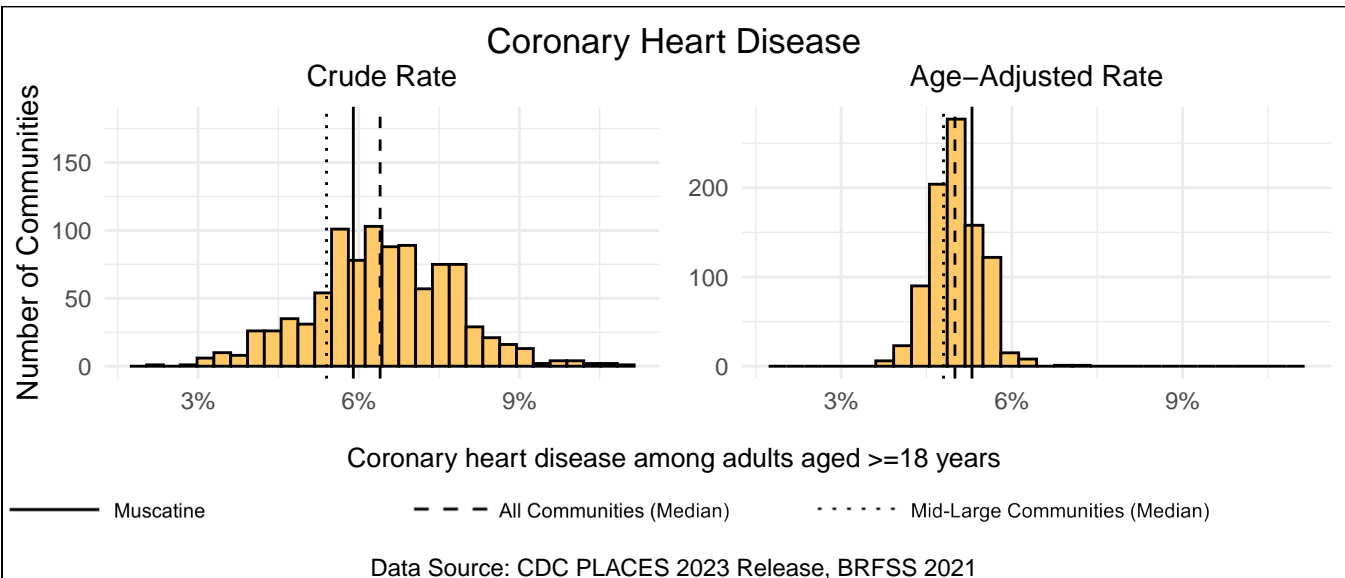
Measure Type	Muscatine	All Comm.	Mid-Large Comm.
Crude	9.6%	9.3%	9.4%
Age-Adjusted	9.6%	9.5%	9.5%



Coronary Heart Disease

Muscatine has a crude rate of 5.9% for coronary heart disease among adults aged ≥ 18 years, which ranks 300th out of 958 Iowa communities (18th out of 31 mid-large communities). The age-adjusted rate for Muscatine is 5.3%, which ranks 674th out of 905 Iowa communities (22nd out of 31 mid-large communities).

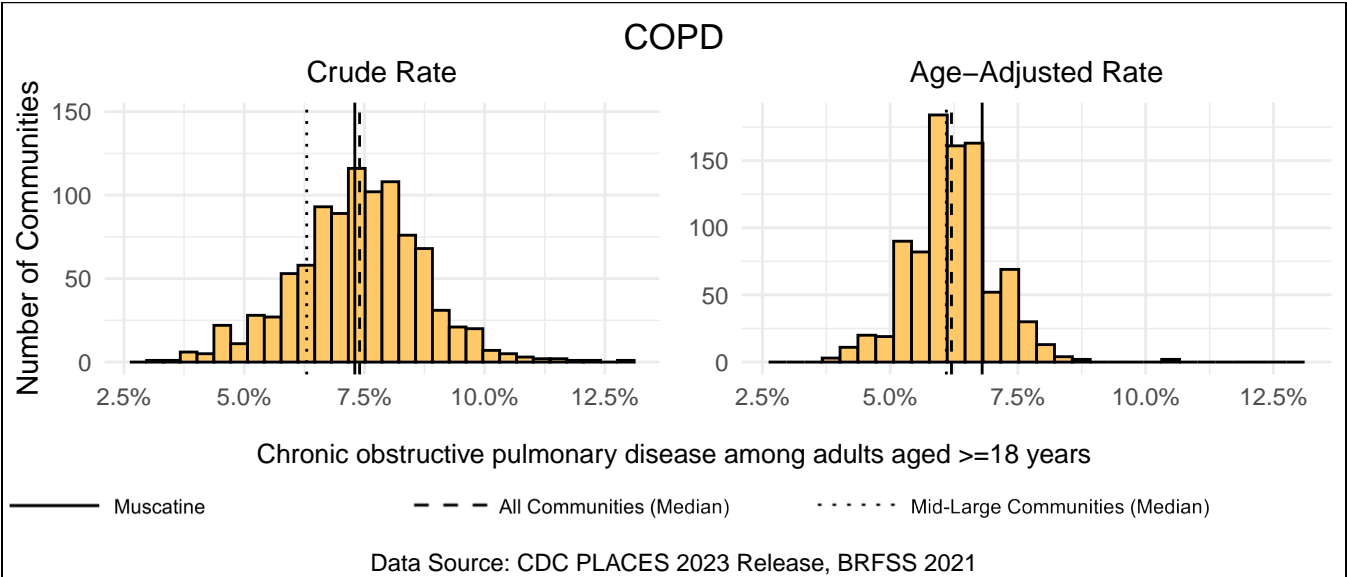
Measure Type	Muscatine	All Comm.	Mid-Large Comm.
Crude	5.9%	6.4%	5.4%
Age-Adjusted	5.3%	5.0%	4.8%



COPD

Muscatine has a crude rate of 7.3% for chronic obstructive pulmonary disease among adults aged ≥ 18 years, which ranks 423rd out of 958 Iowa communities (19th out of 31 mid-large communities). The age-adjusted rate for Muscatine is 6.8%, which ranks 699th out of 905 Iowa communities (22nd out of 31 mid-large communities).

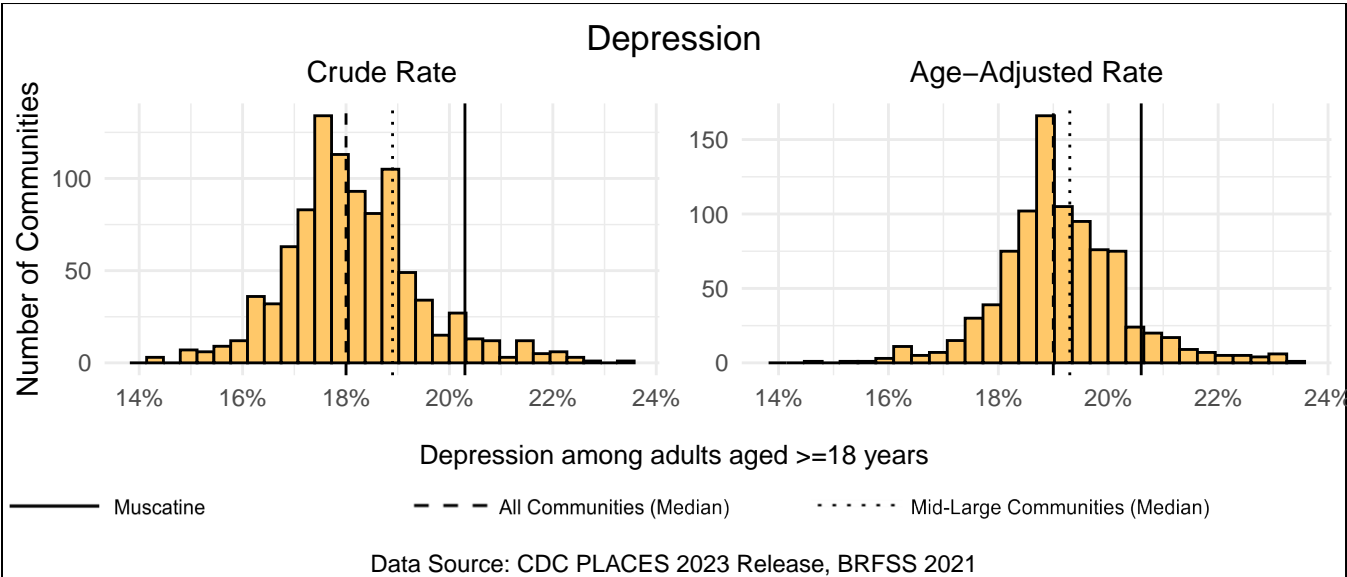
Measure Type	Muscatine	All Comm.	Mid-Large Comm.
Crude	7.3%	7.4%	6.3%
Age-Adjusted	6.8%	6.2%	6.1%



Depression

Muscatine has a crude rate of 20.3% for depression among adults aged ≥ 18 years, which ranks 895th out of 958 Iowa communities (24th out of 31 mid-large communities). The age-adjusted rate for Muscatine is 20.6%, which ranks 824th out of 905 Iowa communities (28th out of 31 mid-large communities).

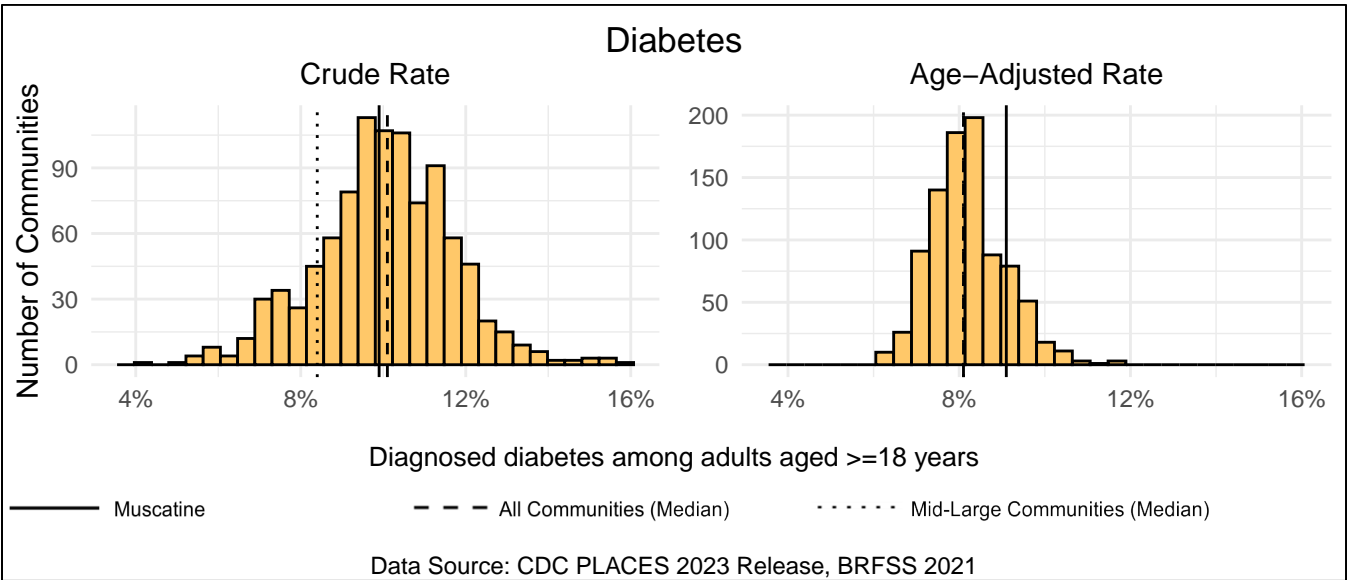
Measure Type	Muscatine	All Comm.	Mid-Large Comm.
Crude	20.3%	18.0%	18.9%
Age-Adjusted	20.6%	19.0%	19.3%



Diabetes

Muscatine has a crude rate of 9.9% for diagnosed diabetes among adults aged ≥ 18 years, which ranks 416th out of 958 Iowa communities (19th out of 31 mid-large communities). The age-adjusted rate for Muscatine is 9.1%, which ranks 760th out of 905 Iowa communities (23rd out of 31 mid-large communities).

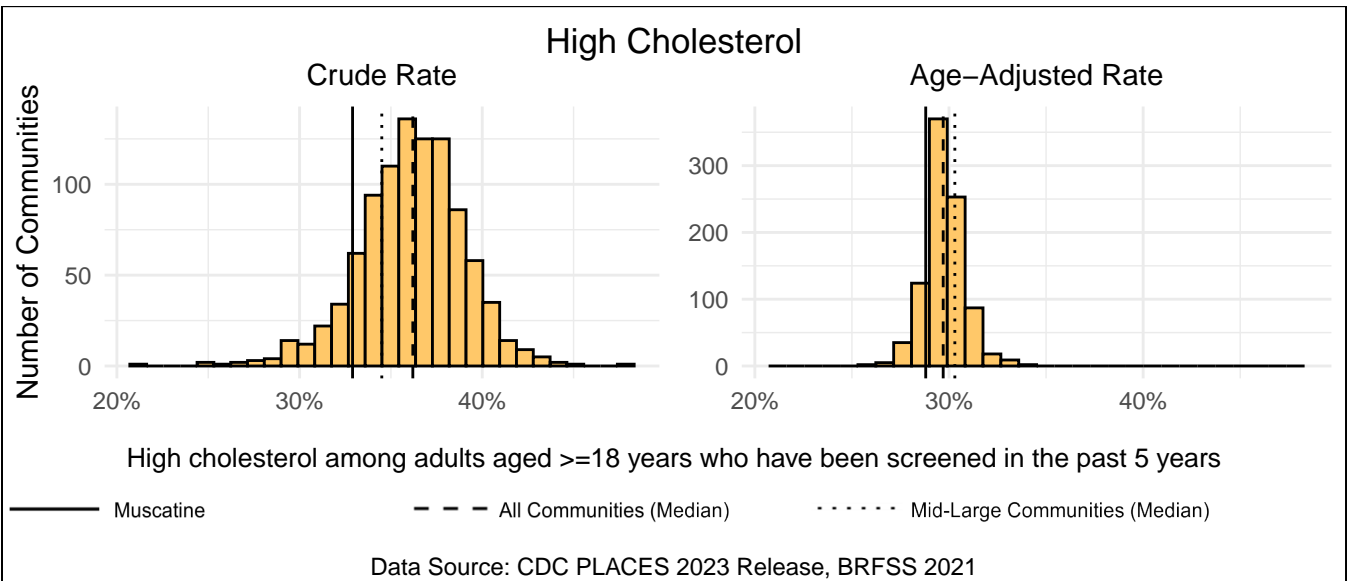
Measure Type	Muscatine	All Comm.	Mid-Large Comm.
Crude	9.9%	10.1%	8.4%
Age-Adjusted	9.1%	8.1%	8.1%



High Cholesterol

Muscatine has a crude rate of 32.9% for high cholesterol among adults aged ≥ 18 years who have been screened in the past 5 years, which ranks 105th out of 958 Iowa communities (9th out of 31 mid-large communities). The age-adjusted rate for Muscatine is 28.8%, which ranks 114th out of 905 Iowa communities (4th out of 31 mid-large communities).

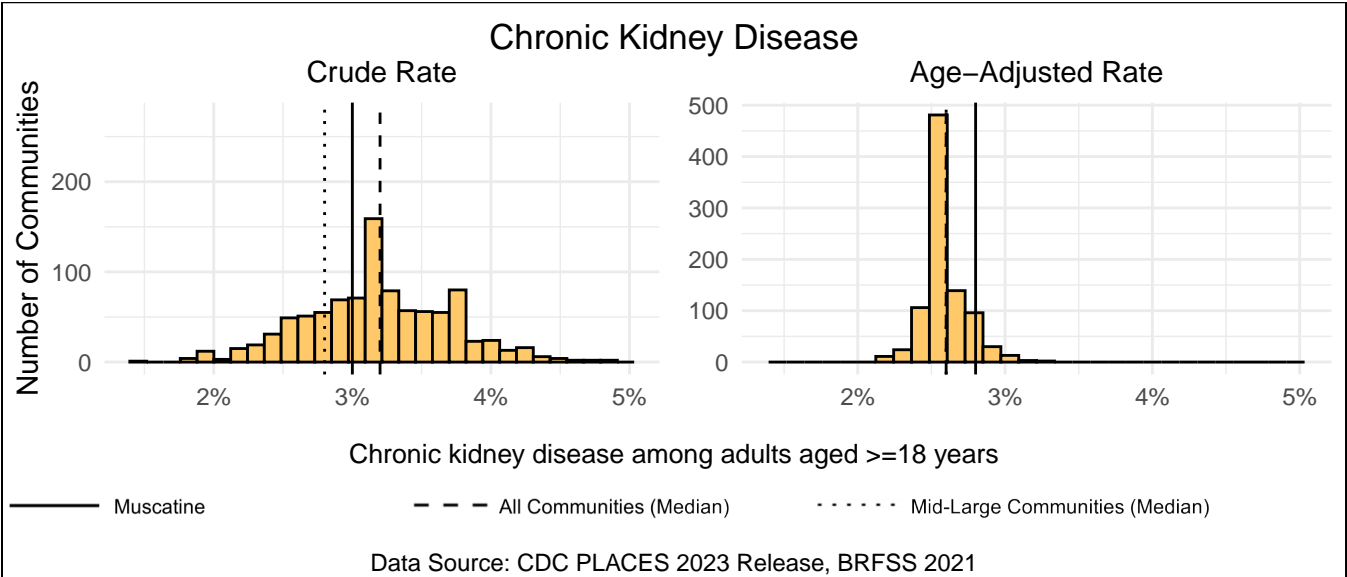
Measure Type	Muscatine	All Comm.	Mid-Large Comm.
Crude	32.9%	36.2%	34.5%
Age-Adjusted	28.8%	29.7%	30.3%



Chronic Kidney Disease

Muscatine has a crude rate of 3.0% for chronic kidney disease among adults aged >=18 years, which ranks 310th out of 958 Iowa communities (17th out of 31 mid-large communities). The age-adjusted rate for Muscatine is 2.8%, which ranks 762nd out of 905 Iowa communities (23rd out of 31 mid-large communities).

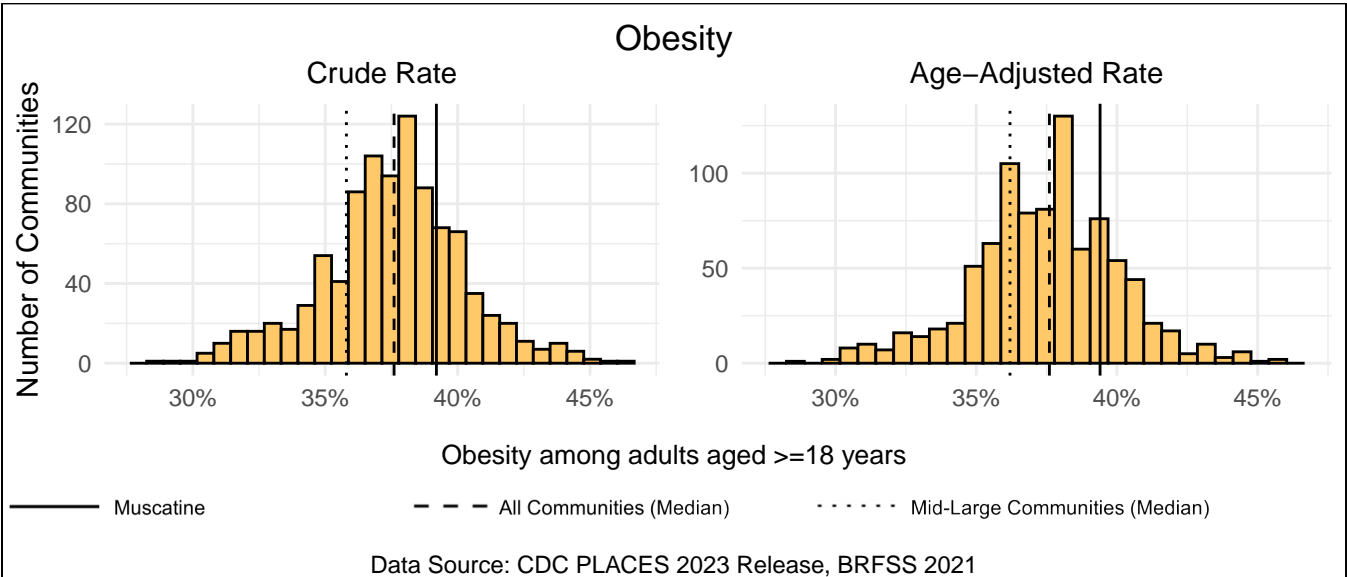
Measure Type	Muscatine	All Comm.	Mid-Large Comm.
Crude	3.0%	3.2%	2.8%
Age-Adjusted	2.8%	2.6%	2.6%



Obesity

Muscatine has a crude rate of 39.2% for obesity among adults aged >=18 years, which ranks 722nd out of 958 Iowa communities (27th out of 31 mid-large communities). The age-adjusted rate for Muscatine is 39.4%, which ranks 702nd out of 905 Iowa communities (26th out of 31 mid-large communities).

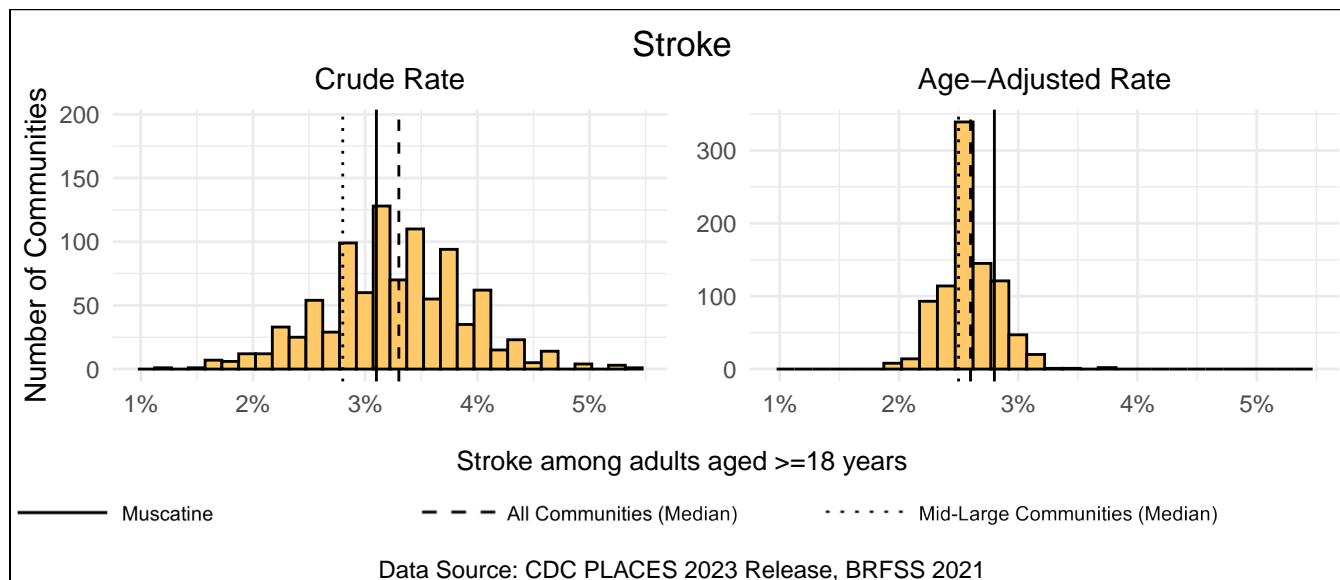
Measure Type	Muscatine	All Comm.	Mid-Large Comm.
Crude	39.2%	37.6%	35.8%
Age-Adjusted	39.4%	37.6%	36.2%



Stroke

Muscatine has a crude rate of 3.1% for stroke among adults aged ≥ 18 years, which ranks 340th out of 958 Iowa communities (17th out of 31 mid-large communities). The age-adjusted rate for Muscatine is 2.8%, which ranks 714th out of 905 Iowa communities (22nd out of 31 mid-large communities).

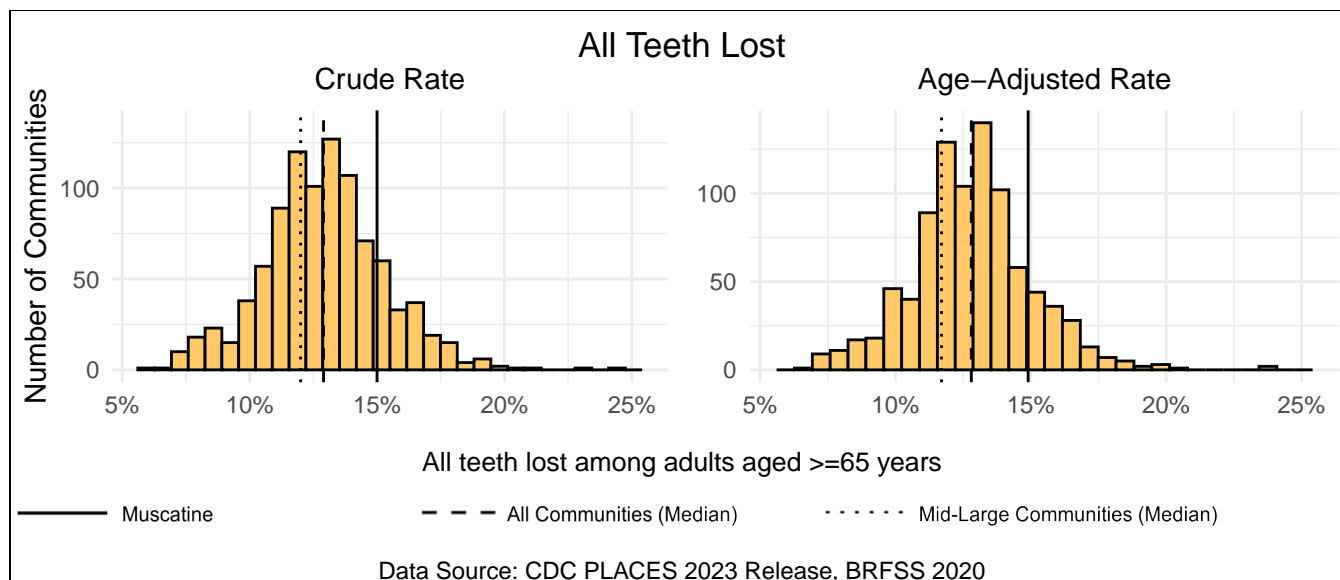
Measure Type	Muscatine	All Comm.	Mid-Large Comm.
Crude	3.1%	3.3%	2.8%
Age-Adjusted	2.8%	2.6%	2.5%



All Teeth Lost

Muscatine has a crude rate of 15.0% for all teeth lost among adults aged ≥ 65 years, which ranks 786th out of 958 Iowa communities (22nd out of 31 mid-large communities). The age-adjusted rate for Muscatine is 14.9%, which ranks 765th out of 905 Iowa communities (23rd out of 31 mid-large communities).

Measure Type	Muscatine	All Comm.	Mid-Large Comm.
Crude	15.0%	12.9%	12.0%
Age-Adjusted	14.9%	12.8%	11.7%



Prevention

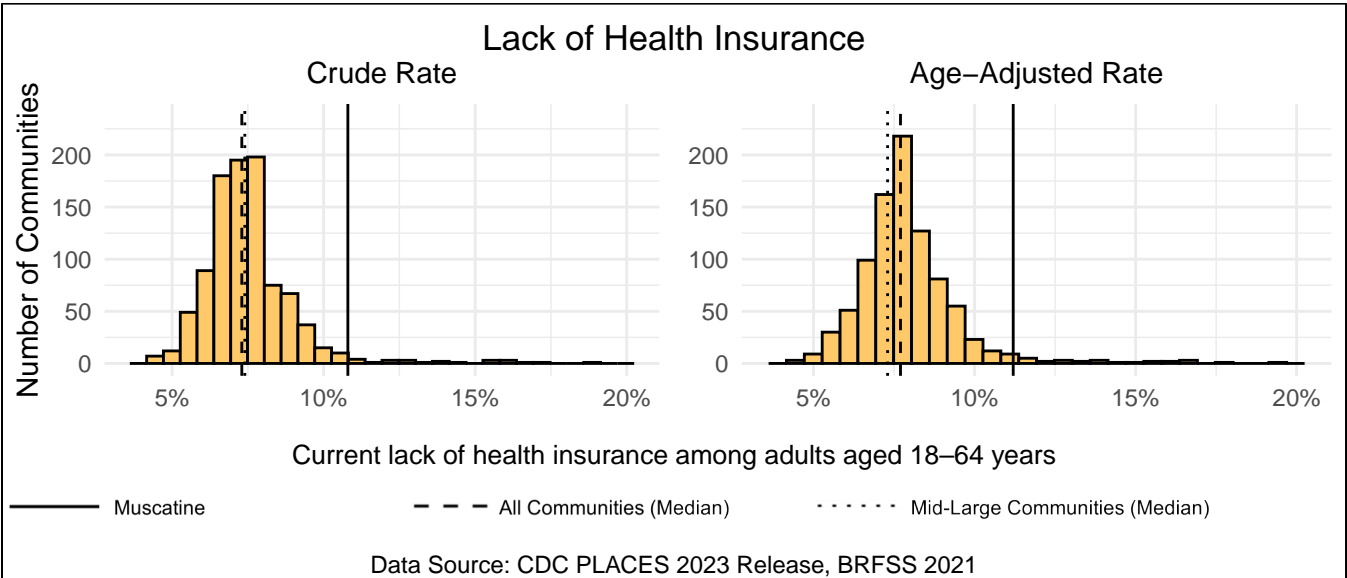
Preventive measures are another practical intervention point for public health professionals as they allow for the early detection of health conditions and improve overall treatment efficacy. This section includes a review of your community’s prevention measures, including preventive screenings and doctor visits. Besides the measure for lack of health insurance, all measures in this section are positive, where a higher rate is a strength for your community. The link below includes more information about each variable.

<https://www.cdc.gov/places/measure-definitions/prevention/index.html>

Lack of Health Insurance

Muscatine has a crude rate of 10.8% for current lack of health insurance among adults aged 18–64 years, which ranks 933rd out of 958 Iowa communities (28th out of 31 mid-large communities). The age-adjusted rate for Muscatine is 11.2%, which ranks 877th out of 905 Iowa communities (28th out of 31 mid-large communities).

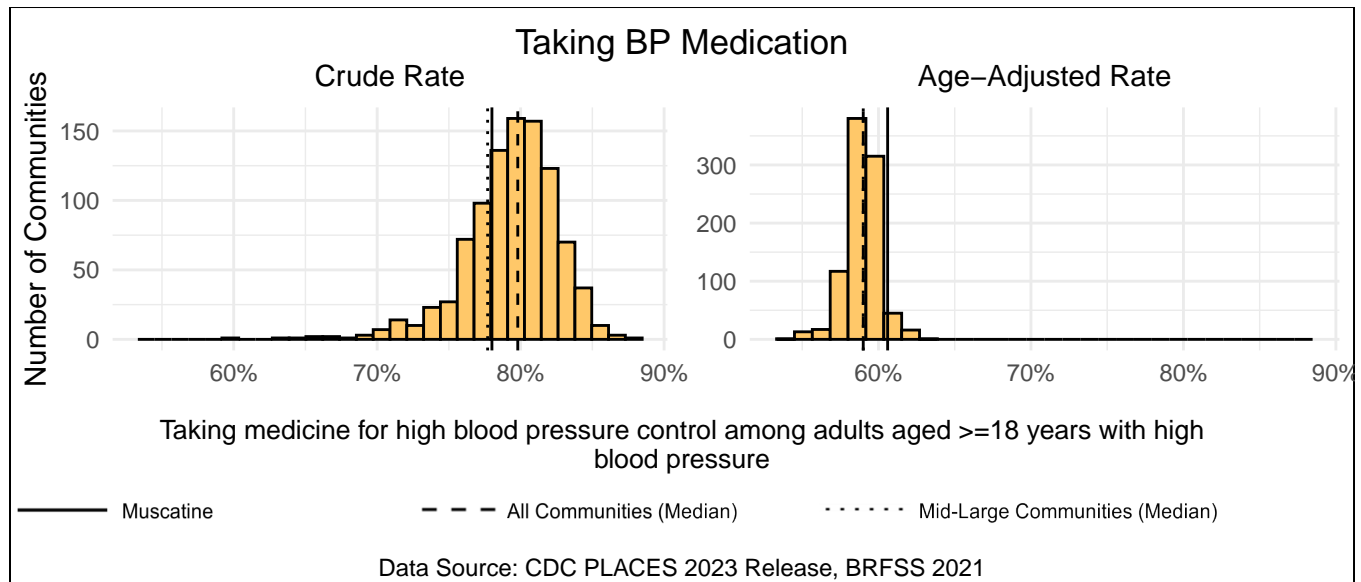
Measure Type	Muscatine	All Comm.	Mid-Large Comm.
Crude	10.8%	7.3%	7.4%
Age-Adjusted	11.2%	7.7%	7.3%



Taking BP Medication

Muscatine has a crude rate of 78.0% for taking medicine for high blood pressure control among adults aged ≥ 18 years with high blood pressure, which ranks 685th out of 958 Iowa communities (15th out of 31 mid-large communities). The age-adjusted rate for Muscatine is 60.6%, which ranks 50th out of 905 Iowa communities (5th out of 31 mid-large communities).

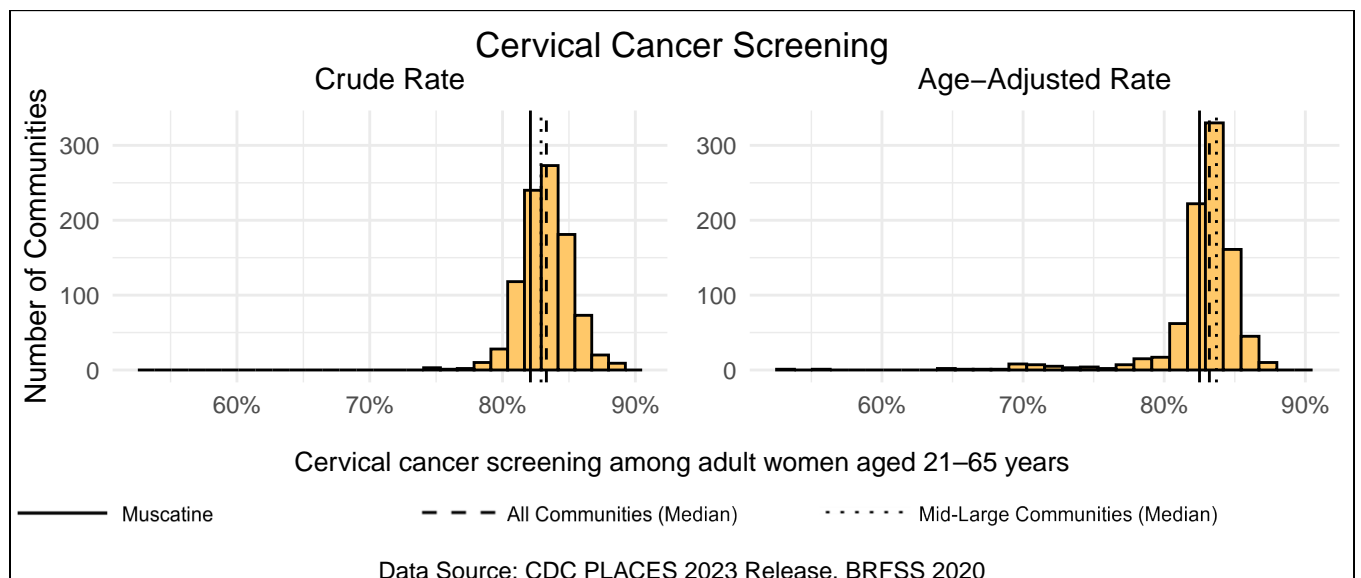
Measure Type	Muscatine	All Comm.	Mid-Large Comm.
Crude	78.0%	79.8%	77.7%
Age-Adjusted	60.6%	59.0%	59.0%



Cervical Cancer Screening

Muscatine has a crude rate of 82.1% for cervical cancer screening among adult women aged 21–65 years, which ranks 728th out of 958 Iowa communities (18th out of 31 mid-large communities). The age-adjusted rate for Muscatine is 82.5%, which ranks 639th out of 905 Iowa communities (21st out of 31 mid-large communities).

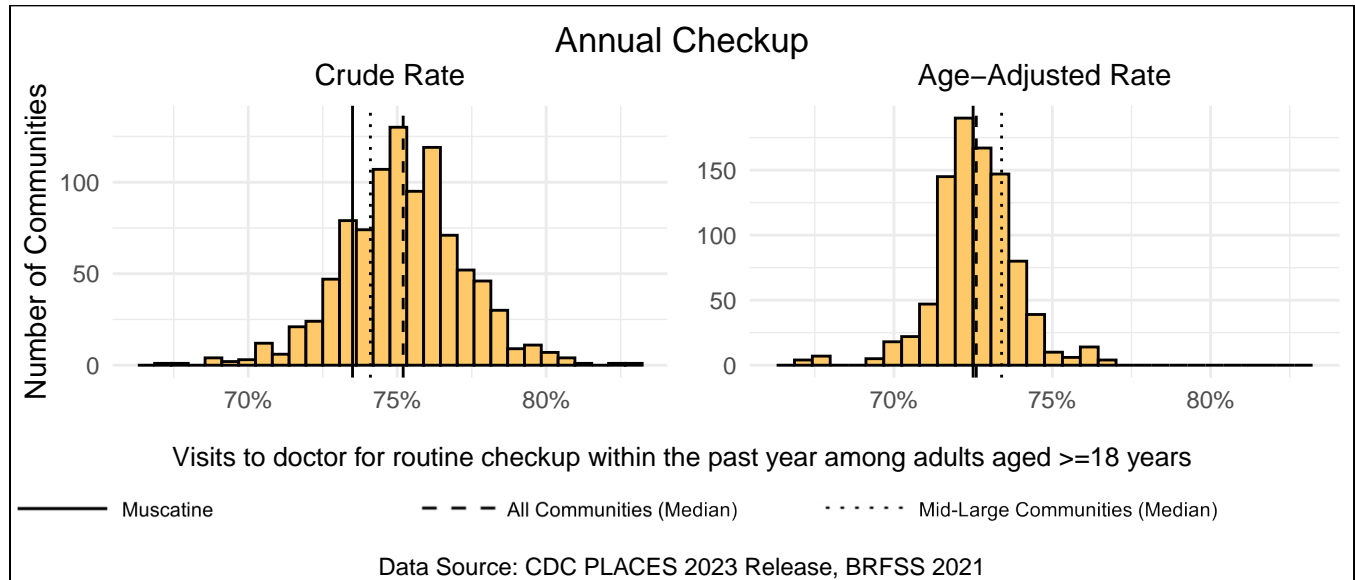
Measure Type	Muscatine	All Comm.	Mid-Large Comm.
Crude	82.1%	83.3%	82.9%
Age-Adjusted	82.5%	83.2%	83.7%



Annual Checkup

Muscatine has a crude rate of 73.5% for visits to doctor for routine checkup within the past year among adults aged ≥ 18 years, which ranks 771st out of 958 Iowa communities (20th out of 31 mid-large communities). The age-adjusted rate for Muscatine is 72.5%, which ranks 468th out of 905 Iowa communities (20th out of 31 mid-large communities).

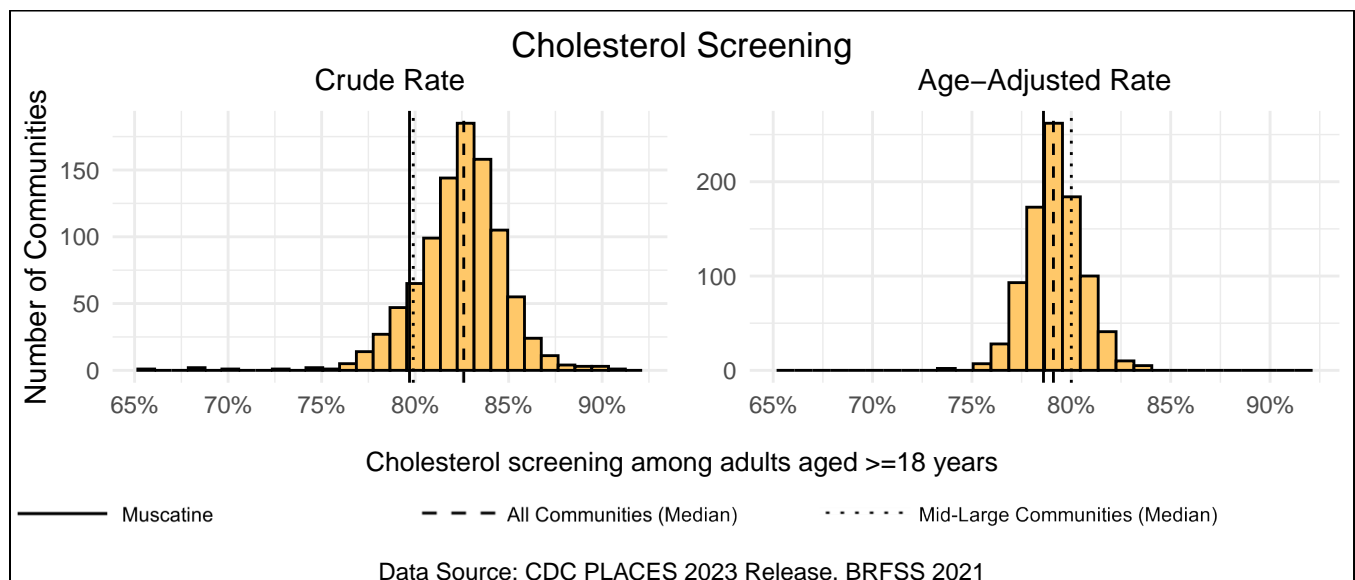
Measure Type	Muscatine	All Comm.	Mid-Large Comm.
Crude	73.5%	75.2%	74.1%
Age-Adjusted	72.5%	72.6%	73.4%



Cholesterol Screening

Muscatine has a crude rate of 79.7% for cholesterol screening among adults aged ≥ 18 years, which ranks 843rd out of 958 Iowa communities (18th out of 31 mid-large communities). The age-adjusted rate for Muscatine is 78.6%, which ranks 603rd out of 905 Iowa communities (21st out of 31 mid-large communities).

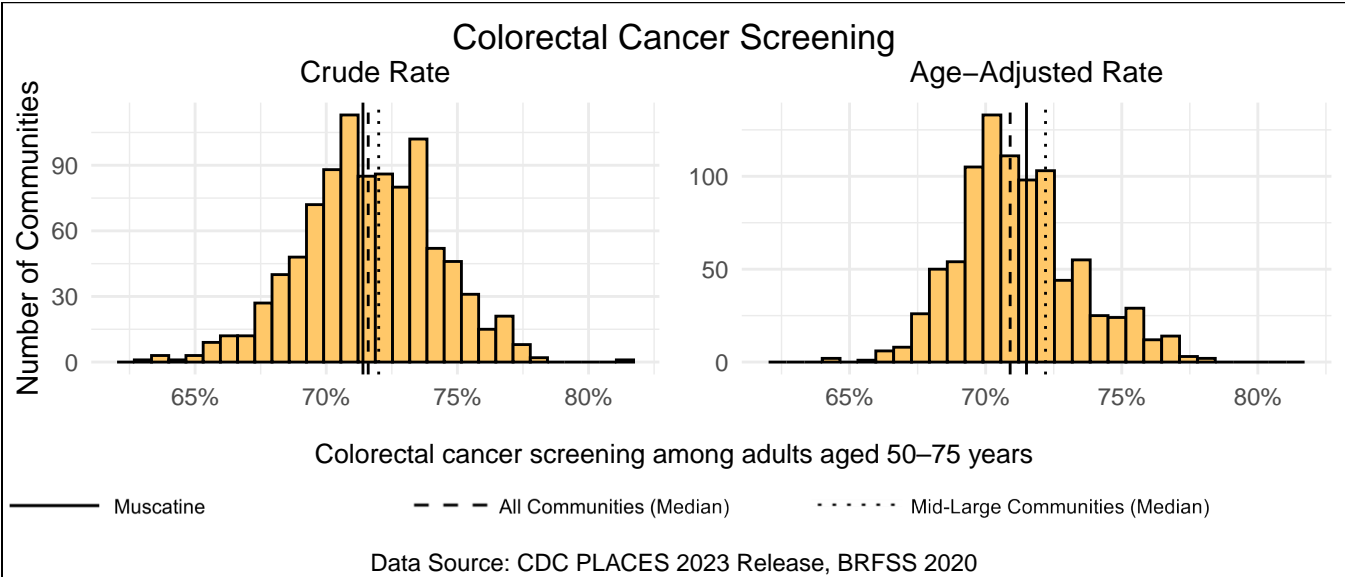
Measure Type	Muscatine	All Comm.	Mid-Large Comm.
Crude	79.7%	82.6%	79.9%
Age-Adjusted	78.6%	79.1%	80.0%



Colorectal Cancer Screening

Muscatine has a crude rate of 71.4% for colorectal cancer screening among adults aged 50–75 years, which ranks 501st out of 958 Iowa communities (19th out of 31 mid-large communities). The age-adjusted rate for Muscatine is 71.5%, which ranks 361st out of 905 Iowa communities (19th out of 31 mid-large communities).

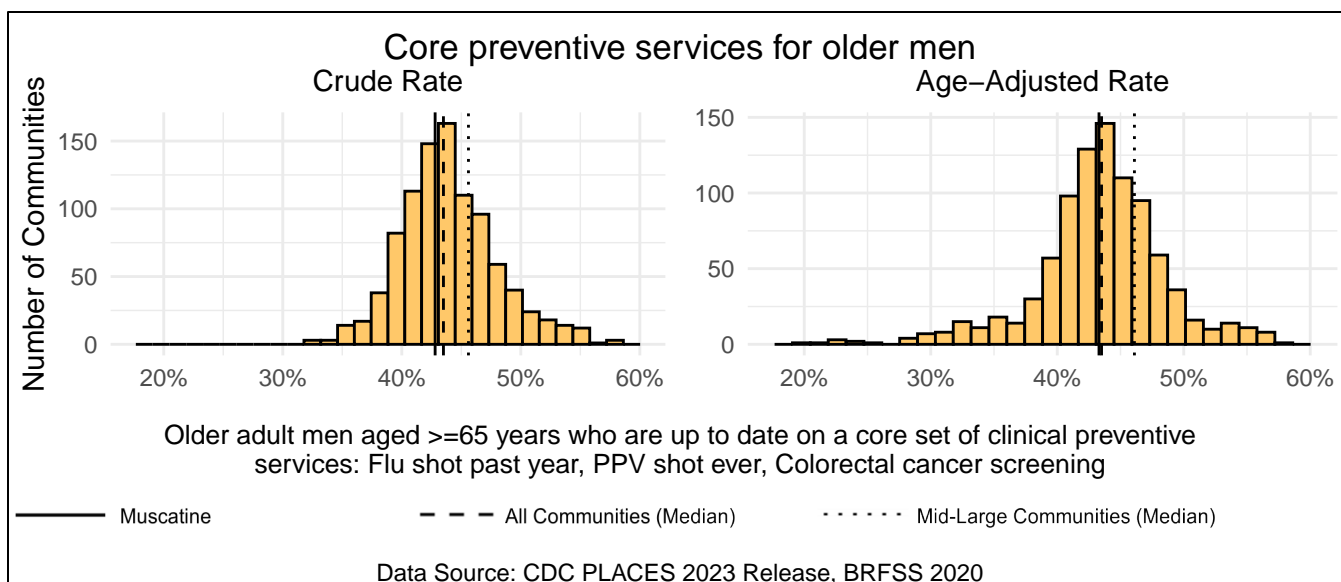
Measure Type	Muscatine	All Comm.	Mid-Large Comm.
Crude	71.4%	71.6%	72.0%
Age-Adjusted	71.5%	70.9%	72.2%



Core preventive services for older men

Muscatine has a crude rate of 42.8% for older adult men aged ≥65 years who are up to date on a core set of clinical preventive services: flu shot past year, ppv shot ever, colorectal cancer screening, which ranks 566th out of 958 Iowa communities (24th out of 31 mid-large communities). The age-adjusted rate for Muscatine is 43.3%, which ranks 469th out of 905 Iowa communities (23rd out of 31 mid-large communities).

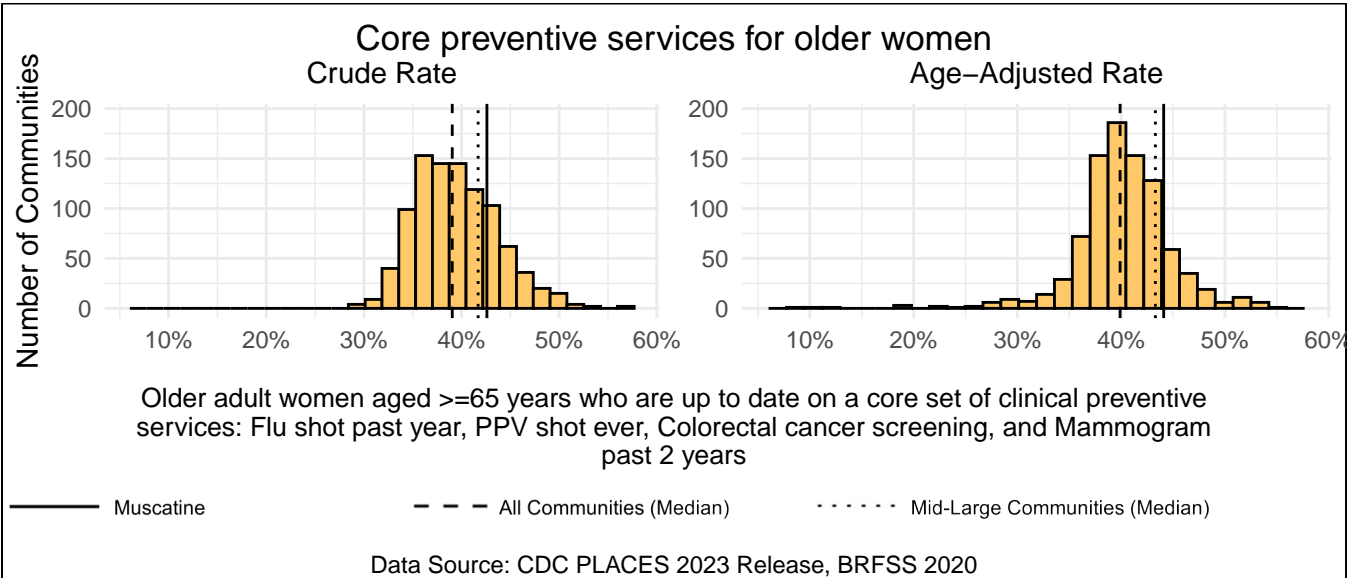
Measure Type	Muscatine	All Comm.	Mid-Large Comm.
Crude	42.8%	43.5%	45.6%
Age-Adjusted	43.3%	43.5%	46.1%



Core preventive services for older women

Muscatine has a crude rate of 42.6% for older adult women aged ≥ 65 years who are up to date on a core set of clinical preventive services: flu shot past year, ppv shot ever, colorectal cancer screening, and mammogram past 2 years, which ranks 210th out of 958 Iowa communities (11th out of 31 mid-large communities). The age-adjusted rate for Muscatine is 44.1%, which ranks 131st out of 905 Iowa communities (13th out of 31 mid-large communities).

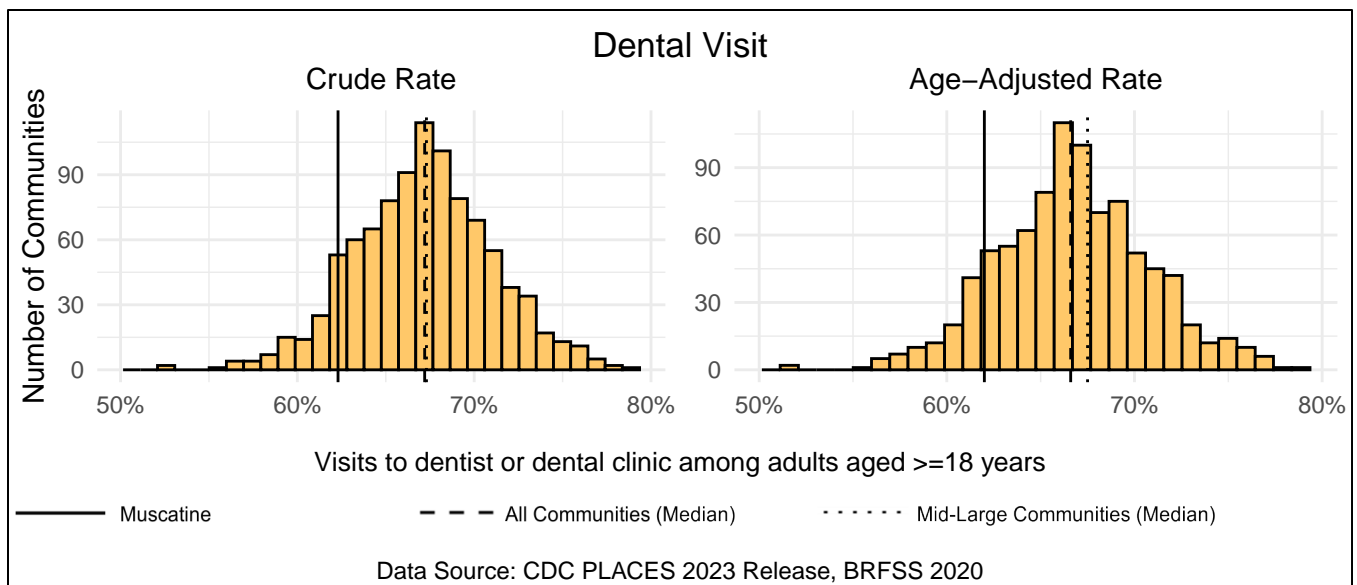
Measure Type	Muscatine	All	Mid-Large
		Comm.	Comm.
Crude	42.6%	39.0%	41.7%
Age-Adjusted	44.1%	39.9%	43.3%



Dental Visit

Muscatine has a crude rate of 62.3% for visits to dentist or dental clinic among adults aged ≥ 18 years, which ranks 865th out of 958 Iowa communities (24th out of 31 mid-large communities). The age-adjusted rate for Muscatine is 62.0%, which ranks 797th out of 905 Iowa communities (24th out of 31 mid-large communities).

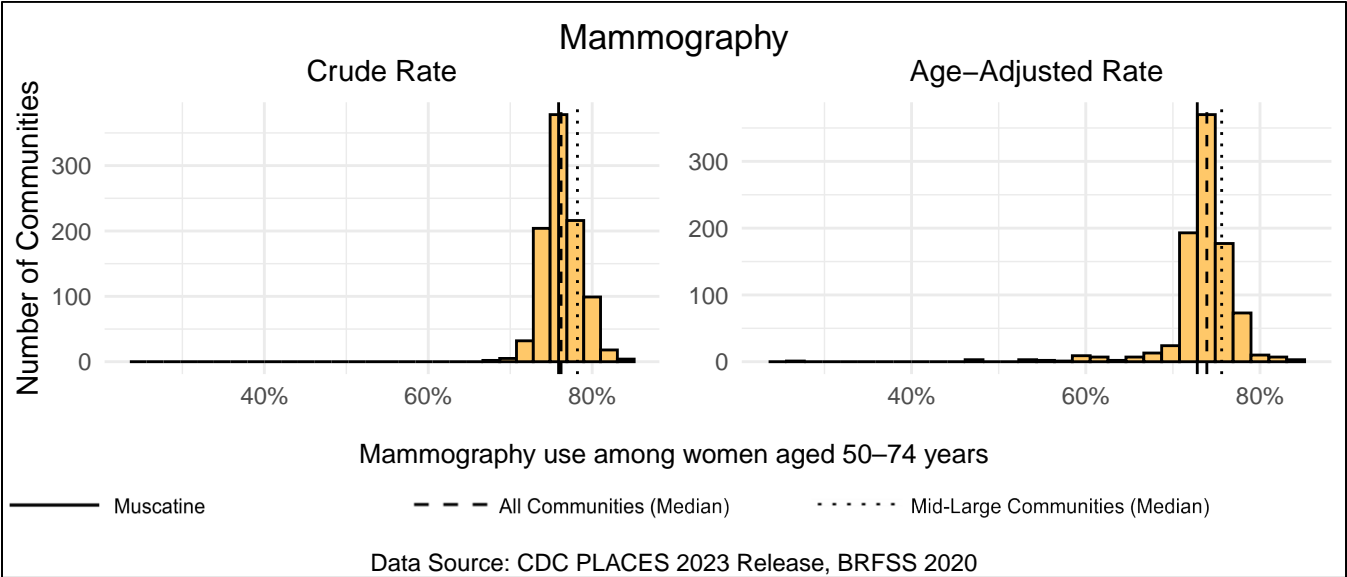
Measure Type	Muscatine	All	Mid-Large
		Comm.	Comm.
Crude	62.3%	67.2%	67.3%
Age-Adjusted	62.0%	66.6%	67.5%



Mammography

Muscatine has a crude rate of 75.9% for mammography use among women aged 50–74 years, which ranks 534th out of 958 Iowa communities (25th out of 31 mid-large communities). The age-adjusted rate for Muscatine is 72.8%, which ranks 641st out of 905 Iowa communities (25th out of 31 mid-large communities).

Measure Type	Muscatine	All Comm.	Mid-Large Comm.
Crude	75.9%	76.2%	78.2%
Age-Adjusted	72.8%	73.9%	75.6%



Disability

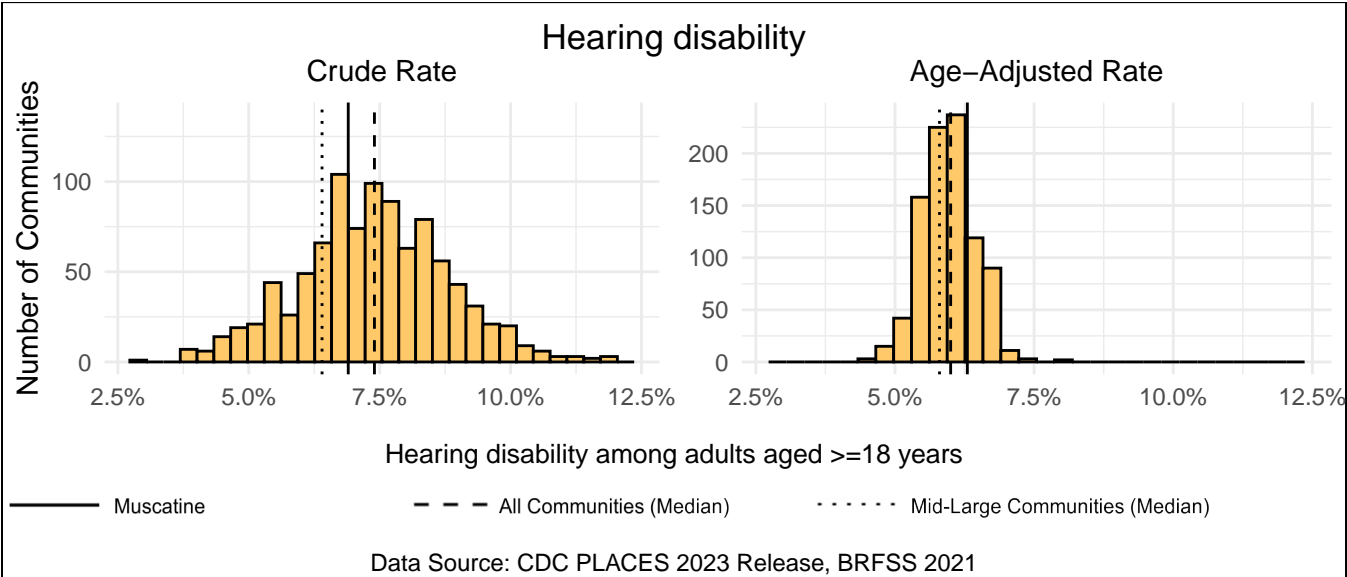
This section includes measures of physical and cognitive disabilities. Respondents were asked to report on six disabilities: hearing, vision, cognition, mobility, self-care, and independent living. The final measure reports the rate of respondents that answered yes to any of the previous six disabilities. The link below includes more information about each variable.

<https://www.cdc.gov/places/measure-definitions/unhealthy-behaviors/index.html>

Hearing disability

Muscatine has a crude rate of 6.9% for hearing disability among adults aged ≥ 18 years, which ranks 333rd out of 958 Iowa communities (17th out of 31 mid-large communities). The age-adjusted rate for Muscatine is 6.3%, which ranks 681st out of 905 Iowa communities (23rd out of 31 mid-large communities).

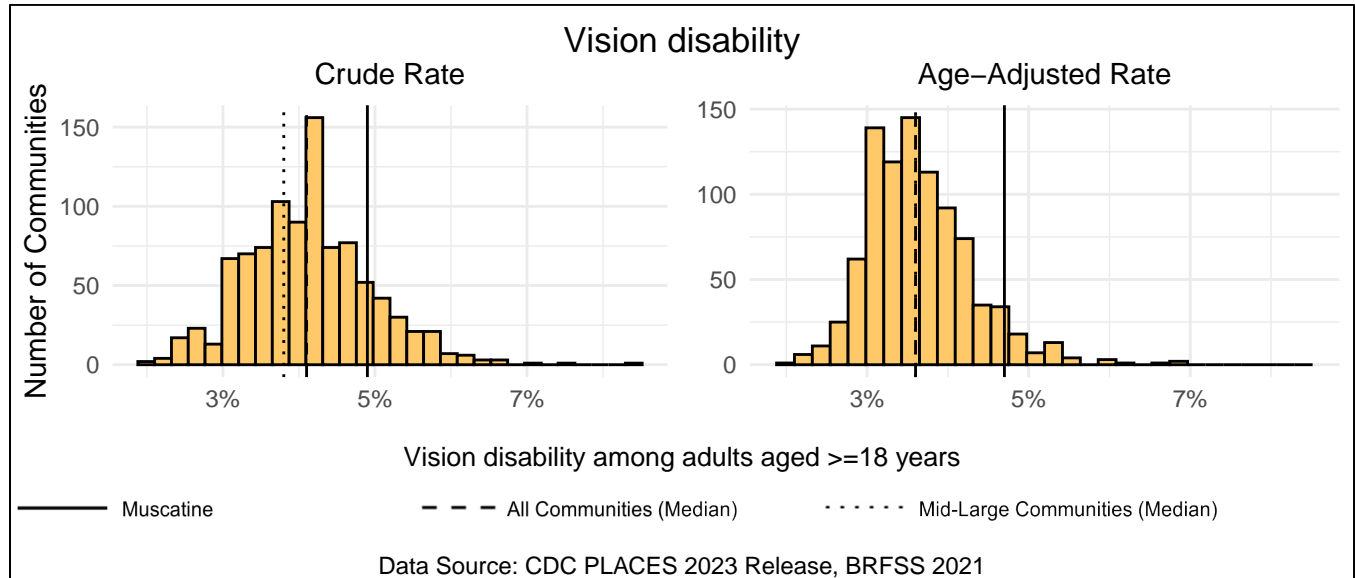
Measure Type	Muscatine	All Comm.	Mid-Large Comm.
Crude	6.9%	7.4%	6.4%
Age-Adjusted	6.3%	6.0%	5.8%



Vision disability

Muscatine has a crude rate of 4.9% for vision disability among adults aged ≥ 18 years, which ranks 805th out of 958 Iowa communities (23rd out of 31 mid-large communities). The age-adjusted rate for Muscatine is 4.7%, which ranks 837th out of 905 Iowa communities (23rd out of 31 mid-large communities).

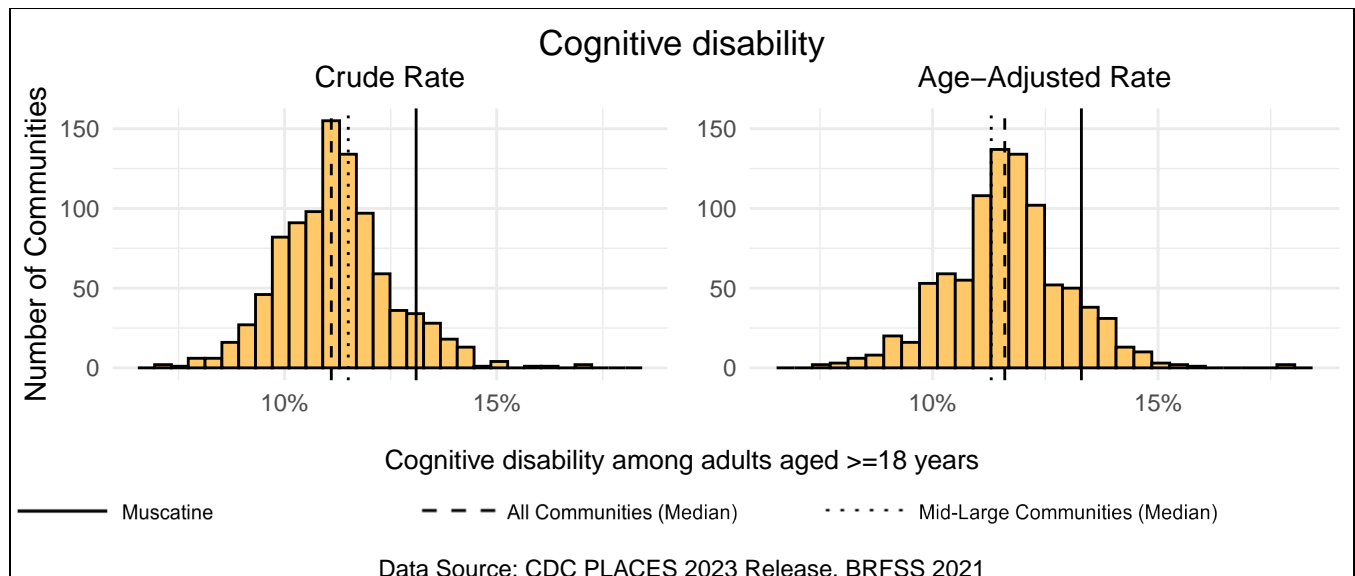
Measure Type	Muscatine	All Comm.	Mid-Large Comm.
Crude	4.9%	4.1%	3.8%
Age-Adjusted	4.7%	3.6%	3.6%



Cognitive disability

Muscatine has a crude rate of 13.1% for cognitive disability among adults aged ≥ 18 years, which ranks 871st out of 958 Iowa communities (22nd out of 31 mid-large communities). The age-adjusted rate for Muscatine is 13.3%, which ranks 806th out of 905 Iowa communities (23rd out of 31 mid-large communities).

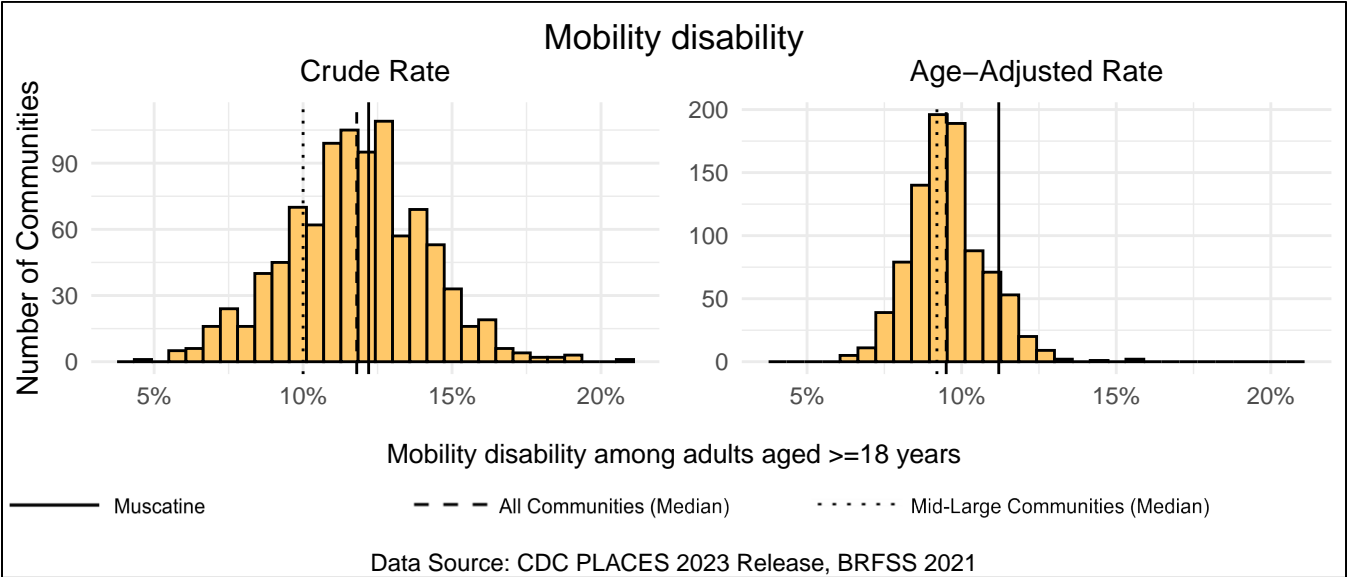
Measure Type	Muscatine	All Comm.	Mid-Large Comm.
Crude	13.1%	11.1%	11.5%
Age-Adjusted	13.3%	11.6%	11.3%



Mobility disability

Muscatine has a crude rate of 12.2% for mobility disability among adults aged ≥ 18 years, which ranks 549th out of 958 Iowa communities (21st out of 31 mid-large communities). The age-adjusted rate for Muscatine is 11.2%, which ranks 812th out of 905 Iowa communities (23rd out of 31 mid-large communities).

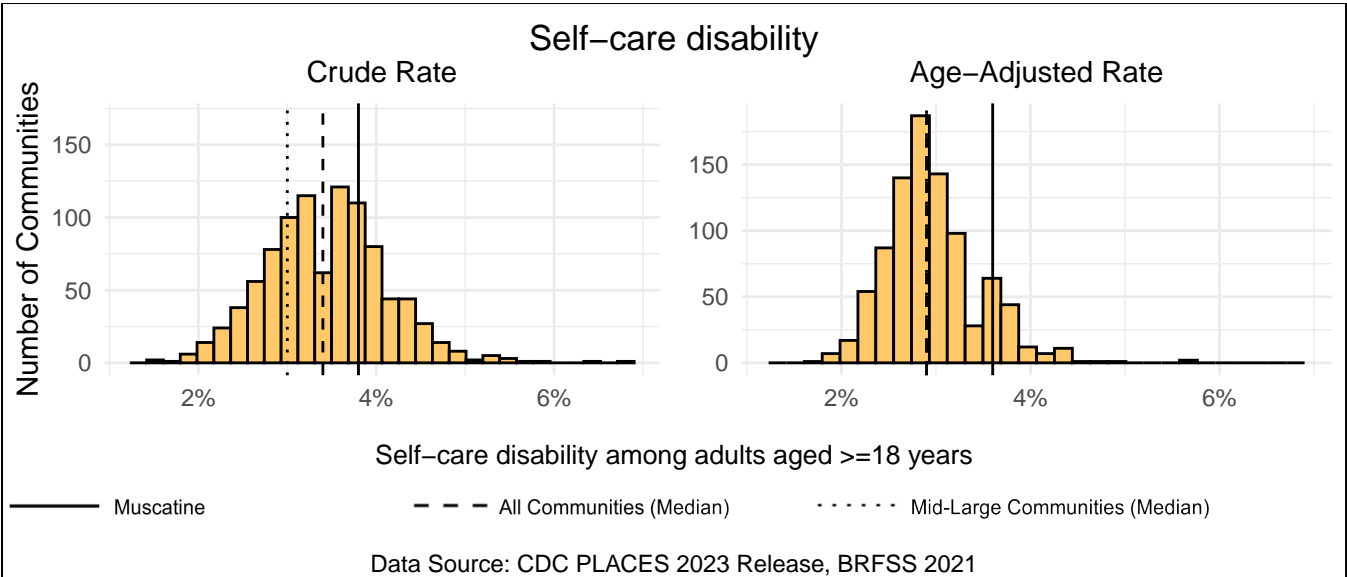
Measure Type	Muscatine	All Comm.	Mid-Large Comm.
Crude	12.2%	11.8%	10.0%
Age-Adjusted	11.2%	9.5%	9.2%



Self-care disability

Muscatine has a crude rate of 3.8% for self-care disability among adults aged ≥ 18 years, which ranks 676th out of 958 Iowa communities (22nd out of 31 mid-large communities). The age-adjusted rate for Muscatine is 3.6%, which ranks 798th out of 905 Iowa communities (23rd out of 31 mid-large communities).

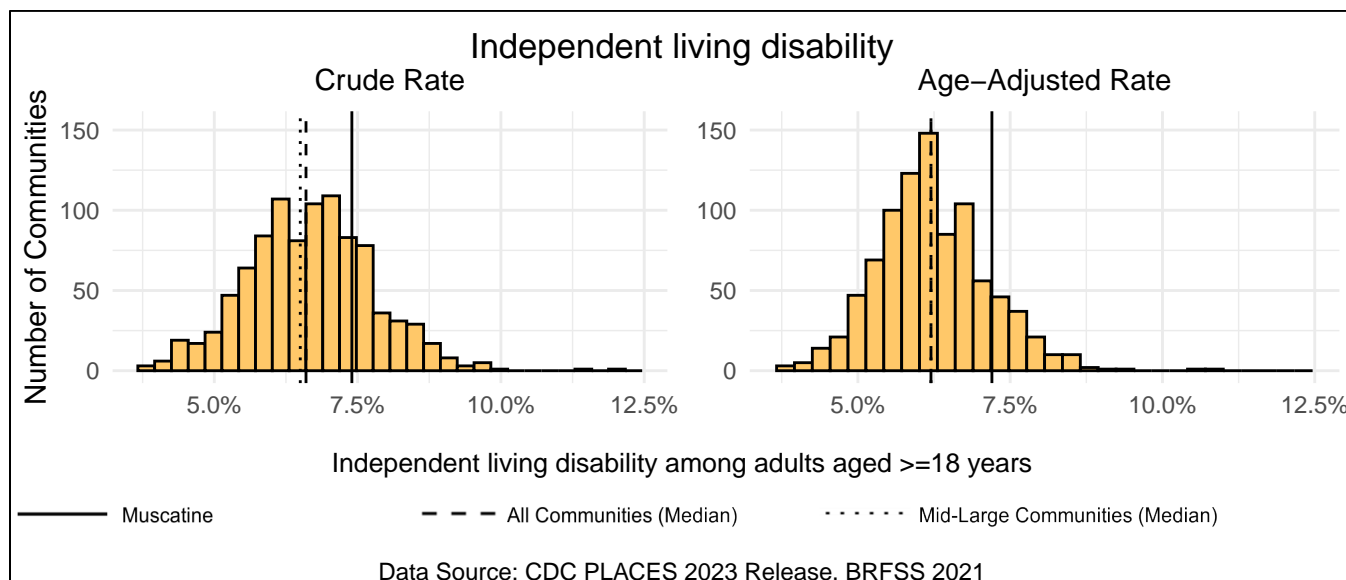
Measure Type	Muscatine	All Comm.	Mid-Large Comm.
Crude	3.8%	3.4%	3.0%
Age-Adjusted	3.6%	2.9%	2.9%



Independent living disability

Muscatine has a crude rate of 7.4% for independent living disability among adults aged ≥ 18 years, which ranks 724th out of 958 Iowa communities (22nd out of 31 mid-large communities). The age-adjusted rate for Muscatine is 7.2%, which ranks 776th out of 905 Iowa communities (23rd out of 31 mid-large communities).

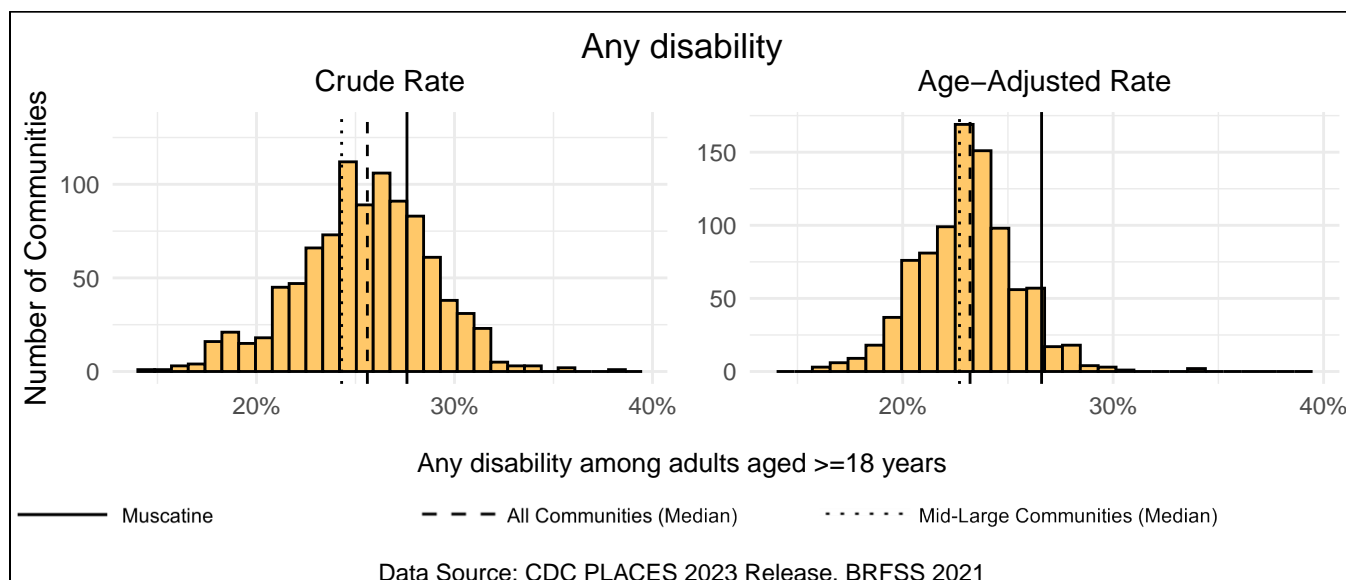
Measure Type	Muscatine	All Comm.	Mid-Large Comm.
Crude	7.4%	6.6%	6.5%
Age-Adjusted	7.2%	6.2%	6.2%



Any disability

Muscatine has a crude rate of 27.6% for any disability among adults aged ≥ 18 years, which ranks 709th out of 958 Iowa communities (22nd out of 31 mid-large communities). The age-adjusted rate for Muscatine is 26.6%, which ranks 845th out of 905 Iowa communities (25th out of 31 mid-large communities).

Measure Type	Muscatine	All Comm.	Mid-Large Comm.
Crude	27.6%	25.6%	24.3%
Age-Adjusted	26.6%	23.2%	22.7%



Appendix 1: CDC PLACES Data

This report uses a novel dataset from the Centers for Disease Control and Prevention (CDC) called PLACES: Local Data for Better Health. The PLACES dataset uses small area estimation methods to provide estimates of health measures for counties, places, census tracts, and zip code tabulation areas. The estimates are created with a multilevel statistical modeling framework that utilizes CDC's Behavioral Risk Factor Surveillance System (BRFSS), Census population counts, and American Community Survey demographic and socioeconomic data.

Relevant links for CDC PLACES can be found below:

- [PLACES Homepage](#)
- [Measure Definitions](#)
- [Methodology](#)



Appendix 2: Muscatine PLACES Data

Category	Health Domain	Crude Rate Rank	Crude Rate (95% CI)	Age-Adj. Rate Rank	Age-Adj. Rate (95% CI)
Health Status	General Health	770	16.0% (14.2% - 18.0%)	817	15.4% (13.5% - 17.3%)
Health Status	Mental Health	886	16.1% (14.1% - 18.2%)	765	16.5% (14.4% - 18.6%)
Health Status	Physical Health	568	11.1% (9.7% - 12.5%)	742	10.6% (9.4% - 12.0%)
Health Risk Behaviors	Current Smoking	747	18.3% (15.6% - 21.2%)	649	18.6% (15.8% - 21.5%)
Health Risk Behaviors	Binge Drinking	356	18.8% (15.7% - 22.3%)	21	19.6% (16.3% - 23.3%)
Health Risk Behaviors	Sleep <7 hours	880	32.5% (32.0% - 33.2%)	826	32.9% (32.3% - 33.5%)
Health Risk Behaviors	Physical Inactivity	678	27.6% (23.7% - 32.0%)	777	27.1% (23.1% - 31.4%)
Health Outcomes	Arthritis	127	23.7% (20.5% - 27.2%)	163	22.0% (18.9% - 25.4%)
Health Outcomes	Diabetes	416	9.9% (8.6% - 11.4%)	760	9.1% (7.9% - 10.6%)
Health Outcomes	High Blood Pressure	223	29.6% (26.1% - 33.4%)	572	27.8% (24.4% - 31.5%)
Health Outcomes	Obesity	722	39.2% (33.1% - 45.9%)	702	39.4% (33.2% - 46.1%)
Health Outcomes	All Teeth Lost	786	15.0% (12.7% - 17.4%)	765	14.9% (12.7% - 17.3%)
Health Outcomes	Cancer (except skin)	204	7.1% (6.4% - 7.8%)	418	6.5% (5.8% - 7.1%)
Health Outcomes	High Cholesterol	105	32.9% (29.0% - 37.2%)	114	28.8% (24.9% - 32.9%)
Health Outcomes	Chronic Kidney Disease	310	3.0% (2.7% - 3.2%)	762	2.8% (2.5% - 3.0%)
Health Outcomes	Current Asthma	716	9.6% (8.5% - 10.8%)	513	9.6% (8.5% - 10.8%)
Health Outcomes	Depression	895	20.3% (17.1% - 23.9%)	824	20.6% (17.2% - 24.3%)
Health Outcomes	Stroke	340	3.1% (2.8% - 3.3%)	714	2.8% (2.6% - 3.0%)
Health Outcomes	Coronary Heart Disease	300	5.9% (5.2% - 6.6%)	674	5.3% (4.7% - 5.9%)
Health Outcomes	COPD	423	7.3% (6.5% - 8.4%)	699	6.8% (6.0% - 7.7%)
Prevention	Mammography	534	75.9% (74.2% - 77.5%)	641	72.8% (71.1% - 74.6%)
Prevention	Health Insurance	933	10.8% (9.3% - 12.5%)	877	11.2% (9.7% - 12.8%)
Prevention	Core preventive services for older men	566	42.8% (39.4% - 46.1%)	469	43.3% (39.8% - 46.6%)
Prevention	Cervical Cancer Screening	728	82.1% (81.2% - 83.0%)	639	82.5% (81.5% - 83.3%)
Prevention	Annual Checkup	771	73.5% (68.9% - 78.1%)	468	72.5% (67.8% - 77.2%)
Prevention	Taking BP Medication	685	78.0% (74.7% - 81.1%)	50	60.6% (55.8% - 65.5%)

Category	Health Domain	Crude Rate Rank	Crude Rate (95% CI)	Age-Adj. Rate Rank	Age-Adj. Rate (95% CI)
Prevention	Dental Visit	865	62.3% (60.9% - 63.6%)	797	62.0% (60.6% - 63.4%)
Prevention	Colorectal Cancer Screening	501	71.4% (70.2% - 72.7%)	361	71.5% (70.3% - 72.8%)
Prevention	Cholesterol Screening	843	79.7% (76.7% - 82.6%)	603	78.6% (75.4% - 81.6%)
Prevention	Core preventive services for older women	210	42.6% (39.5% - 45.7%)	131	44.1% (41.2% - 47.2%)
Disability	Cognitive Disability	871	13.1% (11.7% - 14.8%)	806	13.3% (11.7% - 14.9%)
Disability	Self-care Disability	676	3.8% (3.5% - 4.2%)	798	3.6% (3.3% - 3.9%)
Disability	Vision Disability	805	4.9% (4.4% - 5.4%)	837	4.7% (4.3% - 5.2%)
Disability	Any Disability	709	27.6% (24.4% - 31.1%)	845	26.6% (23.2% - 30.1%)
Disability	Hearing Disability	333	6.9% (6.2% - 7.7%)	681	6.3% (5.7% - 7.1%)
Disability	Independent Living Disability	724	7.4% (6.7% - 8.3%)	776	7.2% (6.4% - 8.0%)
Disability	Mobility Disability	549	12.2% (10.7% - 13.9%)	812	11.2% (9.8% - 12.7%)

The 95% confidence interval shown in parentheses represents the range of 95% of CDC area estimates under different model assumptions using Monte Carlo simulations.

Appendix 3: Mid-Large Communities (10,000-49,999)

Muscatine falls into the group of mid-large communities, which have a population of 10,000-49,999. In this data, 31 communities have a population in this range. The table below lists all communities in that group, sorted by the population estimate in the CDC PLACES dataset.

Community	Population	Community	Population
Urbandale	45,591	Pleasant Hill	10,456
Marion	41,401	Waverly	10,399
Cedar Falls	40,686	Fort Madison	10,293
Bettendorf	38,997	Carroll	10,270
Marshalltown	27,511		
Mason City	27,271		
Ottumwa	25,359		
Waukeke	25,045		
Fort Dodge	24,850		
Clinton	24,524		
Burlington	23,976		
Johnston	23,856		
Muscatine	23,671		
Coralville	22,494		
North Liberty	20,393		
Altoona	20,017		
Clive	18,576		
Indianola	15,845		
Newton	15,692		
Grimes	15,402		
Norwalk	13,057		
Boone	12,482		
Oskaloosa	11,492		
Spencer	11,351		
Storm Lake	11,194		
Pella	10,556		
Le Mars	10,549		