



Iowa County Health Snapshot Series

*99 county reports prepared for the Iowa State University
Extension and Outreach Community and Economic
Development Unit*



May 2024

By Matthew Voss & Shawn Dorius

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.

Iowa County Health Snapshot Series

Table of contents

Health in Benton County: Overview	3
Strengths	3
Opportunities	4
How to Use this Report	5
Using Story County as an Example	6
Health Status	7
Poor General Health	7
Poor Physical Health	8
Poor Mental Health	8
Health Risk Behaviors	9
Binge Drinking	9
Current Smoking	10
Physical Inactivity	10
Sleep <7 hours	11
Health Outcomes	12
Arthritis	12
High Blood Pressure	13
Cancer (except skin)	13
Current Asthma	14
Coronary Heart Disease	14
COPD	15
Depression	15
Diabetes	16
High Cholesterol	16
Chronic Kidney Disease	17
Obesity	17
Stroke	18
All Teeth Lost	18
Prevention	19
Lack of Health Insurance	19
Taking BP Medication	20
Cervical Cancer Screening	20
Annual Checkup	21
Cholesterol Screening	21

Colorectal Cancer Screening	22
Core preventive services for older men	22
Core preventive services for older women	24
Dental Visit	24
Mammography	26
Disability	27
Hearing disability	27
Vision disability	28
Cognitive disability	28
Mobility disability	29
Self-care disability	29
Independent living disability	30
Any disability	30
Appendix 1: CDC PLACES Data	31
Appendix 2: Benton County PLACES Data	32
Appendix 3: Metropolitan Non-Core Counties	34
Appendix 4: County Maps	36

Health in Benton County: Overview

Dear Community Members & Stakeholders of Benton County,

We are pleased to share the Iowa County 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's 99 counties. The following pages include the health snapshot for your county. The snapshot can be used to see how Benton County ranks across various health measures compared to the rest of the state and similarly-sized counties. This comparison allows us to identify Benton County's strengths and opportunities for growth by leveraging data from 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 county ranks compared to all Iowa counties and counties of similar size to Benton County. 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 county and presents what the rate would be if your county had a standard age distribution. Crude rates can provide a general comparison between counties and age-adjusted rates can give a fairer comparison between counties with different age structures.

Strengths

Take a look at the top strengths of your county! Below are unadjusted and age-adjusted health measures that represent your county'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 County Rank	Metropolitan Non-Core County Rank	Health Domain	Statewide County Rank	Metropolitan Non-Core County Rank
Core preventive services for older women	10th	3rd	Annual Checkup	5th	1st
Health Insurance	13th	7th	Core preventive services for older women	10th	3rd
Annual Checkup	14th	1st	Stroke	11th	7th
Vision Disability	15th	7th	Vision Disability	11th	7th
Cervical Cancer Screening	16th	7th	Depression	13th	4th

Opportunities

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

Crude			Age-Adjusted		
Health Domain	Statewide County Rank	Metropolitan Non-Core County Rank	Health Domain	Statewide County Rank	Metropolitan Non-Core County Rank
Taking BP Medication	74th	7th	Taking BP Medication	92nd	9th
Sleep <7 hours	73rd	9th	Cancer (except skin)	88th	10th
Binge Drinking	73rd	5th	Binge Drinking	70th	4th
Obesity	64th	9th	Sleep <7 hours	66th	9th
Colorectal Cancer Screening	53rd	9th	Obesity	57th	10th

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

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 County Health Snapshot Series is to provide an overview of health in Benton County that can be used to help inform health-related interventions and programming. This report contains five sections, including the overall health status of Benton County, a review of risky behaviors in the county, 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 Benton County compares to the rest of the state and similarly-sized counties.

With a population of 25,691, Benton County’s similarly sized counties are defined as metropolitan non-core counties. In Iowa, metropolitan non-core counties have an average population of 29,821, and there are 12 counties that are considered metropolitan non-core counties. To learn more about the county population classifications used in this report, please see the information below the table as well as Appendix 3.

Group	Population Avg.	Number of Counties
Metropolitan Core	175,797	9
Micropolitan	30,839	15
Metropolitan Non-Core	29,821	12
Rural	12,547	63
Total		99

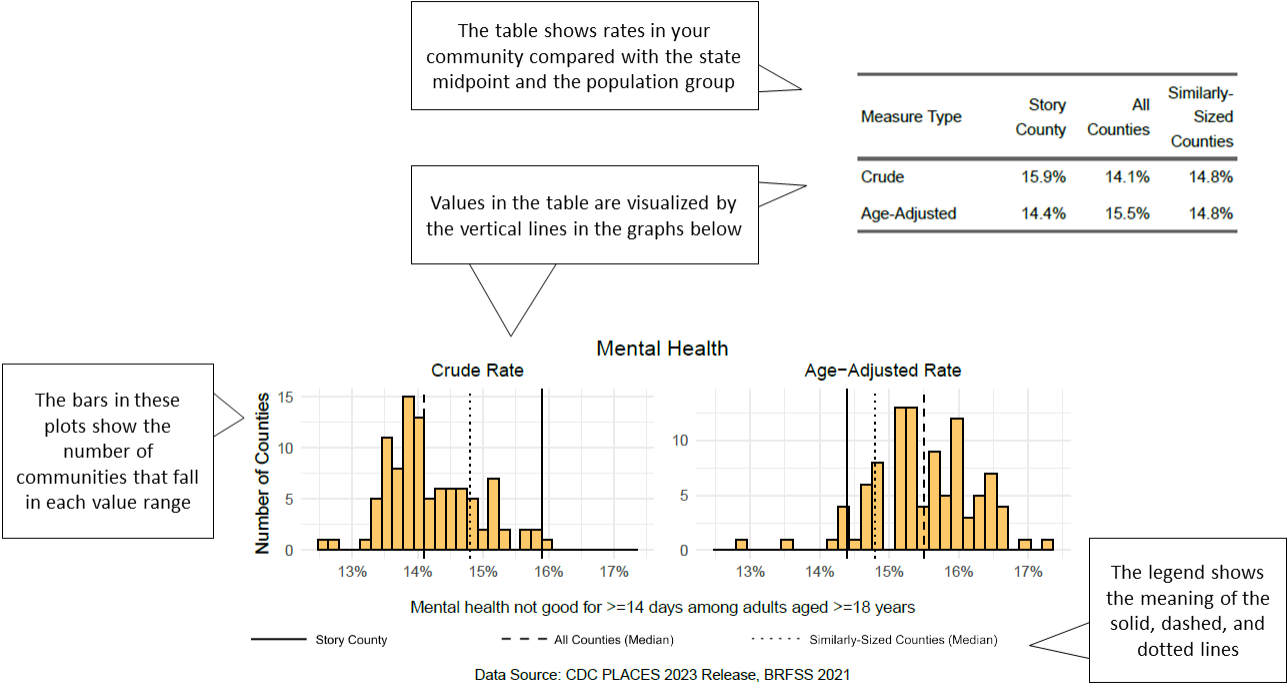
The counties included in each category above are determined by the United States Office of Management and Budget. Iowa has counties in nine metropolitan statistical areas and 15 micropolitan statistical areas. The counties identified as metropolitan and micropolitan can be found in the link and the maps below. Metropolitan core counties are those counties in metropolitan areas that have the city that defines the metropolitan area (e.g., Des Moines and Polk County for the Des Moines Metropolitan Area). Metropolitan non-core counties are those that fall within the metropolitan area, but do not have the core city of the metropolitan area (e.g., Dallas and Jasper Counties in the Des Moines Metropolitan Area).

<https://www.icip.iastate.edu/maps/refmaps/cofips>



Using Story County 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 county's crude and age-adjusted rate estimates alongside their averages across all Iowa counties and similarly-sized counties. The images below show the distribution of the health measure across counties. The vertical lines correspond with the values in the table to show the estimate for the specific county compared to counties across the state. The solid black line in each plot represents the county rate, with the dashed lines indicating the average rate for all Iowa counties and the dotted lines showing the average rate for similarly-sized counties.



The example graphic above displays the poor mental health rate in Story County, Iowa. The left plot shows the crude rate of poor mental health in the county. 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 Story County has a higher crude rate of poor mental health than most counties 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 counties, indicating that when accounting for Story County's unique age distribution, Story County'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

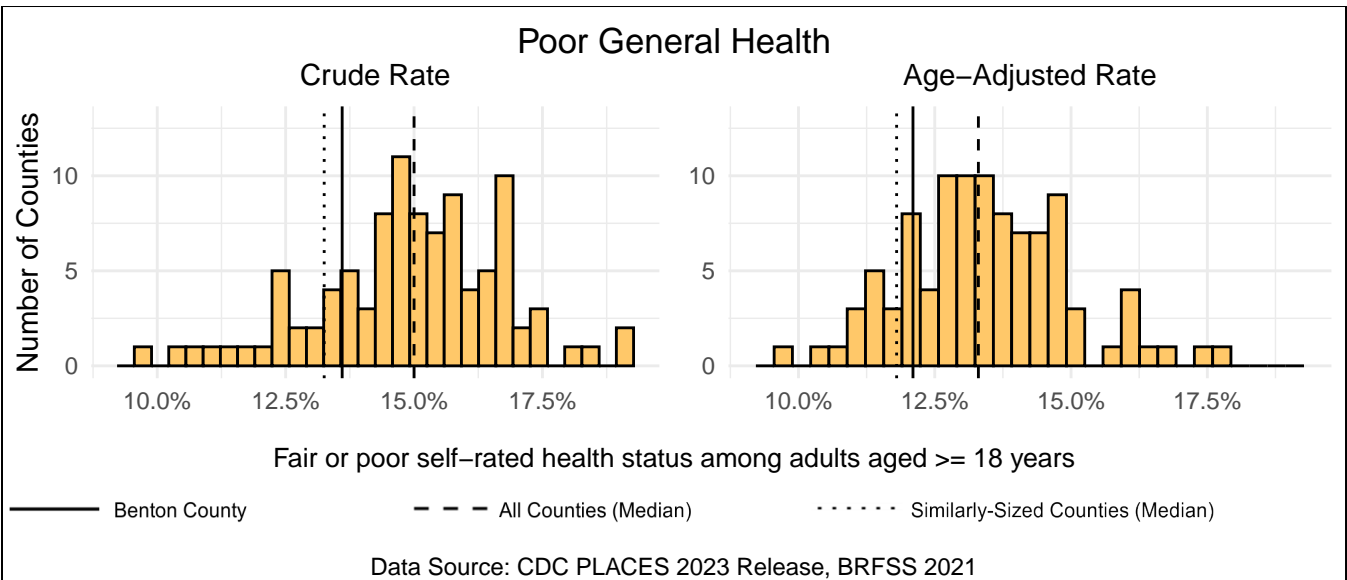
This section reflects measures for overall health, including general, physical, and mental health. These measures are a valuable way to see a simple summary of the health of a country’s population. The questions to calculate these measures ask respondents to evaluate their health status. General health 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

Benton County has a crude rate of 13.6% for fair or poor self-rated health status among adults aged >= 18 years, which ranks 21st out of 99 Iowa counties (7th out of 12 similarly-sized counties). The age-adjusted rate for Benton County is 12.1%, which ranks 18th out of 99 Iowa counties (7th out of 12 similarly-sized counties).

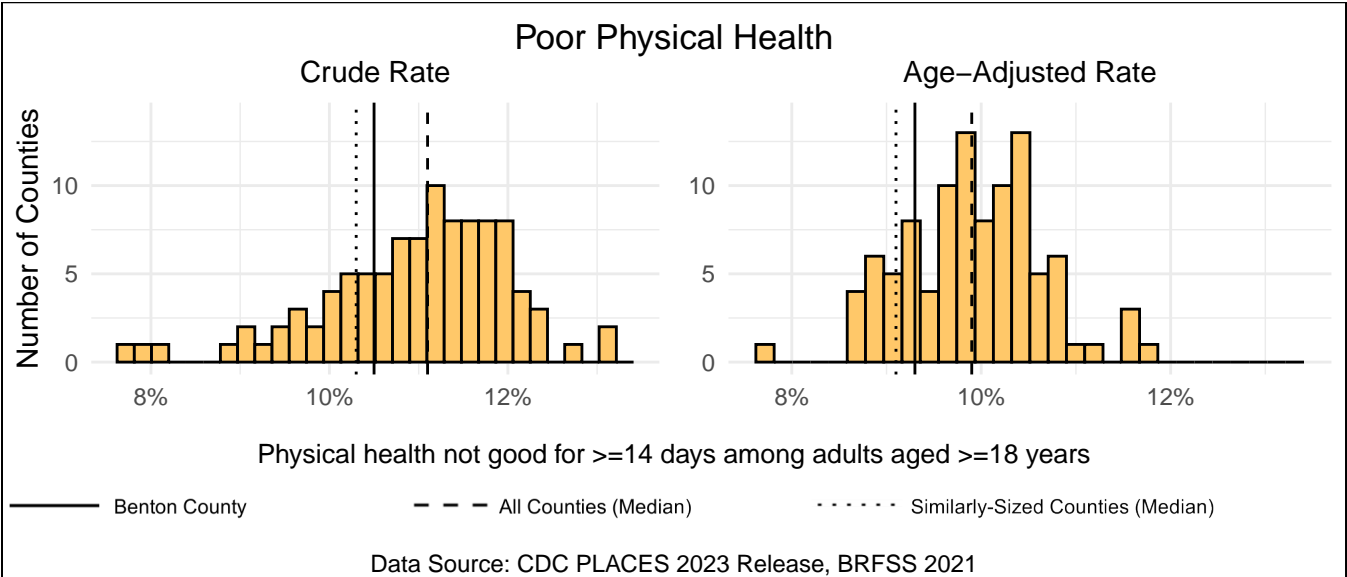
Measure Type	Benton County	All Counties	Similarly-Sized Counties
Crude	13.6%	15.0%	13.2%
Age-Adjusted	12.1%	13.3%	11.8%



Poor Physical Health

Benton County has a crude rate of 10.5% for physical health not good for ≥ 14 days among adults aged ≥ 18 years, which ranks 25th out of 99 Iowa counties (7th out of 12 similarly-sized counties). The age-adjusted rate for Benton County is 9.3%, which ranks 19th out of 99 Iowa counties (7th out of 12 similarly-sized counties).

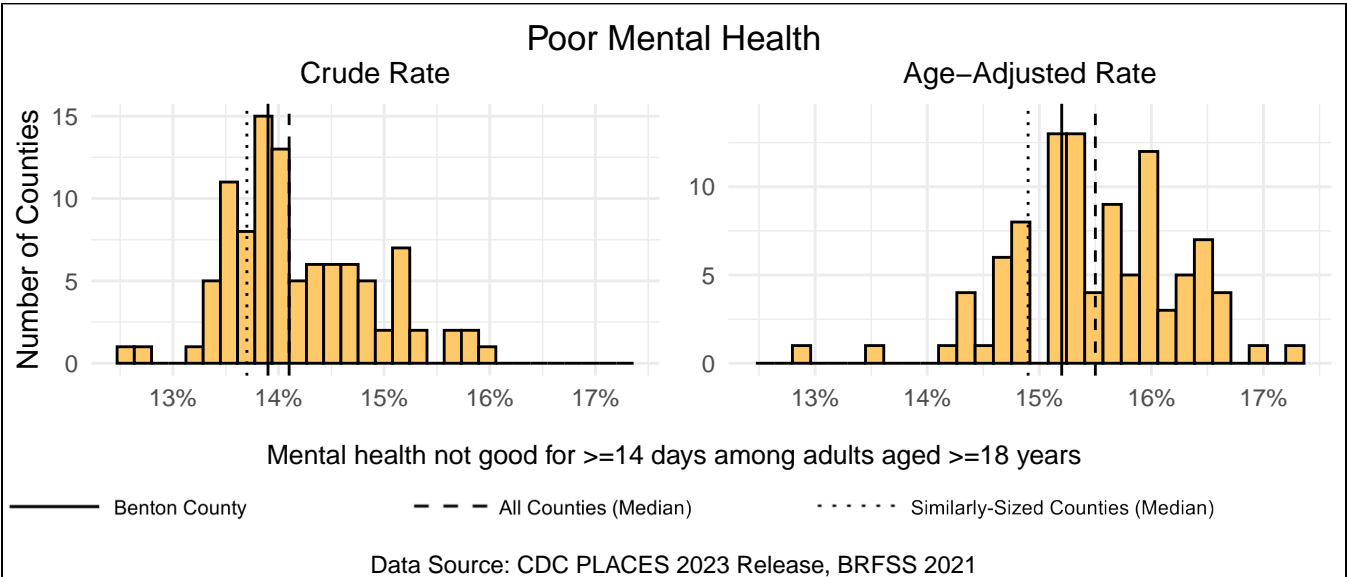
Measure Type	Benton County	All Counties	Similarly-Sized Counties
Crude	10.5%	11.1%	10.3%
Age-Adjusted	9.3%	9.9%	9.1%



Poor Mental Health

Benton County has a crude rate of 13.9% for mental health not good for ≥ 14 days among adults aged ≥ 18 years, which ranks 35th out of 99 Iowa counties (9th out of 12 similarly-sized counties). The age-adjusted rate for Benton County is 15.2%, which ranks 28th out of 99 Iowa counties (8th out of 12 similarly-sized counties).

Measure Type	Benton County	All Counties	Similarly-Sized Counties
Crude	13.9%	14.1%	13.7%
Age-Adjusted	15.2%	15.5%	14.9%



Health Risk Behaviors

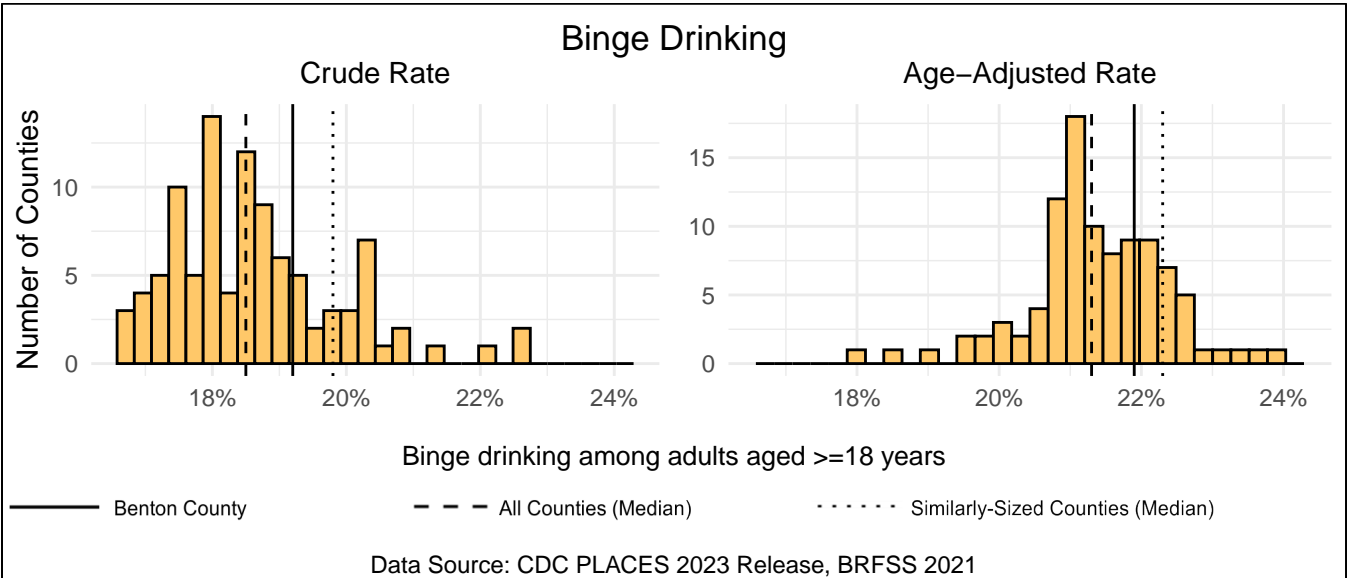
Health risk measures are measures of individual behaviors that can lead to poor health outcomes. These include binge drinking, current smoking, physical inactivity, and getting less than seven hours of nightly sleep. Risk behaviors are the most critical intervention points as they can help save lives 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

Benton County has a crude rate of 19.2% for binge drinking among adults aged ≥ 18 years, which ranks 73rd out of 99 Iowa counties (5th out of 12 similarly-sized counties). The age-adjusted rate for Benton County is 21.9%, which ranks 70th out of 99 Iowa counties (4th out of 12 similarly-sized counties).

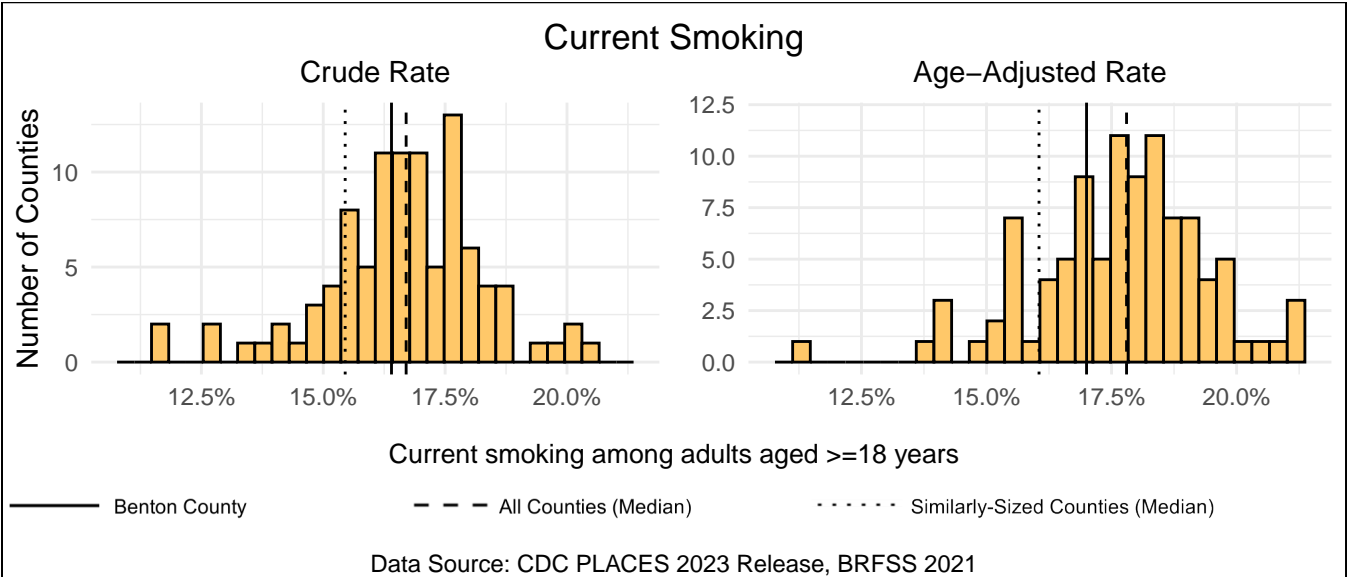
Measure Type	Benton County	All Counties	Similarly-Sized Counties
Crude	19.2%	18.5%	19.8%
Age-Adjusted	21.9%	21.3%	22.3%



Current Smoking

Benton County has a crude rate of 16.4% for current smoking among adults aged >=18 years, which ranks 37th out of 99 Iowa counties (9th out of 12 similarly-sized counties). The age-adjusted rate for Benton County is 17.0%, which ranks 30th out of 99 Iowa counties (8th out of 12 similarly-sized counties).

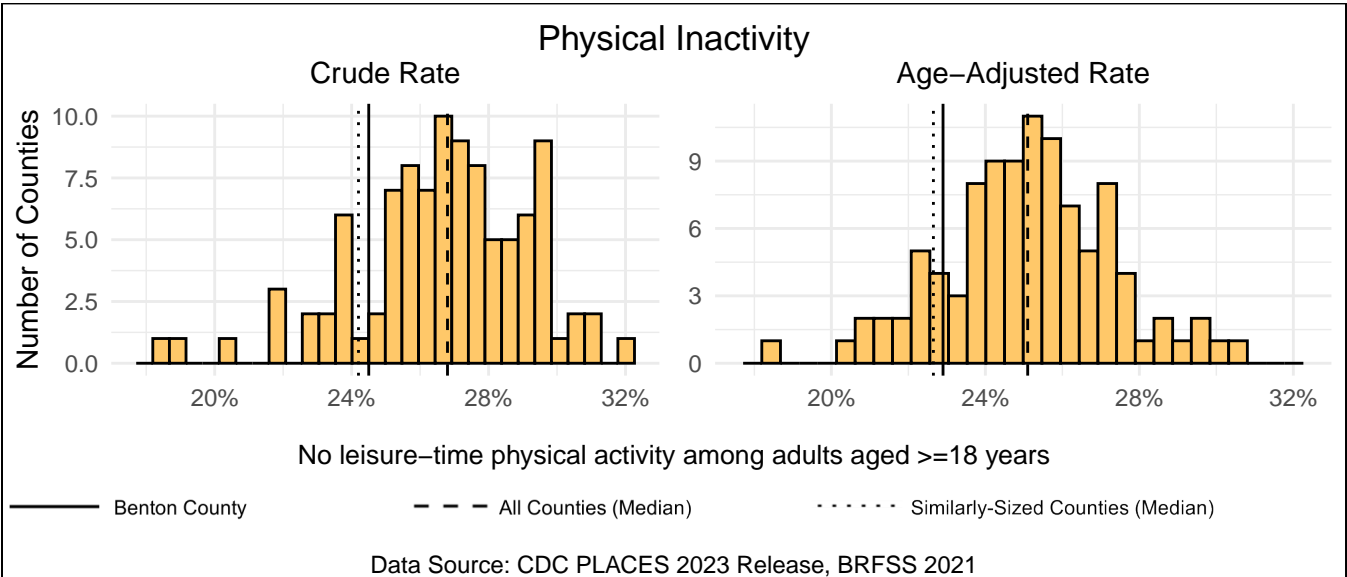
Measure Type	Benton County	All Counties	Similarly-Sized Counties
Crude	16.4%	16.7%	15.4%
Age-Adjusted	17.0%	17.8%	16.0%



Physical Inactivity

Benton County has a crude rate of 24.5% for no leisure-time physical activity among adults aged >=18 years, which ranks 18th out of 99 Iowa counties (7th out of 12 similarly-sized counties). The age-adjusted rate for Benton County is 22.9%, which ranks 16th out of 99 Iowa counties (7th out of 12 similarly-sized counties).

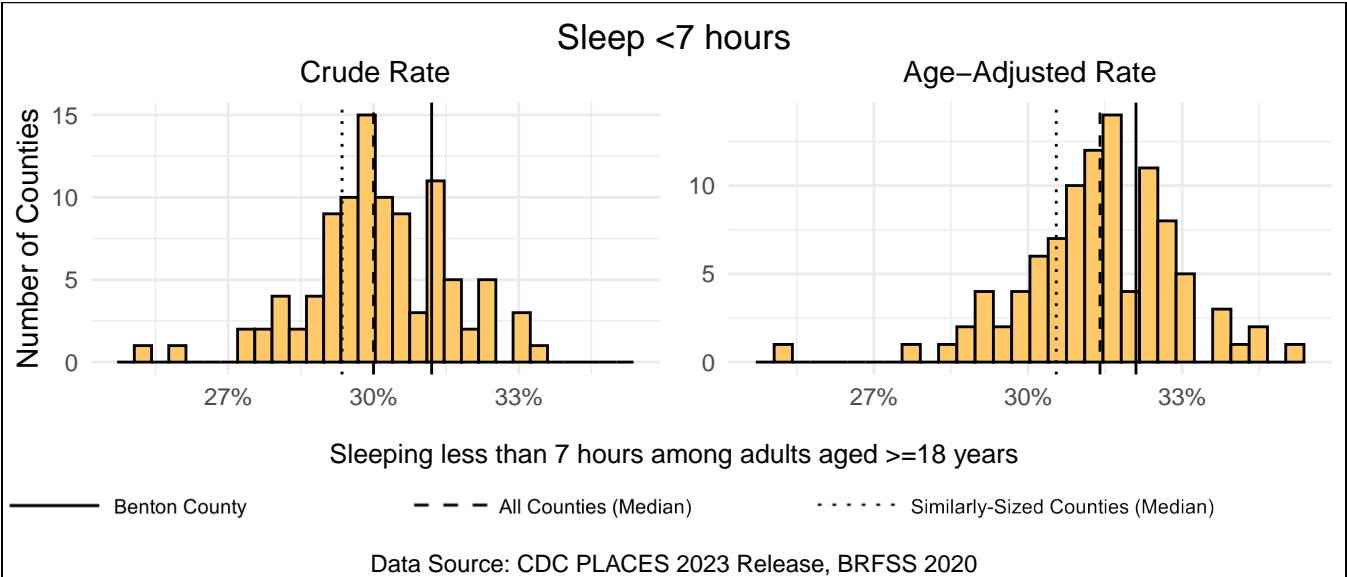
Measure Type	Benton County	All Counties	Similarly-Sized Counties
Crude	24.5%	26.8%	24.2%
Age-Adjusted	22.9%	25.1%	22.6%



Sleep <7 hours

Benton County has a crude rate of 31.2% for sleeping less than 7 hours among adults aged ≥ 18 years, which ranks 73rd out of 99 Iowa counties (9th out of 12 similarly-sized counties). The age-adjusted rate for Benton County is 32.1%, which ranks 66th out of 99 Iowa counties (9th out of 12 similarly-sized counties).

Measure Type	Benton County	All Counties	Similarly-Sized Counties
Crude	31.2%	30.0%	29.4%
Age-Adjusted	32.1%	31.4%	30.5%



Health Outcomes

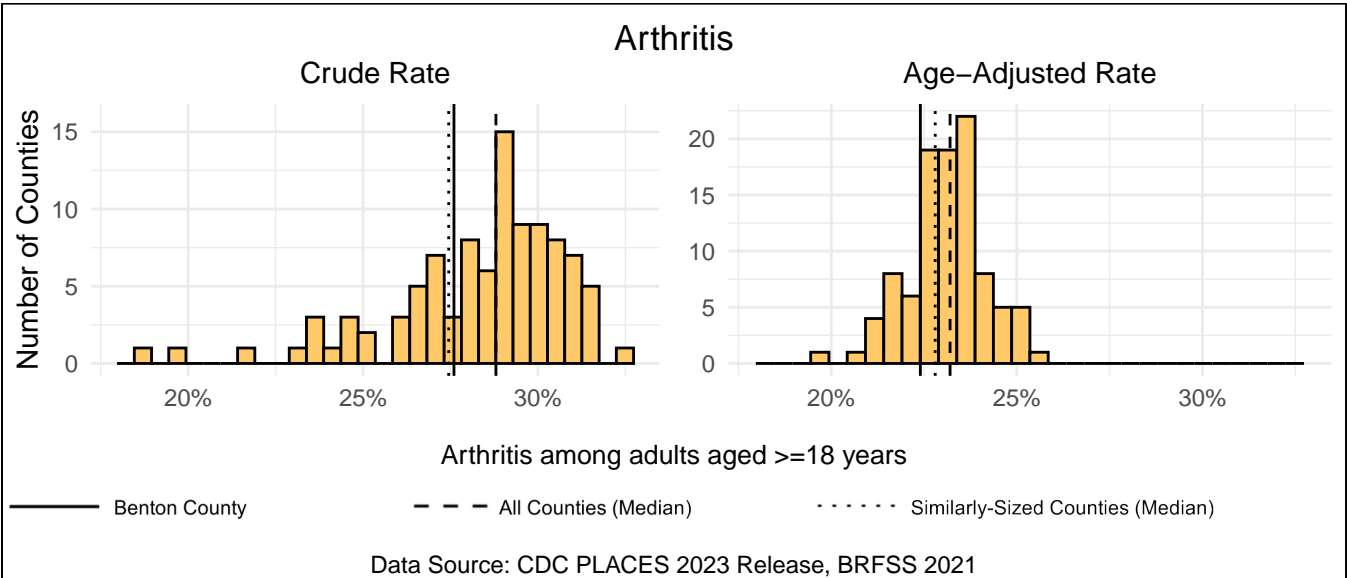
This section includes measures about specific health outcomes such as chronic illness, mental health conditions, and risk factors for future disease. Health outcome measures include but are not limited to arthritis, high blood pressure, cancer, depression, and obesity. Each measure is the percentage 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

Benton County has a crude rate of 27.6% for arthritis among adults aged ≥ 18 years, which ranks 29th out of 99 Iowa counties (7th out of 12 similarly-sized counties). The age-adjusted rate for Benton County is 22.4%, which ranks 21st out of 99 Iowa counties (5th out of 12 similarly-sized counties).

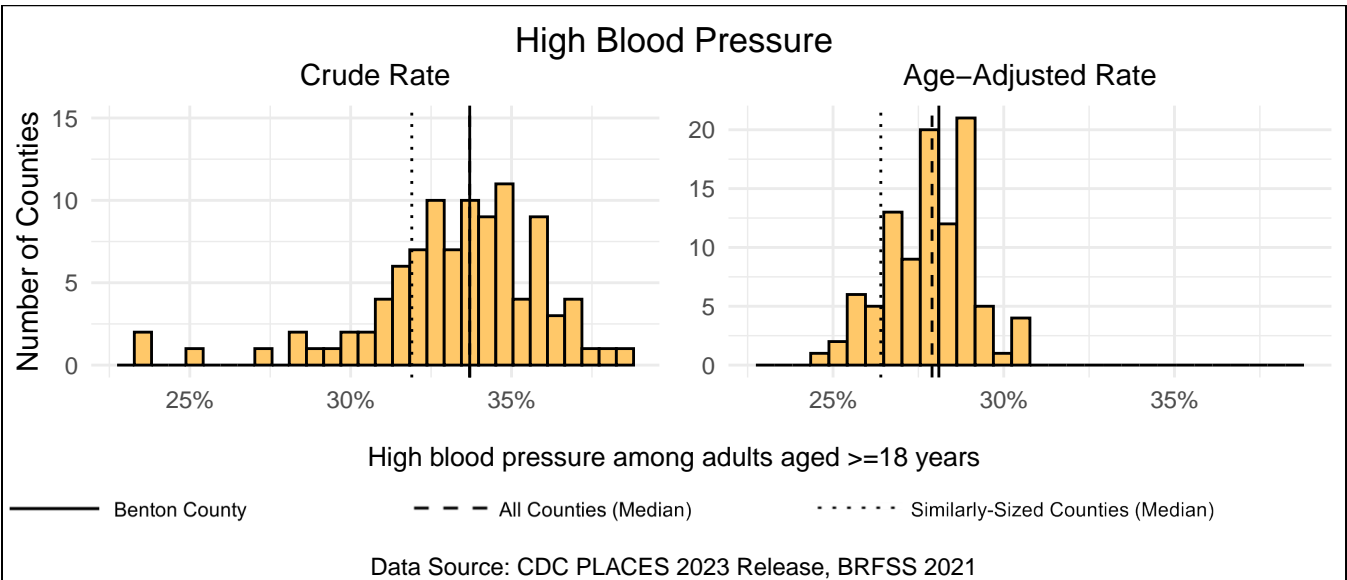
Measure Type	Benton County	All Counties	Similarly-Sized Counties
Crude	27.6%	28.8%	27.4%
Age-Adjusted	22.4%	23.2%	22.8%



High Blood Pressure

Benton County has a crude rate of 33.7% for high blood pressure among adults aged ≥ 18 years, which ranks 49th out of 99 Iowa counties (9th out of 12 similarly-sized counties). The age-adjusted rate for Benton County is 28.1%, which ranks 57th out of 99 Iowa counties (11th out of 12 similarly-sized counties).

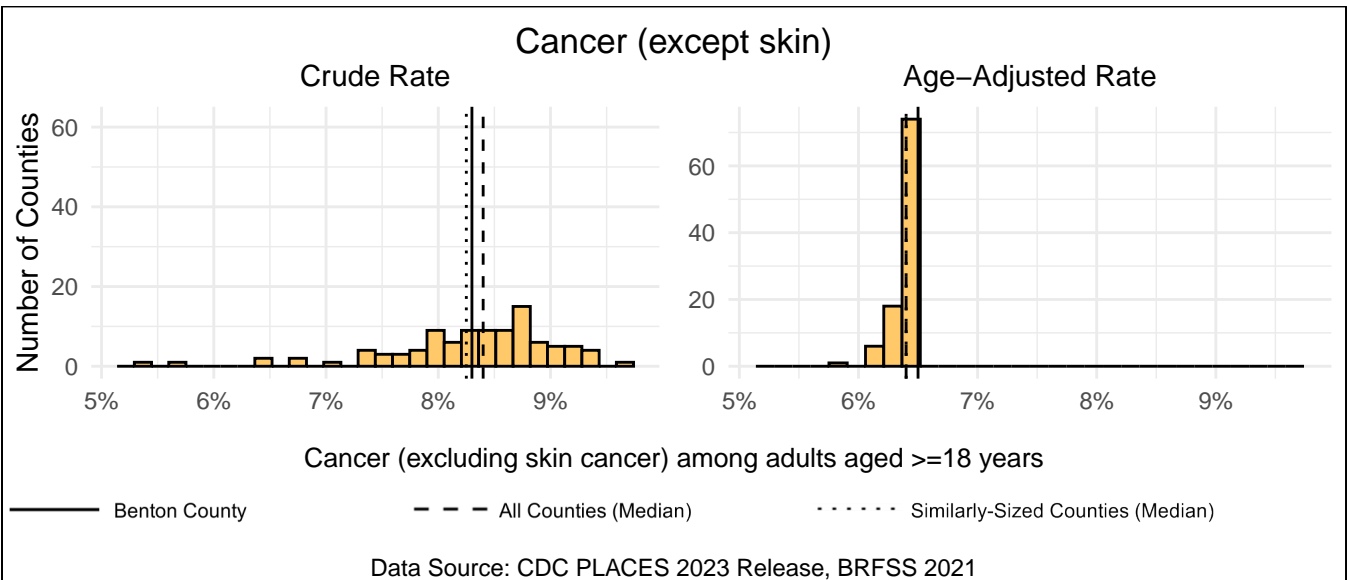
Measure Type	Benton County	All Counties	Similarly-Sized Counties
Crude	33.7%	33.7%	31.9%
Age-Adjusted	28.1%	27.9%	26.4%



Cancer (except skin)

Benton County has a crude rate of 8.3% for cancer (excluding skin cancer) among adults aged ≥ 18 years, which ranks 37th out of 99 Iowa counties (7th out of 12 similarly-sized counties). The age-adjusted rate for Benton County is 6.5%, which ranks 88th out of 99 Iowa counties (10th out of 12 similarly-sized counties).

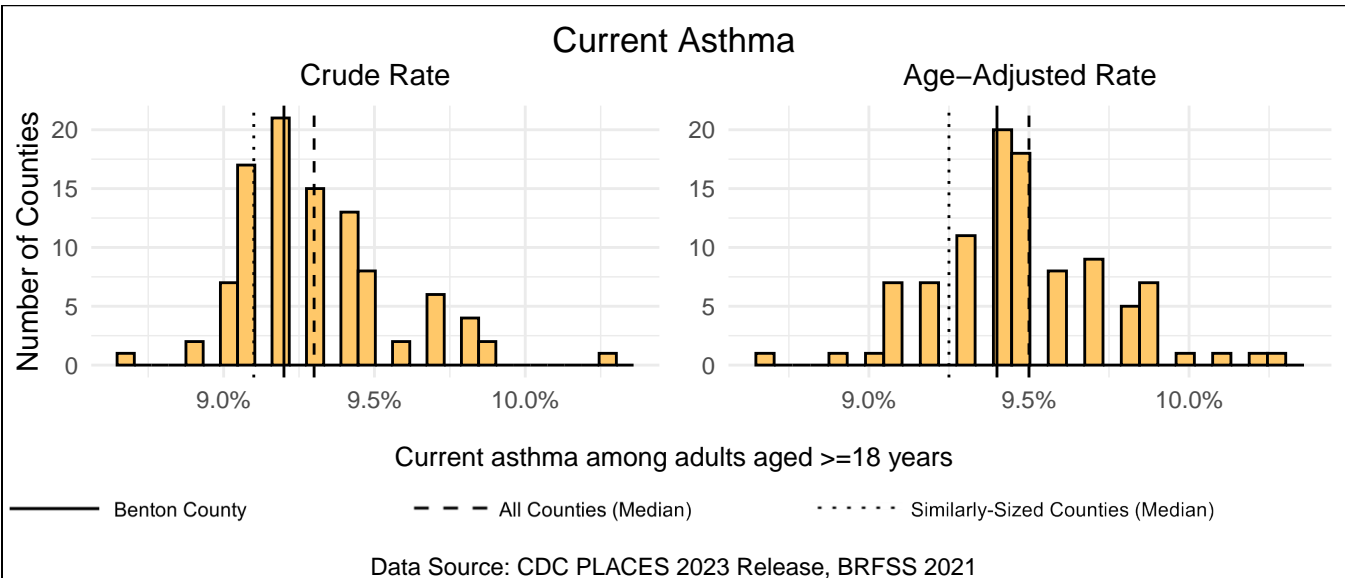
Measure Type	Benton County	All Counties	Similarly-Sized Counties
Crude	8.3%	8.4%	8.2%
Age-Adjusted	6.5%	6.4%	6.4%



Current Asthma

Benton County has a crude rate of 9.2% for current asthma among adults aged ≥ 18 years, which ranks 28th out of 99 Iowa counties (9th out of 12 similarly-sized counties). The age-adjusted rate for Benton County is 9.4%, which ranks 29th out of 99 Iowa counties (10th out of 12 similarly-sized counties).

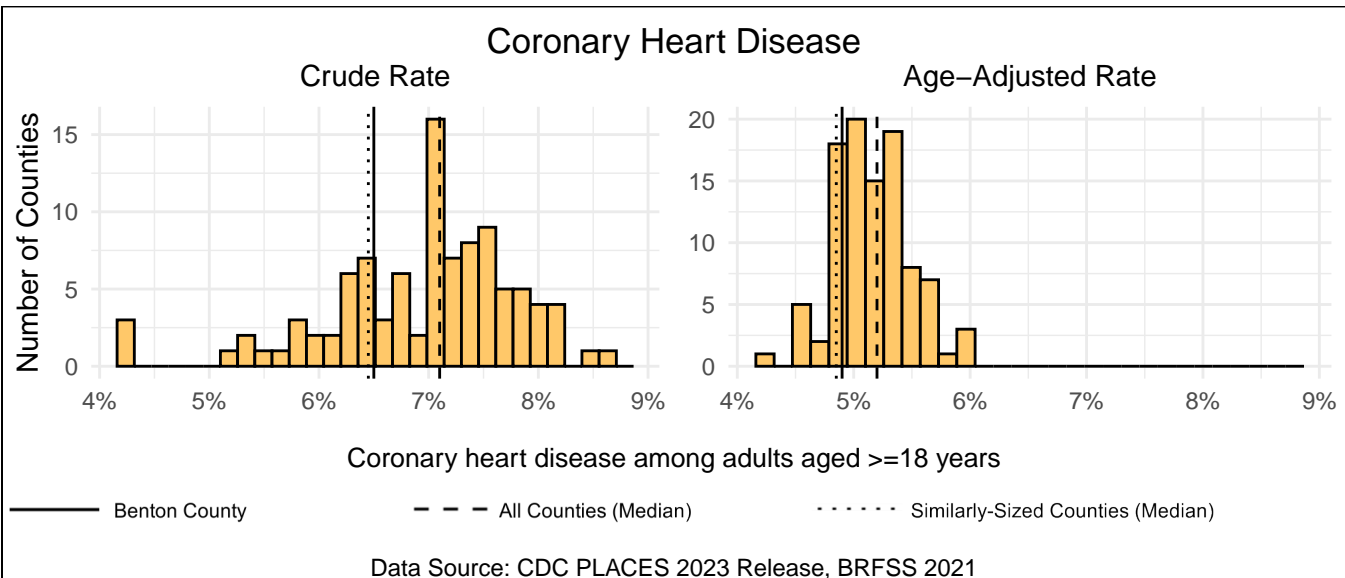
Measure Type	Benton County	All Counties	Similarly-Sized Counties
Crude	9.2%	9.3%	9.1%
Age-Adjusted	9.4%	9.5%	9.2%



Coronary Heart Disease

Benton County has a crude rate of 6.5% for coronary heart disease among adults aged ≥ 18 years, which ranks 24th out of 99 Iowa counties (7th out of 12 similarly-sized counties). The age-adjusted rate for Benton County is 4.9%, which ranks 18th out of 99 Iowa counties (7th out of 12 similarly-sized counties).

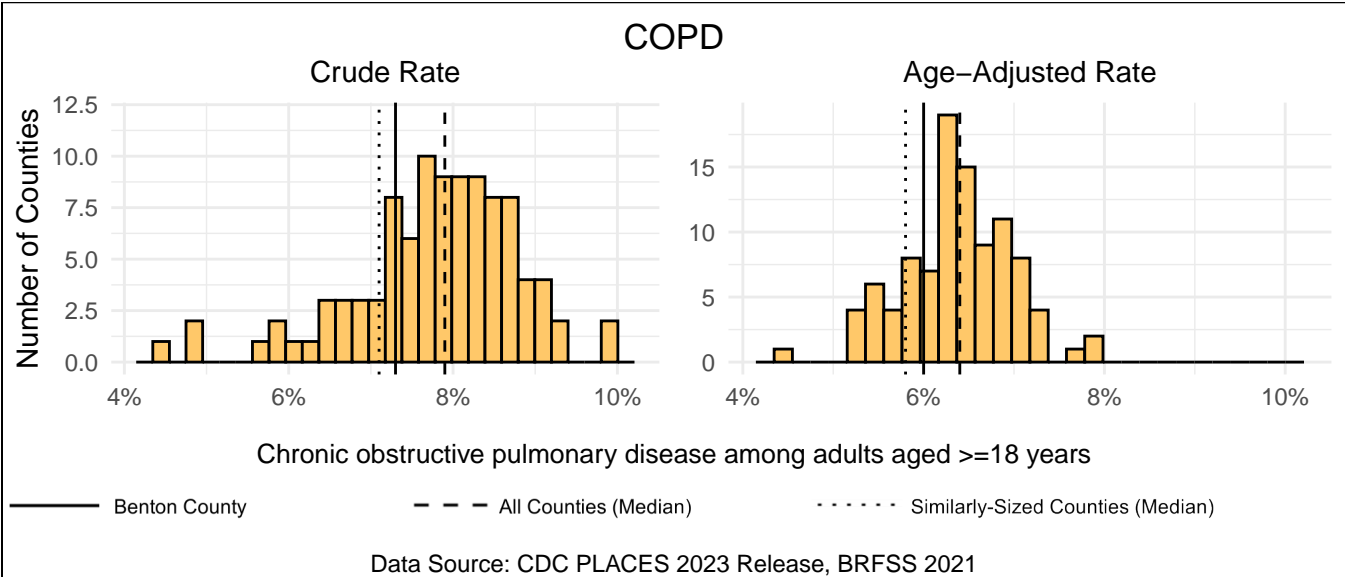
Measure Type	Benton County	All Counties	Similarly-Sized Counties
Crude	6.5%	7.1%	6.4%
Age-Adjusted	4.9%	5.2%	4.8%



COPD

Benton County has a crude rate of 7.3% for chronic obstructive pulmonary disease among adults aged ≥ 18 years, which ranks 27th out of 99 Iowa counties (7th out of 12 similarly-sized counties). The age-adjusted rate for Benton County is 6.0%, which ranks 24th out of 99 Iowa counties (7th out of 12 similarly-sized counties).

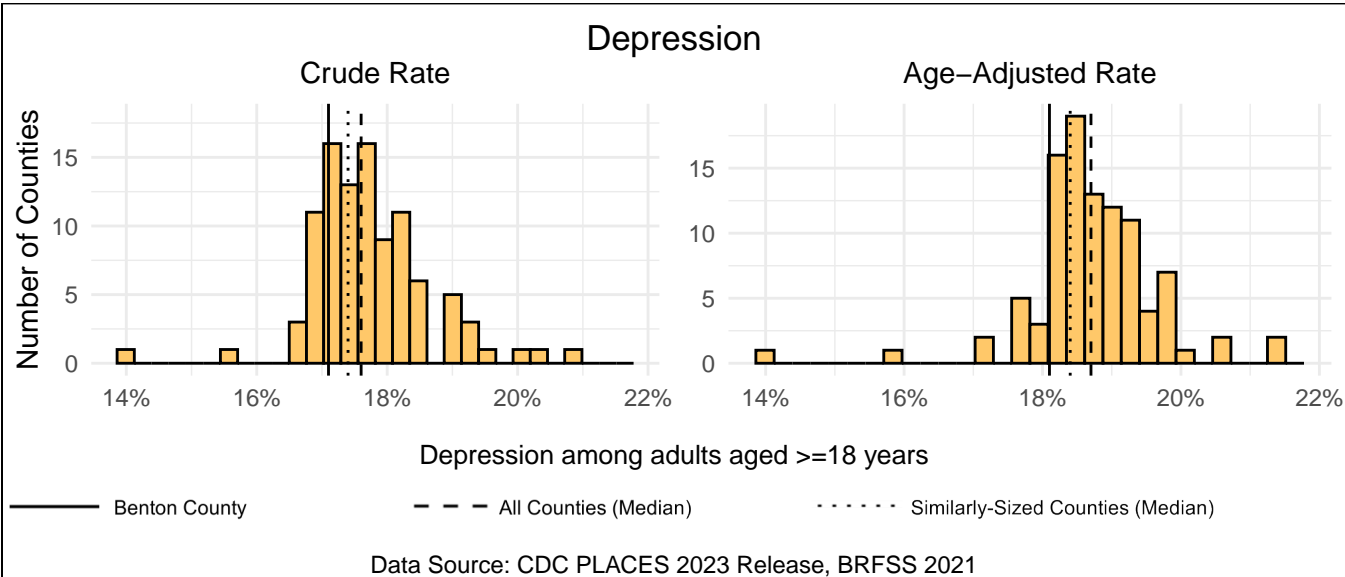
Measure Type	Benton County	All Counties	Similarly-Sized Counties
Crude	7.3%	7.9%	7.1%
Age-Adjusted	6.0%	6.4%	5.8%



Depression

Benton County has a crude rate of 17.1% for depression among adults aged ≥ 18 years, which ranks 17th out of 99 Iowa counties (1st out of 12 similarly-sized counties). The age-adjusted rate for Benton County is 18.1%, which ranks 13th out of 99 Iowa counties (4th out of 12 similarly-sized counties).

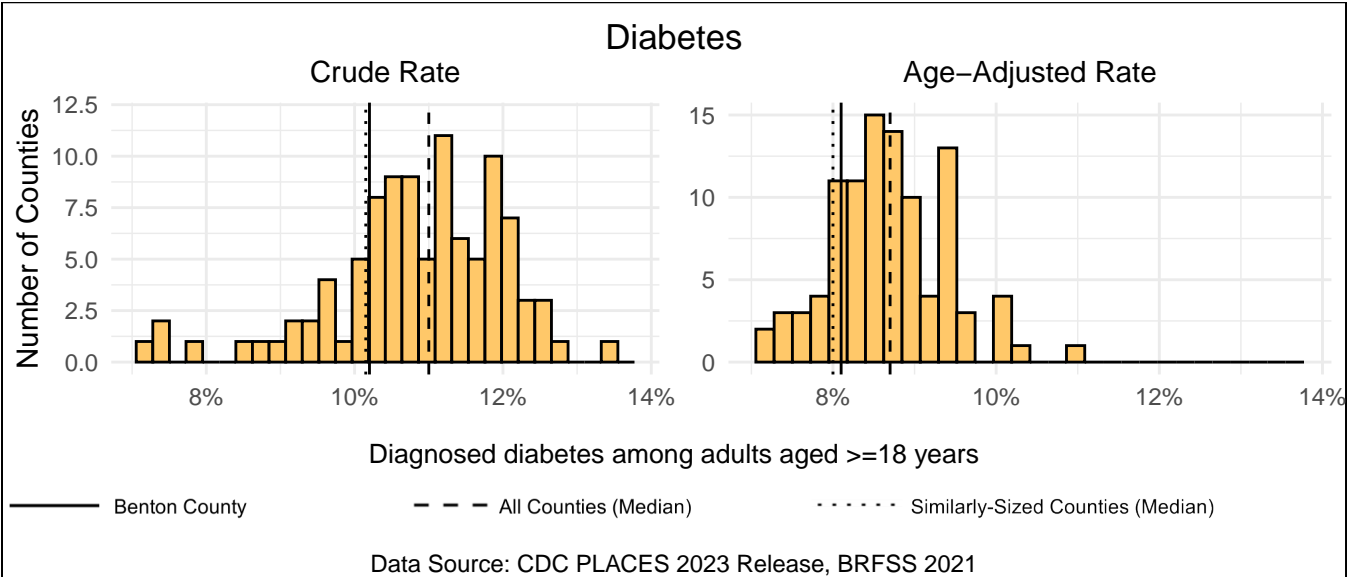
Measure Type	Benton County	All Counties	Similarly-Sized Counties
Crude	17.1%	17.6%	17.4%
Age-Adjusted	18.1%	18.7%	18.4%



Diabetes

Benton County has a crude rate of 10.2% for diagnosed diabetes among adults aged ≥ 18 years, which ranks 22nd out of 99 Iowa counties (7th out of 12 similarly-sized counties). The age-adjusted rate for Benton County is 8.1%, which ranks 20th out of 99 Iowa counties (7th out of 12 similarly-sized counties).

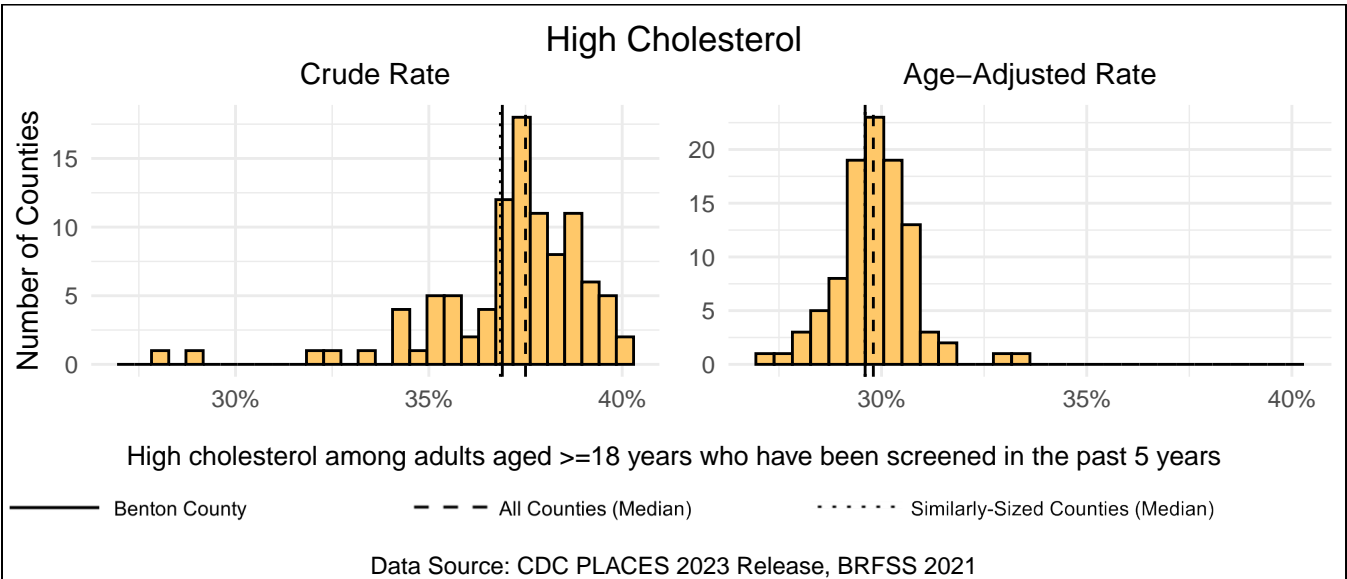
Measure Type	Benton County	All Counties	Similarly-Sized Counties
Crude	10.2%	11.0%	10.1%
Age-Adjusted	8.1%	8.7%	8.0%



High Cholesterol

Benton County has a crude rate of 36.9% for high cholesterol among adults aged ≥ 18 years who have been screened in the past 5 years, which ranks 28th out of 99 Iowa counties (7th out of 12 similarly-sized counties). The age-adjusted rate for Benton County is 29.6%, which ranks 30th out of 99 Iowa counties (5th out of 12 similarly-sized counties).

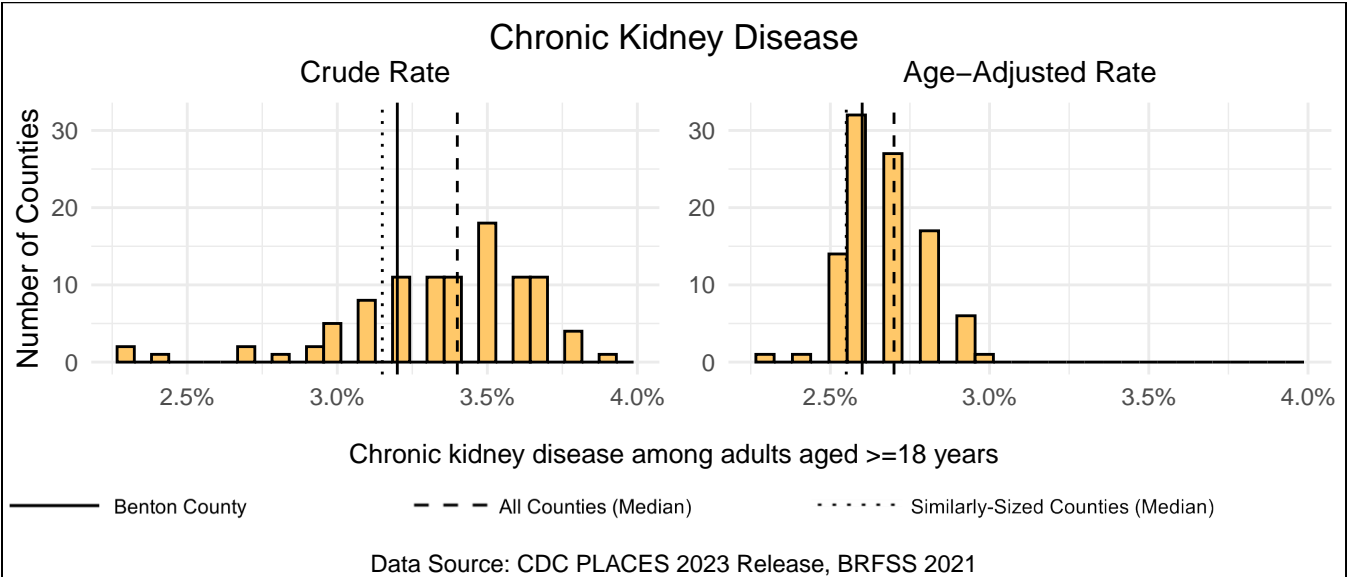
Measure Type	Benton County	All Counties	Similarly-Sized Counties
Crude	36.9%	37.5%	36.8%
Age-Adjusted	29.6%	29.8%	29.6%



Chronic Kidney Disease

Benton County has a crude rate of 3.2% for chronic kidney disease among adults aged ≥ 18 years, which ranks 22nd out of 99 Iowa counties (7th out of 12 similarly-sized counties). The age-adjusted rate for Benton County is 2.6%, which ranks 17th out of 99 Iowa counties (7th out of 12 similarly-sized counties).

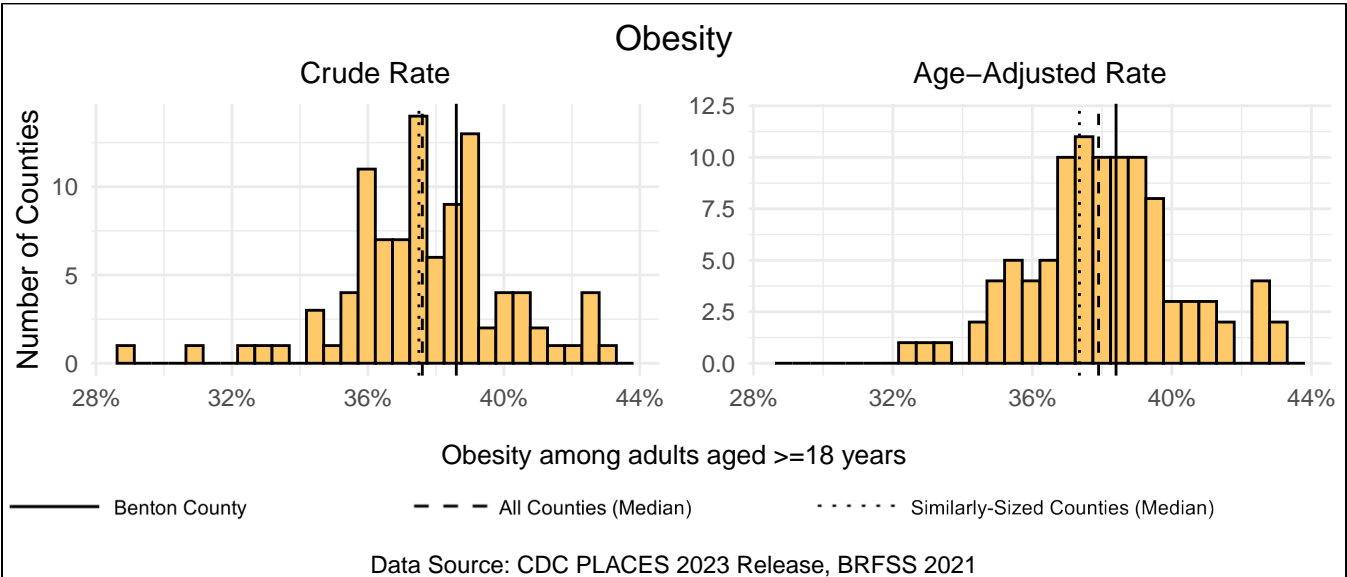
Measure Type	Benton County	All Counties	Similarly-Sized Counties
Crude	3.2%	3.4%	3.2%
Age-Adjusted	2.6%	2.7%	2.5%



Obesity

Benton County has a crude rate of 38.6% for obesity among adults aged ≥ 18 years, which ranks 64th out of 99 Iowa counties (9th out of 12 similarly-sized counties). The age-adjusted rate for Benton County is 38.4%, which ranks 57th out of 99 Iowa counties (10th out of 12 similarly-sized counties).

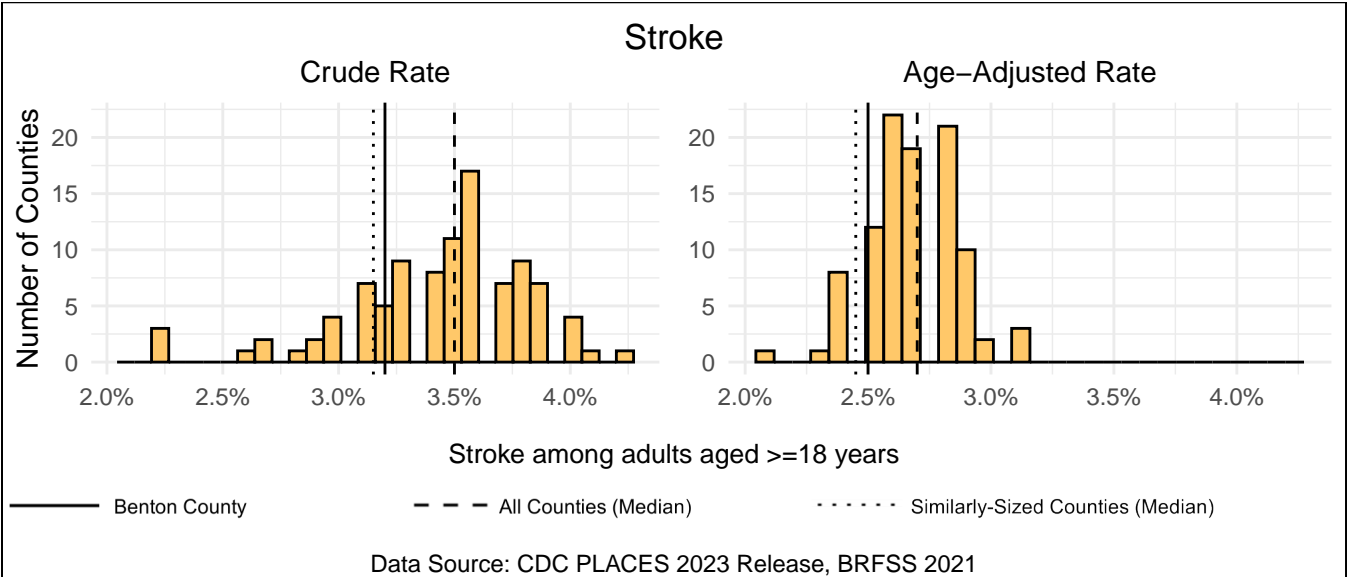
Measure Type	Benton County	All Counties	Similarly-Sized Counties
Crude	38.6%	37.6%	37.5%
Age-Adjusted	38.4%	37.9%	37.3%



Stroke

Benton County has a crude rate of 3.2% for stroke among adults aged ≥ 18 years, which ranks 21st out of 99 Iowa counties (7th out of 12 similarly-sized counties). The age-adjusted rate for Benton County is 2.5%, which ranks 11th out of 99 Iowa counties (7th out of 12 similarly-sized counties).

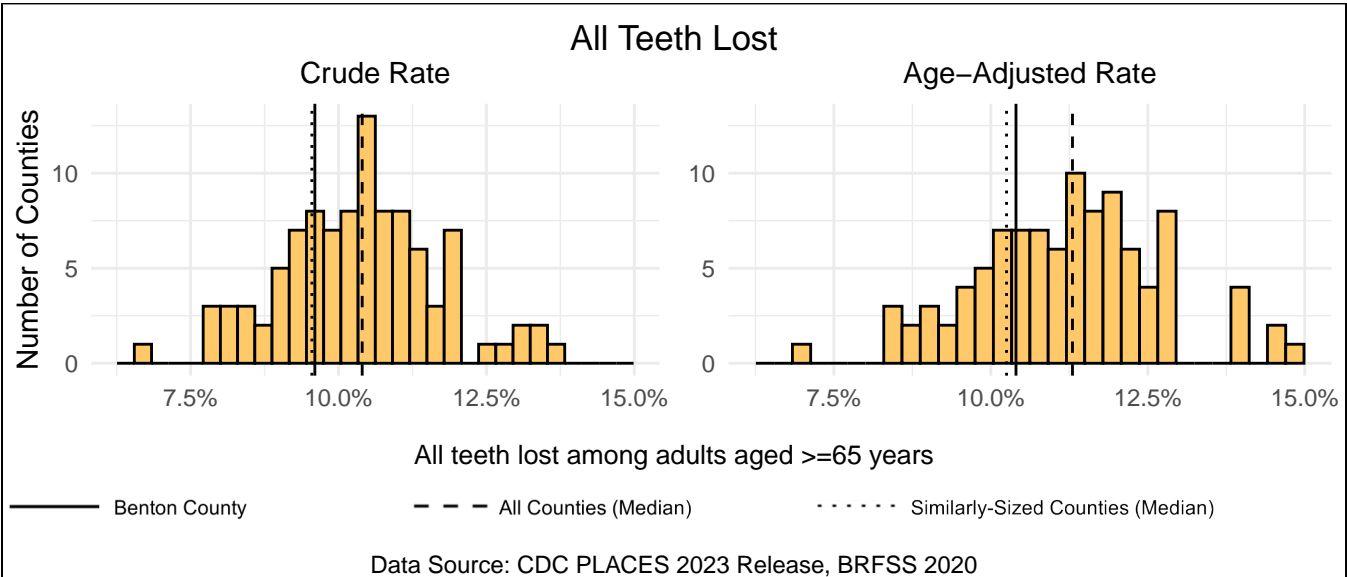
Measure Type	Benton County	All Counties	Similarly-Sized Counties
Crude	3.2%	3.5%	3.2%
Age-Adjusted	2.5%	2.7%	2.4%



All Teeth Lost

Benton County has a crude rate of 9.6% for all teeth lost among adults aged ≥ 65 years, which ranks 29th out of 99 Iowa counties (7th out of 12 similarly-sized counties). The age-adjusted rate for Benton County is 10.4%, which ranks 28th out of 99 Iowa counties (7th out of 12 similarly-sized counties).

Measure Type	Benton County	All Counties	Similarly-Sized Counties
Crude	9.6%	10.4%	9.6%
Age-Adjusted	10.4%	11.3%	10.2%



Prevention

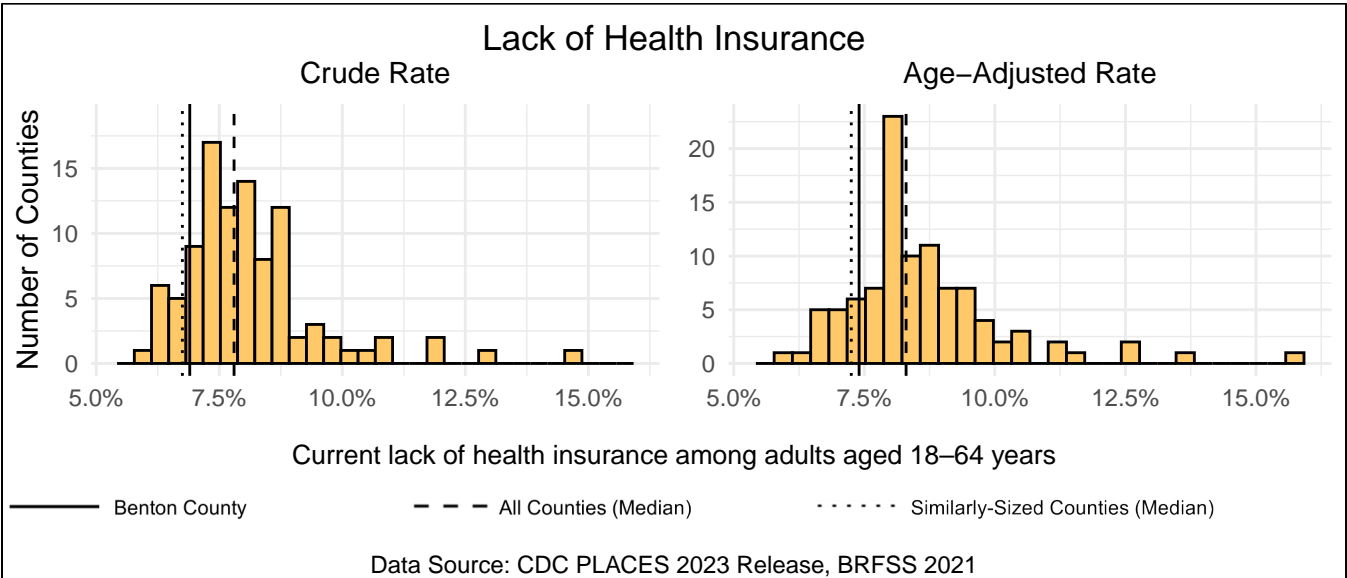
Preventive measures are another practical intervention point for public health professionals as they allow for the early detection of health conditions and improve overall treatment efficacy. This section includes a review of your county’s prevention measures, including preventive screenings and doctor 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 county. The link below includes more information about each variable.

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

Lack of Health Insurance

Benton County has a crude rate of 6.9% for current lack of health insurance among adults aged 18–64 years, which ranks 13th out of 99 Iowa counties (7th out of 12 similarly-sized counties). The age-adjusted rate for Benton County is 7.4%, which ranks 14th out of 99 Iowa counties (7th out of 12 similarly-sized counties).

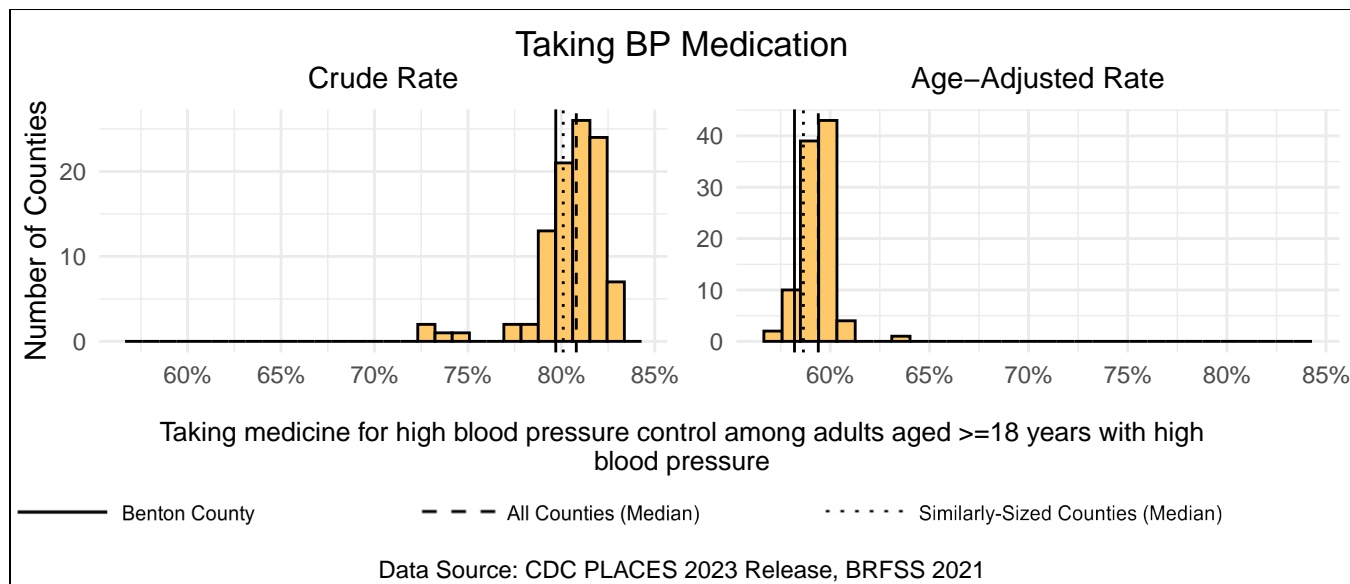
Measure Type	Benton County	All Counties	Similarly-Sized Counties
Crude	6.9%	7.8%	6.8%
Age-Adjusted	7.4%	8.3%	7.2%



Taking BP Medication

Benton County has a crude rate of 79.7% for taking medicine for high blood pressure control among adults aged ≥ 18 years with high blood pressure, which ranks 74th out of 99 Iowa counties (7th out of 12 similarly-sized counties). The age-adjusted rate for Benton County is 58.2%, which ranks 92nd out of 99 Iowa counties (9th out of 12 similarly-sized counties).

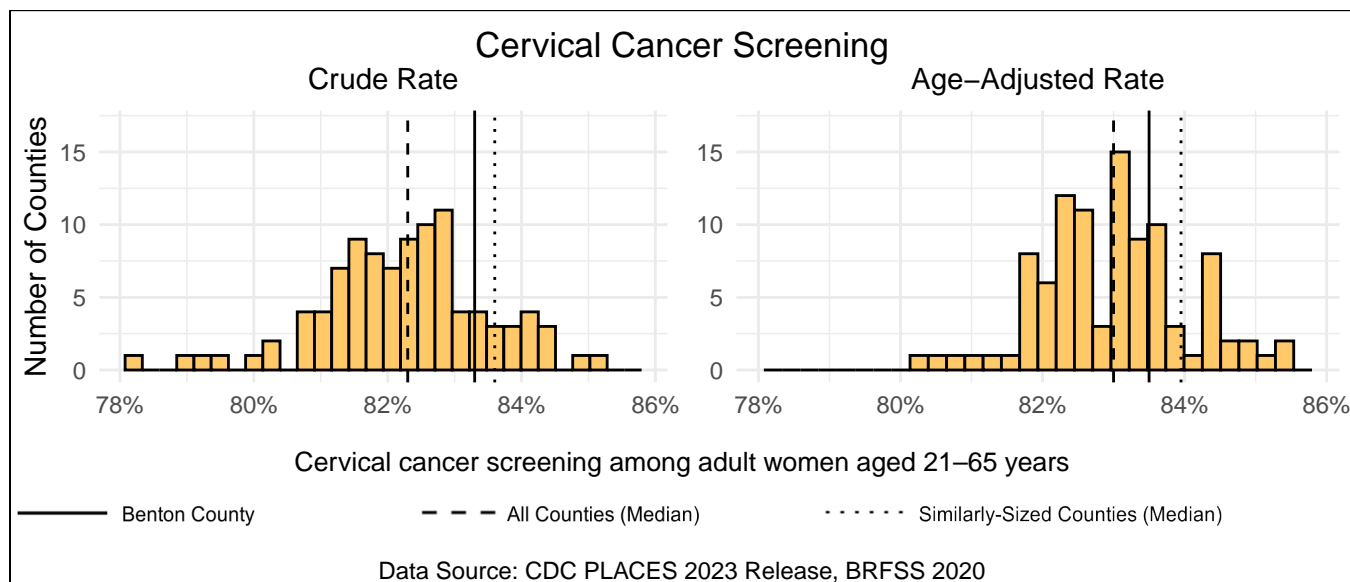
Measure Type	Benton County	All Counties	Similarly-Sized Counties
Crude	79.7%	80.8%	80.1%
Age-Adjusted	58.2%	59.4%	58.6%



Cervical Cancer Screening

Benton County has a crude rate of 83.3% for cervical cancer screening among adult women aged 21–65 years, which ranks 16th out of 99 Iowa counties (7th out of 12 similarly-sized counties). The age-adjusted rate for Benton County is 83.5%, which ranks 25th out of 99 Iowa counties (7th out of 12 similarly-sized counties).

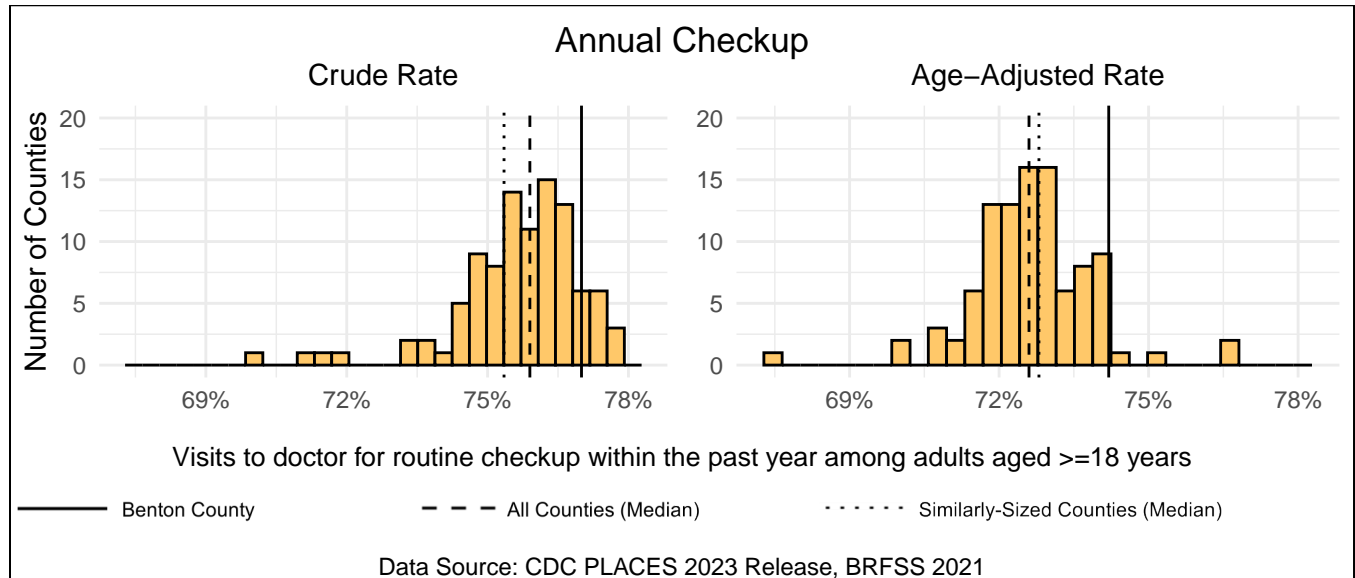
Measure Type	Benton County	All Counties	Similarly-Sized Counties
Crude	83.3%	82.3%	83.6%
Age-Adjusted	83.5%	83.0%	84.0%



Annual Checkup

Benton County has a crude rate of 77.0% for visits to doctor for routine checkup within the past year among adults aged ≥ 18 years, which ranks 14th out of 99 Iowa counties (1st out of 12 similarly-sized counties). The age-adjusted rate for Benton County is 74.2%, which ranks 5th out of 99 Iowa counties (1st out of 12 similarly-sized counties).

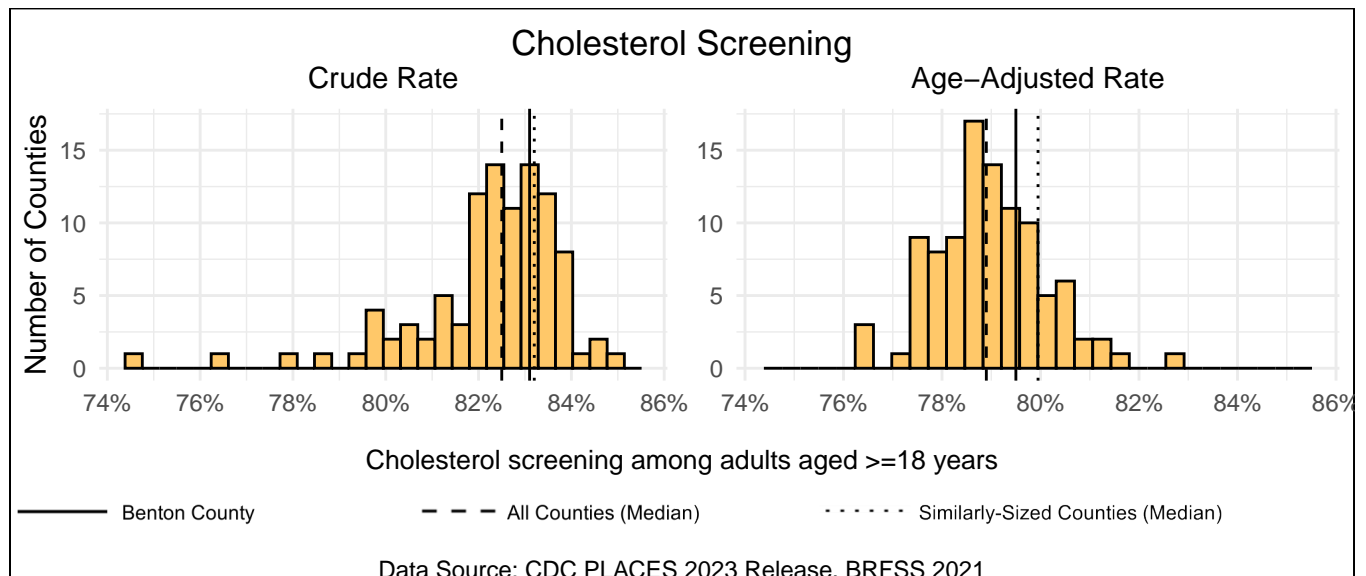
Measure Type	Benton County	All Counties	Similarly-Sized Counties
Crude	77.0%	75.9%	75.3%
Age-Adjusted	74.2%	72.6%	72.8%



Cholesterol Screening

Benton County has a crude rate of 83.1% for cholesterol screening among adults aged ≥ 18 years, which ranks 33rd out of 99 Iowa counties (8th out of 12 similarly-sized counties). The age-adjusted rate for Benton County is 79.5%, which ranks 28th out of 99 Iowa counties (7th out of 12 similarly-sized counties).

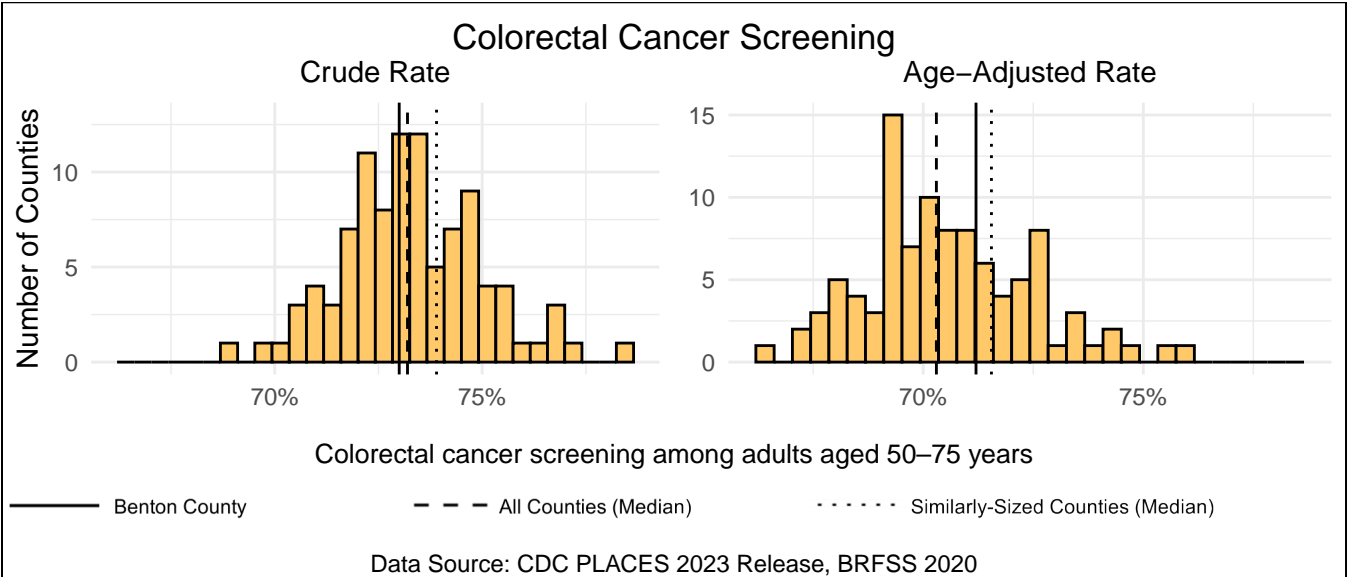
Measure Type	Benton County	All Counties	Similarly-Sized Counties
Crude	83.1%	82.5%	83.2%
Age-Adjusted	79.5%	78.9%	80.0%



Colorectal Cancer Screening

Benton County has a crude rate of 73.0% for colorectal cancer screening among adults aged 50–75 years, which ranks 53rd out of 99 Iowa counties (9th out of 12 similarly-sized counties). The age-adjusted rate for Benton County is 71.2%, which ranks 31st out of 99 Iowa counties (7th out of 12 similarly-sized counties).

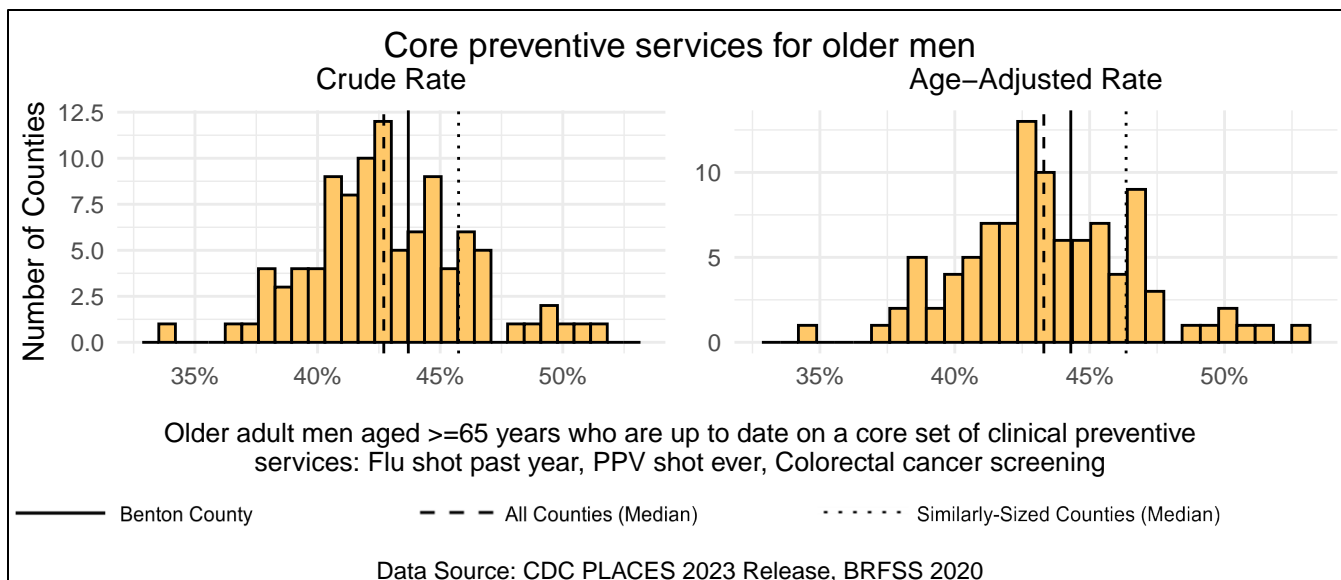
Measure Type	Benton County	All Counties	Similarly-Sized Counties
Crude	73.0%	73.2%	73.9%
Age-Adjusted	71.2%	70.3%	71.6%



Core preventive services for older men

Benton County has a crude rate of 43.7% 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 35th out of 99 Iowa counties (8th out of 12 similarly-sized counties). The age-adjusted rate for Benton County is 44.3%, which ranks 37th out of 99 Iowa counties (8th out of 12 similarly-sized counties).

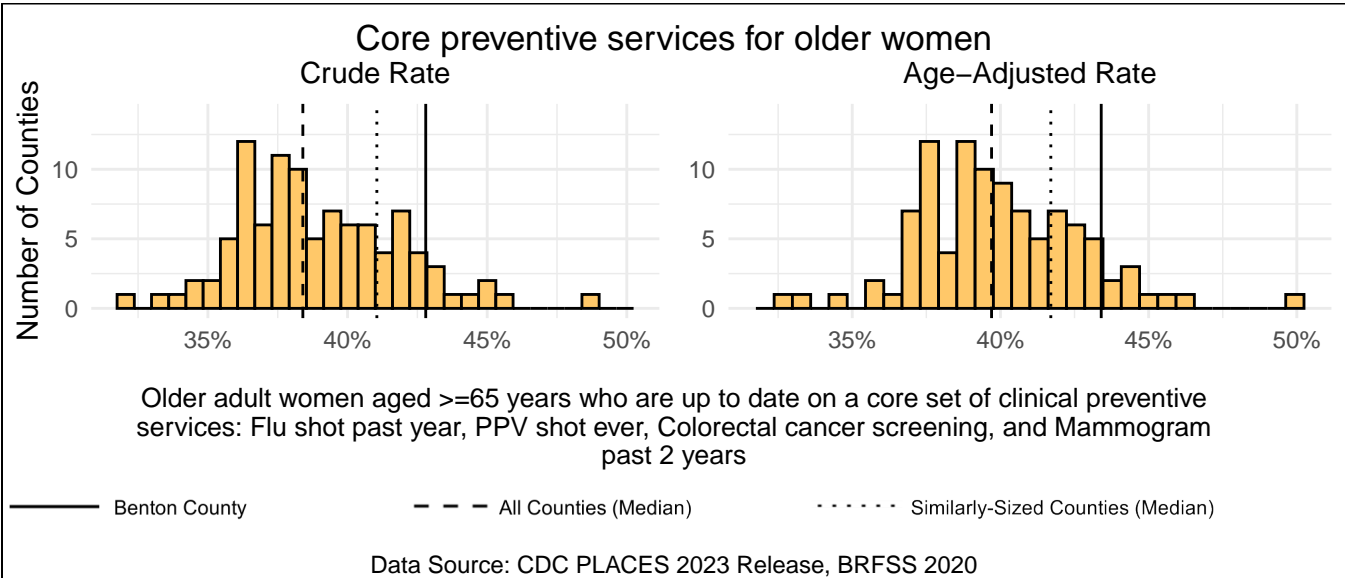
Measure Type	Benton County	All Counties	Similarly-Sized Counties
Crude	43.7%	42.7%	45.8%
Age-Adjusted	44.3%	43.3%	46.4%



Core preventive services for older women

Benton County has a crude rate of 42.8% 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 10th out of 99 Iowa counties (3rd out of 12 similarly-sized counties). The age-adjusted rate for Benton County is 43.4%, which ranks 10th out of 99 Iowa counties (3rd out of 12 similarly-sized counties).

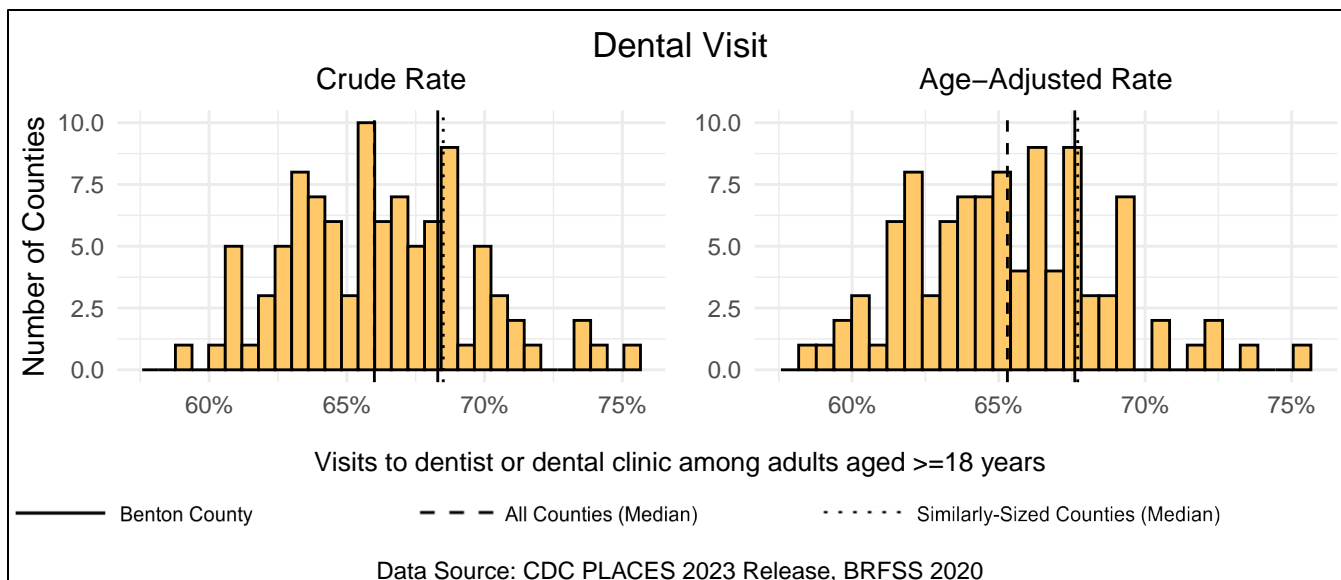
Measure Type	Benton County	All Counties	Similarly-Sized Counties
Crude	42.8%	38.4%	41.0%
Age-Adjusted	43.4%	39.7%	41.7%



Dental Visit

Benton County has a crude rate of 68.3% for visits to dentist or dental clinic among adults aged ≥ 18 years, which ranks 27th out of 99 Iowa counties (9th out of 12 similarly-sized counties). The age-adjusted rate for Benton County is 67.6%, which ranks 26th out of 99 Iowa counties (8th out of 12 similarly-sized counties).

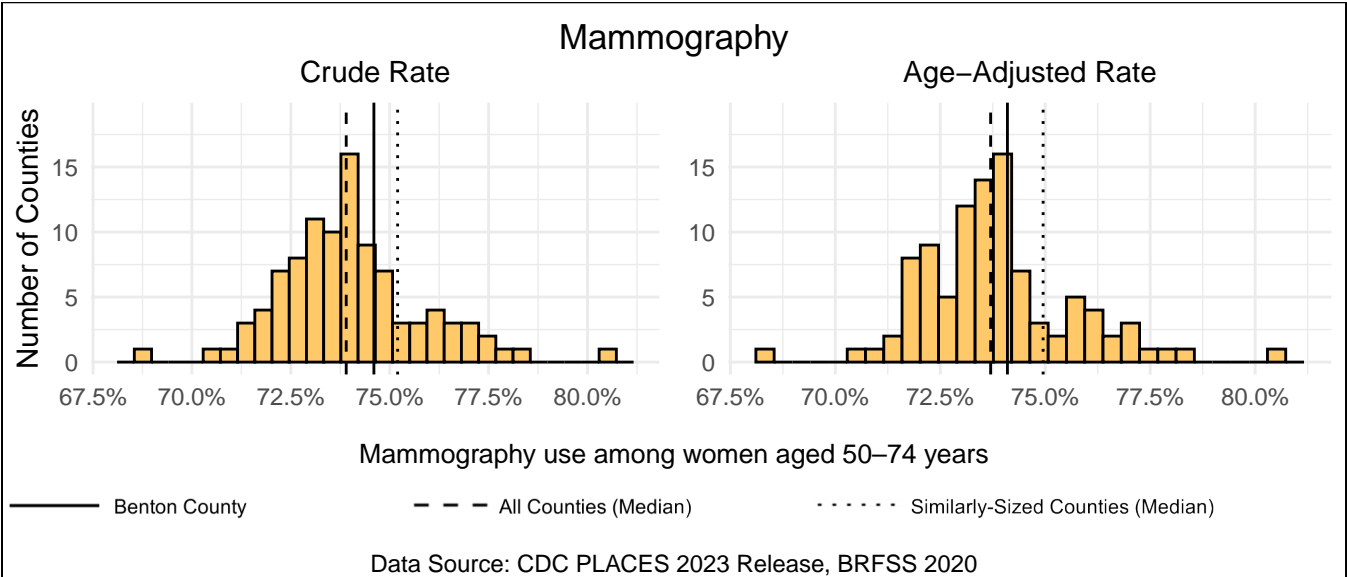
Measure Type	Benton County	All Counties	Similarly-Sized Counties
Crude	68.3%	66.0%	68.5%
Age-Adjusted	67.6%	65.3%	67.7%



Mammography

Benton County has a crude rate of 74.6% for mammography use among women aged 50–74 years, which ranks 29th out of 99 Iowa counties (7th out of 12 similarly-sized counties). The age-adjusted rate for Benton County is 74.1%, which ranks 33rd out of 99 Iowa counties (8th out of 12 similarly-sized counties).

Measure Type	Benton County	All Counties	Similarly-Sized Counties
Crude	74.6%	73.9%	75.2%
Age-Adjusted	74.1%	73.7%	75.0%



Disability

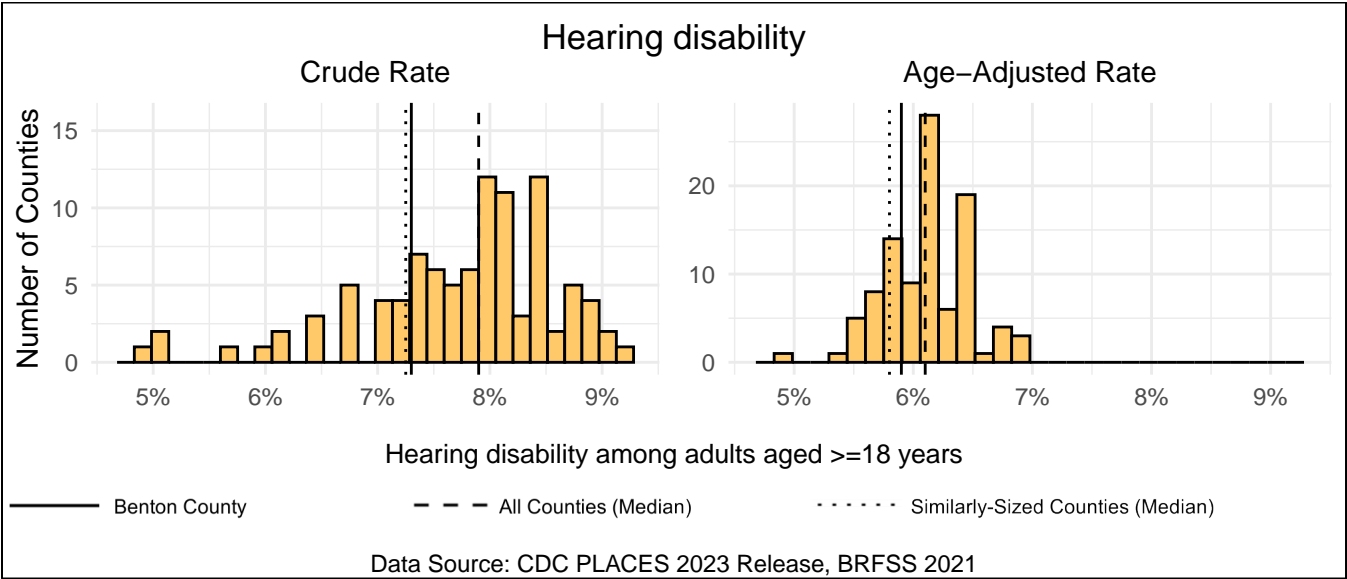
This section includes measures of physical and cognitive disabilities. Respondents were asked to report on six disabilities: hearing, vision, cognition, mobility, self-care, and independent living. The final measure reports the rate of respondents that answered yes to any of the previous six disabilities.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

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

Hearing disability

Benton County has a crude rate of 7.3% for hearing disability among adults aged ≥ 18 years, which ranks 24th out of 99 Iowa counties (7th out of 12 similarly-sized counties). The age-adjusted rate for Benton County is 5.9%, which ranks 24th out of 99 Iowa counties (7th out of 12 similarly-sized counties).

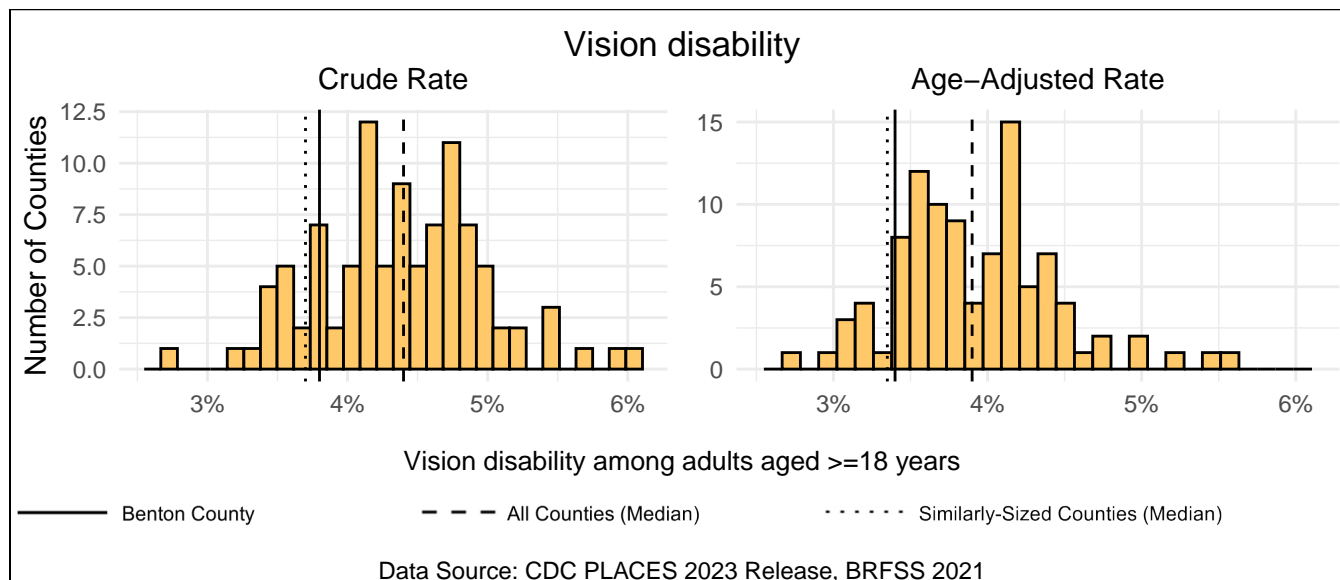
Measure Type	Benton County	All Counties	Similarly-Sized Counties
Crude	7.3%	7.9%	7.2%
Age-Adjusted	5.9%	6.1%	5.8%



Vision disability

Benton County has a crude rate of 3.8% for vision disability among adults aged ≥ 18 years, which ranks 15th out of 99 Iowa counties (7th out of 12 similarly-sized counties). The age-adjusted rate for Benton County is 3.4%, which ranks 11th out of 99 Iowa counties (7th out of 12 similarly-sized counties).

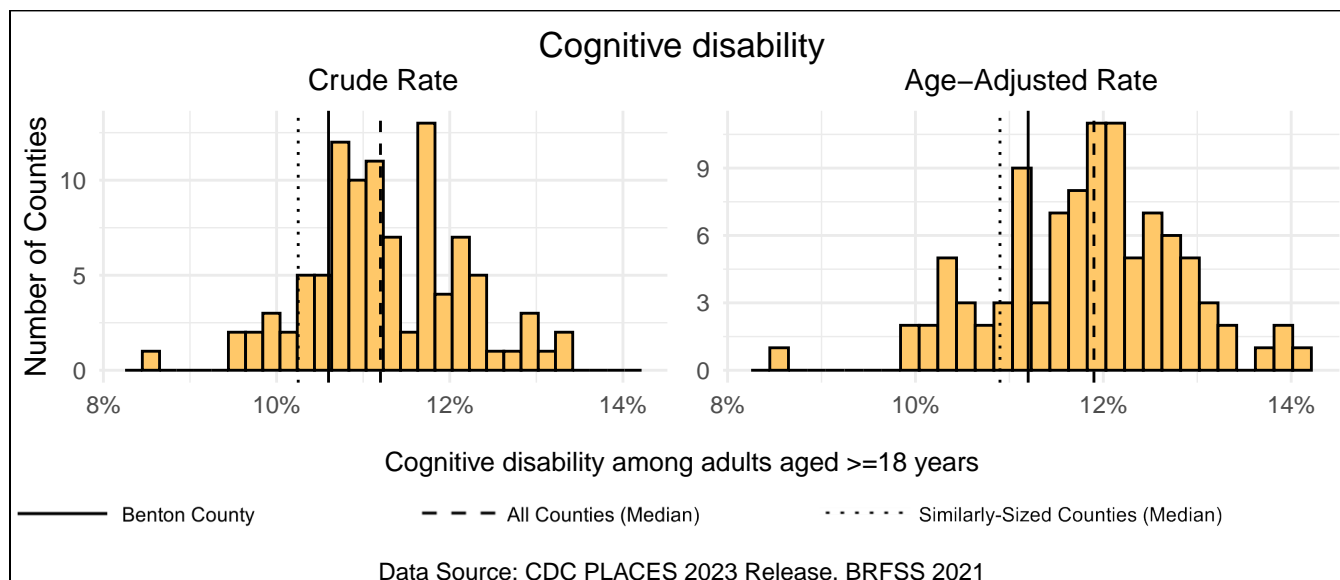
Measure Type	Benton County	All Counties	Similarly-Sized Counties
Crude	3.8%	4.4%	3.7%
Age-Adjusted	3.4%	3.9%	3.3%



Cognitive disability

Benton County has a crude rate of 10.6% for cognitive disability among adults aged ≥ 18 years, which ranks 19th out of 99 Iowa counties (7th out of 12 similarly-sized counties). The age-adjusted rate for Benton County is 11.2%, which ranks 24th out of 99 Iowa counties (7th out of 12 similarly-sized counties).

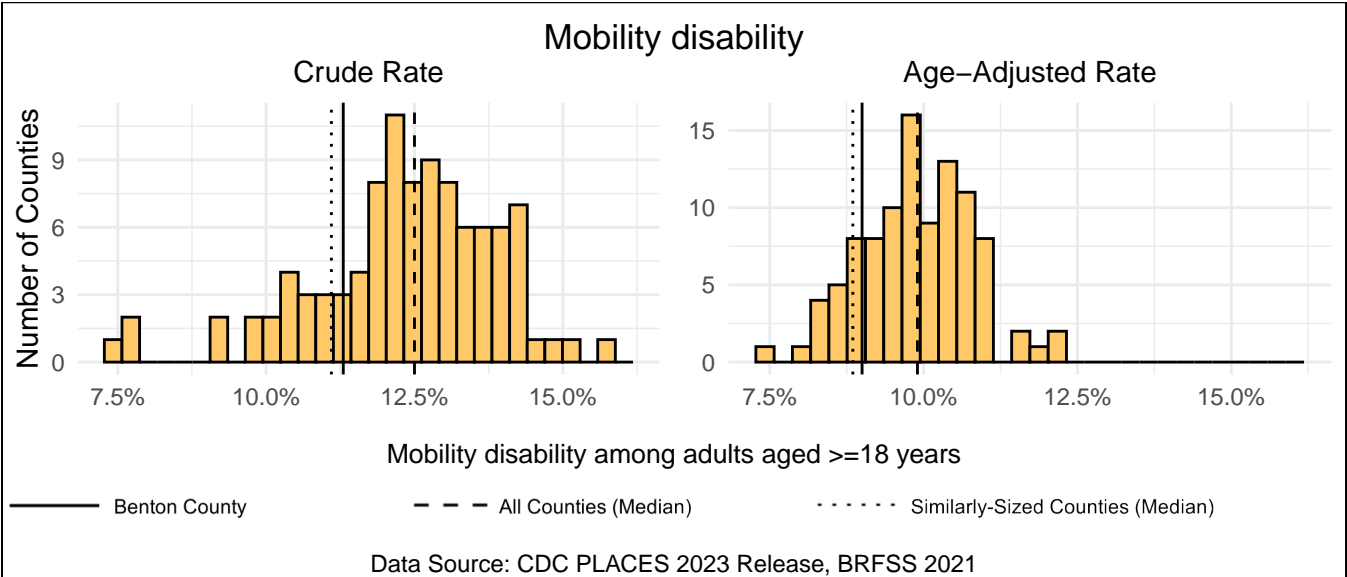
Measure Type	Benton County	All Counties	Similarly-Sized Counties
Crude	10.6%	11.2%	10.2%
Age-Adjusted	11.2%	11.9%	10.9%



Mobility disability

Benton County has a crude rate of 11.3% for mobility disability among adults aged ≥ 18 years, which ranks 20th out of 99 Iowa counties (7th out of 12 similarly-sized counties). The age-adjusted rate for Benton County is 9.0%, which ranks 17th out of 99 Iowa counties (7th out of 12 similarly-sized counties).

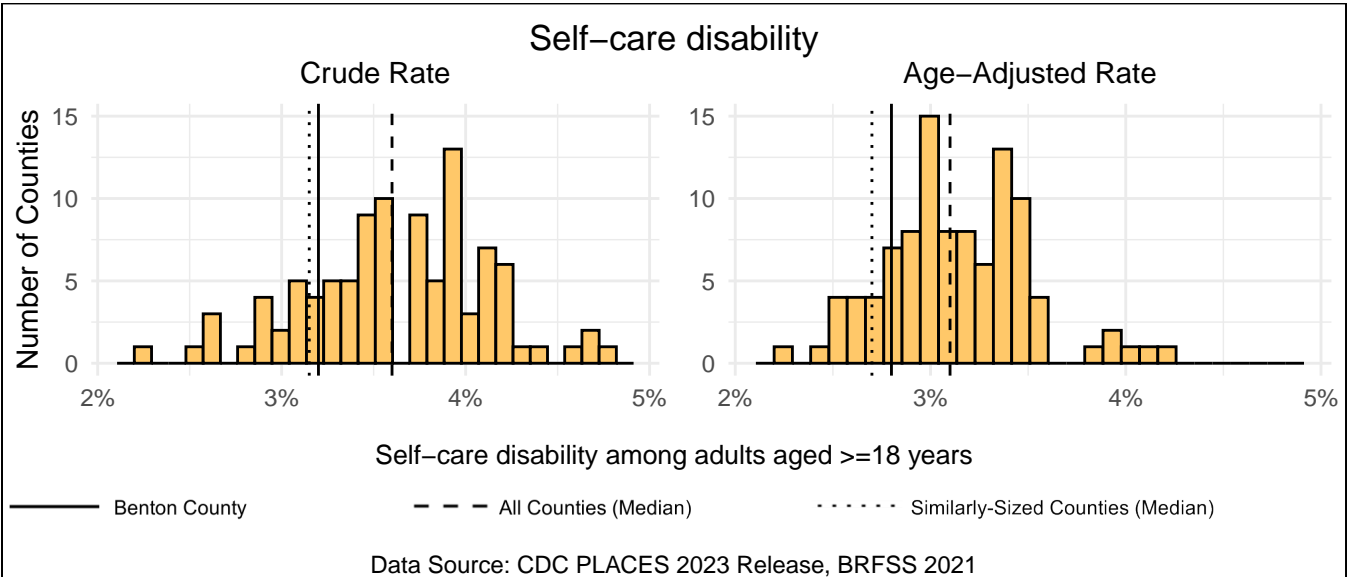
Measure Type	Benton County	All Counties	Similarly-Sized Counties
Crude	11.3%	12.5%	11.1%
Age-Adjusted	9.0%	9.9%	8.8%



Self-care disability

Benton County has a crude rate of 3.2% for self-care disability among adults aged ≥ 18 years, which ranks 18th out of 99 Iowa counties (7th out of 12 similarly-sized counties). The age-adjusted rate for Benton County is 2.8%, which ranks 15th out of 99 Iowa counties (7th out of 12 similarly-sized counties).

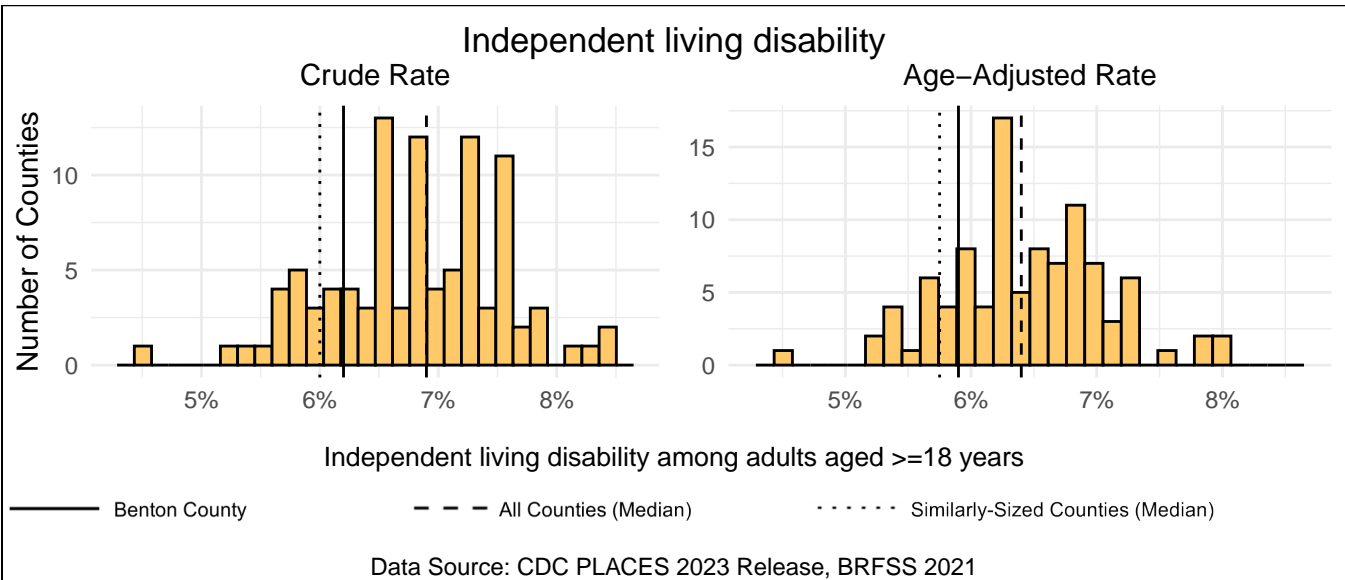
Measure Type	Benton County	All Counties	Similarly-Sized Counties
Crude	3.2%	3.6%	3.2%
Age-Adjusted	2.8%	3.1%	2.7%



Independent living disability

Benton County has a crude rate of 6.2% for independent living disability among adults aged ≥ 18 years, which ranks 21st out of 99 Iowa counties (7th out of 12 similarly-sized counties). The age-adjusted rate for Benton County is 5.9%, which ranks 19th out of 99 Iowa counties (7th out of 12 similarly-sized counties).

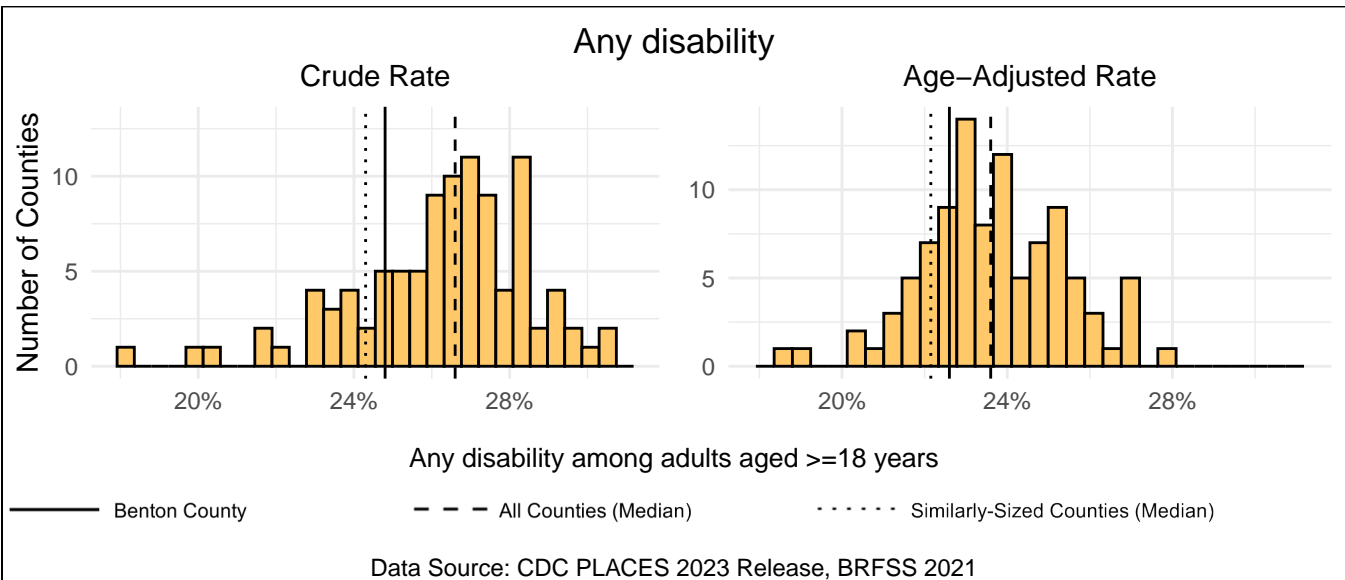
Measure Type	Benton County	All Counties	Similarly-Sized Counties
Crude	6.2%	6.9%	6.0%
Age-Adjusted	5.9%	6.4%	5.8%



Any disability

Benton County has a crude rate of 24.8% for any disability among adults aged ≥ 18 years, which ranks 22nd out of 99 Iowa counties (7th out of 12 similarly-sized counties). The age-adjusted rate for Benton County is 22.6%, which ranks 26th out of 99 Iowa counties (7th out of 12 similarly-sized counties).

Measure Type	Benton County	All Counties	Similarly-Sized Counties
Crude	24.8%	26.6%	24.3%
Age-Adjusted	22.6%	23.6%	22.1%



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: Benton County PLACES Data

Category	Health Domain	Crude Rate Rank	Crude Rate (95% CI)	Age-Adj. Rate Rank	Age-Adj. Rate (95% CI)
Health Status	Mental Health	35	13.9% (11.8% - 16.1%)	28	15.2% (12.9% - 17.6%)
Health Status	General Health	21	13.6% (11.1% - 16.3%)	18	12.1% (10.0% - 14.4%)
Health Status	Physical Health	25	10.5% (8.8% - 12.2%)	19	9.3% (7.8% - 10.8%)
Health Risk Behaviors	Sleep <7 hours	73	31.2% (29.5% - 32.8%)	66	32.1% (30.3% - 33.8%)
Health Risk Behaviors	Current Smoking	37	16.4% (12.8% - 20.1%)	30	17.0% (13.2% - 20.9%)
Health Risk Behaviors	Binge Drinking	73	19.2% (15.8% - 22.8%)	70	21.9% (18.1% - 26.0%)
Health Risk Behaviors	Physical Inactivity	18	24.5% (19.6% - 29.5%)	16	22.9% (18.5% - 27.9%)
Health Outcomes	Arthritis	29	27.6% (23.5% - 31.9%)	21	22.4% (18.9% - 26.2%)
Health Outcomes	Obesity	64	38.6% (31.3% - 46.5%)	57	38.4% (31.1% - 46.0%)
Health Outcomes	Chronic Kidney Disease	22	3.2% (2.8% - 3.5%)	17	2.6% (2.3% - 2.8%)
Health Outcomes	Current Asthma	28	9.2% (8.0% - 10.5%)	29	9.4% (8.2% - 10.7%)
Health Outcomes	All Teeth Lost	29	9.6% (6.3% - 13.5%)	28	10.4% (6.9% - 14.6%)
Health Outcomes	Diabetes	22	10.2% (8.5% - 12.0%)	20	8.1% (6.7% - 9.4%)
Health Outcomes	High Blood Pressure	49	33.7% (29.4% - 38.2%)	57	28.1% (24.2% - 32.1%)
Health Outcomes	High Cholesterol	28	36.9% (32.3% - 41.7%)	30	29.6% (25.3% - 34.3%)
Health Outcomes	Depression	17	17.1% (14.0% - 20.7%)	13	18.1% (14.8% - 21.9%)
Health Outcomes	Stroke	21	3.2% (2.8% - 3.7%)	11	2.5% (2.2% - 2.8%)
Health Outcomes	Cancer (except skin)	37	8.3% (7.3% - 9.2%)	88	6.5% (5.7% - 7.2%)
Health Outcomes	Coronary Heart Disease	24	6.5% (5.5% - 7.5%)	18	4.9% (4.2% - 5.7%)
Health Outcomes	COPD	27	7.3% (5.9% - 8.8%)	24	6.0% (4.9% - 7.2%)
Prevention	Core preventive services for older men	35	43.7% (35.3% - 52.4%)	37	44.3% (35.9% - 52.7%)
Prevention	Colorectal Cancer Screening	53	73.0% (70.0% - 75.8%)	31	71.2% (68.2% - 74.2%)
Prevention	Dental Visit	27	68.3% (64.7% - 71.6%)	26	67.6% (63.8% - 71.1%)
Prevention	Annual Checkup	14	77.0% (72.4% - 81.4%)	5	74.2% (69.0% - 79.0%)
Prevention	Mammography	29	74.6% (70.2% - 78.7%)	33	74.1% (69.6% - 78.5%)

Category	Health Domain	Crude Rate Rank	Crude Rate (95% CI)	Age-Adj. Rate Rank	Age-Adj. Rate (95% CI)
Prevention	Cervical Cancer Screening	16	83.3% (80.9% - 85.7%)	25	83.5% (81.2% - 85.8%)
Prevention	Taking BP Medication	74	79.7% (76.2% - 82.7%)	92	58.2% (53.0% - 63.2%)
Prevention	Health Insurance	13	6.9% (5.2% - 9.0%)	14	7.4% (5.6% - 9.7%)
Prevention	Core preventive services for older women	10	42.8% (35.2% - 50.4%)	10	43.4% (35.6% - 51.2%)
Prevention	Cholesterol Screening	33	83.1% (80.0% - 85.9%)	28	79.5% (75.7% - 82.9%)
Disability	Hearing Disability	24	7.3% (6.3% - 8.3%)	24	5.9% (5.1% - 6.7%)
Disability	Cognitive Disability	19	10.6% (8.7% - 12.5%)	24	11.2% (9.2% - 13.2%)
Disability	Self-care Disability	18	3.2% (2.7% - 3.8%)	15	2.8% (2.3% - 3.2%)
Disability	Vision Disability	15	3.8% (3.2% - 4.5%)	11	3.4% (2.8% - 4.0%)
Disability	Any Disability	22	24.8% (20.7% - 29.1%)	26	22.6% (18.7% - 26.5%)
Disability	Independent Living Disability	21	6.2% (5.1% - 7.3%)	19	5.9% (4.9% - 6.9%)
Disability	Mobility Disability	20	11.3% (9.2% - 13.4%)	17	9.0% (7.4% - 10.7%)

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

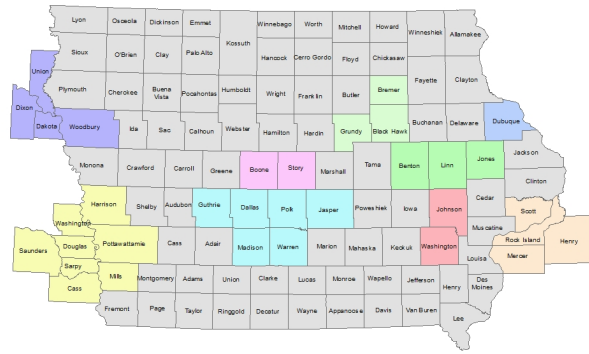
Appendix 3: Metropolitan Non-Core Counties

Benton County falls into the group of metropolitan non-core counties. In this data, 12 counties fall into this group. The table below lists all counties in the group, sorted by the population estimate in the CDC PLACES dataset.

County	Population Group	Population
Dallas County	Metropolitan Non-Core	103,796
Warren County	Metropolitan Non-Core	53,402
Jasper County	Metropolitan Non-Core	37,764
Benton County	Metropolitan Non-Core	25,691
Bremer County	Metropolitan Non-Core	25,081
Washington County	Metropolitan Non-Core	22,491
Jones County	Metropolitan Non-Core	20,805
Madison County	Metropolitan Non-Core	16,773
Harrison County	Metropolitan Non-Core	14,669
Mills County	Metropolitan Non-Core	14,465
Grundy County	Metropolitan Non-Core	12,347
Guthrie County	Metropolitan Non-Core	10,567

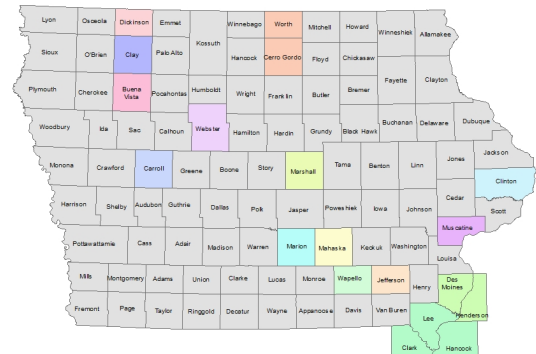
Metropolitan and micropolitan areas can be found in the link and the maps below.

<https://www.icip.iastate.edu/maps/refmaps/cofips>



March 2020 Metropolitan Statistical Area Definitions

- | | | |
|-------------------------------------|--------------------------------|-----------------------------|
| Ames, IA | Des Moines-West Des Moines, IA | Omaha-Council Bluffs, NE-IA |
| Cedar Rapids, IA | Dubuque, IA | Sioux City, IA-NE-SD |
| Davenport-Moline-Rock Island, IA-IL | Iowa City, IA | Waterloo-Cedar Falls, IA |



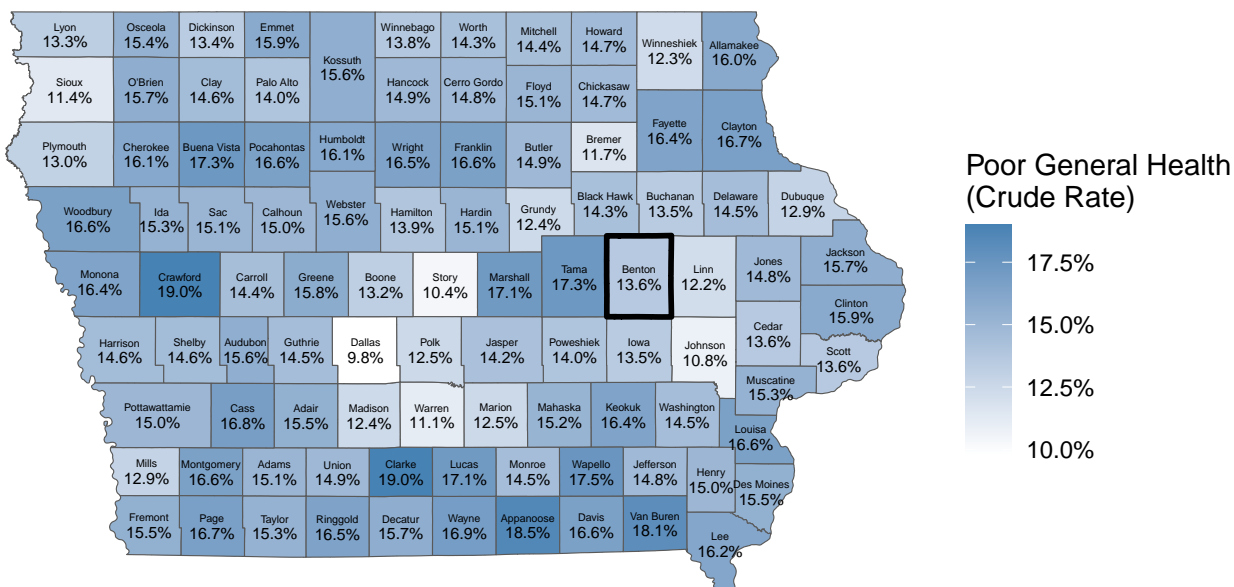
March 2020 Micropolitan Statistical Area Definitions

- | | | | | |
|-------------------|-------------------------------|------------------|---------------|-----------------|
| Burlington, IA-IL | Fairfield, IA | Marshalltown, IA | Oskaloosa, IA | Spencer, IA |
| Carroll, IA | Fort Dodge, IA | Mason City, IA | Ottumwa, IA | Spirit Lake, IA |
| Clinton, IA | Fort Madison-Keokuk, IA-IL-MO | Muscatine, IA | Pella, IA | Storm Lake, IA |

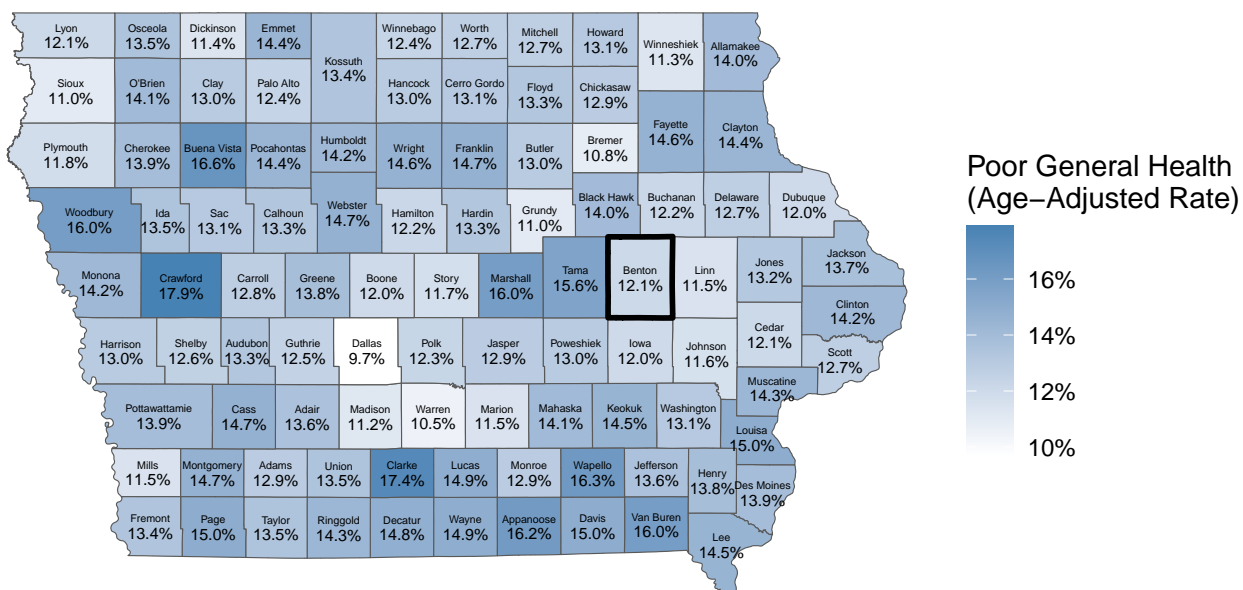
Appendix 4: County Maps

Poor General Health

Fair or poor self-rated health status among adults aged ≥ 18 years



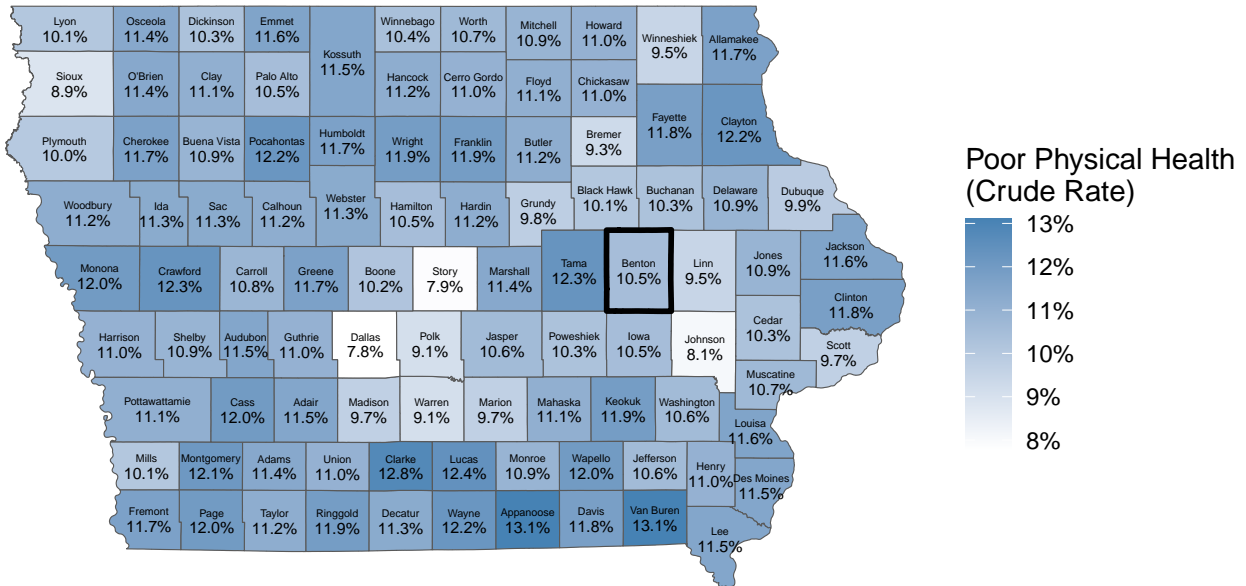
Data Source: CDC PLACES 2023 Release, BRFSS 2021



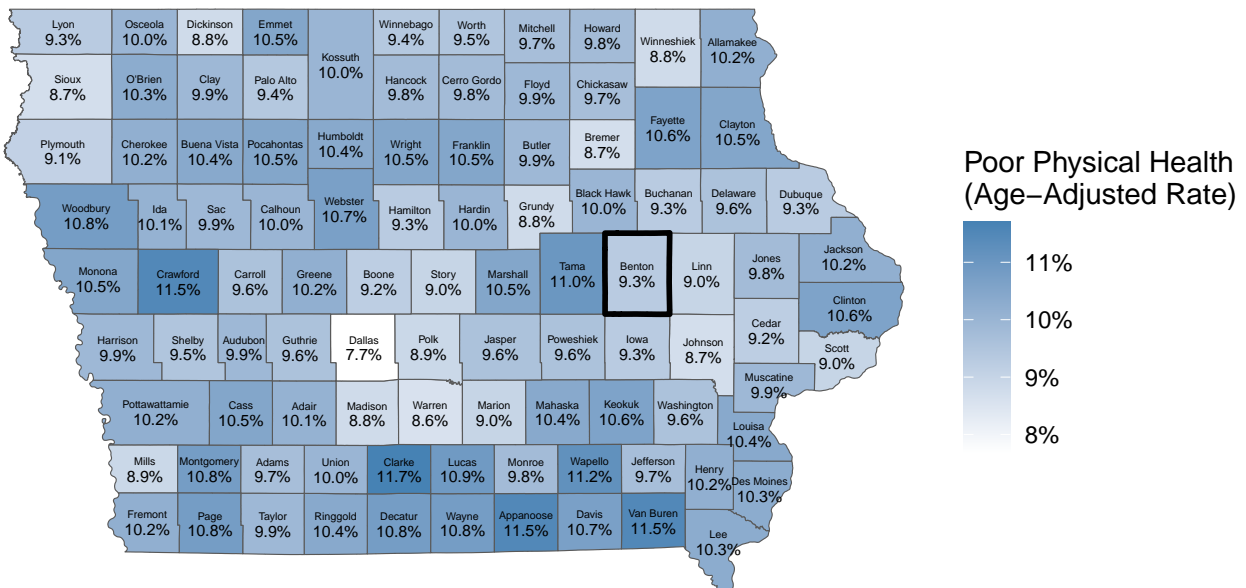
Data Source: CDC PLACES 2023 Release, BRFSS 2021

Poor Physical Health

Physical health not good for ≥ 14 days among adults aged ≥ 18 years



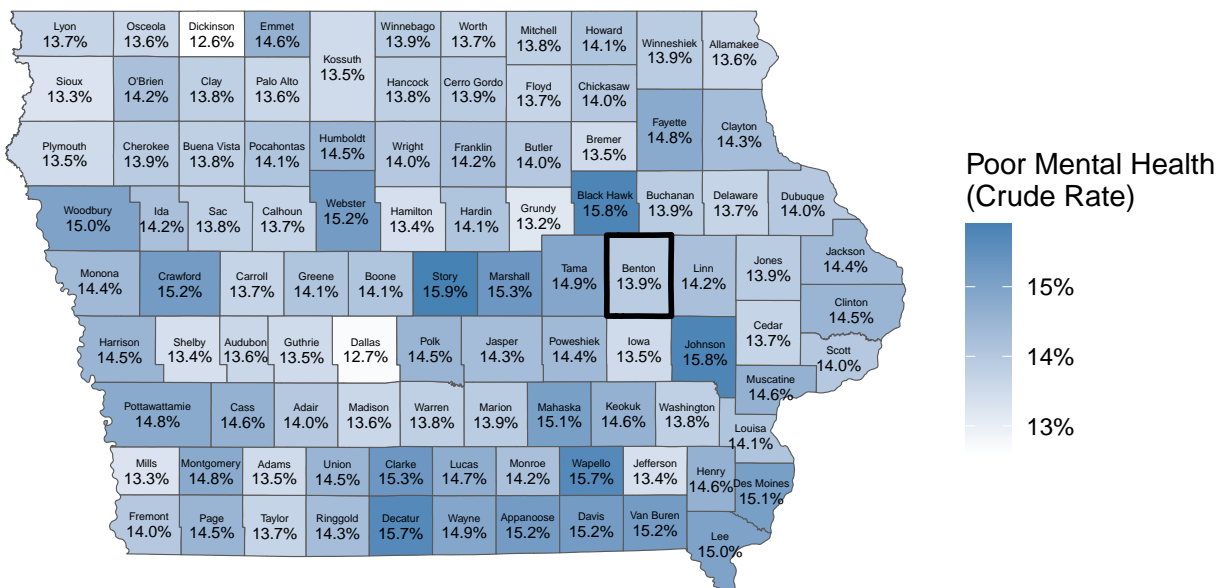
Data Source: CDC PLACES 2023 Release, BRFSS 2021



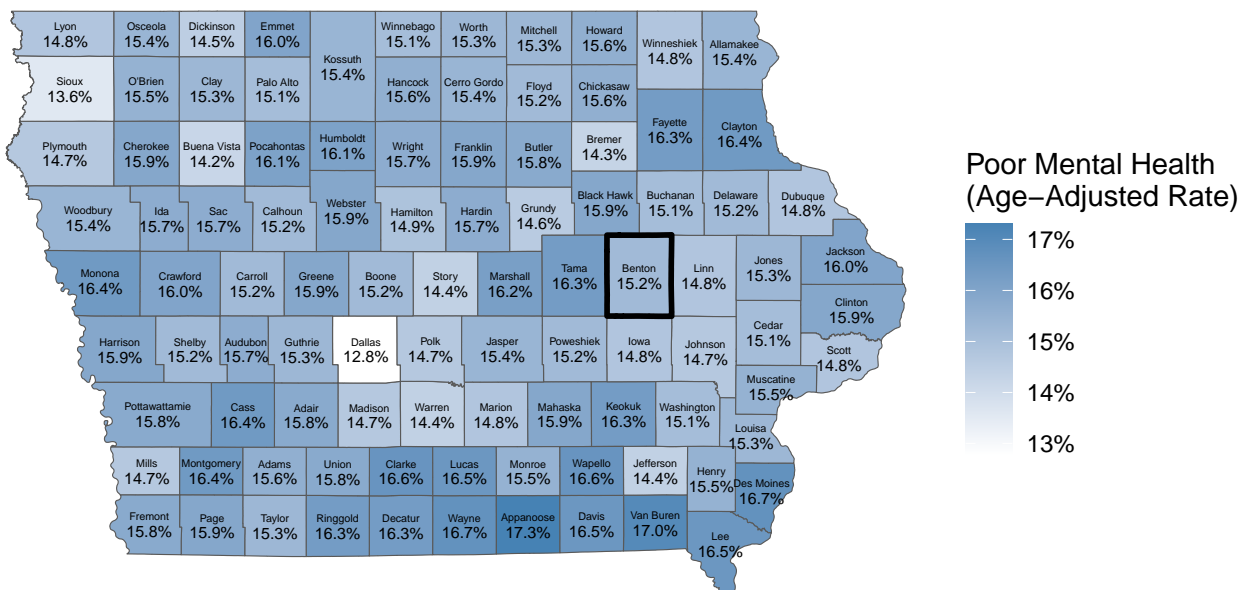
Data Source: CDC PLACES 2023 Release, BRFSS 2021

Poor Mental Health

Mental health not good for ≥ 14 days among adults aged ≥ 18 years



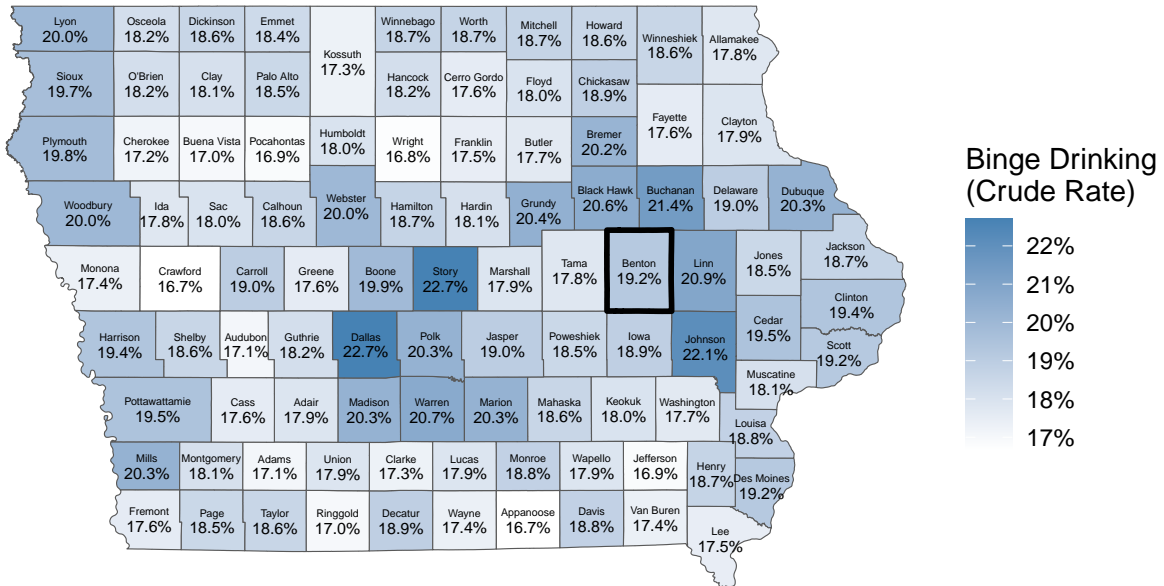
Data Source: CDC PLACES 2023 Release, BRFSS 2021



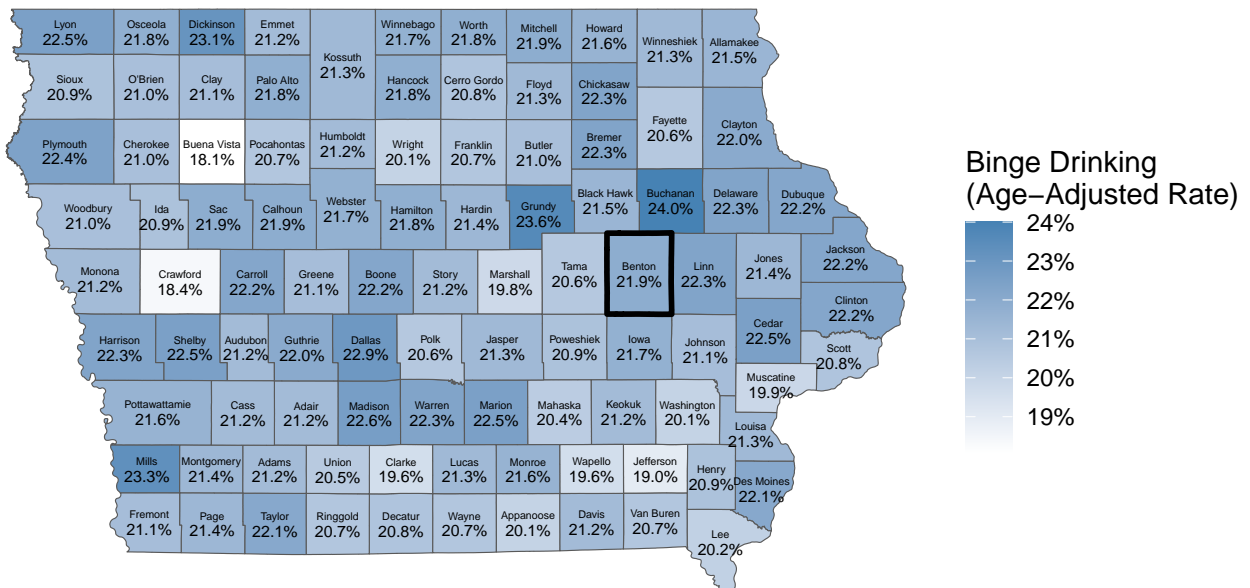
Data Source: CDC PLACES 2023 Release, BRFSS 2021

Binge Drinking

Binge drinking among adults aged ≥ 18 years



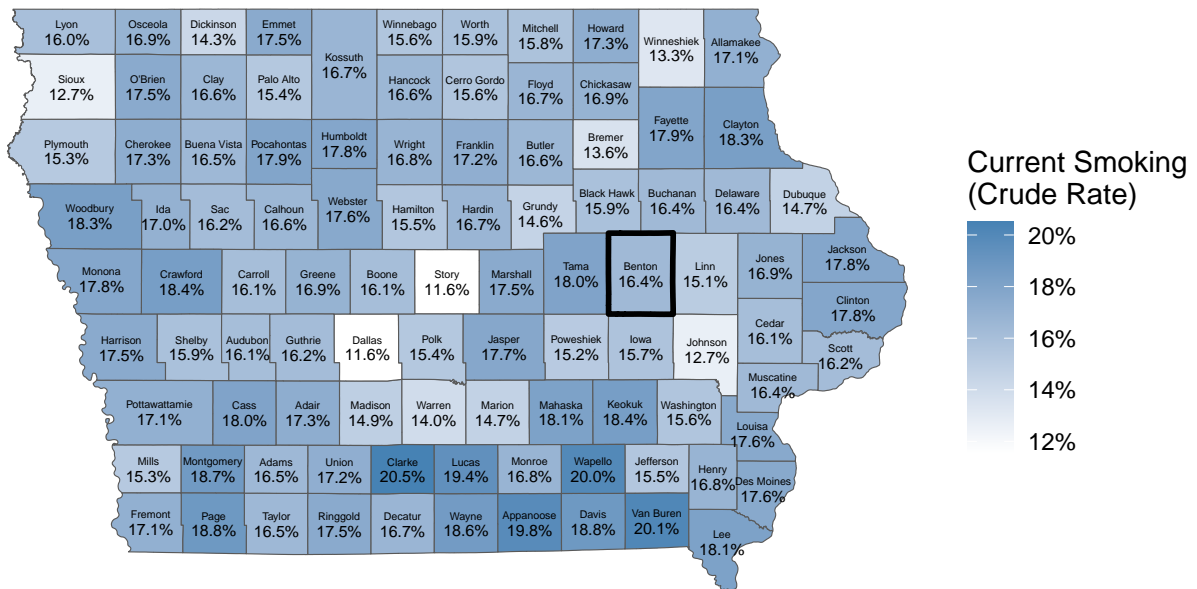
Data Source: CDC PLACES 2023 Release, BRFSS 2021



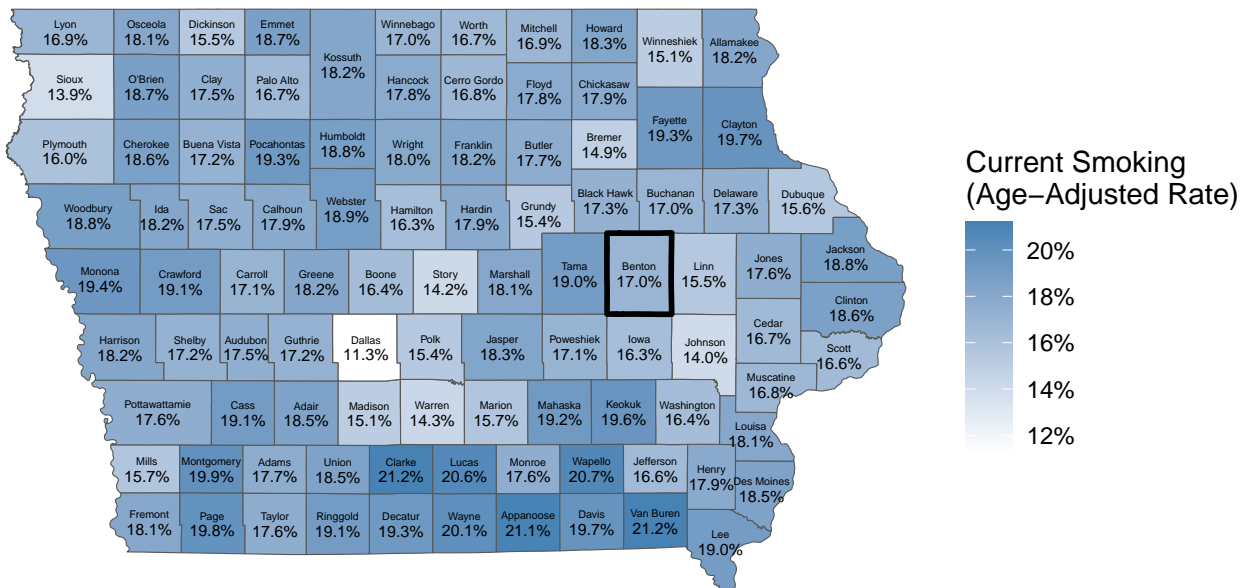
Data Source: CDC PLACES 2023 Release, BRFSS 2021

Current Smoking

Current smoking among adults aged ≥ 18 years



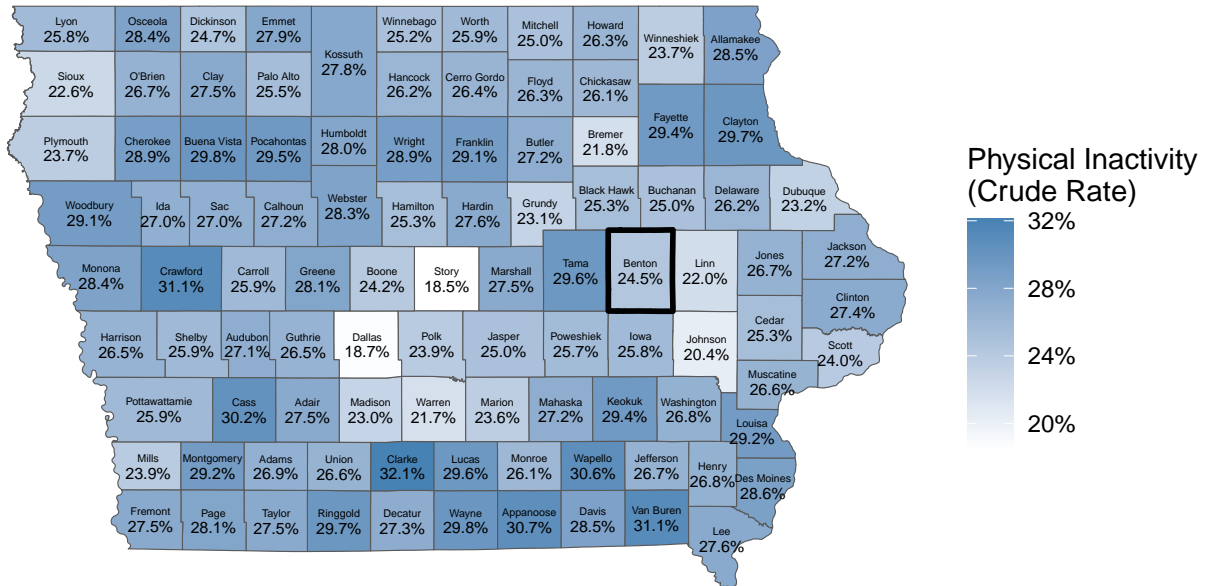
Data Source: CDC PLACES 2023 Release, BRFSS 2021



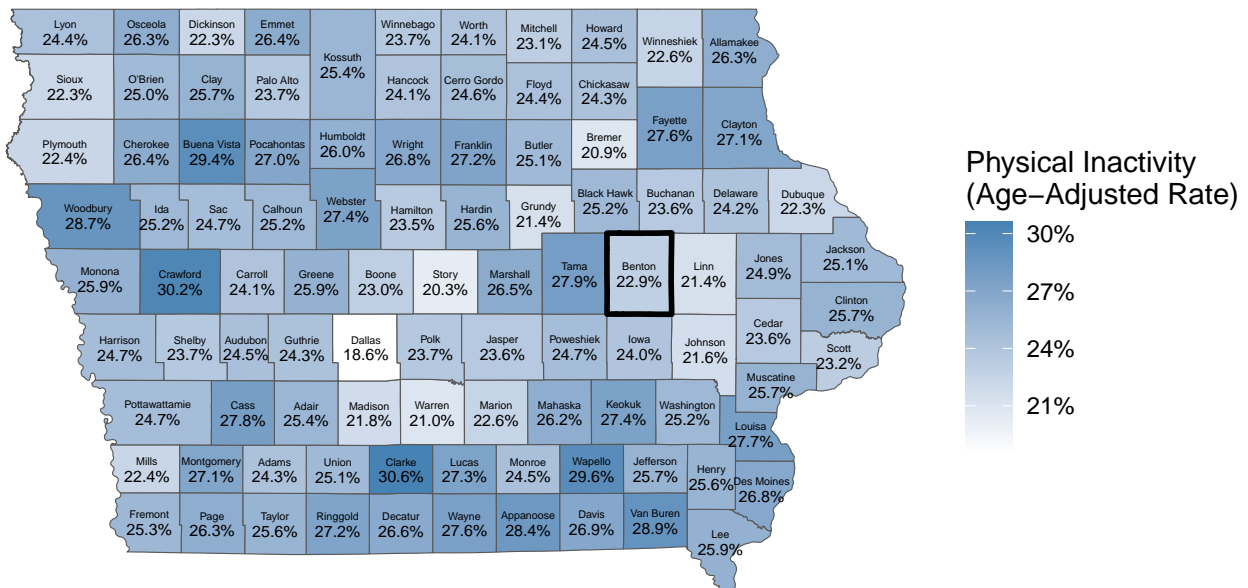
Data Source: CDC PLACES 2023 Release, BRFSS 2021

Physical Inactivity

No leisure-time physical activity among adults aged ≥ 18 years



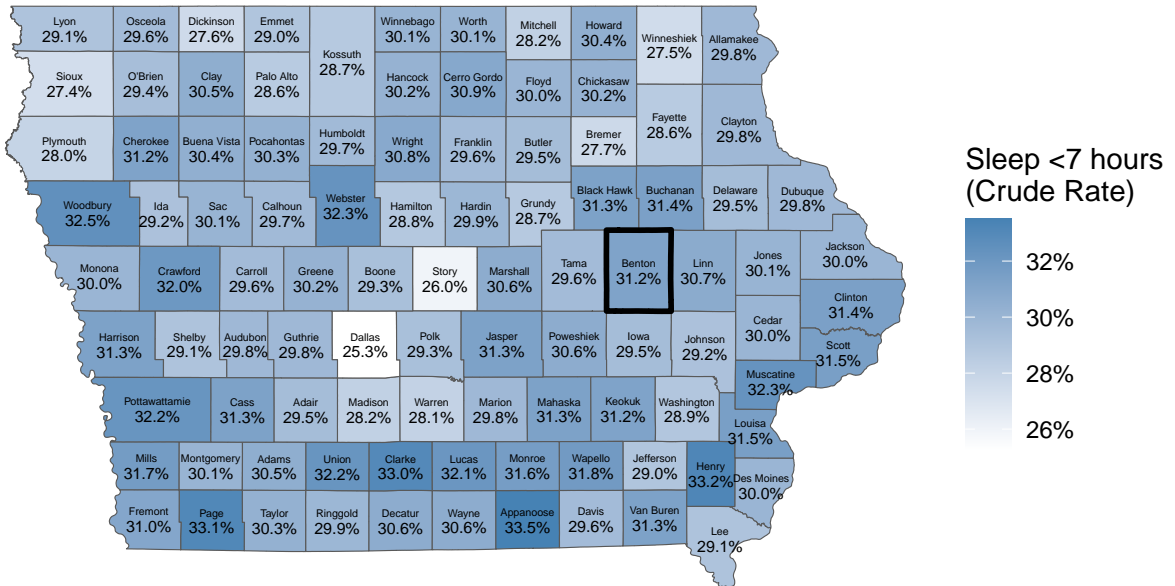
Data Source: CDC PLACES 2023 Release, BRFSS 2021



Data Source: CDC PLACES 2023 Release, BRFSS 2021

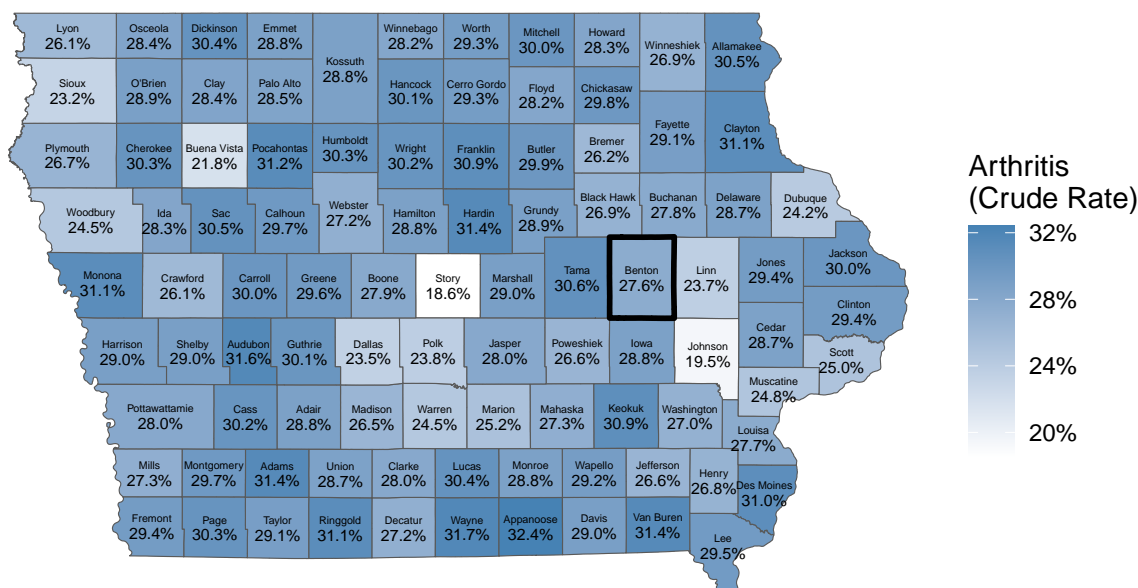
Sleep <7 hours

Sleeping less than 7 hours among adults aged ≥ 18 years

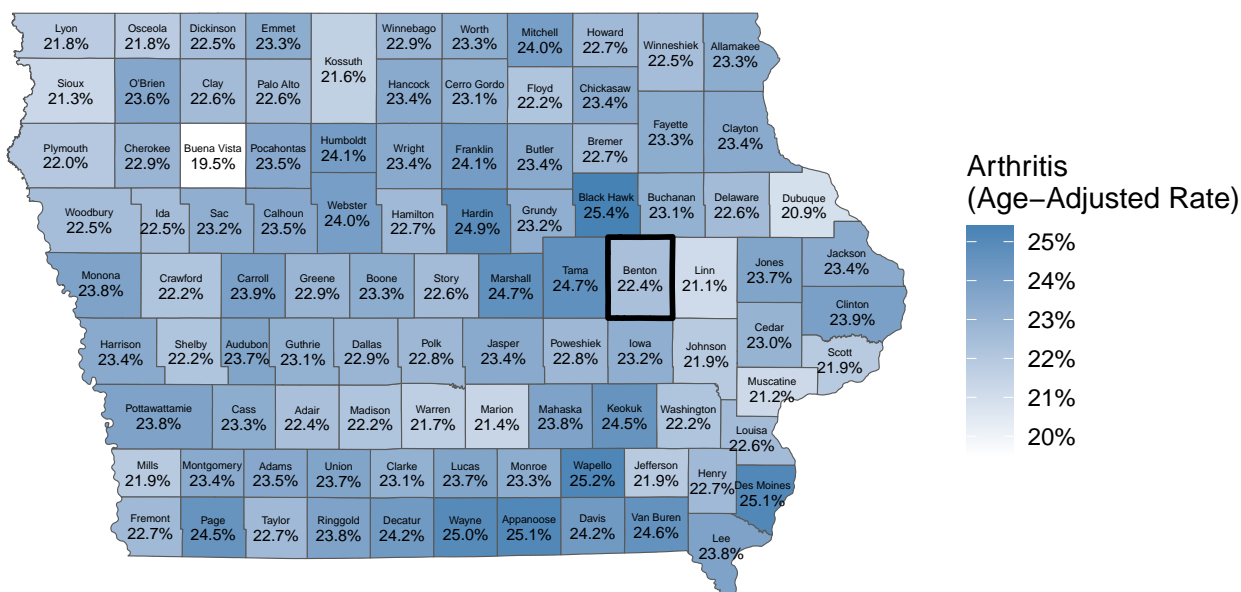


Arthritis

Arthritis among adults aged ≥ 18 years



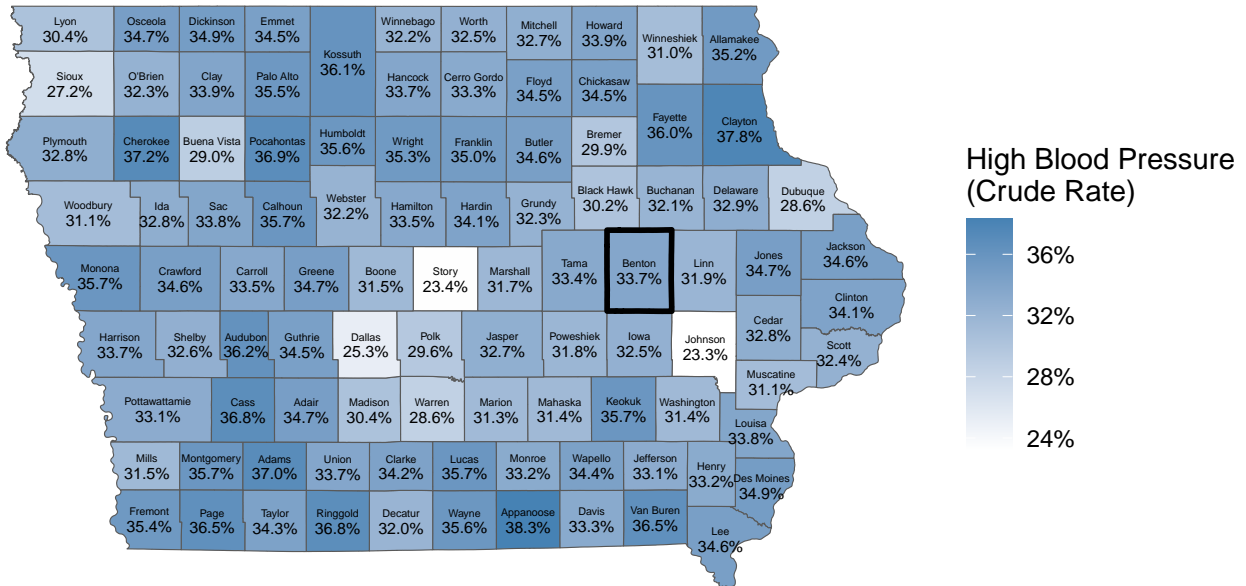
Data Source: CDC PLACES 2023 Release, BRFSS 2021



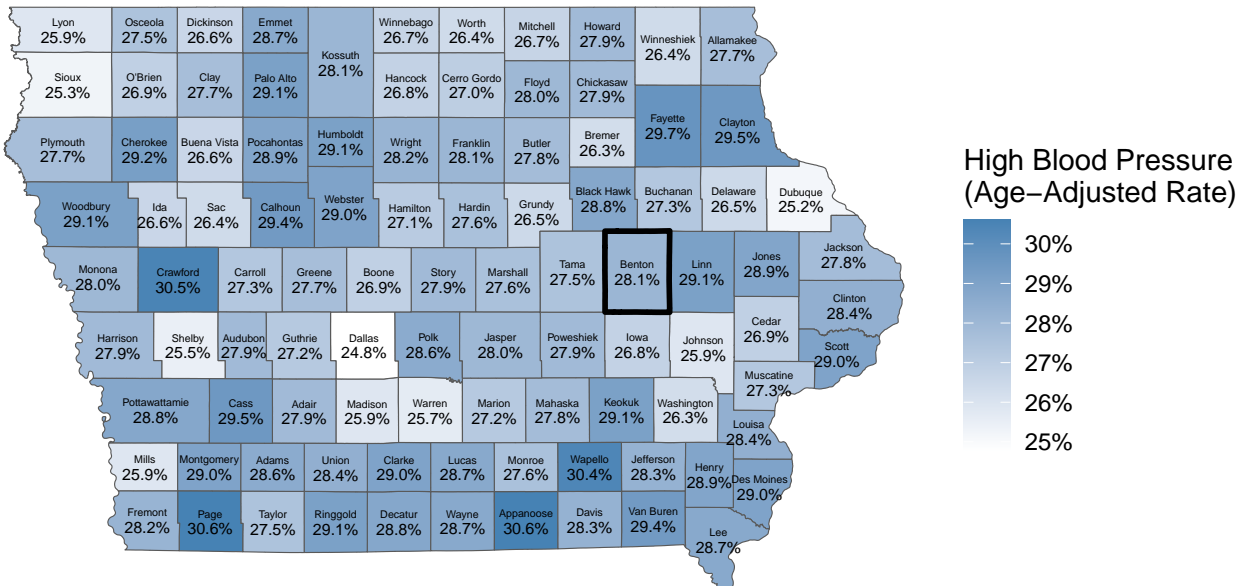
Data Source: CDC PLACES 2023 Release, BRFSS 2021

High Blood Pressure

High blood pressure among adults aged >=18 years

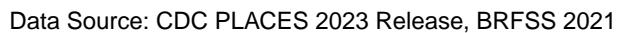
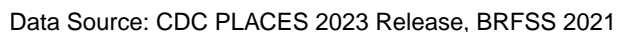


Data Source: CDC PLACES 2023 Release, BRFSS 2021



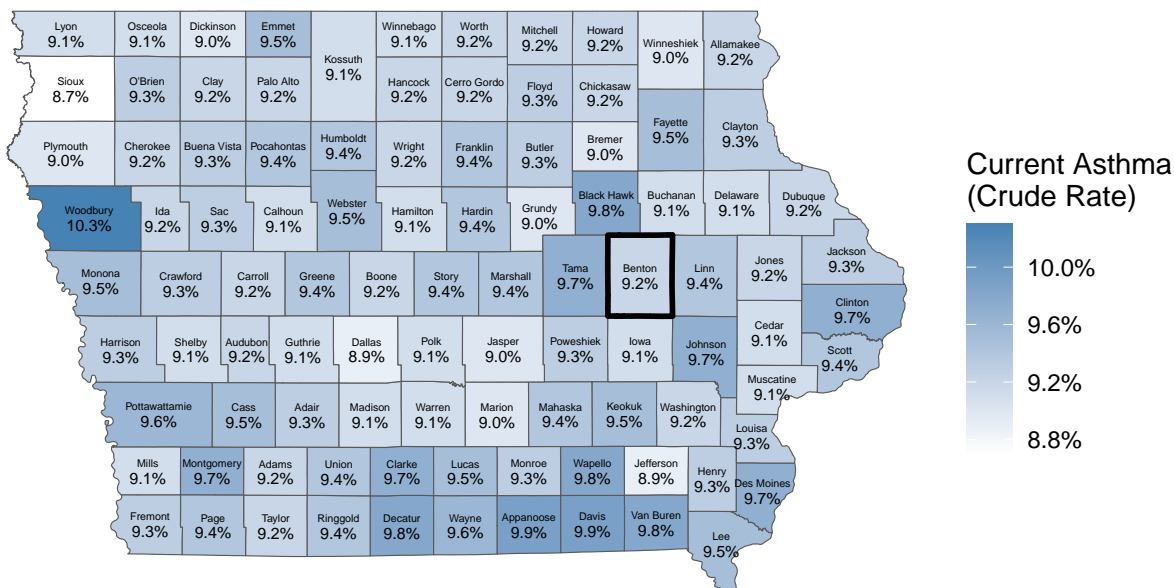
Data Source: CDC PLACES 2023 Release, BRFSS 2021

Cancer (excluding skin cancer) among adults aged ≥ 18 years

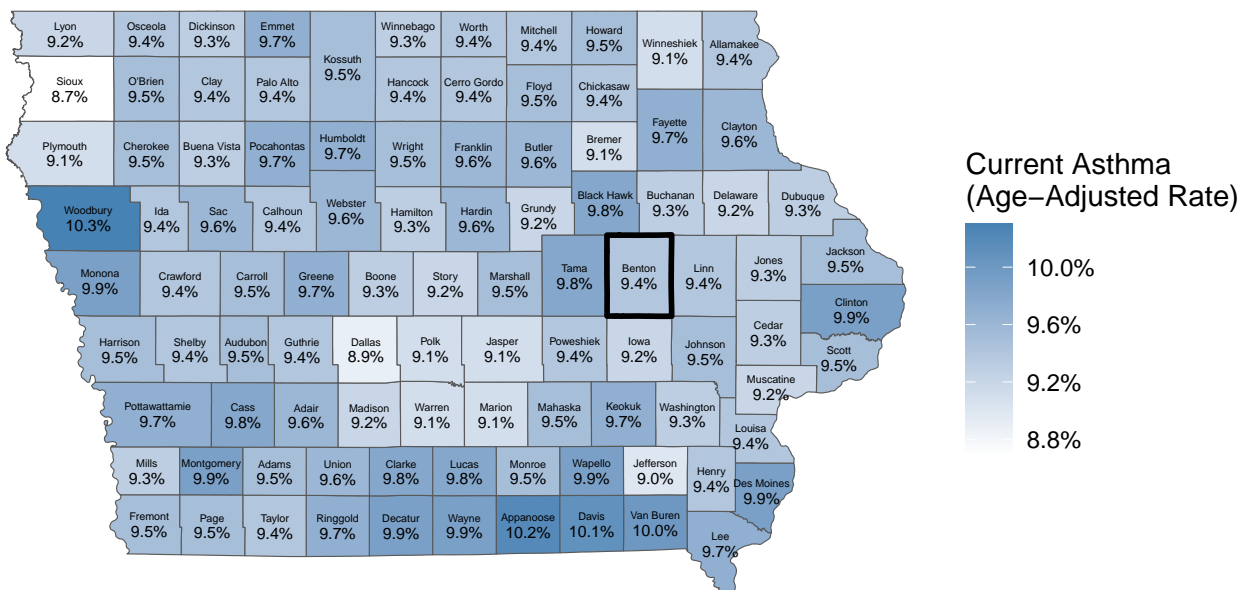


Current Asthma

Current asthma among adults aged ≥ 18 years



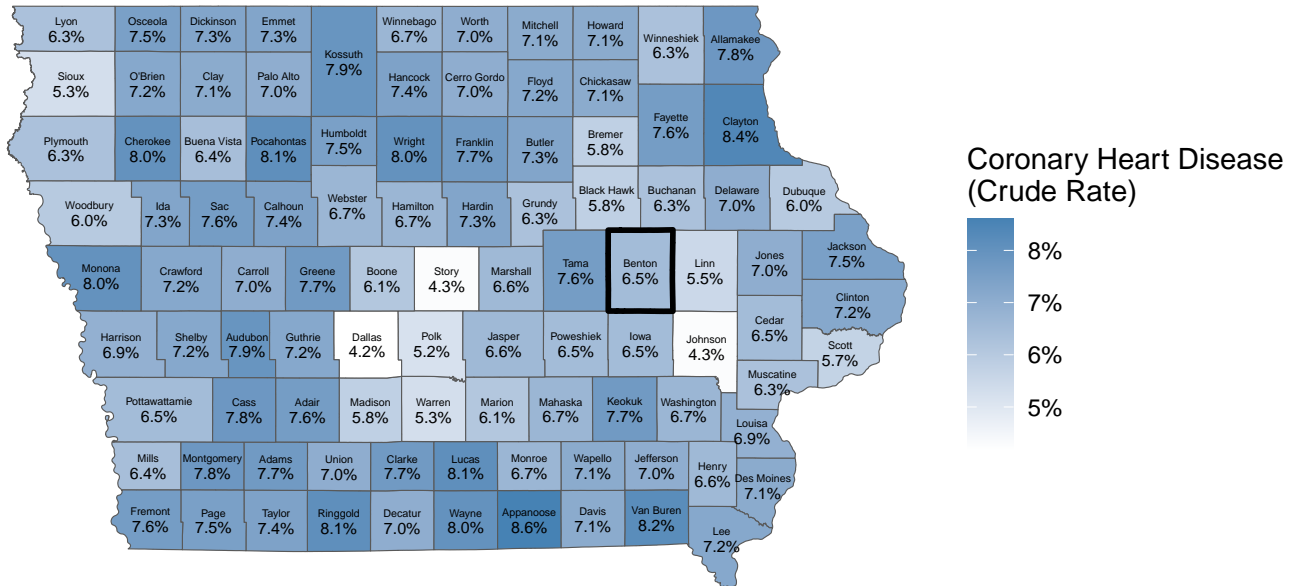
Data Source: CDC PLACES 2023 Release, BRFSS 2021



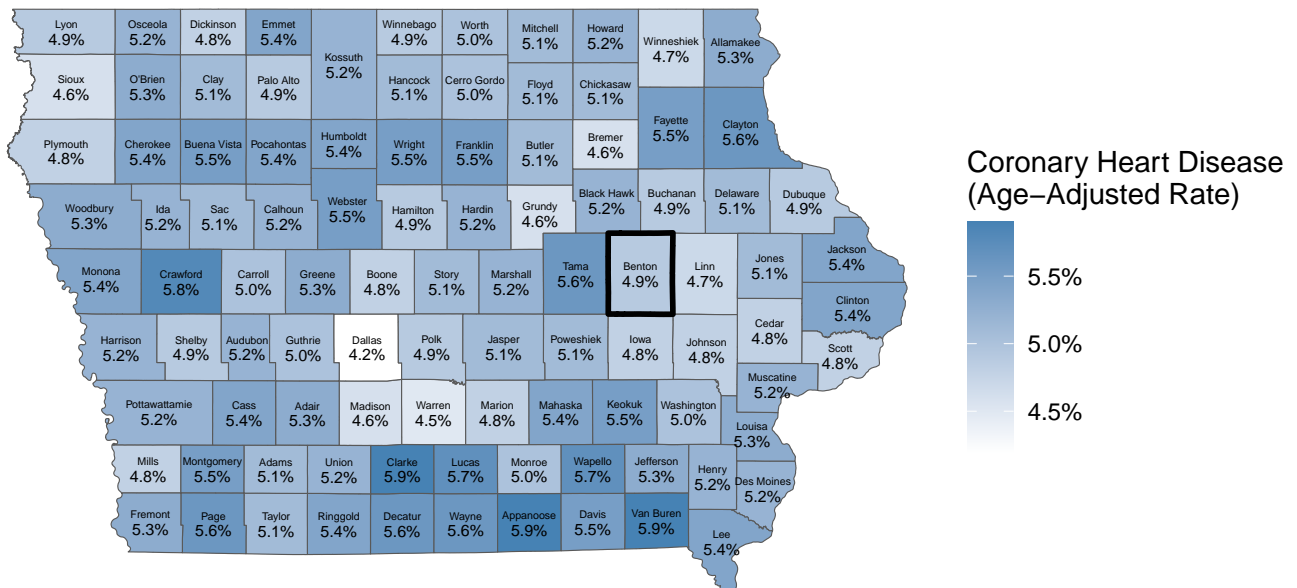
Data Source: CDC PLACES 2023 Release, BRFSS 2021

Coronary Heart Disease

Coronary heart disease among adults aged ≥ 18 years



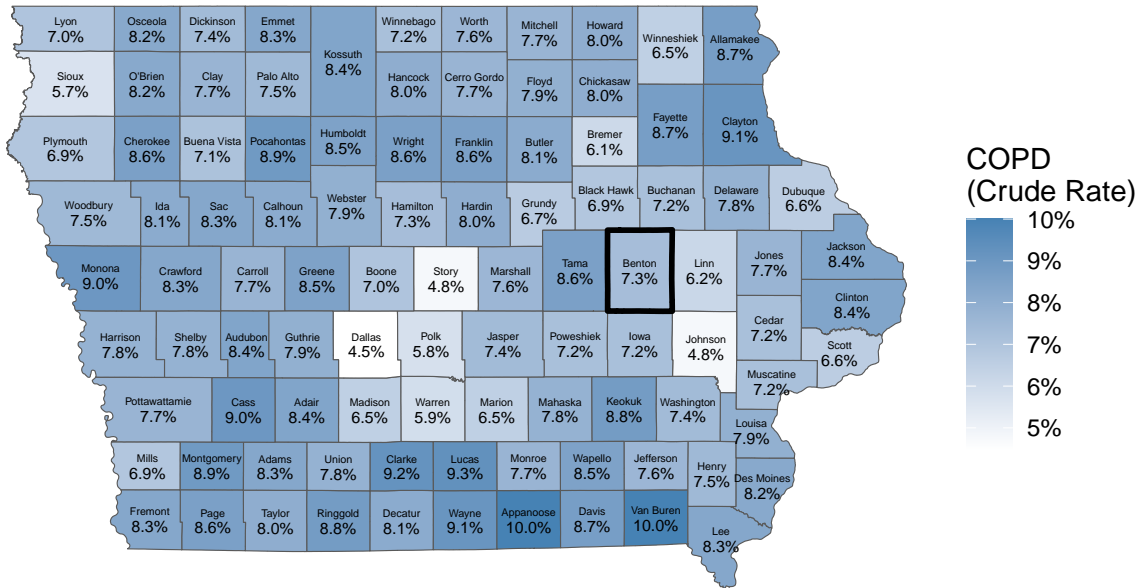
Data Source: CDC PLACES 2023 Release, BRFSS 2021



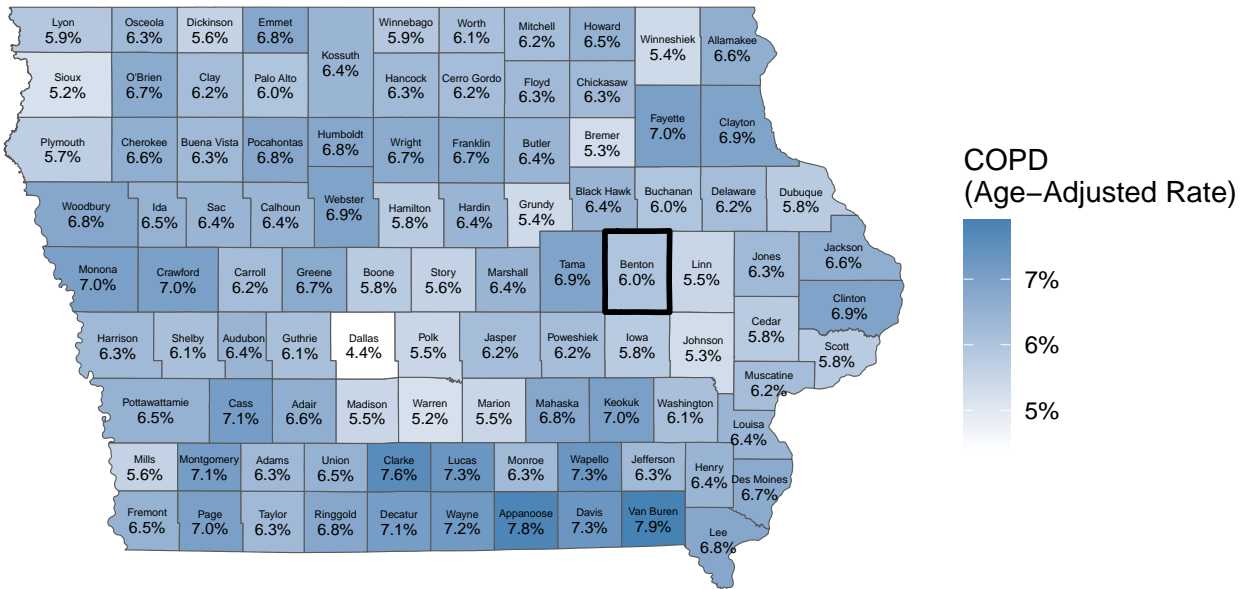
Data Source: CDC PLACES 2023 Release, BRFSS 2021

COPD

Chronic obstructive pulmonary disease among adults aged >=18 years



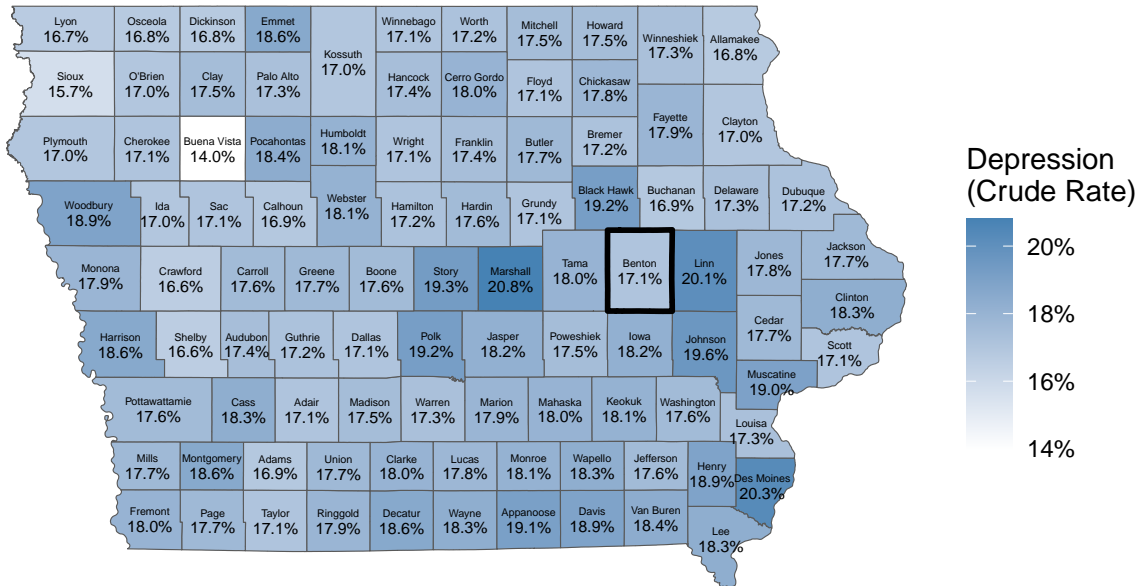
Data Source: CDC PLACES 2023 Release, BRFSS 2021



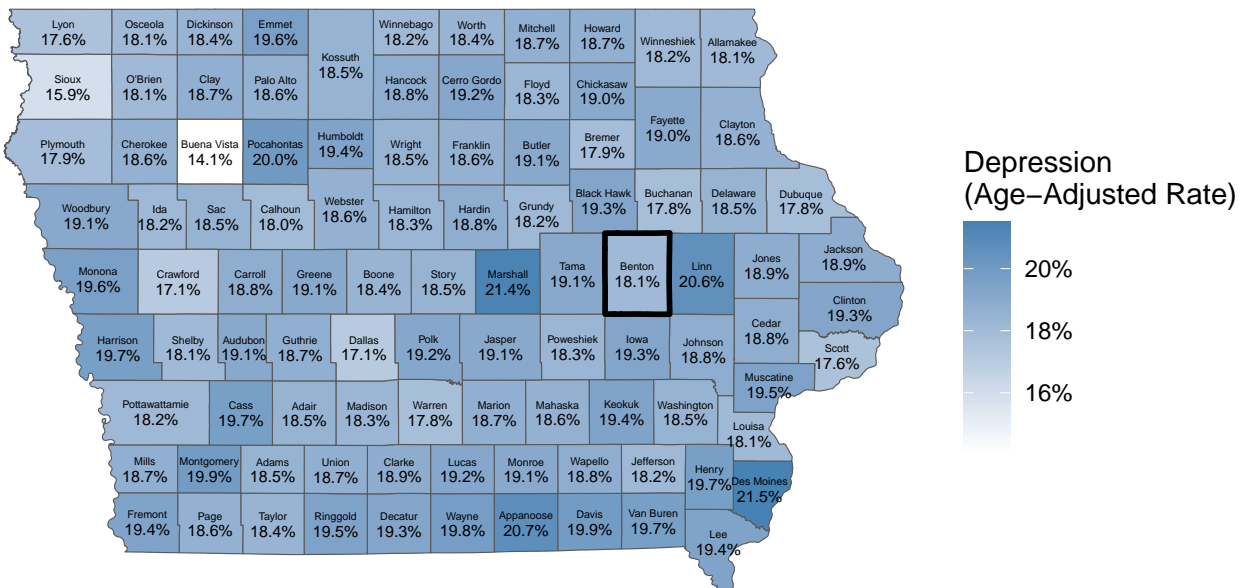
Data Source: CDC PLACES 2023 Release, BRFSS 2021

Depression

Depression among adults aged >=18 years



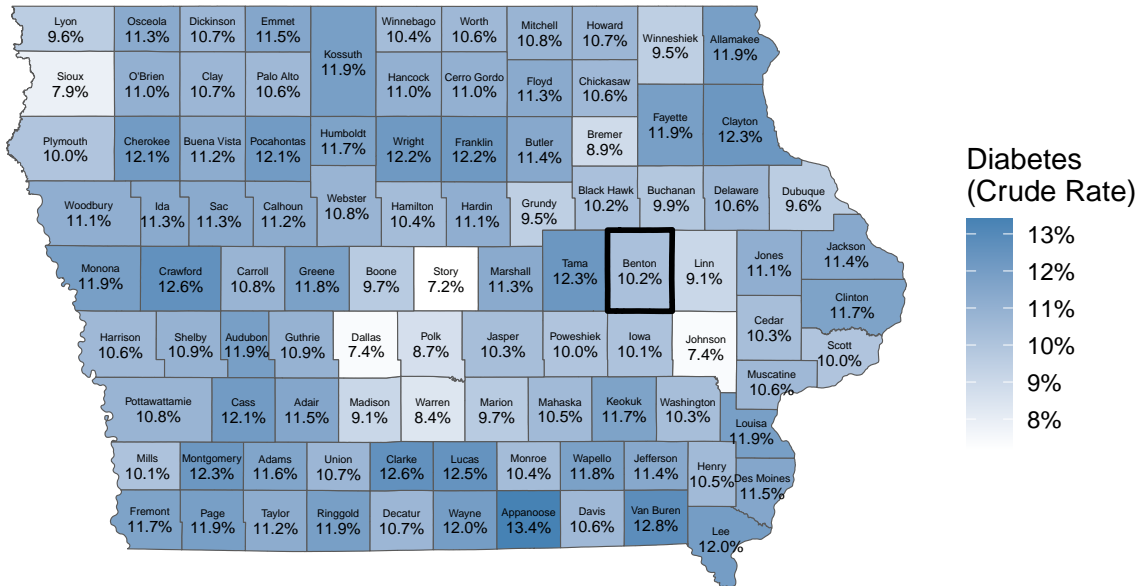
Data Source: CDC PLACES 2023 Release, BRFSS 2021



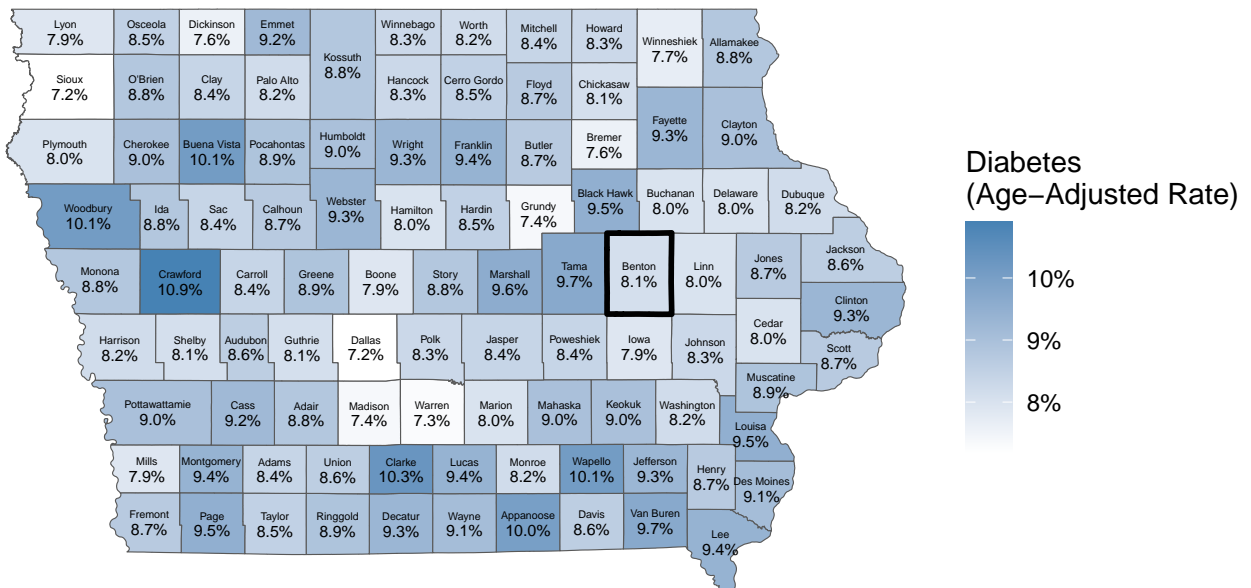
Data Source: CDC PLACES 2023 Release, BRFSS 2021

Diabetes

Diagnosed diabetes among adults aged >=18 years



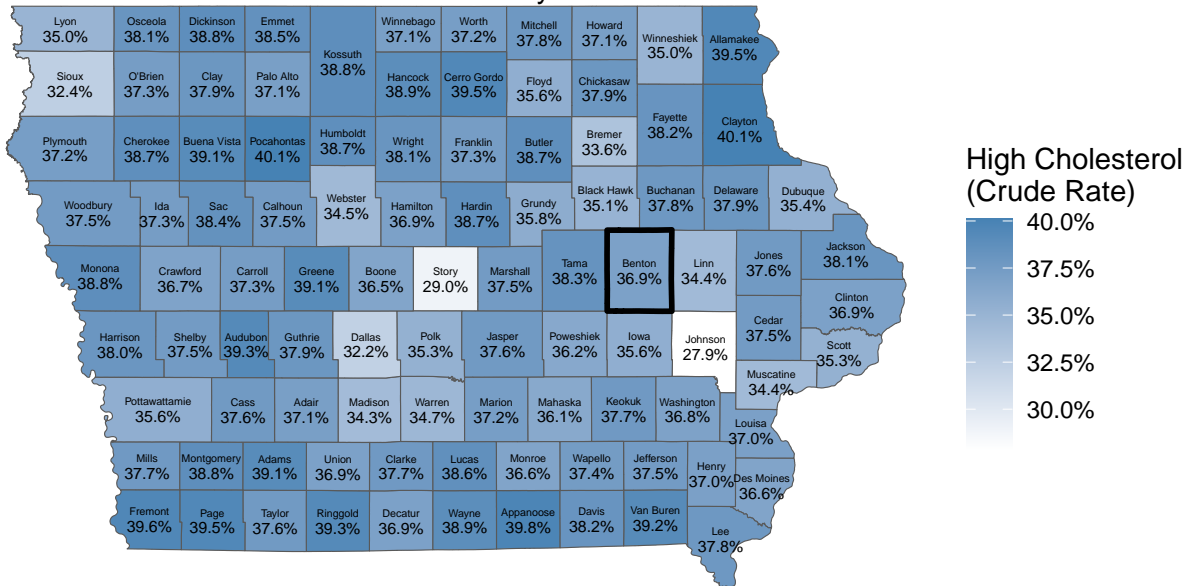
Data Source: CDC PLACES 2023 Release, BRFSS 2021



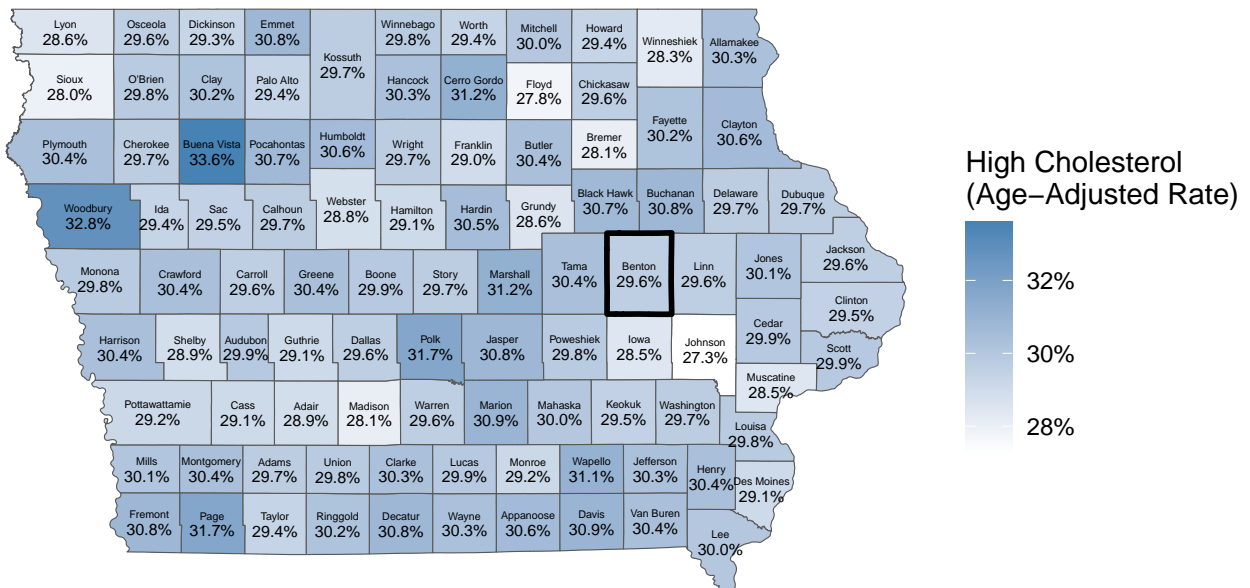
Data Source: CDC PLACES 2023 Release, BRFSS 2021

High Cholesterol

High cholesterol among adults aged ≥ 18 years who have been screened in the past 5 years



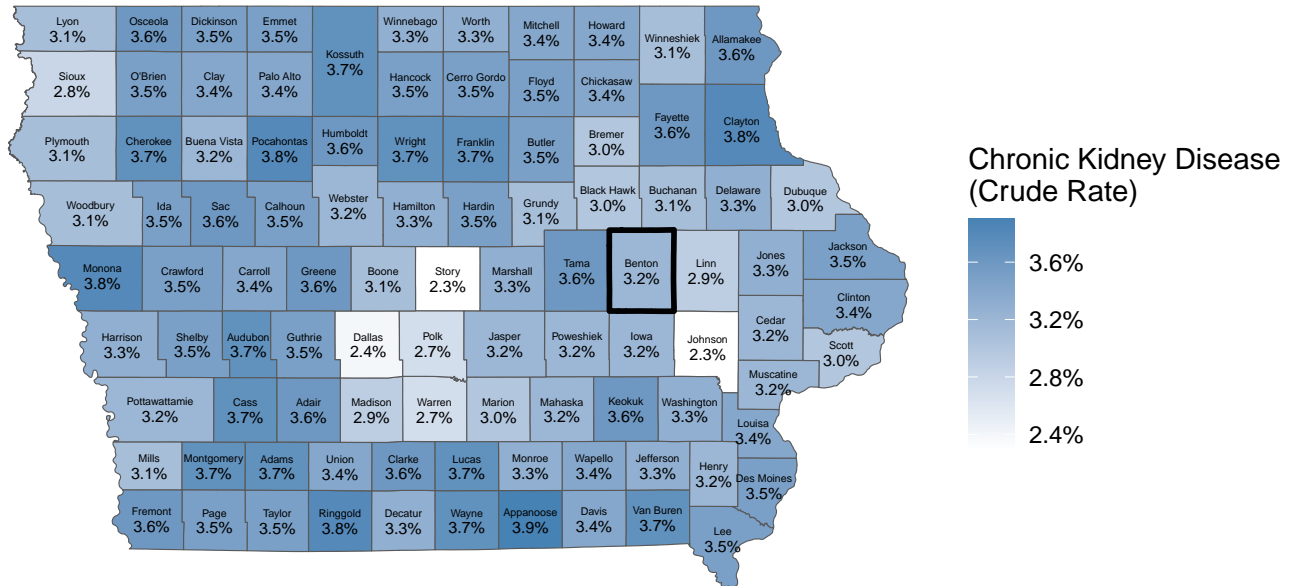
Data Source: CDC PLACES 2023 Release, BRFSS 2021



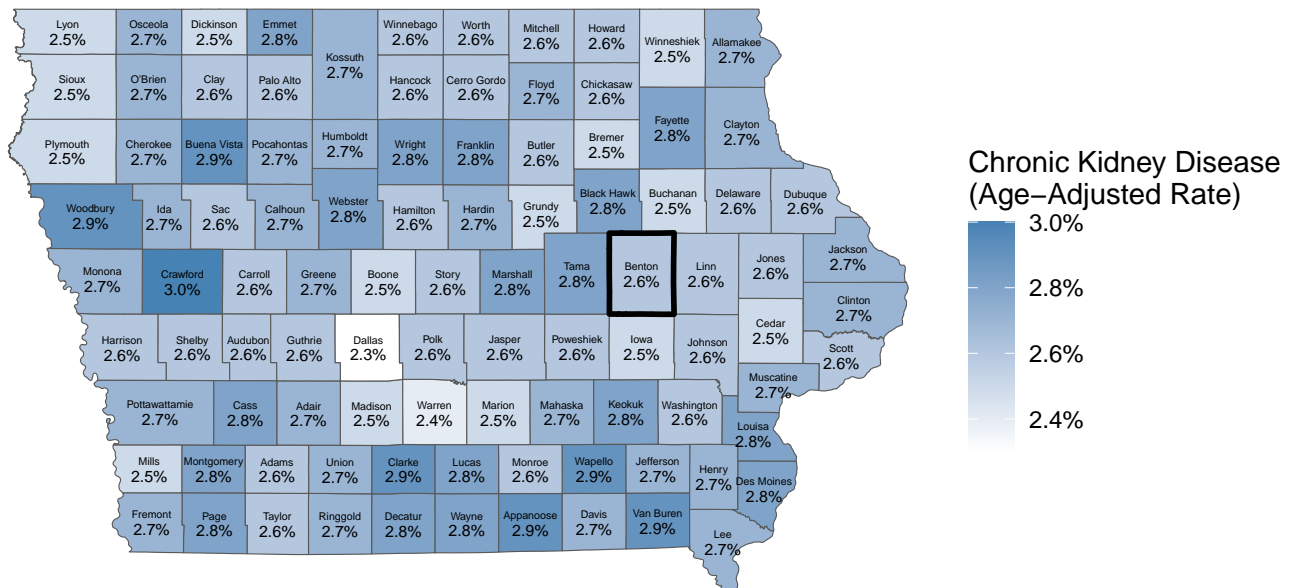
Data Source: CDC PLACES 2023 Release, BRFSS 2021

Chronic Kidney Disease

Chronic kidney disease among adults aged ≥ 18 years



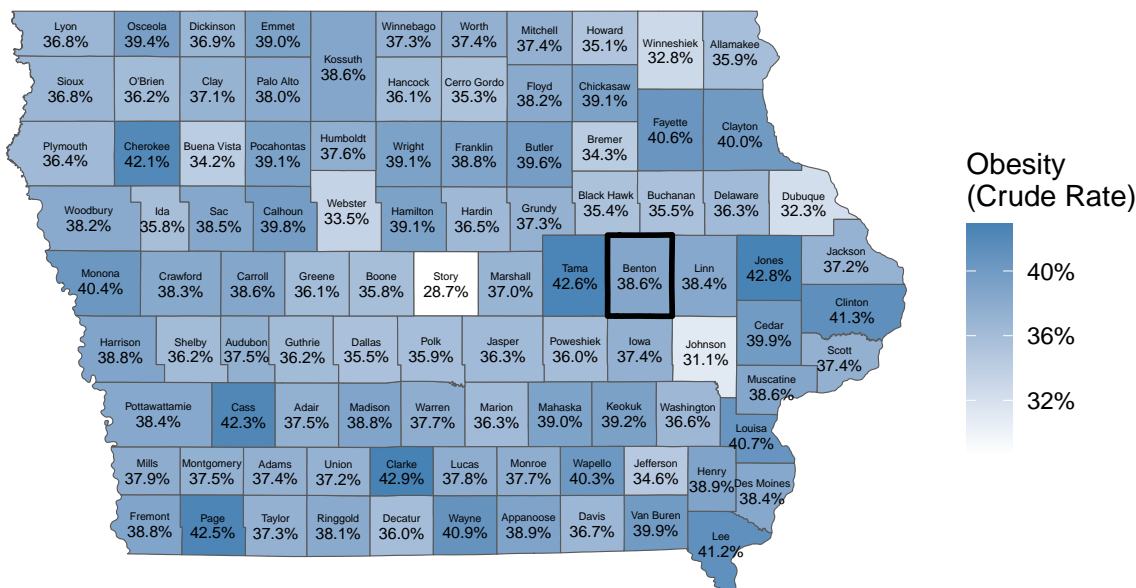
Data Source: CDC PLACES 2023 Release, BRFSS 2021



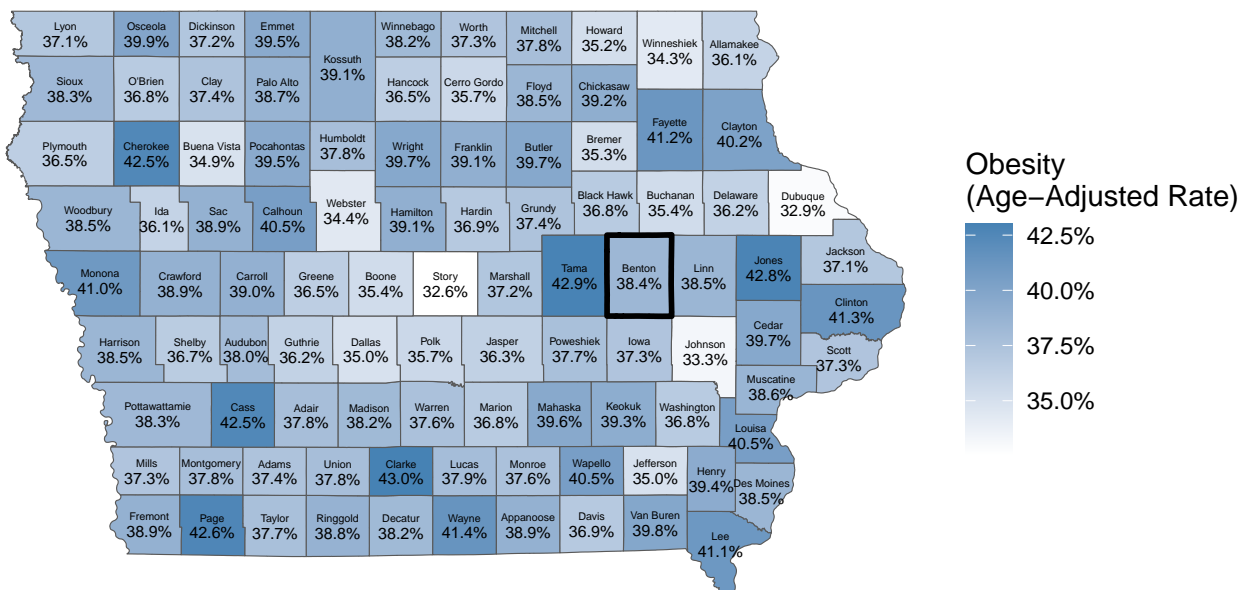
Data Source: CDC PLACES 2023 Release, BRFSS 2021

Obesity

Obesity among adults aged >=18 years



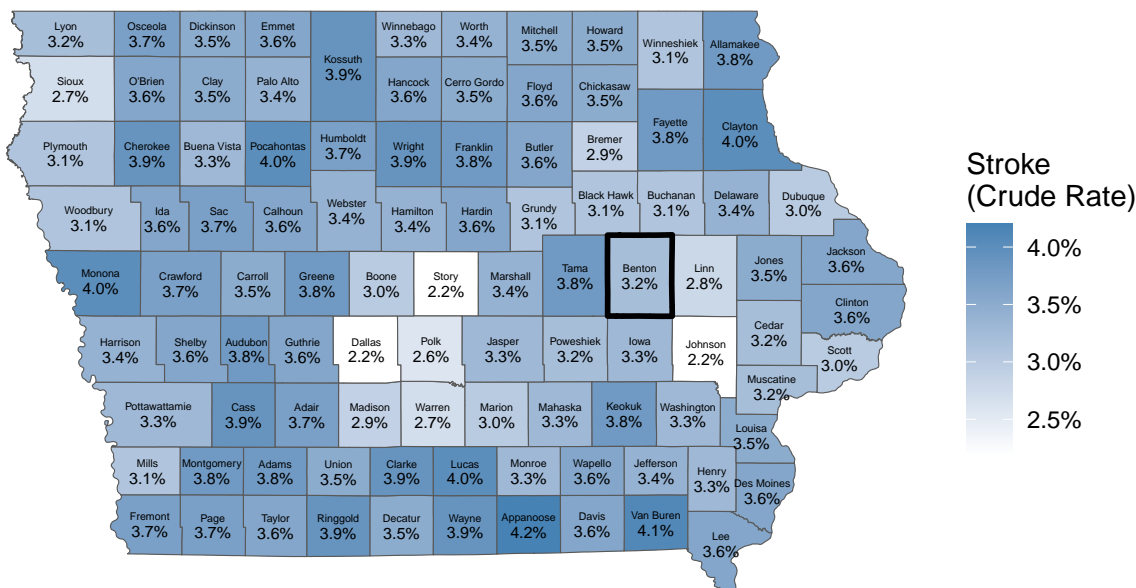
Data Source: CDC PLACES 2023 Release, BRFSS 2021



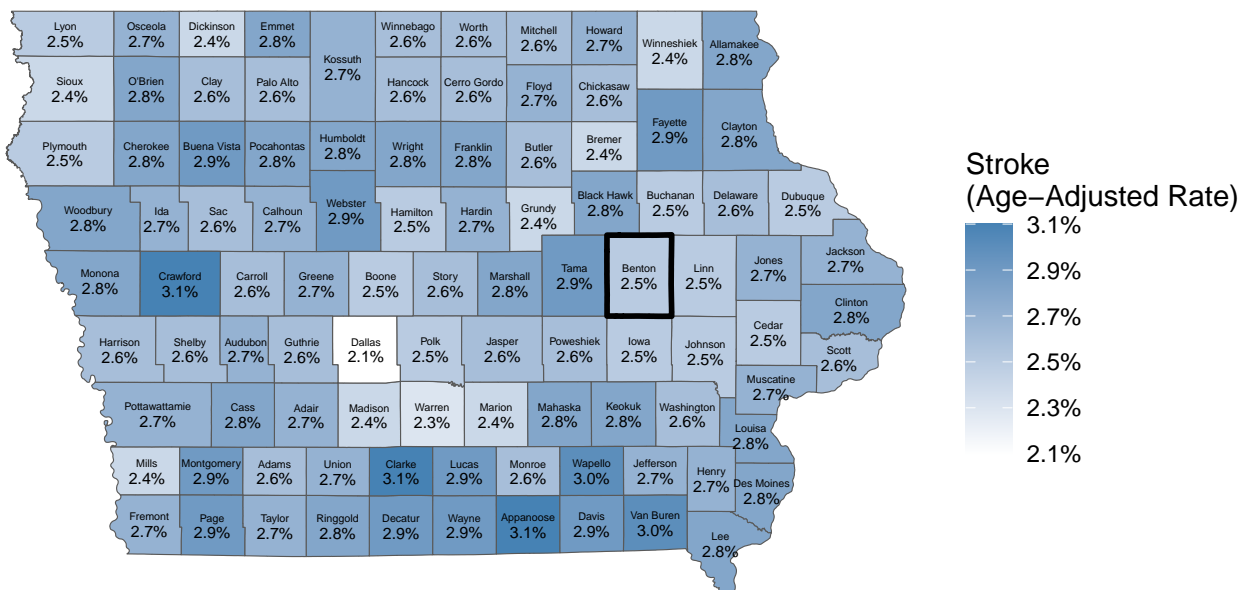
Data Source: CDC PLACES 2023 Release, BRFSS 2021

Stroke

Stroke among adults aged ≥ 18 years



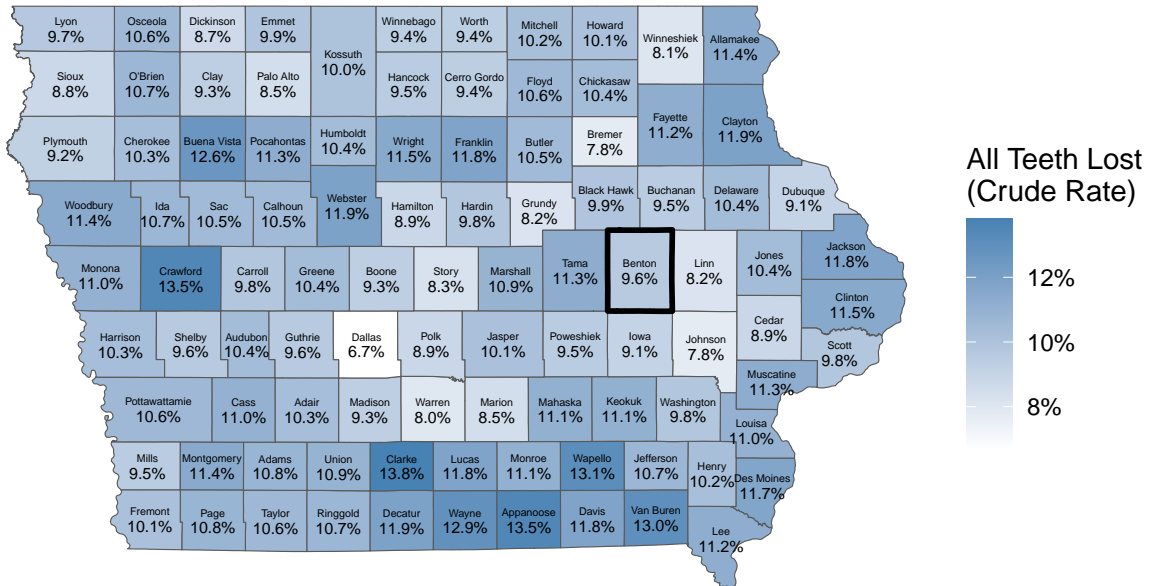
Data Source: CDC PLACES 2023 Release, BRFSS 2021



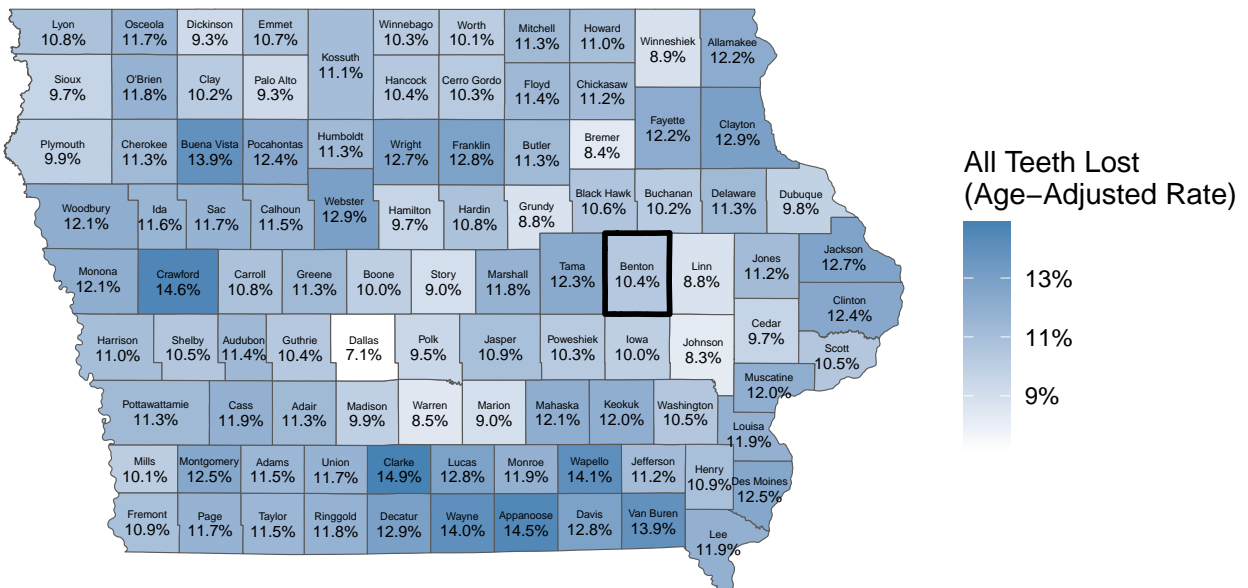
Data Source: CDC PLACES 2023 Release, BRFSS 2021

All Teeth Lost

All teeth lost among adults aged ≥ 65 years



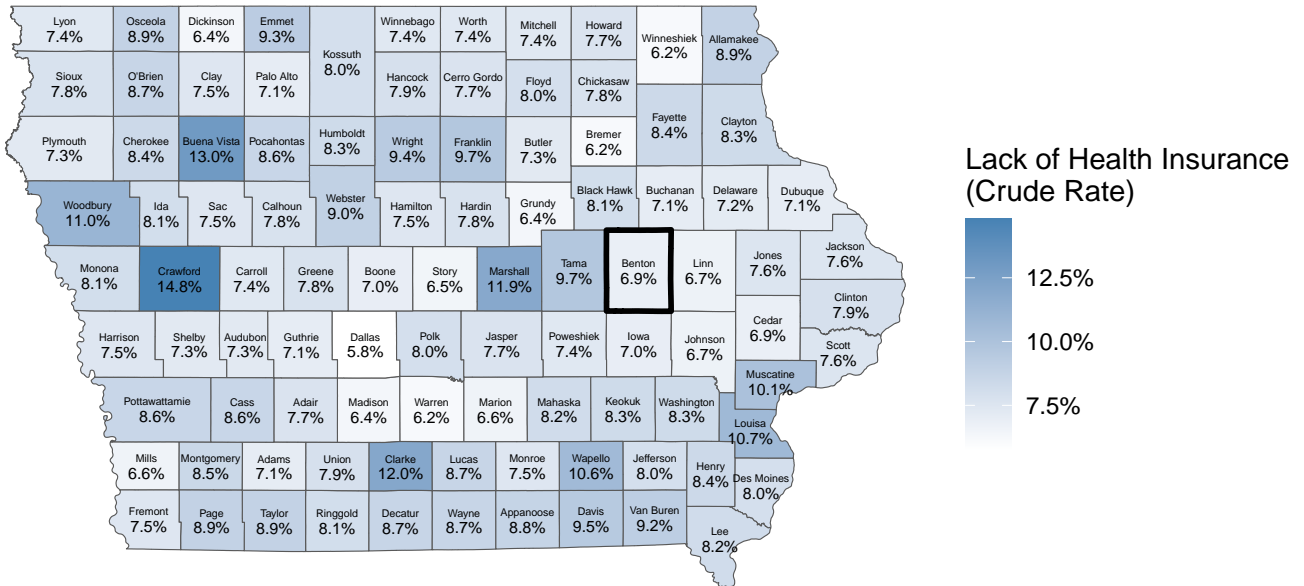
Data Source: CDC PLACES 2023 Release, BRFSS 2020



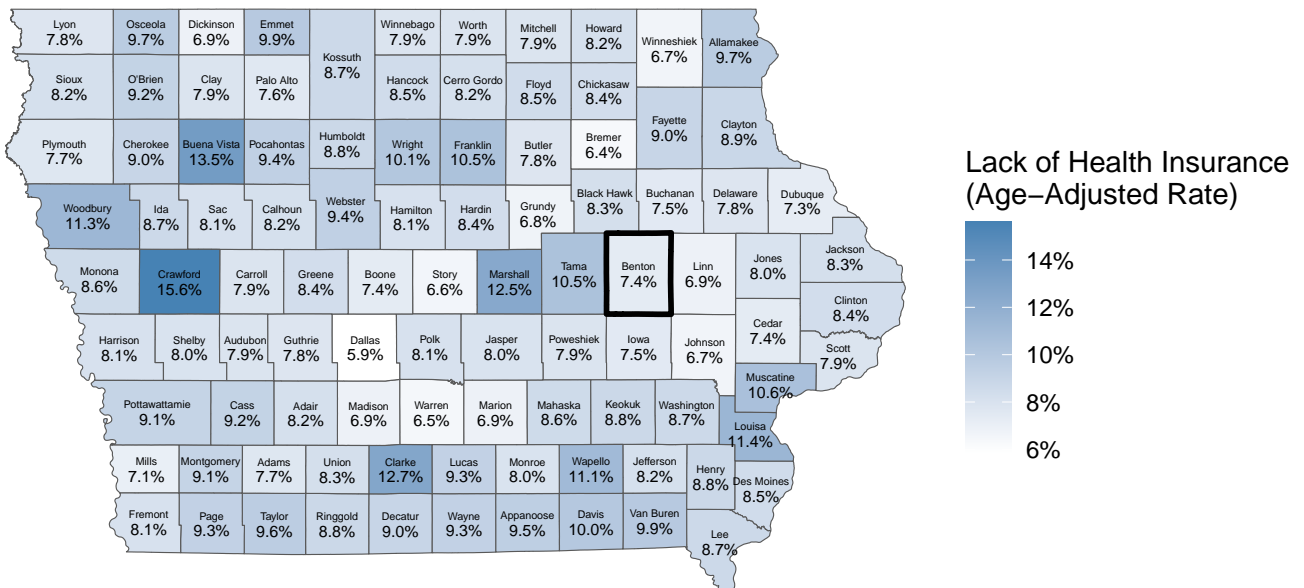
Data Source: CDC PLACES 2023 Release, BRFSS 2020

Lack of Health Insurance

Current lack of health insurance among adults aged 18–64 years



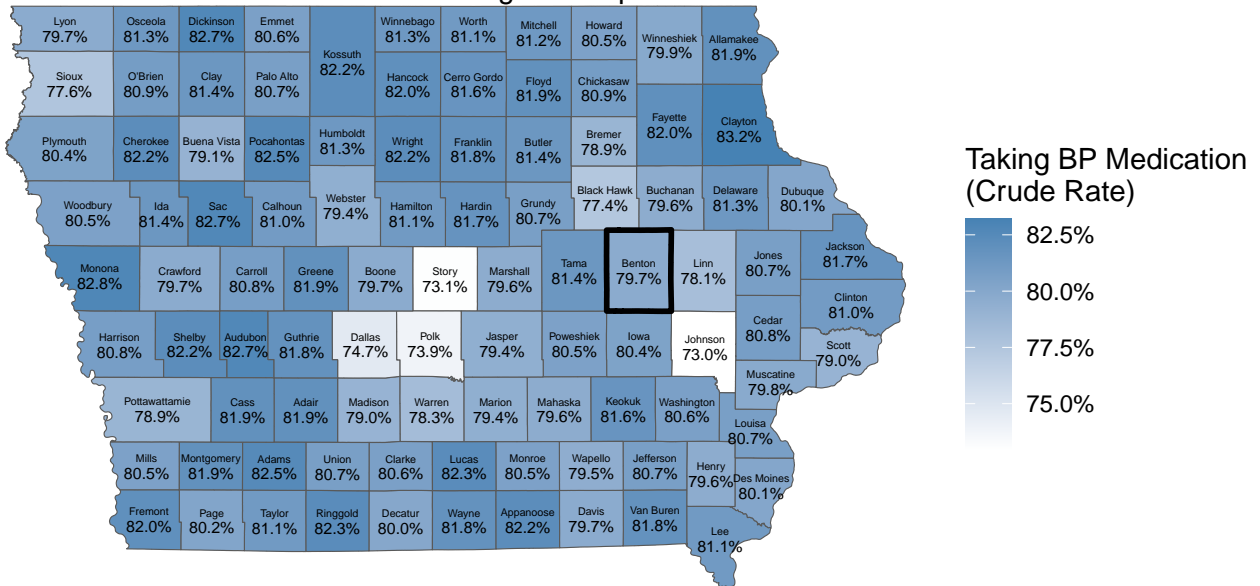
Data Source: CDC PLACES 2023 Release, BRFSS 2021



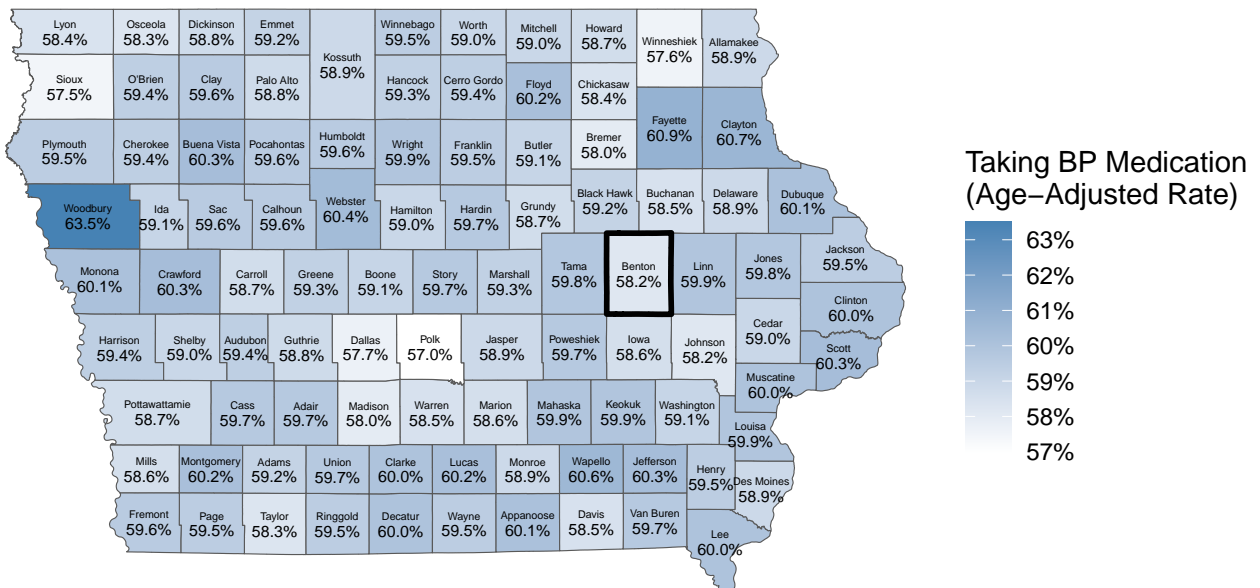
Data Source: CDC PLACES 2023 Release, BRFSS 2021

Taking BP Medication

Taking medicine for high blood pressure control among adults aged ≥ 18 years with high blood pressure



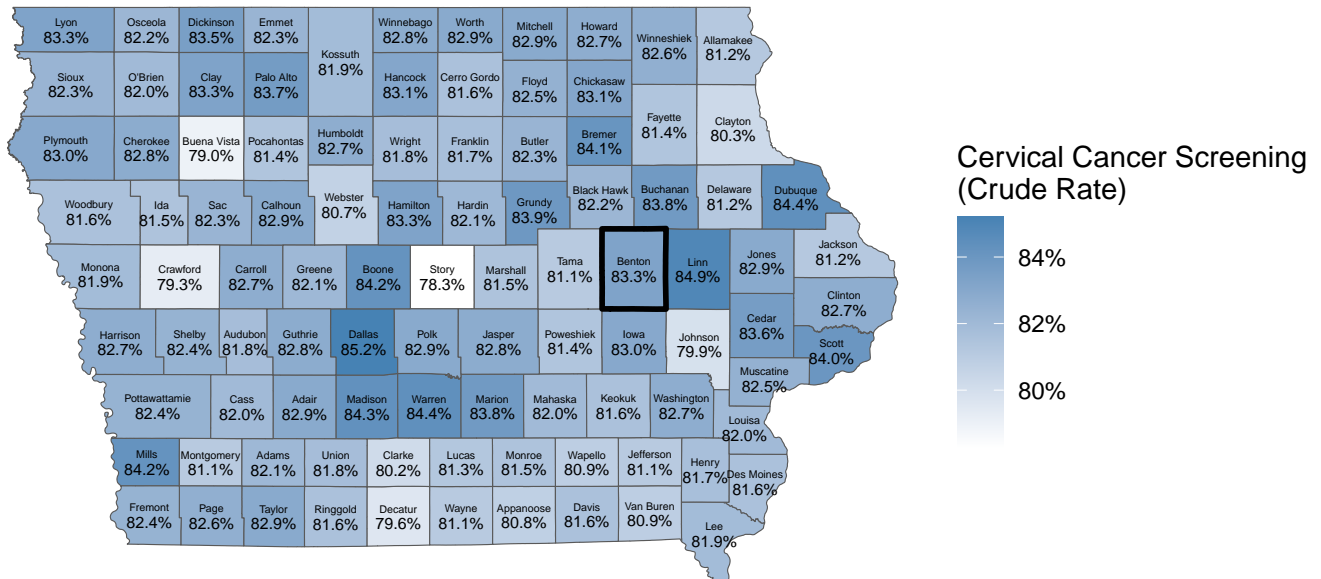
Data Source: CDC PLACES 2023 Release, BRFSS 2021



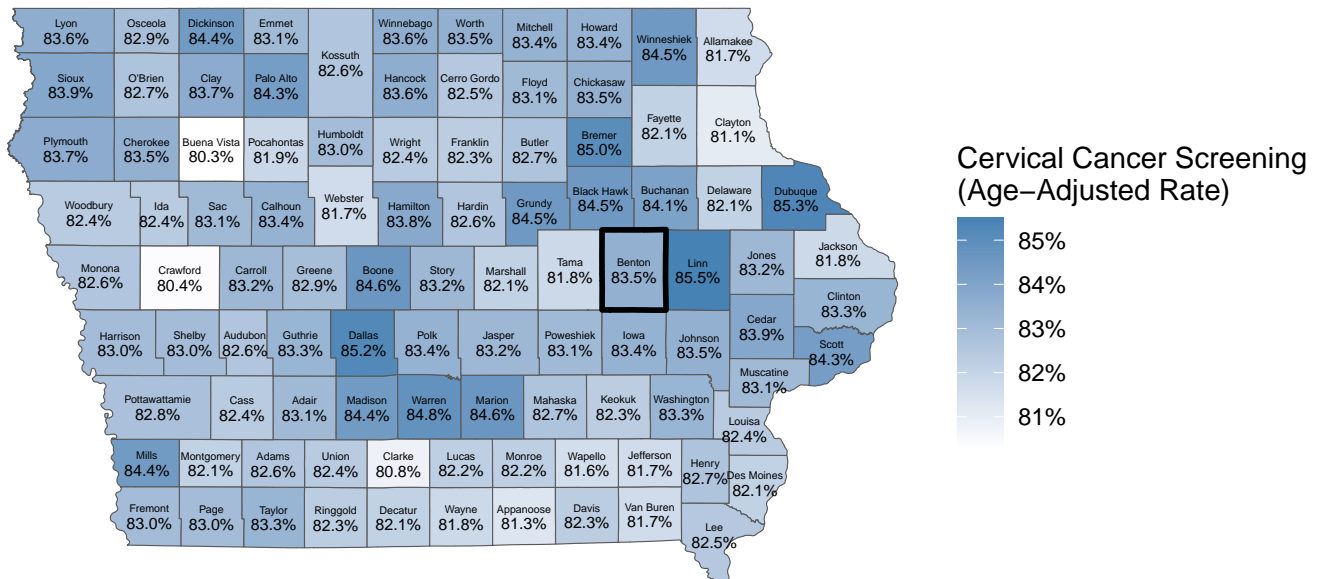
Data Source: CDC PLACES 2023 Release, BRFSS 2021

Cervical Cancer Screening

Cervical cancer screening among adult women aged 21–65 years



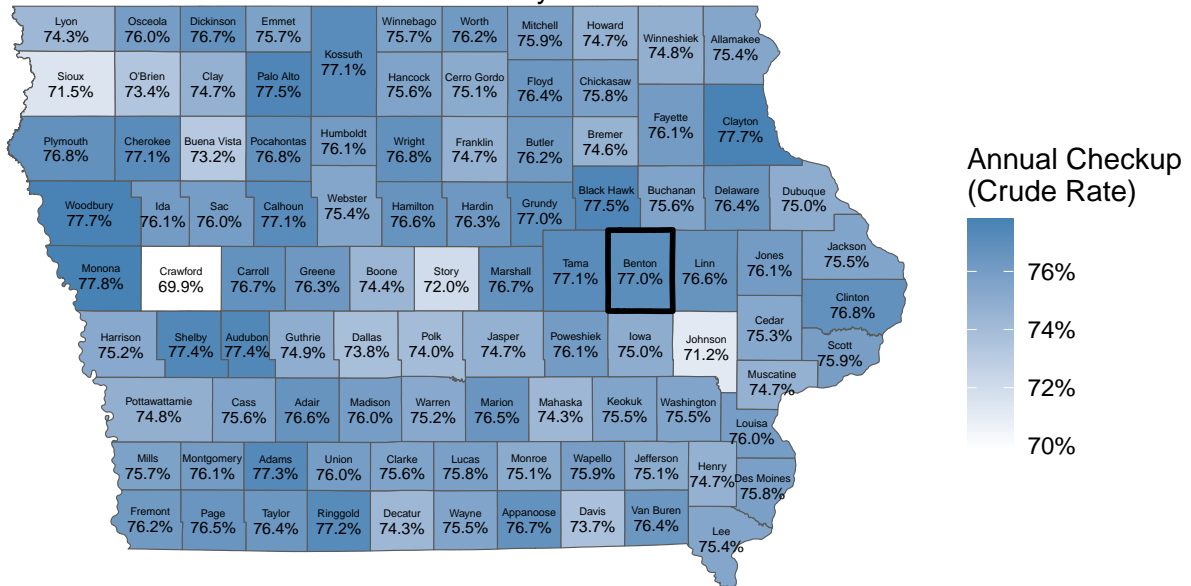
Data Source: CDC PLACES 2023 Release, BRFSS 2020



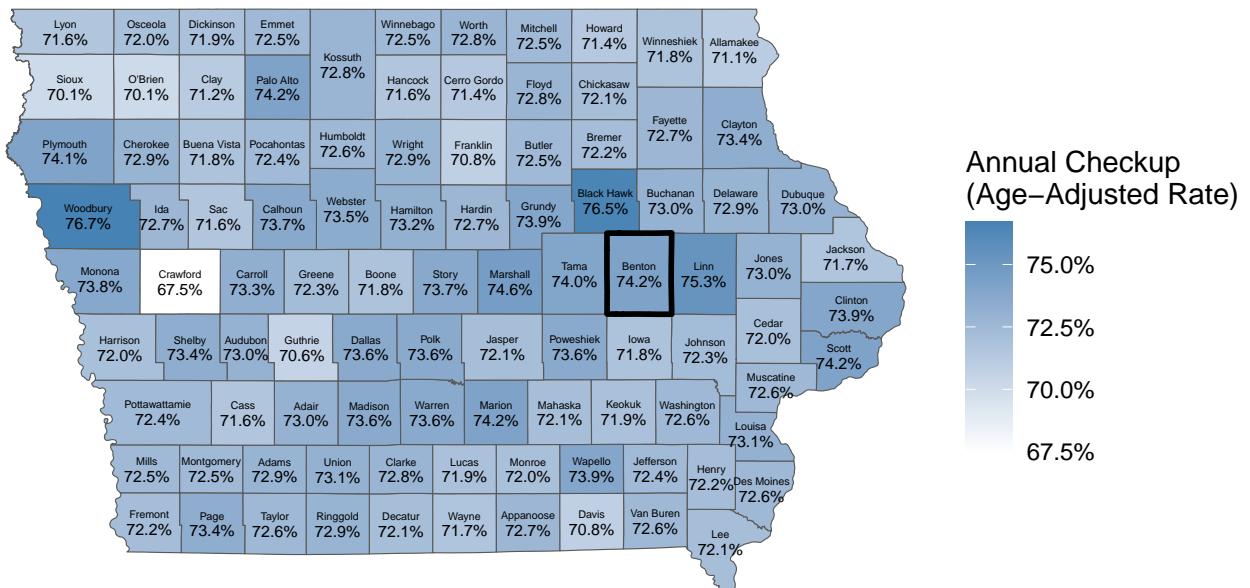
Data Source: CDC PLACES 2023 Release, BRFSS 2020

Annual Checkup

Visits to doctor for routine checkup within the past year among adults aged ≥ 18 years



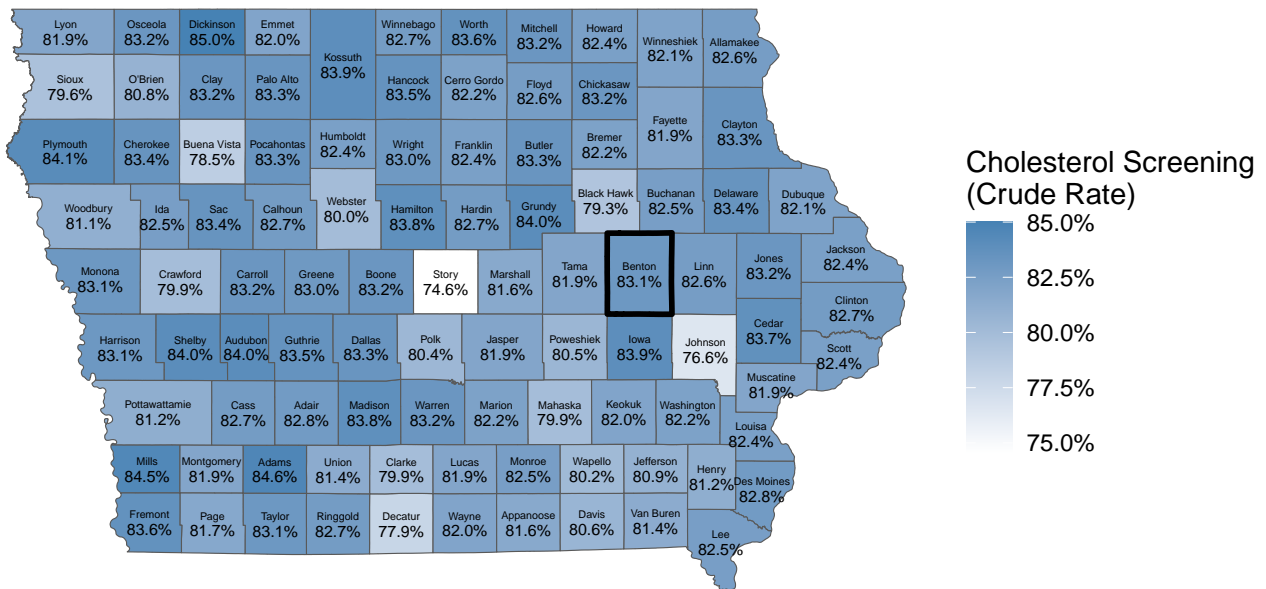
Data Source: CDC PLACES 2023 Release, BRFSS 2021



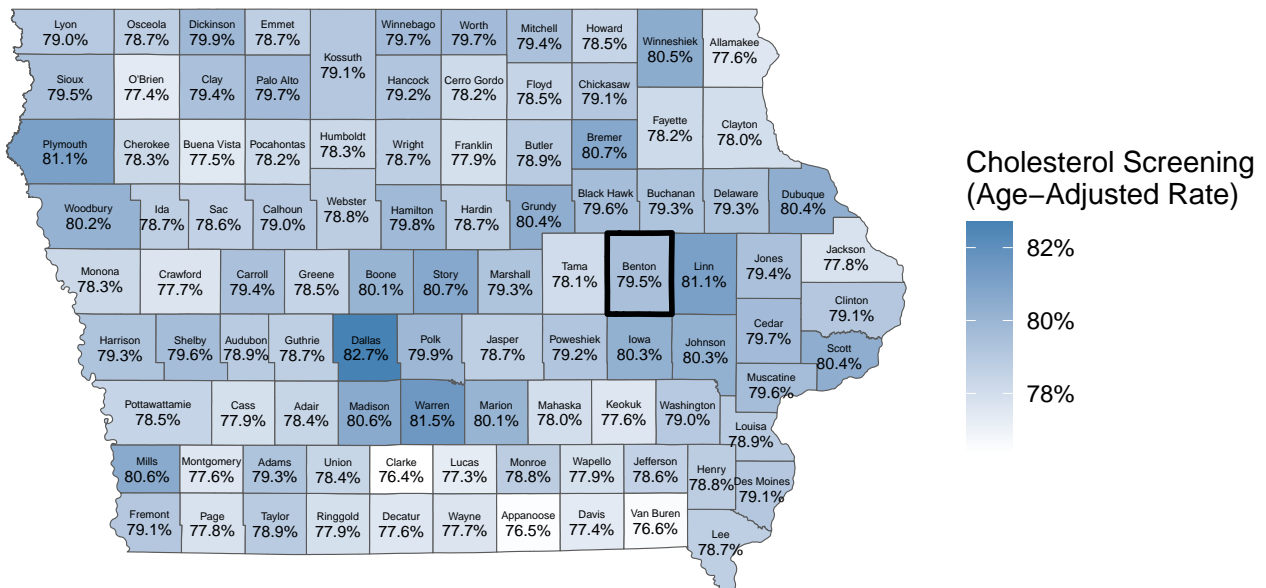
Data Source: CDC PLACES 2023 Release, BRFSS 2021

Cholesterol Screening

Cholesterol screening among adults aged ≥ 18 years



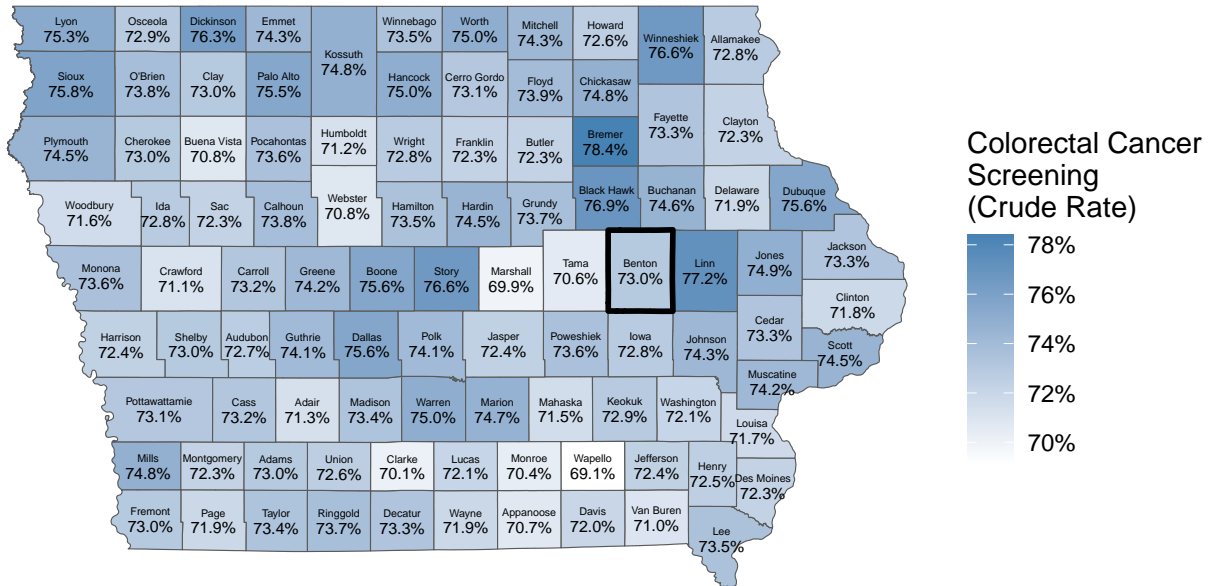
Data Source: CDC PLACES 2023 Release, BRFSS 2021



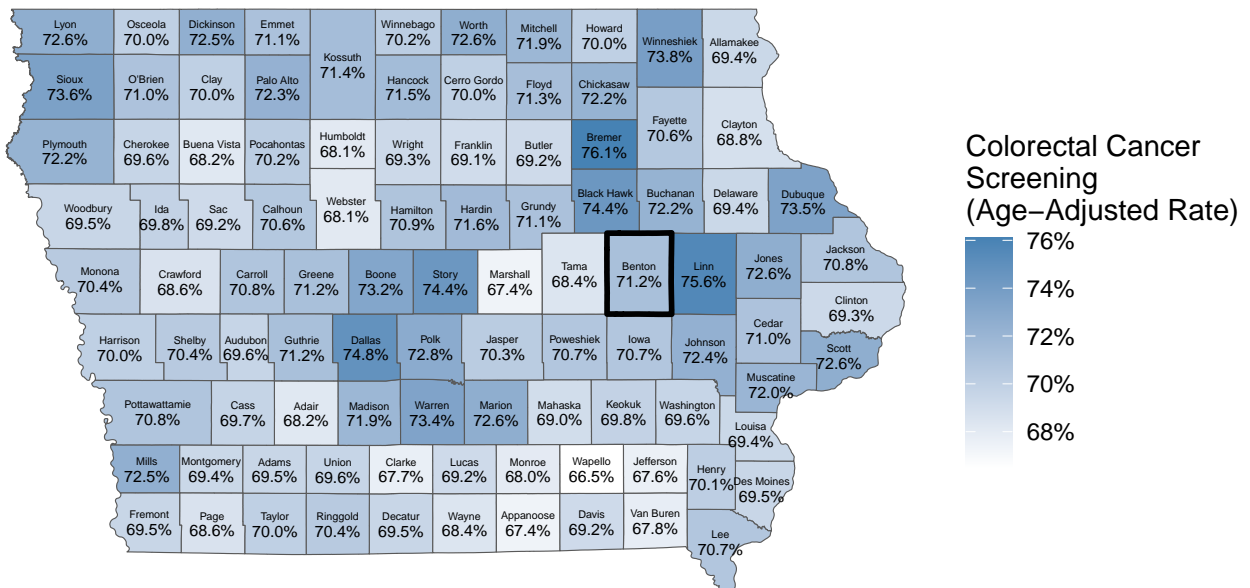
Data Source: CDC PLACES 2023 Release, BRFSS 2021

Colorectal Cancer Screening

Colorectal cancer screening among adults aged 50–75 years



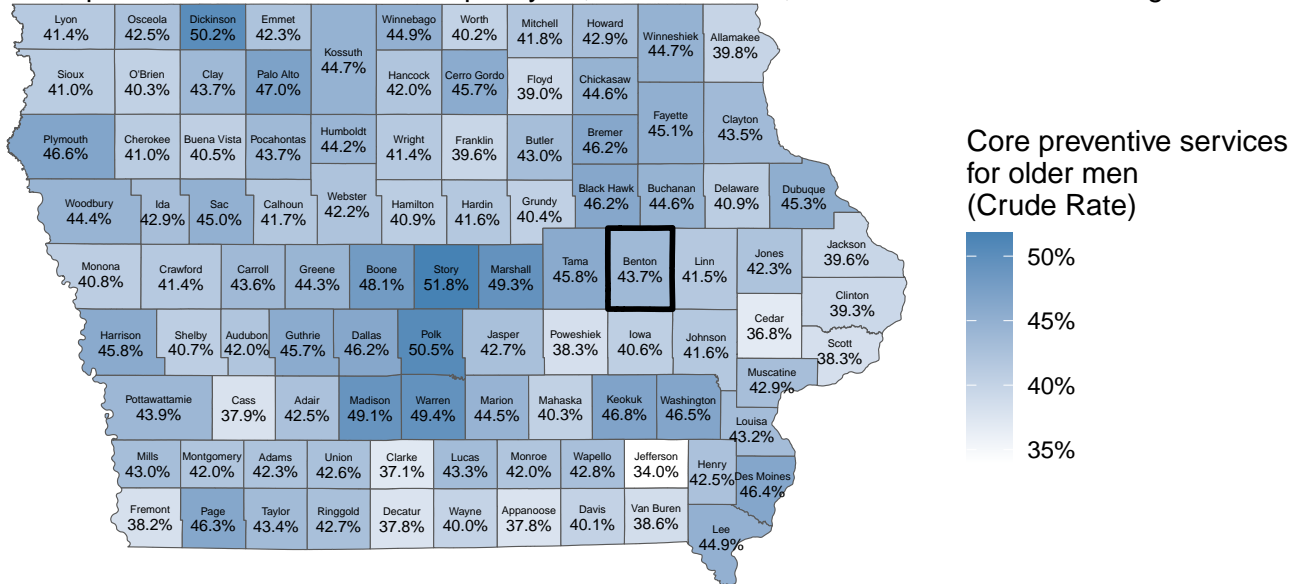
Data Source: CDC PLACES 2023 Release, BRFSS 2020



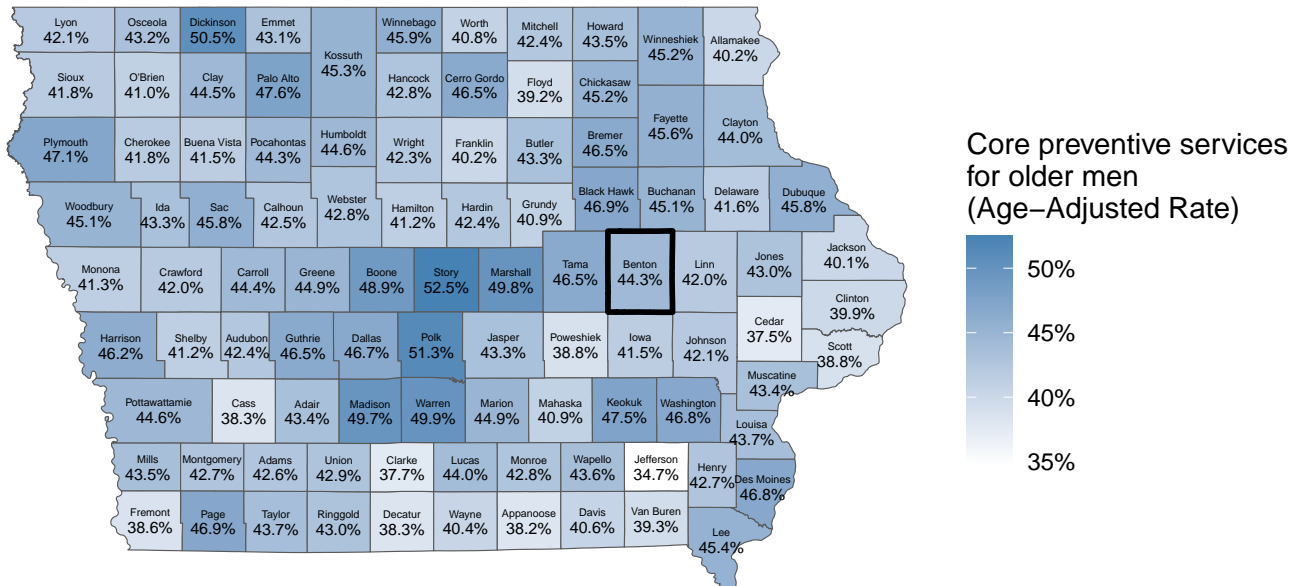
Data Source: CDC PLACES 2023 Release, BRFSS 2020

Core preventive services for older men

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



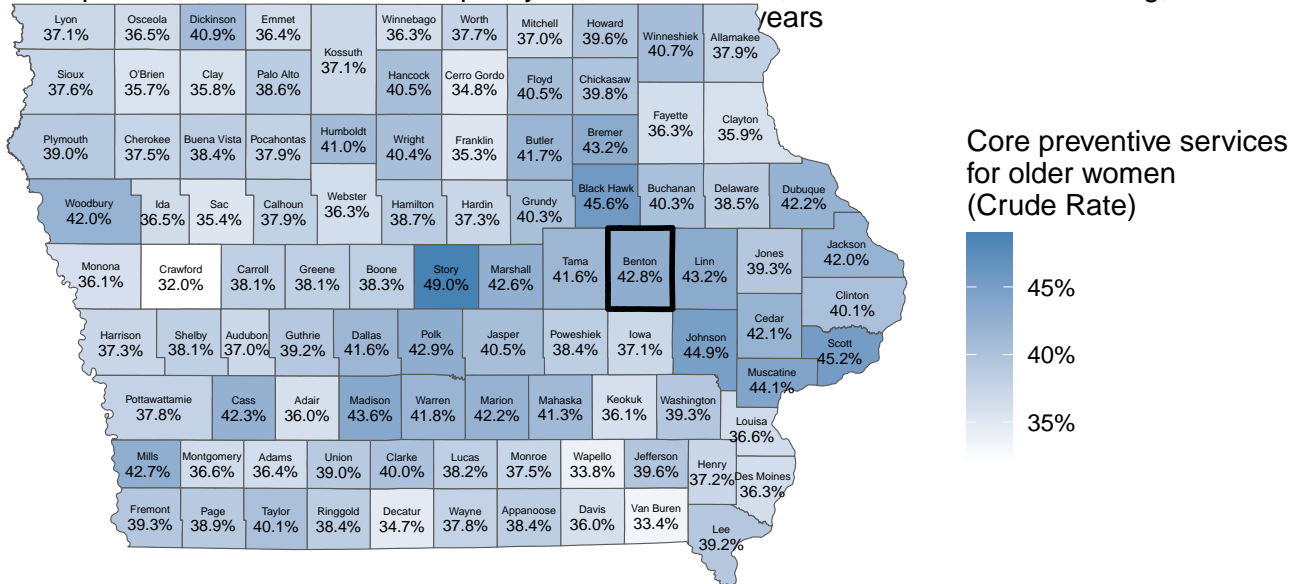
Data Source: CDC PLACES 2023 Release, BRFSS 2020



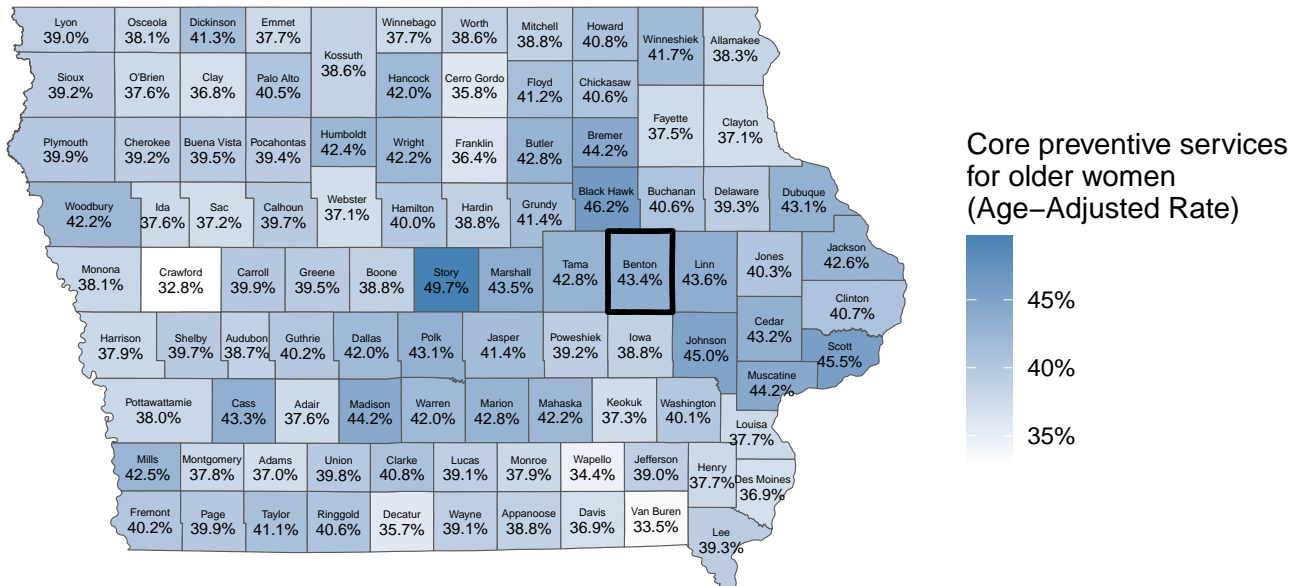
Data Source: CDC PLACES 2023 Release, BRFSS 2020

Core preventive services for older women

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,



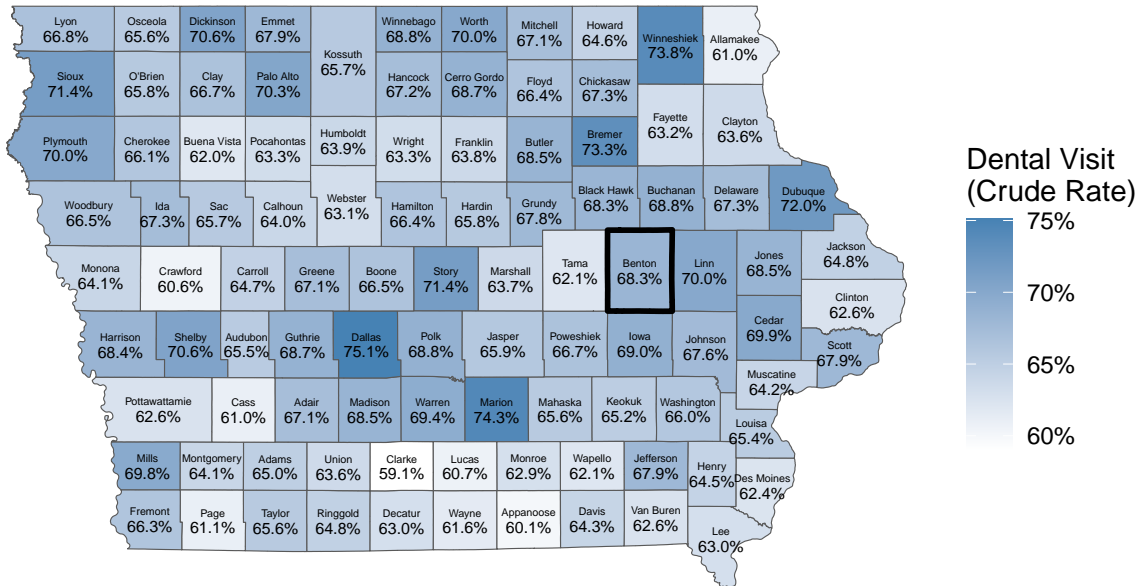
Data Source: CDC PLACES 2023 Release, BRFSS 2020



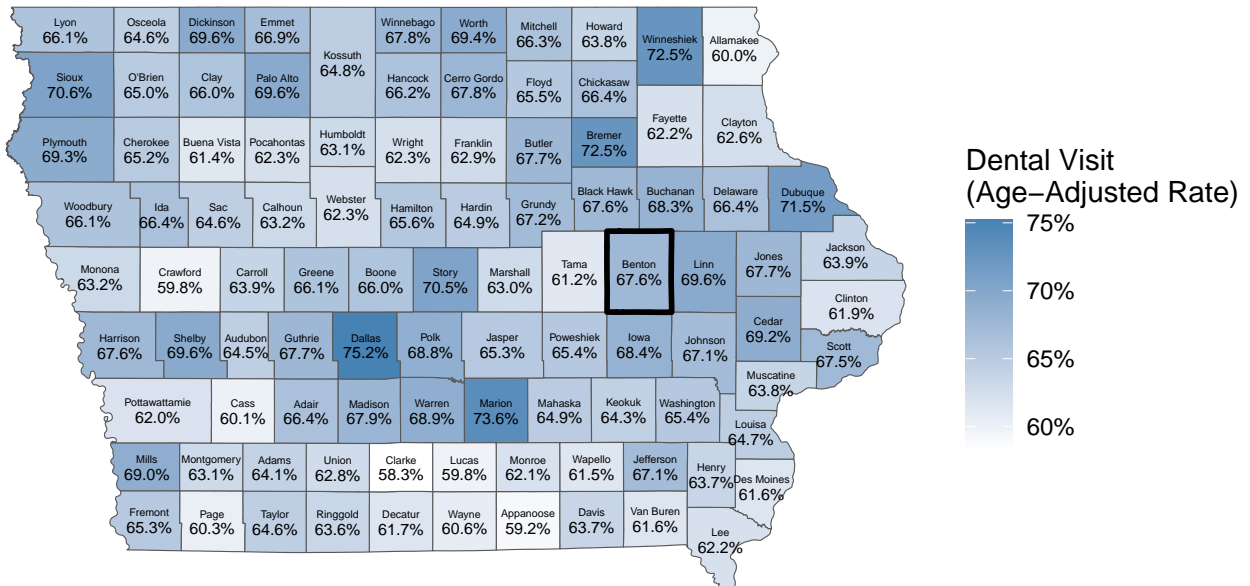
Data Source: CDC PLACES 2023 Release, BRFSS 2020

Dental Visit

Visits to dentist or dental clinic among adults aged >=18 years



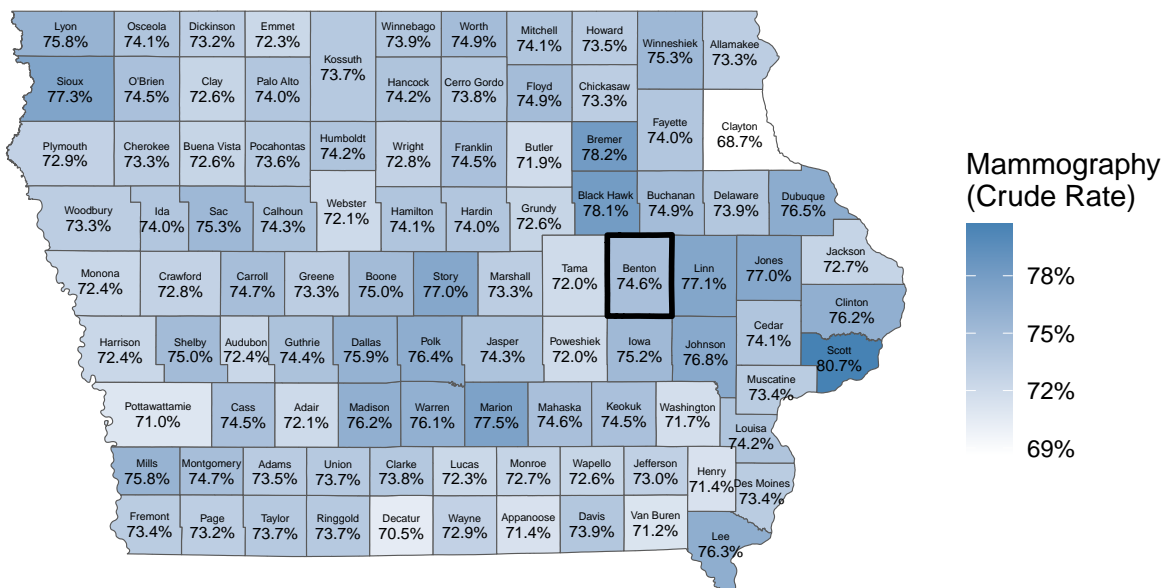
Data Source: CDC PLACES 2023 Release, BRFSS 2020



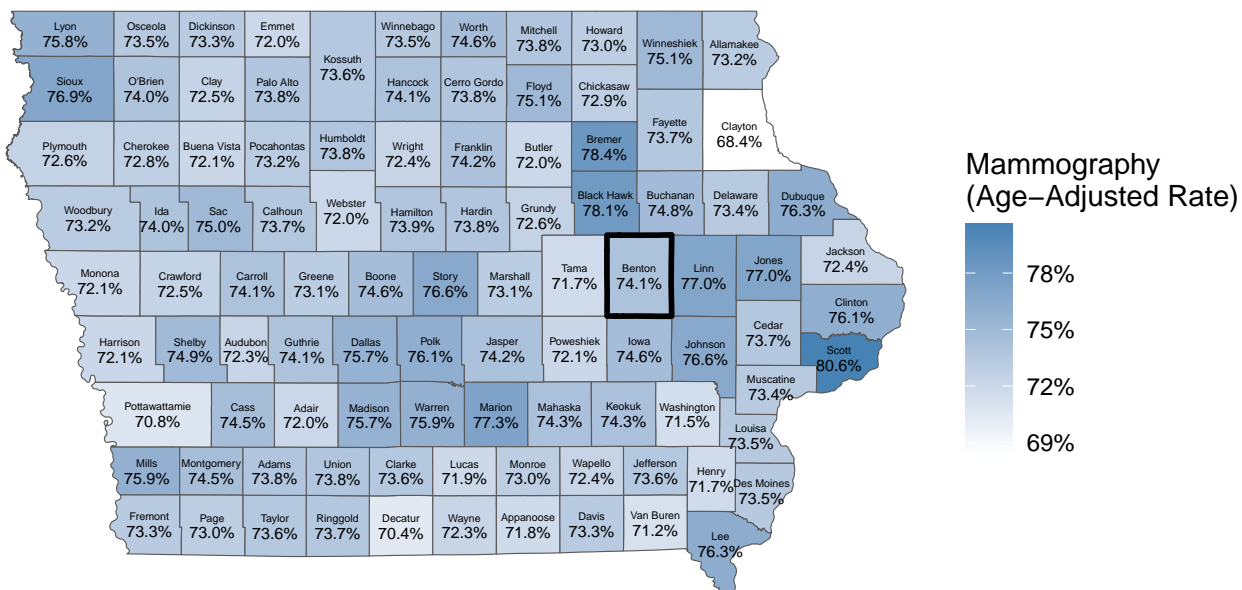
Data Source: CDC PLACES 2023 Release, BRFSS 2020

Mammography

Mammography use among women aged 50–74 years



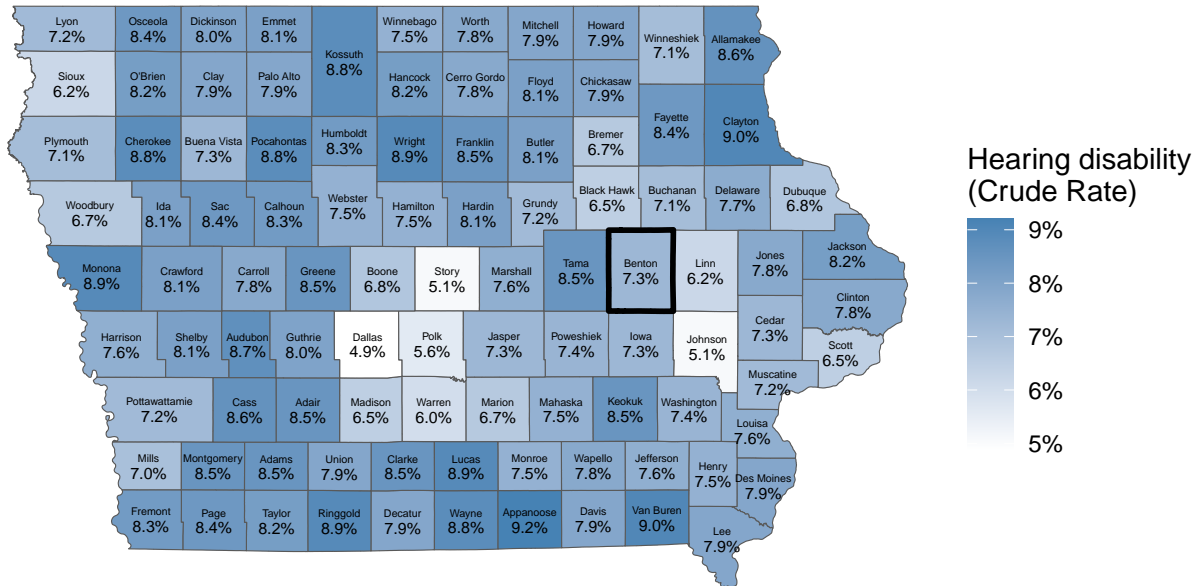
Data Source: CDC PLACES 2023 Release, BRFSS 2020



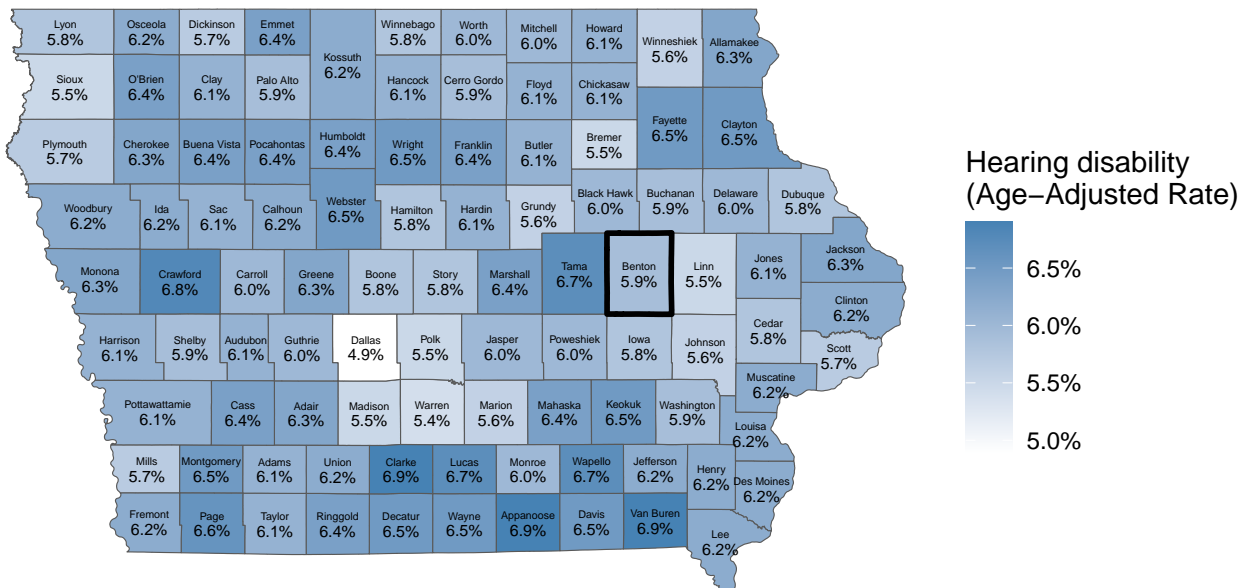
Data Source: CDC PLACES 2023 Release, BRFSS 2020

Hearing disability

Hearing disability among adults aged ≥ 18 years



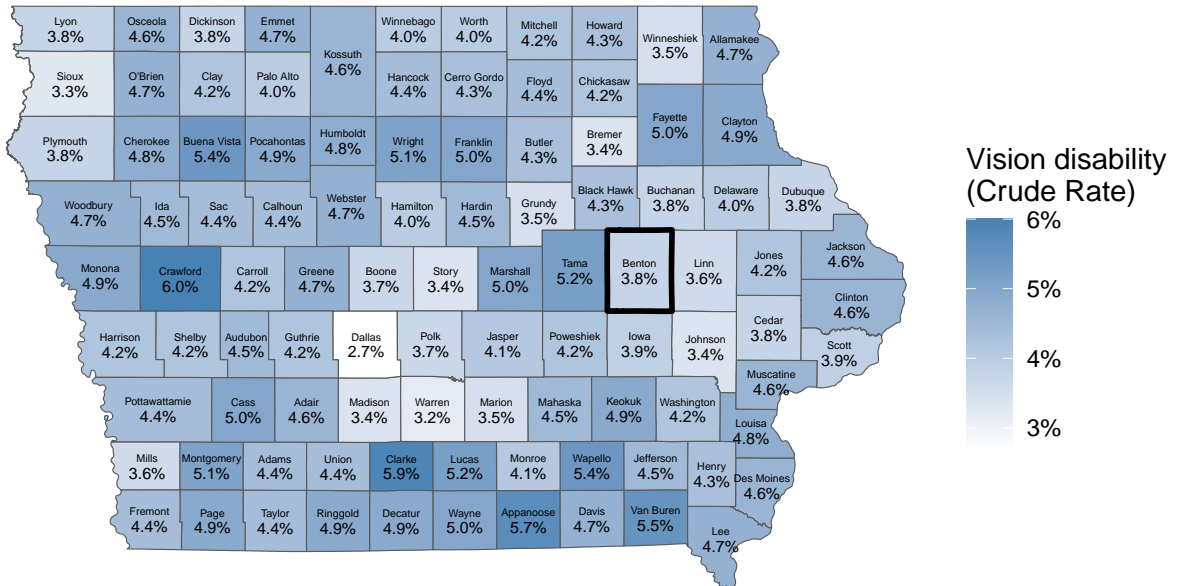
Data Source: CDC PLACES 2023 Release, BRFSS 2021



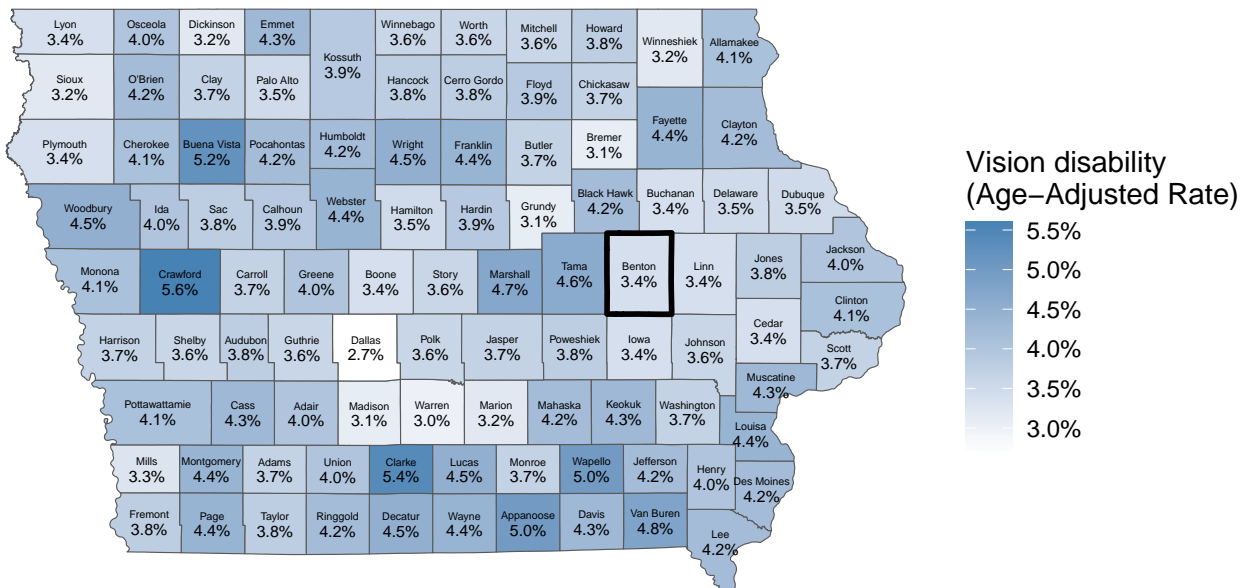
Data Source: CDC PLACES 2023 Release, BRFSS 2021

Vision disability

Vision disability among adults aged >=18 years



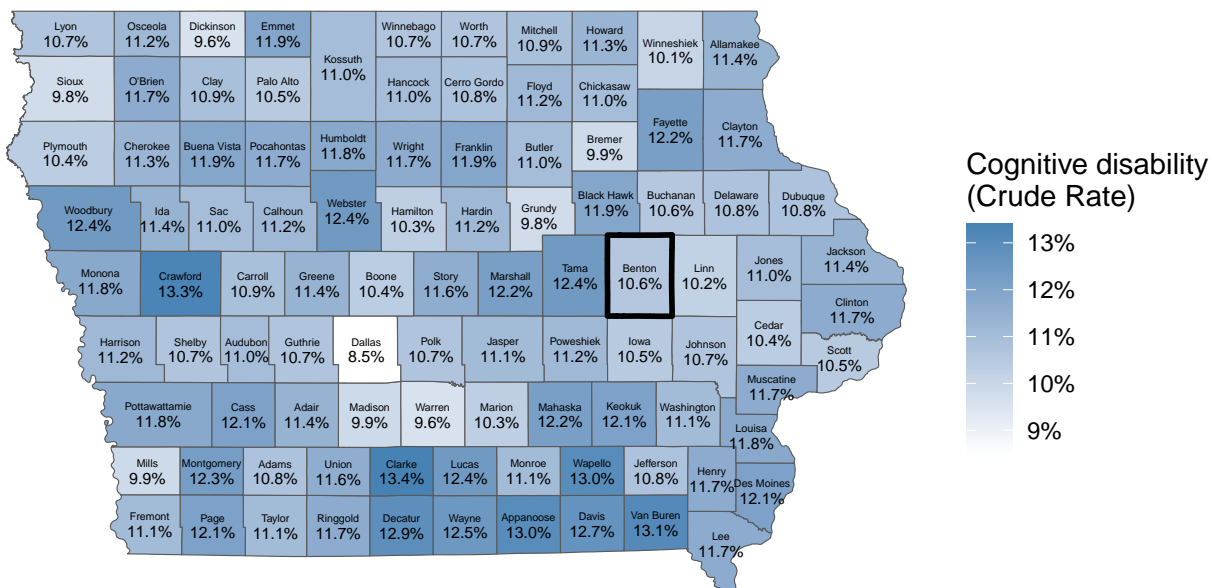
Data Source: CDC PLACES 2023 Release, BRFSS 2021



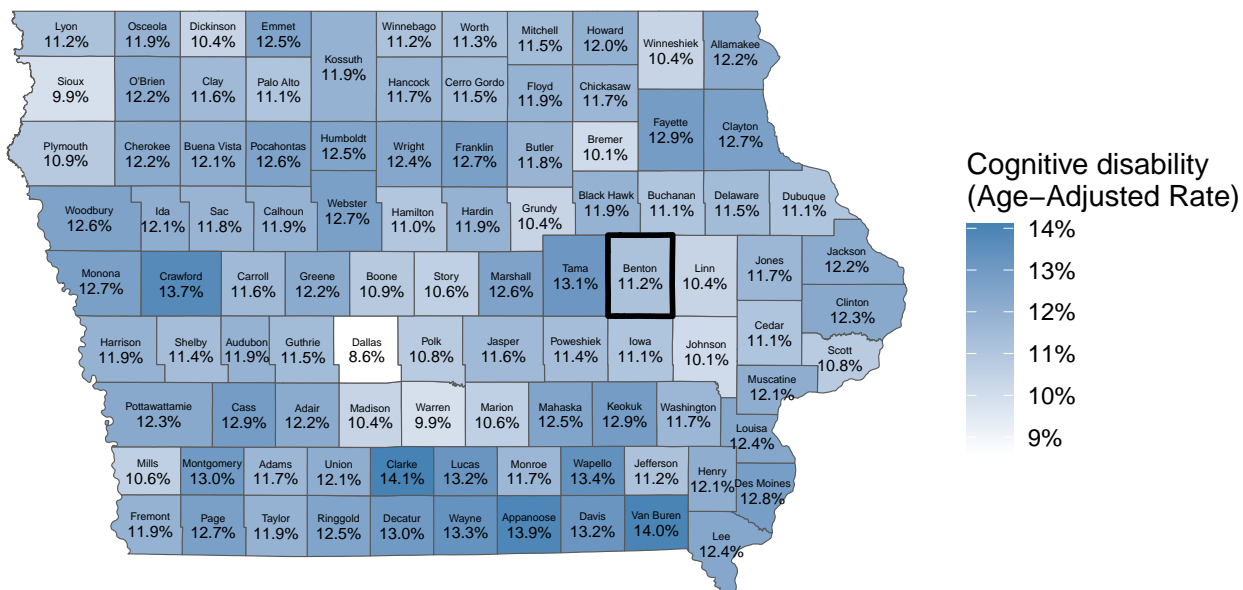
Data Source: CDC PLACES 2023 Release, BRFSS 2021

Cognitive disability

Cognitive disability among adults aged >=18 years



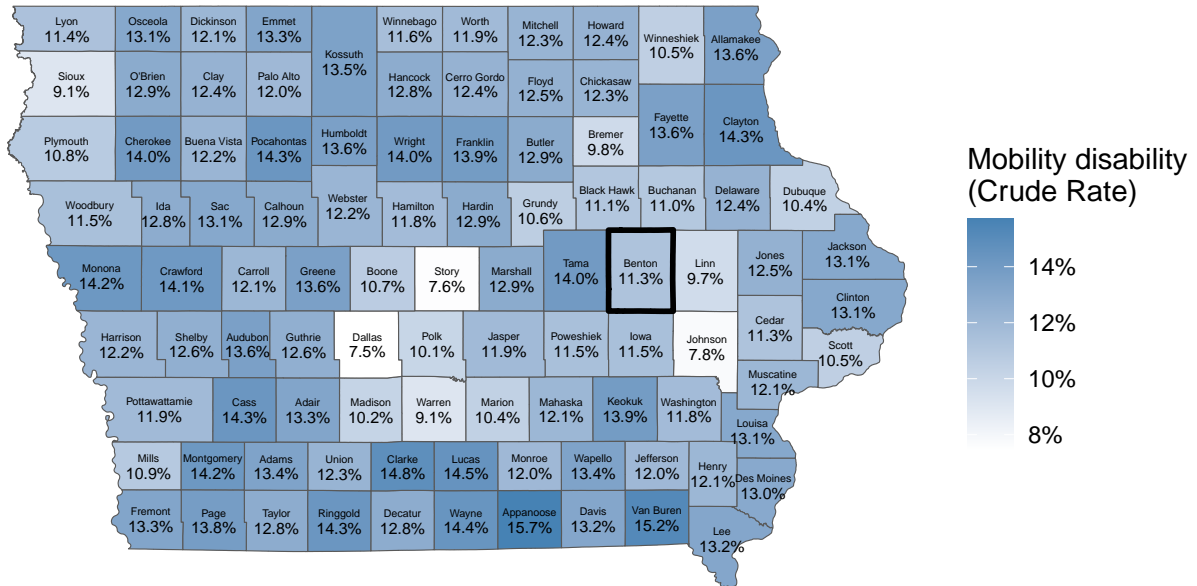
Data Source: CDC PLACES 2023 Release, BRFSS 2021



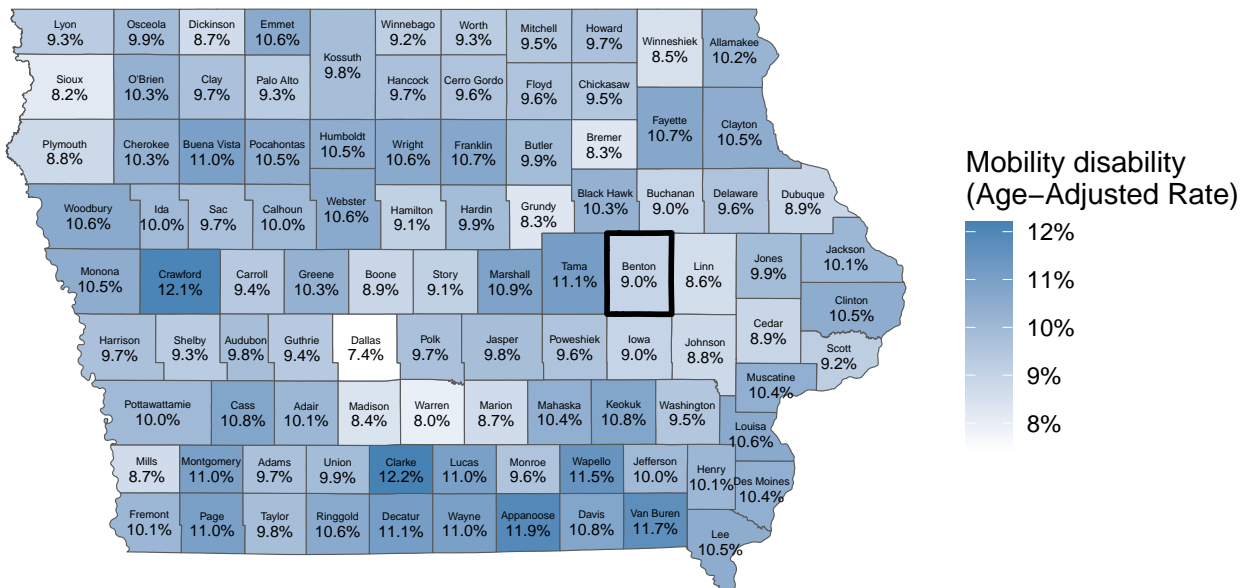
Data Source: CDC PLACES 2023 Release, BRFSS 2021

Mobility disability

Mobility disability among adults aged ≥ 18 years



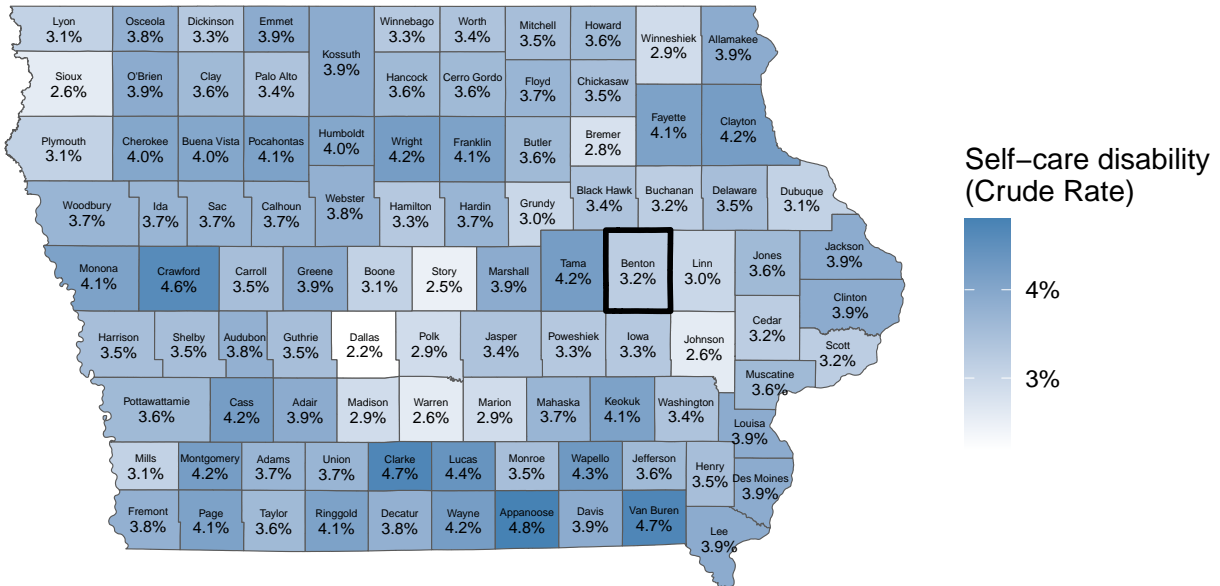
Data Source: CDC PLACES 2023 Release, BRFSS 2021



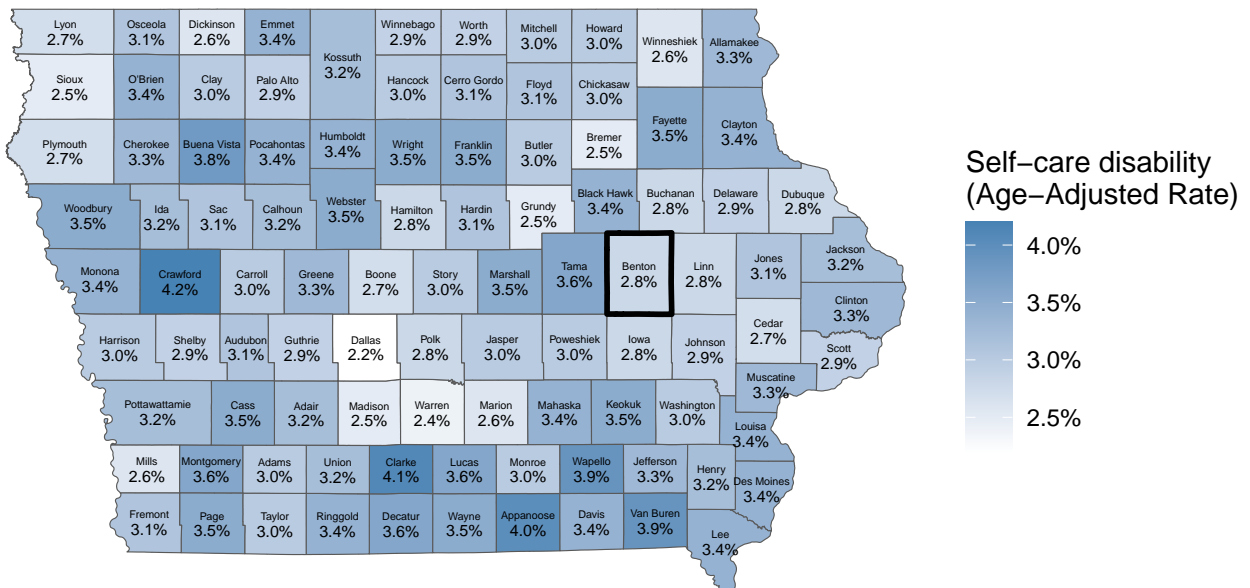
Data Source: CDC PLACES 2023 Release, BRFSS 2021

Self-care disability

Self-care disability among adults aged >=18 years



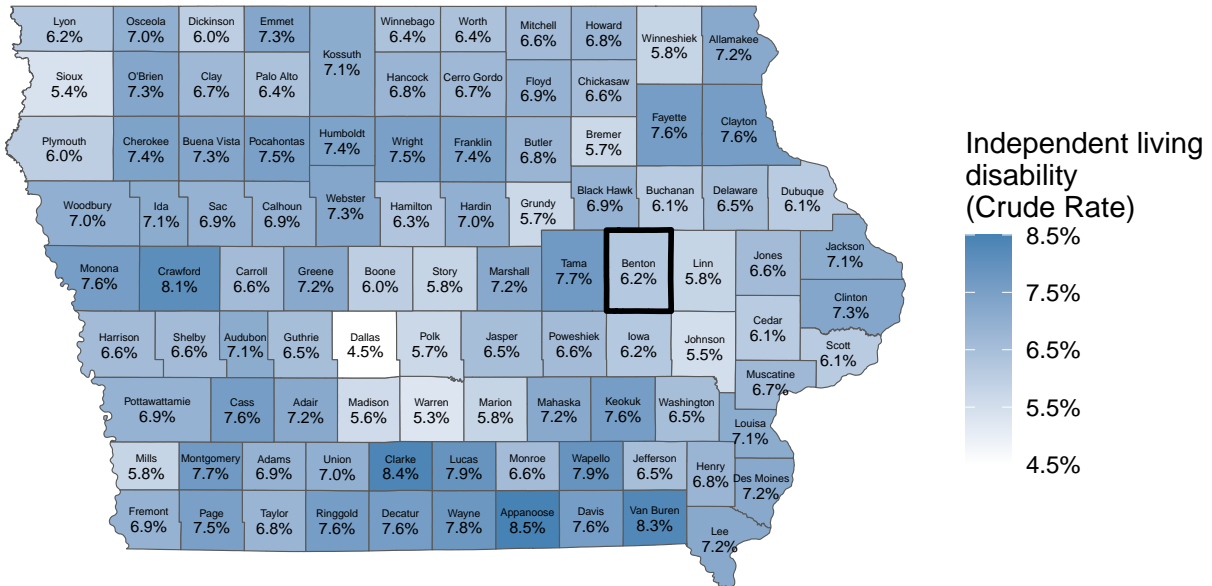
Data Source: CDC PLACES 2023 Release, BRFSS 2021



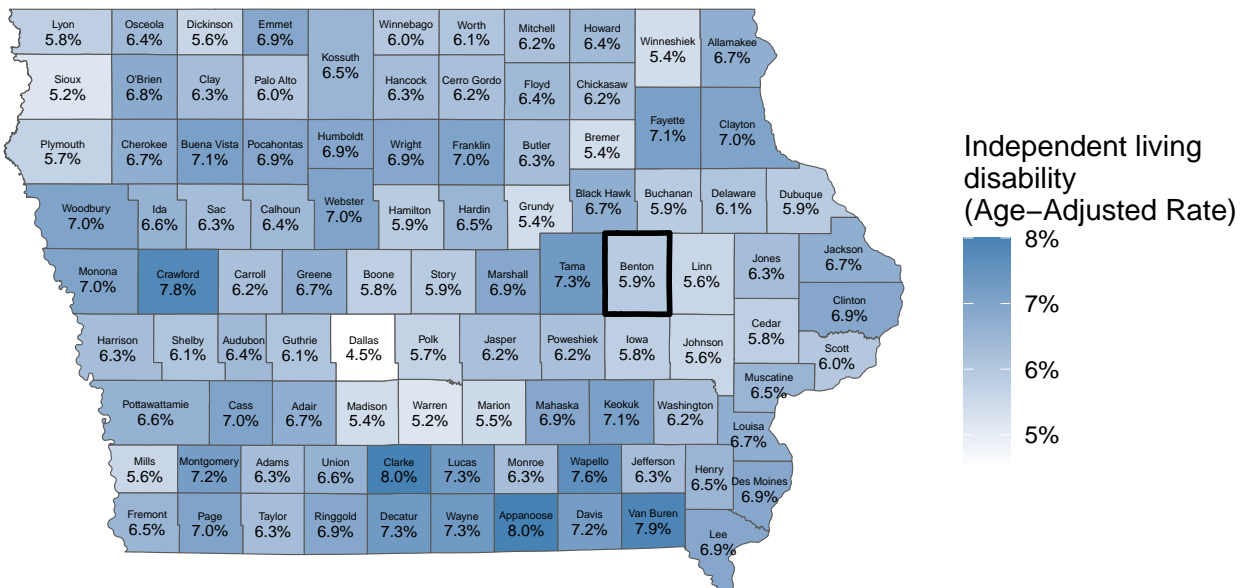
Data Source: CDC PLACES 2023 Release, BRFSS 2021

Independent living disability

Independent living disability among adults aged ≥ 18 years



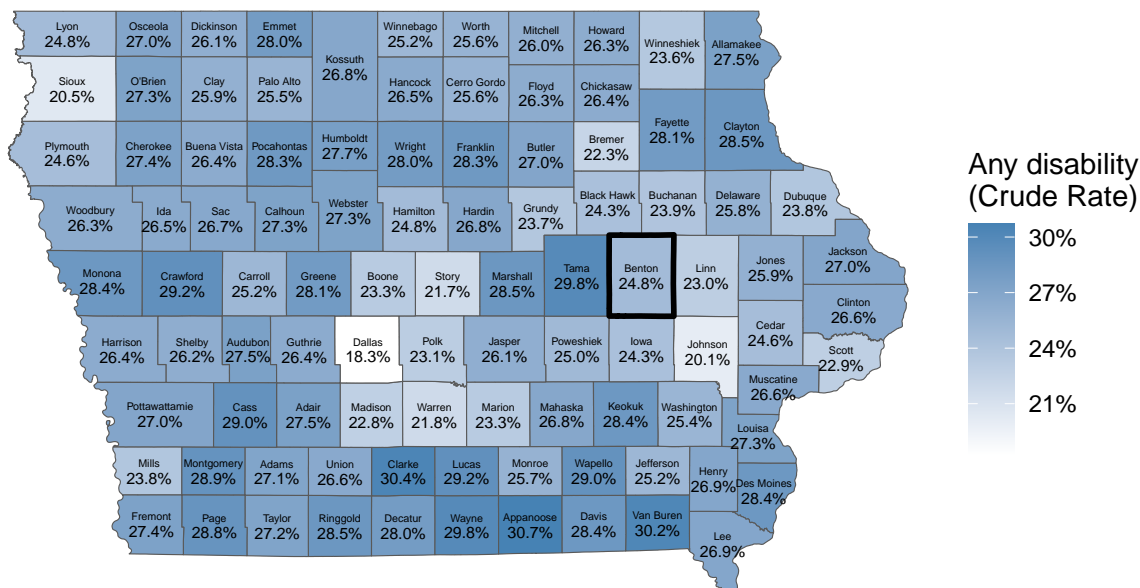
Data Source: CDC PLACES 2023 Release, BRFSS 2021



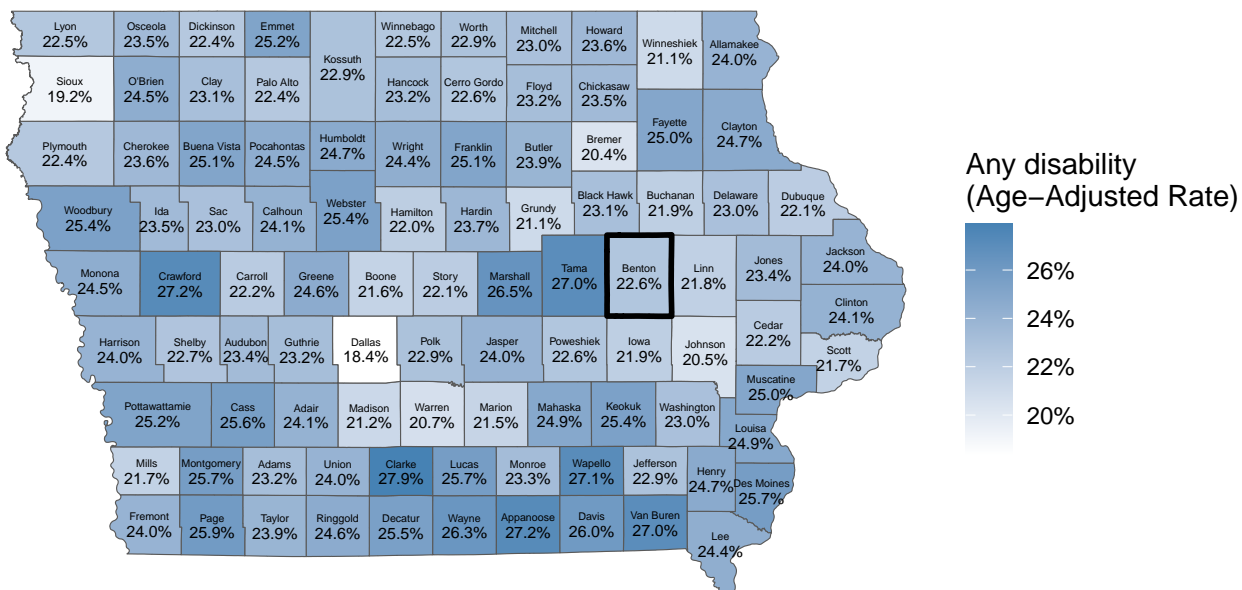
Data Source: CDC PLACES 2023 Release, BRFSS 2021

Any disability

Any disability among adults aged >=18 years



Data Source: CDC PLACES 2023 Release, BRFSS 2021



Data Source: CDC PLACES 2023 Release, BRFSS 2021