



SSMHealth®

2021

Community Health Needs Assessment



SSM Health St. Mary's Hospital - Jefferson City

2505 Mission Drive, Jefferson City, MO 65109

Message to our Community

SSM Health St. Mary's Hospital – Jefferson City, a member of SSM Health, has delivered exceptional, compassionate care to residents of Missouri's state capital region for over 100 years. Inspired by our founding Franciscan Sisters of Mary and guided by our Mission – Through our exceptional health care services, we reveal the healing presence of God – we cherish the sacredness and dignity of each person as demonstrated through our Values of compassion, respect, excellence, stewardship and community.

Our sustained community commitment can be seen through our collaborative partnerships with residents and organizations. We rely on these relationships to help us identify and develop plans to address high-priority community health needs. We are grateful for the opportunity to partner with the following organizations:

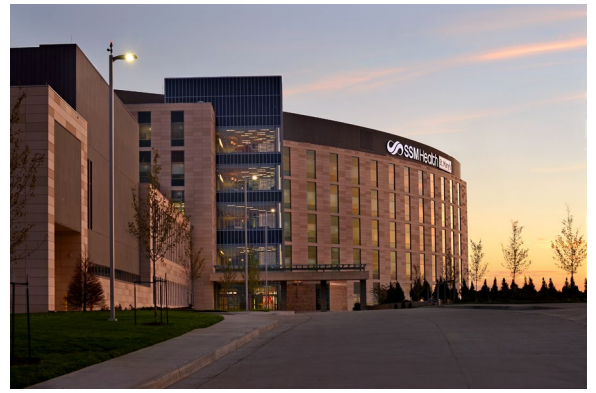
Over the last 12 months, in collaboration with our community partners, we have conducted a Community Health Needs Assessment by gathering health-related information from Healthy Communities Institute (HCI) regarding Callaway, Cole, Miller, Moniteau, and Osage Counties. We have also interviewed key health officials, conducted community discussion forums and/or focus groups to identify concerns about the health of these communities and the number of area-based programs and organizations that exist to address their needs. These discussions identified needs that were prioritized based on the level of importance to community members and the hospital's ability to truly make an impact.

Sincerely,

George Hayes
Regional President
SSM Health Mid-Mo Region



Executive Summary



Background

SSM Health St. Mary's Hospital – Jefferson City is pleased to present the 2022-2024 Community Health Needs Assessment (CHNA). This CHNA report provides an overview of the health needs and priorities associated with our service area. The goal of this report is to provide persons with a deeper understanding of the health needs in their community, as well as to help guide the hospital in its community benefit planning efforts and development of an implementation strategy to address evaluated needs the SSM Health Mid-Missouri Regional Board approved this CHNA on December 1, 2021.

SSM Health St. Mary's Hospital – Jefferson City last conducted a CHNA in 2018 for the 2019-2021 CHNA. The Affordable Care Act (ACA) requires 501(c)(3) tax-exempt hospitals to conduct a CHNA every three tax years and adopt a strategic implementation plan for addressing identified needs.

Priorities

SSM Health St. Mary's Hospital - Jefferson City determined priorities for the 2022-2024 CHNA and strategic implementation plan. Priorities chosen include:

- Mental Health and Substance Abuse - Mental health issues, such as anxiety, depression and risk of suicide, are prevalent.
- Specialty Medical Care - Access to specialty, primary and preventive health care services is an important element of a community's health care system.
- Health Literacy - Health literacy, including chronic disease self-management, preventative care, and life skills education, stress management and coping are needed to improve health and wellness decisions.

Strategies

SSM Health St. Mary's Hospital – Jefferson City will collaborate with its community partners to leverage existing and new resources available in Mid-Missouri. Strategies for each priority area will be highlighted in the 2022-2024 Community Health Implementation Plan (CHIP).

The final assessment report will be made available on the SSM Health website at ssmhealth.com/CHNA. For more information regarding the Community Health Needs Assessment, contact the president of SSM Health St. Mary's Hospital – Jefferson City at (573) 681-3121.

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About SSM Health and SSM Health St. Mary's Hospital - Jefferson City

SSM Health

SSM Health is a Catholic not-for-profit health system serving the comprehensive health needs of communities across the Midwest through a robust and fully integrated health care delivery system. Headquartered in St. Louis, SSM Health has care delivery sites in Missouri, Illinois, Oklahoma, and Wisconsin. The health system includes 24

hospitals, more than 300 physician offices and other outpatient care sites, 10 post-acute facilities, comprehensive home care and hospice services, a pharmacy benefit company, an insurance company, a technology company and an Accountable Care Organization.

With more than 10,000 providers

and 40,000 employees in four states, SSM Health is one of the largest employers in every community it serves. An early adopter of the electronic health record (EHR), SSM Health is a national leader for the depth of its EHR integration.

Through our exceptional health care services, we reveal the healing presence of God.

SSM Health St. Mary's Hospital – Jefferson City

Highlight of services

Located in Missouri's state capitol for 116 years, SSM Health St. Mary's Hospital – Jefferson City is a full-service, community hospital with a strong commitment to high quality and safe health care services. Medical specialties include behavioral health, emergency care, cardiology, orthopedic, cancer, maternity and medical diagnostic services. The SSM Medical Group provides access to primary care and specialty services throughout the mid-Missouri region.

Community benefit

In 2020, SSM Health St. Mary's Hospital - Jefferson City provided \$3.5M in community benefit,

comprised of charity care and costs of other government assistance programs; and \$600K in community health improvement services.

Community partnerships and affiliations

We are proud to be part of community projects that work to improve health outcomes in the areas we serve with partners that include, but are not limited to Catholic Charities of Central and Northern Missouri, Community Health Center of Central Missouri, Compass Health Behavioral Health and Crisis Access, Jefferson City YMCA, Missouri Food Bank Mobile Pantry, and United Way of Central Missouri Unmet Needs Committee.

Hospital at a glance

Admissions | **6,003**

Outpatient visits | **59,959**

ER visits | **27,012**

Births | **828**

Beds | **154**

Employees | **795**

Medical staff | **319**

Volunteers | **144**

Charity care | **\$4.6M**

Definition of Community

The community we serve is defined as Central Missouri, including Callaway, Cole, Miller, Moniteau, and Osage Counties, which covers the primary service area served by the hospital. There are 51 zip codes that are contained within or overlap the service area. The hospital is located in Jefferson City (65109), Cole County Missouri. In 2019, Callaway, Cole, Miller, Moniteau, and Osage Counties had an estimated population of 176,474 persons.



Why Place Matters

Place —where a person lives, works, learns, plays, and, grows —matters when it comes to health outcomes. Place determines what resources and opportunities are available for good health, including safe streets, good schools, and well-paying jobs. Place can also influence exposure to factors that harm health, including crime and violence, air pollution, and access to healthy foods. Health outcomes are greatly shaped by the opportunity to live in a community that has resources and amenities to support optimal health.

Geography

SSM Health St. Mary's Hospital – Jefferson City is located at 2505 Mission Drive in Jefferson City, Missouri. Jefferson City is located in Cole and Callaway counties in Mid-Missouri and is the state capital of Missouri. According to the U.S. Census Bureau in 2019, Jefferson City had an estimated

population of 42,079, making it the 15th most populous city on the state. Jefferson City is located on the northern edge of the Ozark Plateau on the southern side of the Missouri River in a region known as Mid-Missouri, that is roughly mid-way between the state's two large urban areas of Kansas City and St. Louis. It is 29 miles south of Columbia, Missouri, and sits at the western edge of the Missouri Rhineland, one of the major wine-producing regions of the Midwest.

Service delivery area

Approximately 80% of SSM Health St. Mary's Hospital - Jefferson City's patient population lives within the five counties included in the 2021 Community Health Needs Assessment.

About Our Community

Demographics

Between 2000 and 2010 the population in the report area grew by 12,829 persons, a change of 7.93%. When compared to Missouri and the United States, the population of our report area is less diverse with 90.1% of the population being white and 9.9% of the population being persons of color. All five counties in the report area have a median age that is at or above the Missouri state average of 38.6 years and all five counties have a median age that is above the national average of 38.1 years. In addition, an estimated 29,001 persons are adults aged 65 and older, representing 16.43% of the population. This percentage is consistent with the aging of the population across the rest of the state, but is higher than what is being seen across the United States (15.64%). The Hispanic population in the report area grew by 75.1% or 1,508 persons. This finding is consistent with Hispanic population growth of 79.5% in the state of Missouri during the same period.

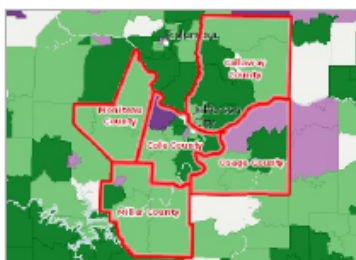
Vulnerable and/or under-serviced populations

The report area includes people who are at high risk of not receiving adequate medical care due to being uninsured/underinsured or facing barriers related to geography, language, financial circumstances, transportation, stigma, accessibility to technology, access to healthy and affordable foods and low-income housing.

Potentially medically-underserved populations include people with disabilities; the rural poor and older adults who may be without adequate transportation; Black, Latino and other persons of color (BIPOC); individuals who may be experiencing discrimination and racial or ethnic health disparities; non-English (primarily Spanish) speaking individuals who may also be undocumented; low socio-economic status (SES) and homeless individuals; lesbian, gay, bisexual and queer (LGBTQ) residents; and incarcerated individuals or people engaged in the criminal justice system.

Report Area	Total Population, 2000 Census	Total Population, 2010 Census	Population Change, 2000-2010	Population Change, 2000-2010, Percent
Report Location	161,726	174,555	12,829	7.93%
Callaway County, MO	40,766	44,332	3,566	8.75%
Cole County, MO	69,514	75,990	6,476	9.32%
Miller County, MO	23,564	24,748	1,184	5.02%
Moniteau County, MO	14,827	15,607	780	5.26%
Osage County, MO	13,055	13,878	823	6.30%
Missouri	5,591,987	5,988,927	396,940	7.1%
United States	280,405,781	307,745,539	27,339,758	9.75%

Data Source: US Census Bureau, Decennial Census, 2000 - 2010. Source geography: Tract



[View larger map](#)

Population Change, Percent by Tract, US Census 2000 - 2010

- Over 10.0% Increase (+)
- 1.0 - 10.0% Increase (+)
- Less Than 1.0% Change (+/-)
- 1.0 - 10.0% Decrease (-)
- Over 10.0% Decrease (-)
- No Population or No Data
- Report Location

Community Partners

SSM Health St. Mary's Hospital – Jefferson City works with numerous community partners in Jefferson City, Columbia and Mid-Missouri to identify and prioritize health improvement needs and develop programming to support the meeting of those needs. SSM Health St. Mary's Hospital – Jefferson City community partners include:

- **Catholic Charities of Central and Northern Missouri** - Tasked with assisting Bishop W. Shawn McKnight with making sure the Catholic Church in Central and Northern Missouri is fulfilling its mission to reach out to those on the margins and serve those in need.
- **Community Health Center of Central Missouri (CHCCMO)** - CHCCMO is a Federal Tort Claims Act (FTCA) deemed facility that emphasizes providing access to primary care services to everyone, regardless of their ability to pay and works with community partners to achieve a vision of “embracing people, inspiring health”.
- **Compass Health Network** - Compass Health Network is a nonprofit health care organization that provides a full continuum of behavioral health services as well as primary and dental health services throughout Missouri.
- **Local public health departments, including:**
 - Health Departments of Callaway County;
 - Cole County;
 - Miller County;
 - Moniteau County; and
 - Osage County.
- **Missouri Coalition for Community Behavioral Healthcare** - The Council actively leads the development and implementation of programs, systems, and resources that unify and support the statewide providers which improve access to appropriate behavioral healthcare for all Missourians.
- **United Way of Central Missouri** - United Way of Central Missouri fights for the health, education, financial stability and basic needs of every person in central Missouri, serving Camden, Cole, Maries, Miller, Moniteau, Morgan, Osage, Phelps and southern Callaway Counties.



Hospital's role in Conducting the Assessment

To complete the 2022 - 2024 Community Health Needs Assessment, leadership from SSM Health St. Mary's Hospital - Jefferson City conducted a comprehensive community health assessment using multiple methodologies: secondary data analysis, conversations with community groups, and surveys completed by community members, community leaders and local health and human service providers, which allowed us to measure perception, health risks, health factors, health outcomes and characteristics specific to the communities in these five central Missouri counties.

Primary Data

SSM Health St. Mary's Hospital – Jefferson City sought and received input from a number of community members and the leaders from numerous community organizations. Community perspectives and data gathered during this endeavor were incorporated into the SSM Health St. Mary's Hospital – Jefferson City's Community Health Needs Assessment. Community perspectives were gathered from multiple agencies, including a key informant survey.

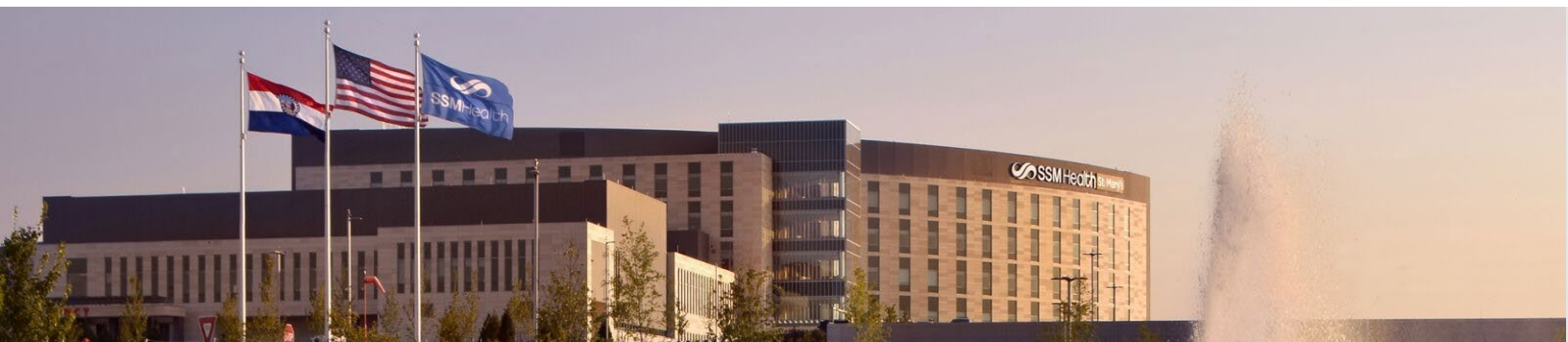
- **Community and Key Informant Survey** - In addition to the review of demographics and secondary data, and the aforementioned conversations with community groups, a community perception survey was conducted to assess the perception of health care and health status across the five-county region in the analysis. The survey was made available via email, yielding a total of 59 responses from residents. Analysis of the survey responses helped inform the secondary data and fueled the prioritization process.

This input provided perspective on the health status of the community and enlightened the analysis of the secondary data relative to the most important health issues and challenges, key resources and advice on how to address the issues identified.

Secondary Data

Existing data previously collected for other purposes, called secondary data, was used from a variety of credible public local, state and federal sources to provide a context for analysis and interpretation. Data is key to diagnosing and addressing some of our region's most pressing health issues, and by analyzing the information available to the public, furthers our missions to improve health and the well-being of our communities. The availability of new datasets enabled a more detailed level of analysis such as health and social factors at a county and zip code level.

We gathered and reviewed data from broad sources to set the initial direction and priorities of the community health needs assessment. The secondary data was derived from a variety of unbiased sources including the U.S. Census, Centers for Disease Control and Prevention, Robert Wood Johnson Foundation, Community Commons, Missouri Hospital Association, and the Missouri Department of Health and Human Services.



Health equity lens

Equity and empowerment lens

Equity is defined as “the absence of avoidable or remediable differences among groups of people, whether those groups are defined socially, economically, demographically, or geographically” (World Health Organization, 2016). Health is a fundamental human right, therefore, to address health inequities interventions need to be effective and sustainable, focused on empowering those experiencing inequities (WHO, 2016).

A characteristic common to groups that experience health inequities—such as poor or marginalized persons, racial and ethnic minorities, and women—is lack of political, social or economic power. Research indicates a strong relationship between self-reported racism and discrimination with negative mental health outcomes and negative health-related behaviors.

Research also indicates that chronic stress from experiencing discrimination, such as racism, throughout the lifespan can lead to negative health outcomes. These outcomes are seen even after controlling for differences such as socio-economic status and access to adequate health care. The effect can include the following:

- Higher blood pressure
- Lower immune function
- Higher rates of nicotine and alcohol use and poor nutritional intake
- Lower rates of exercise and social support
- Higher rates of infant mortality

Social determinants of health (SDoH) lens

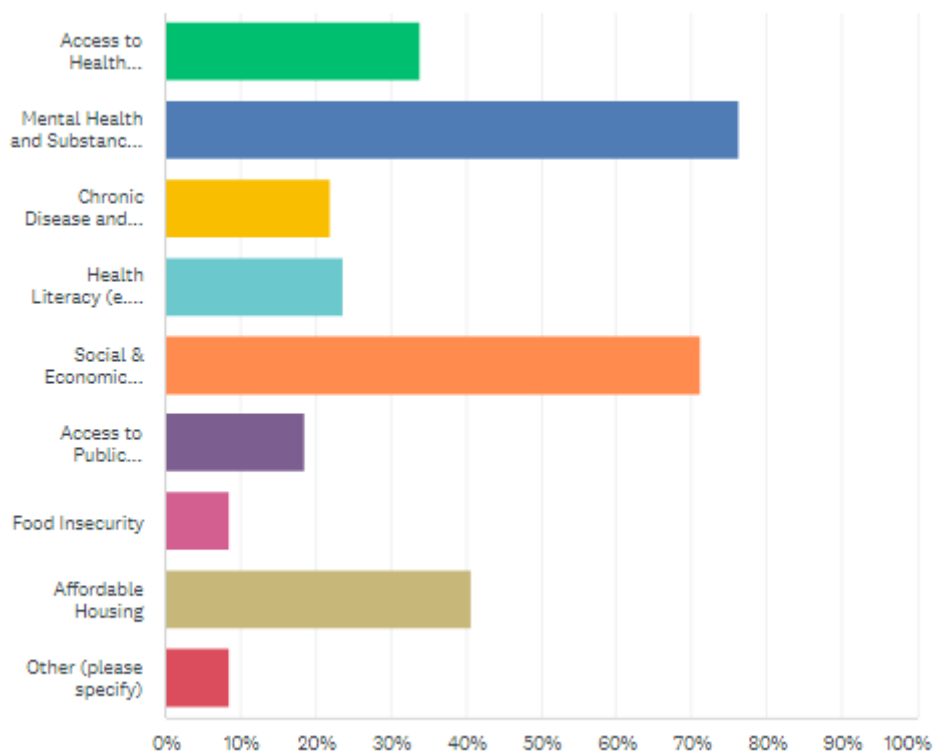
The social determinants of health are the non-medical factors that influence health outcomes. They are the conditions in which people are born, grow, work, live, and age, and the wider set of forces and systems shaping the conditions of daily life. Examples of these factors include safe and affordable housing, access to quality education, public safety, availability of healthy foods, accessible health care services, and positive social support systems.

Research shows that the social determinants can be more important than health care or lifestyle choices in influencing health. For example, numerous studies suggest that social determinants account for between 30-55% of health outcomes. In addition, estimates show that the contribution of sectors outside health to community health outcomes exceeds the contribution from the health sector. By applying what we know about SDOH, we can not only improve individual and community health but also advance health equity.

Community Input

Community health survey

A community perception survey of individuals who live, work or learn in central Missouri was conducted during October 2021 with 59 responses received from key informants. The survey consisted of 10 questions designed to gain insight into how community members perceive the overall health of the community. One of the questions, with results below – *As you think about key health indicators and social determinants of health, please identify your top three (3) concerns in the community* – was intended to identify the top health concerns in the community.



Based on the survey responses received, the top health concerns in the community are:

- Mental Health and Substance Abuse
- Social and Economic Factors (e.g. poverty, uninsured, level of education, rural isolation)
- Affordable Housing
- Access to Health Care/Specialty Medical Care
- Health Literacy (e.g. chronic disease self-management, preventative care and screenings, health education)

Prioritization of health needs

As part of the CHNA requirement, hospitals are required to evaluate the needs that are identified and validated through the data analysis. In order to do so, hospitals must establish specific criteria that will be used to assess each of the identified community needs. The system has recommended criteria and ratings that each hospital can use during prioritization. The method used to evaluate the needs is customizable based on the hospital's approach.

A two-step process to prioritize community health needs was used by SSM Health St. Mary's Hospital - Jefferson City's CHNA Steering Committee. Step one of this process focused on gaining community member input. This step is subjective and measures community member's perceptions of the identified needs. As described earlier in this assessment document, the community was invited to participate in a community perception survey intended to identify the top health concerns in the community.

Once the community perception survey was complete, top community health needs were discussed, reviewed and ranked (in descending order) by priority by the SSM Health St. Mary's Hospital - Jefferson City CHNA Steering Committee. The steering committee used the following criteria to aid in the selection of priority areas:

- Affects many people
- Has a serious impact on population health
- Actionable at the local level
- Attainable/realistic ability to be impacted in 3-5 years
- Viable strategies exist to impact the issue
- Ability to have measurable outcome to see impact
- Community capacity and willingness to address it
- Trending health concern: shows up as a theme in community conversations, interviews, public input survey or other data presented

In addition, the steering committee considered the feasibility of addressing the top community health needs identified by members of the community. The criteria used by the steering committee is more objective and focuses on alignment to key strategies, resources, capacity, and overall capability. Based on the steering committee's final prioritization, the top-ranking priorities established the health areas of focus for the 2022-2024 Community Health Implementation Plan (see below):

- Mental Health and Substance Abuse
- Specialty Medical Care
- Health Literacy

It is also important to note that community members and the SSM Health St. Mary's Hospital - Jefferson City CHNA Steering Committee identified access to affordable housing as a priority in the service area.

A health equity lens will be applied throughout the development of the 2022-2024 Community Health Improvement Plan (CHIP) which will influence health outcomes among the three priority health areas.

2022 – 2024 Identified Priority Needs

The Community Health Needs Assessment is intended to be a tool in identifying and pursuing collaborative goals and actions to address the identified prioritized needs. Based on the two-step prioritization process of the SSM Health St. Mary's Hospital - Jefferson City Steering Committee, these top three issues and determining factors were identified as priorities:

Priority 1: Mental Health and Substance Abuse

Mental health and substance abuse was identified as the number one priority to address in the 2022-2024 Community Health Improvement Plan (CHIP).

Mental health needs in Central Missouri may include, but are not limited to needs, barriers and challenges that relate to provider availability, affordability, insurance, stigma, substance use, stress, and suicide. Substance abuse needs in Central Missouri may include, but are not limited to needs, barriers and challenges that relate tobacco, vaping, drugs (narcotics, marijuana, etc.), prescription medications, and alcohol use, mental health treatment services and access to care.

Many community perception survey participants and steering team members expressed concern about mental health issues in the community. In particular, mental health issues, such as anxiety, depression and risk of suicide, are prevalent concerns. There are limited mental health providers in the area in general but especially noted was the gap in providers for youth and families in distress. Long wait lists for treatment or counseling were often noted. Additionally, many feel that mental health is intertwined with other key health issues such as substance abuse, addiction, and overall good physical health. In regard to substance abuse, it was noted that individuals may be using drugs/alcohol as a mechanism to cope with mental health issues stemming from toxic stress they have experienced. Poor mental or behavioral health frequently contributes to or exacerbates problems with physical health and illness. An additional concern reported was related to connecting patients with services needed, especially coordination of care for patients with co-occurring or dual diagnosis conditions. A concern that social stigmas around mental health are widespread in our communities and may play a key role in whether someone chooses to seek care.

Priority 2: Specialty Medical Care

Access to specialty medical care was identified as the number two priority to address in the 2022-2024 Community Health Improvement Plan.

Access to specialty, primary and preventive health care services through a doctor's office, clinic or other appropriate provider is an important element of a community's health care system and is vital for helping the community's residents to be healthy. The ability to access care is influenced by many factors, including:

- insurance coverage and the ability to afford services;
- long waits for appointments or treatments;
- the availability and hours of operation of health care providers;
- an understanding of where to find services when needed;
- a lack of providers accepting new Medicaid patients; and
- a lack of reliable personal or public transportation.

2022 – 2024 Identified Priority Needs

Priority 3: Health Literacy

Health literacy, primarily focused on chronic disease management, was identified as the number three priority to address in the 2022-2024 Community Health Improvement Plan.

Chronic disease needs in Central Missouri may include, but are not limited to needs, barriers and challenges that relate to diabetes, cardiovascular disease, obesity, hypertension, food accessibility, health behaviors and access to care. Heart disease, cancer, cerebrovascular diseases, respiratory diseases are in the top ten leading causes of death in Central Missouri.

Health literacy, including chronic disease self-management, preventative care, and life skills education, stress management and coping are needed to improve health and wellness decisions. Primary data suggests that health education, preventative screenings, and social and emotional support services should be delivered differently throughout communities rather than in the traditional class offerings or group settings. Expanding the opportunities for education of consumers through digital media, health kiosks, providing more mobile health care options, and using community health workers and case managers in a variety of settings, including churches, schools and colleges, to encourage and link individuals to health care or support services. In addition, it was noted that health literacy is a concern that cuts across the other priority areas as well, income and educational disparities, language barriers, lack of insurance and/or understanding of how to use the health care system are some of the issues that undermine health and wellness.

Comparison to 2018 – 2020 CHNA

Identified Priority Needs

The previous study was conducted from January through July 2018. The 2018 report identified the following priorities for improving the health of residents in the five-county report area of Central Missouri and by sharing the results of the assessment enabled agencies and organizations to work together to begin addressing those issues that most influence health and well-being in our communities.

1. Prioritized Health Issue #1: Improve Access to Health Care and Support Services
2. Prioritized Health Issue #2: Mental Health Disorders and Substance Abuse
3. Prioritized Health Issue #3: Chronic Disease & Health Risks Prevention; Overweight/Obesity & Physical Inactivity, Smoking & Tobacco Use
4. Prioritized Health Issue #4: Improve Health Literacy
5. Prioritized Health Issue #5: Address Social Determinants of Health

The 2021 Community Health Needs Assessment reported similar findings and priorities.

The assessment process is an ongoing cycle that includes: building partnerships; assessing data, identifying community needs, and capacity; and conducting planning, prioritization, interventions, implementation, and evaluation. Addressing complex health needs and closing health gaps is a long-term process that commonly exceeds the time horizon of a three-year plan. Therefore, recurring themes of health issues and priorities can persist from one report period to another.

SSM Health St. Mary's Jefferson City and its partners will continue to work strategically to establish programs, develop interventions and coordinate resources to improve the health of our communities and the region.



SSMHealth.

2021

Appendices

SSM Health St. Mary's Hospital - Jefferson City

2505 Mission Drive, Jefferson City, MO 65109

Appendix A:

Community Perception Survey questions

2021 CHNA Community Perception Questionnaire

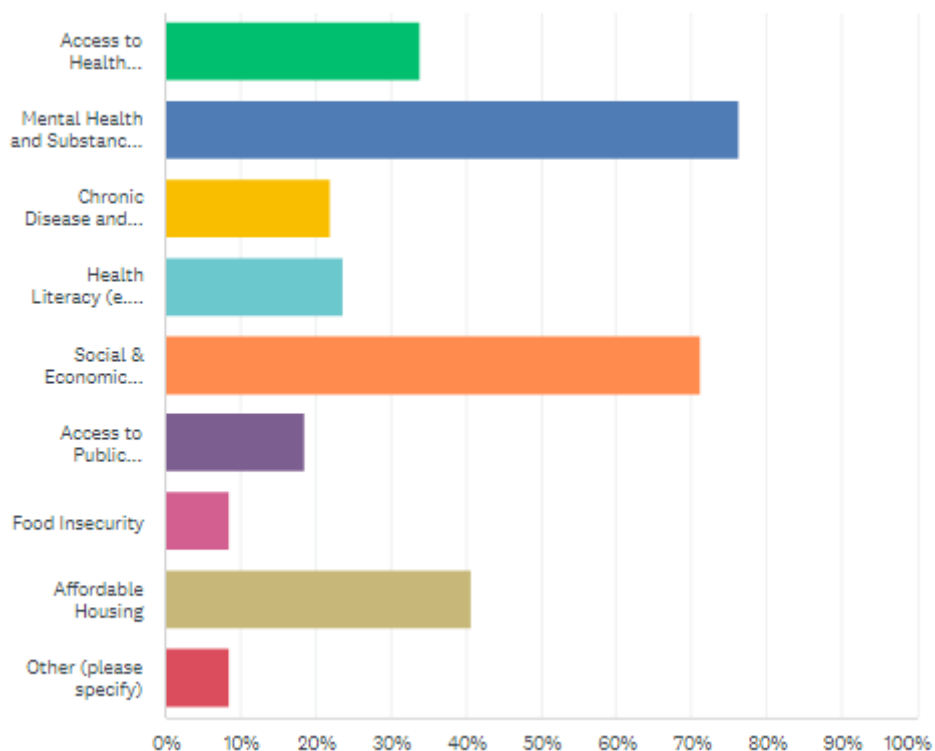
Below are the questions that comprise the key informant questionnaire that were utilized during the development of this Community Health Needs Assessment.

- First and Last Name
- Organization and Title
- County of Residence
- As you think about your community, what are your general thoughts about the health and well-being of your community and how have you seen it change over the past few years?
- As you think about key health indicators and social determinants of health, please identify your top three (3) concerns in the community.
- Why do you have those concerns about health in the community?
- What groups of people are more vulnerable or underserved in the community?
- What assets exist in the community for addressing the needs and improving the overall health and well-being of the community?
- Do you have any additional thoughts about health in the community and/or approaches to improving community health?
- On a scale of 1 to 5 (with 5 being best), how do you rate the overall health of your community?

Community Input

Community health survey

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Based on the survey responses received, the top health concerns in the community are:

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- Social and Economic Factors (e.g. poverty, uninsured, level of education, rural isolation)
- Affordable Housing
- Access to Health Care/Specialty Medical Care
- Health Literacy (e.g. chronic disease self-management, preventative care and screenings, health education)

Appendix B:

Definition of Community Data

Definition of Community: Demographics

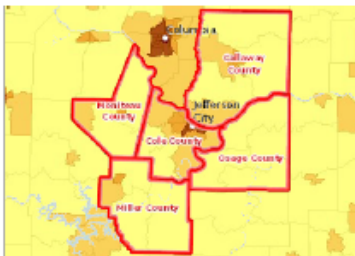
Total Population

A total of 176,474 people live in the 2,840.29 square mile report area defined for this assessment according to the U.S. Census Bureau American Community Survey 2015-19 5-year estimates. The population density for this area, estimated at 62.13 persons per square mile, is less than the national average population density of 91.93 persons per square mile.

Report Area	Total Population	Total Land Area (Square Miles)	Population Density (Per Square Mile)
Report Location	176,474	2,840.29	62.13
Callaway County, MO	44,889	834.57	53.79
Cole County, MO	76,723	391.51	195.97
Miller County, MO	25,201	592.60	42.53
Moniteau County, MO	16,046	415.03	38.66
Osage County, MO	13,615	606.58	22.45
Missouri	6,104,910	68,746.51	88.80
United States	324,697,795	3,532,068.58	91.93

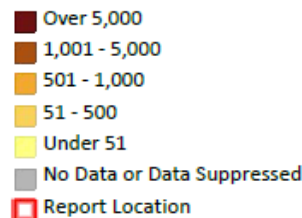
Data Source: US Census Bureau, American Community Survey, 2015-19. Source geography: Tract

Health data



[View larger map](#)

Population, Density (Persons per Sq Mile) by Tract, ACS 2015-19



Definition of Community: Demographics

Total Population by Age

Understanding that older populations generally have more chronic disease and face more barriers in accessing care, we noted that the concentration of the aging population in the rural counties where there are fewer services is of growing concern.

Report Area	Age 0-4	Age 5-17	Age 18-24	Age 25-34	Age 35-44	Age 45-54	Age 55-64	Age 65+
Report Location	10,561	29,285	15,898	22,775	21,779	23,596	23,579	29,001
Callaway County, MO	2,464	7,050	4,701	5,856	5,455	6,137	6,114	7,112
Cole County, MO	4,592	12,652	6,801	10,318	9,783	10,158	10,113	12,306
Miller County, MO	1,657	4,334	1,952	2,915	2,806	3,290	3,504	4,743
Moniteau County, MO	1,058	2,894	1,248	2,156	2,143	2,123	1,923	2,501
Osage County, MO	790	2,355	1,196	1,530	1,592	1,888	1,925	2,339
Missouri	371,570	1,010,042	573,249	813,407	738,183	769,927	821,807	1,006,725
United States	19,767,670	53,661,722	30,646,327	45,030,415	40,978,831	42,072,620	41,756,414	50,783,796

Median Age

According to the latest 5-year American Community Survey estimate, all five counties in the report area have a median age that is at or above the Missouri state average of 38.6 years and all five counties have a median age that is above the national average of 38.1 years.

Report Area	Total Population	Median Age
Report Location	176,474	No data
Callaway County, MO	44,889	38.6
Cole County, MO	76,723	38.6
Miller County, MO	25,201	40.7
Moniteau County, MO	16,046	38.0
Osage County, MO	13,615	40.8
Missouri	6,104,910	38.6
United States	324,697,795	38.1

Data Source: US Census Bureau, American Community Survey, 2015-19. Source geography: Tract

Definition of Community: Demographics

Total Age 65+

Of the estimated 176,474 total population in the report area, an estimated 29,001 persons are adults aged 65 and older, representing 16.43% of the population. These data are based on the latest U.S. Census Bureau American Community Survey 5-year estimates. The number of older adults in the report area is relevant because this population has unique needs which should be considered separately from other age groups.

Report Area	Total Population	Population Age 65+	Population Age 65+, Percent
Report Location	176,474	29,001	16.43%
Callaway County, MO	44,889	7,112	15.84%
Cole County, MO	76,723	12,306	16.04%
Miller County, MO	25,201	4,743	18.82%
Moniteau County, MO	16,046	2,501	15.59%
Osage County, MO	13,615	2,339	17.18%
Missouri	6,104,910	1,006,725	16.49%
United States	324,697,795	50,783,796	15.64%

Data Source: US Census Bureau, American Community Survey, 2015-19. Source geography: Tract

Total Population by Race Alone, Percent

Of the estimated 176,474 total population in the report area, 90.1% are white while 9.9% are persons of color. 4 of the counties in the report area have populations that are over 92% white. These data are based on the latest U.S. Census Bureau American Community Survey 5-year estimates.

Report Area	White	Black	Asian	Native American or Alaska Native	Native Hawaiian or Pacific Islander	Some Other Race	Multiple Race
Report Location	90.10%	6.50%	0.96%	0.53%	0.09%	0.16%	1.66%
Callaway County, MO	92.02%	4.39%	0.82%	0.54%	0.33%	0.06%	1.84%
Cole County, MO	83.96%	11.71%	1.56%	0.39%	0.01%	0.24%	2.13%
Miller County, MO	96.71%	0.25%	0.48%	1.25%	0.00%	0.07%	1.25%
Moniteau County, MO	95.99%	2.73%	0.06%	0.39%	0.00%	0.19%	0.64%
Osage County, MO	99.13%	0.18%	0.03%	0.12%	0.00%	0.15%	0.40%
Missouri	82.16%	11.49%	1.98%	0.44%	0.13%	1.17%	2.63%
United States	72.49%	12.70%	5.52%	0.85%	0.18%	4.94%	3.32%

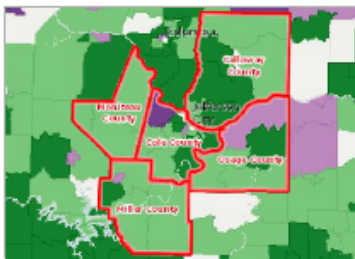
Definition of Community: Demographics

Population Change

According to the United States Census Bureau Decennial Census, between 2000 and 2010 the population in the report area grew by 12,829 persons, a change of 7.93%. A significant positive or negative shift in total population over time impacts healthcare providers and the utilization of community resources.

Report Area	Total Population, 2000 Census	Total Population, 2010 Census	Population Change, 2000-2010	Population Change, 2000-2010, Percent
Report Location	161,726	174,555	12,829	7.93%
Callaway County, MO	40,766	44,332	3,566	8.75%
Cole County, MO	69,514	75,990	6,476	9.32%
Miller County, MO	23,564	24,748	1,184	5.02%
Moniteau County, MO	14,827	15,607	780	5.26%
Osage County, MO	13,055	13,878	823	6.30%
Missouri	5,591,987	5,988,927	396,940	7.1%
United States	280,405,781	307,745,539	27,339,758	9.75%

Data Source: US Census Bureau, Decennial Census, 2000 - 2010. Source geography: Tract



[View larger map](#)

Population Change, Percent by Tract, US Census 2000 - 2010

- Over 10.0% Increase (+)
- 1.0 - 10.0% Increase (+)
- Less Than 1.0% Change (+/-)
- 1.0 - 10.0% Decrease (-)
- Over 10.0% Decrease (-)
- No Population or No Data
- Report Location

Definition of Community: Demographics

Population Change (2000-2010) by Hispanic Origin

According to the United States Census Bureau, between 2000 and 2010 the Hispanic population in the report area grew by 75.1% or 1,508 persons. This finding is consistent with Hispanic population growth of 79.5% in the state of Missouri during the same period. In Cole County, the Hispanic population grew by over 100% during this time period.

Report Area	Hispanic Population Change, Total	Hispanic Population Change, Percent	Non-Hispanic Population Change, Total	Non-Hispanic Population Change, Percent
Report Location	1,508	75.14%	11,321	7.09%
Callaway County, MO	330	87.53%	3,236	8.01%
Cole County, MO	908	102.37%	5,568	8.11%
Miller County, MO	112	48.48%	1,072	4.59%
Moniteau County, MO	151	34.71%	629	4.37%
Osage County, MO	7	9.09%	816	6.29%
Missouri	94,137	79.55%	302,803	5.53%
United States	15,152,943	42.93%	12,099,099	4.92%

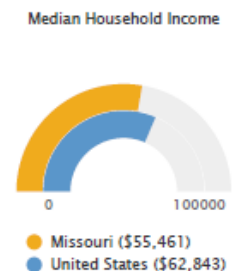
Definition of Community:

Socio and Economic Factors

Median Household Income

This indicator reports median household income based on the latest 5-year American Community Survey estimates. This includes the income of the householder and all other individuals 15 years old and over in the household, whether they are related to the householder or not. Because many households consist of only one person, average household income is usually less than average family income.

Report Area	Total Households	Average Household Income	Median Household Income
Report Location	66,794	\$71,564	No data
Callaway County, MO	15,973	\$68,870	\$56,938
Cole County, MO	30,154	\$75,636	\$60,066
Miller County, MO	10,111	\$64,090	\$47,171
Moniteau County, MO	5,436	\$67,975	\$58,010
Osage County, MO	5,120	\$74,559	\$61,687
Missouri	2,414,521	\$76,060	\$55,461
United States	120,756,048	\$88,607	\$62,843

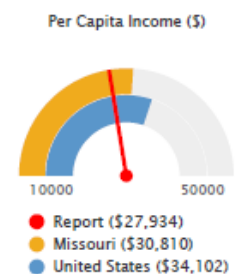


Note: This indicator is compared to the state average.
Data Source: US Census Bureau, American Community Survey, 2015-19. Source geography: Tract

Per Capita Income

The per capita income for the report area is \$27,934. This includes all reported income from wages and salaries as well as income from self-employment, interest or dividends, public assistance, retirement, and other sources. The per capita income in this report area is the average (mean) income computed for every man, woman, and child in the specified area.

Report Area	Total Population	Total Income (\$)	Per Capita Income (\$)
Report Location	176,474	\$4,929,647,300	\$27,934
Callaway County, MO	44,889	\$1,160,327,600	\$25,848
Cole County, MO	76,723	\$2,334,089,200	\$30,422
Miller County, MO	25,201	\$650,867,000	\$25,827
Moniteau County, MO	16,046	\$388,703,800	\$24,224
Osage County, MO	13,615	\$395,659,700	\$29,060
Missouri	6,104,910	\$188,092,947,100	\$30,810
United States	324,697,795	\$11,073,131,694,900	\$34,102



Note: This indicator is compared to the state average.
Data Source: US Census Bureau, American Community Survey, 2015-19. Source geography: Tract

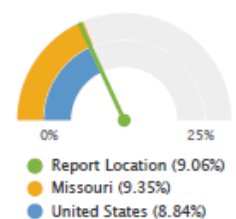
Definition of Community: Socio and Economic Factors

Insurance

The lack of health insurance is considered a key driver of health status. In the report area 9.06% of the total civilian non-institutionalized population are without health insurance coverage. The rate of uninsured persons in the report area is less than the state average of 9.35%. This indicator is relevant because lack of insurance is a primary barrier to healthcare access including regular primary care, specialty care, and other health services that contributes to poor health status.

Report Area	Total Population (For Whom Insurance Status is Determined)	Uninsured Population	Uninsured Population, Percent
Report Location	167,812	15,204	9.06%
Callaway County, MO	42,177	3,846	9.12%
Cole County, MO	72,637	5,985	8.24%
Miller County, MO	24,836	2,557	10.30%
Moniteau County, MO	14,681	2,181	14.86%
Osage County, MO	13,481	635	4.71%
Missouri	5,990,637	559,885	9.35%
United States	319,706,872	28,248,613	8.84%

Uninsured Population, Percent

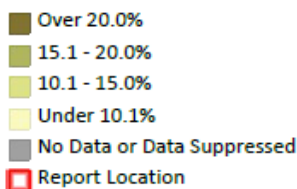


Note: This indicator is compared to the state average.
Data Source: US Census Bureau, American Community Survey, 2015-19. Source geography: Tract



[View larger map](#)

Uninsured Population, Percent by Tract, ACS 2015-19



Definition of Community:

Socio and Economic Factors

Uninsured Population by Age Group, Percent

In the report area 6.03% of persons under aged 18 are uninsured, compared to 5.57% of persons living in the state of Missouri and 5.08% of persons living in the United States. This difference is primarily driven by conditions in two counties, Callaway and Moniteau. For persons age 18-64, the uninsured rate in the report area is 12.84%, compared to 13.30% of persons living in the state of Missouri and 12.42% of persons living in the United States.

Report Area	Under Age 18	Age 18 - 64	Age 65 +
Report Location	6.03%	12.84%	0.37%
Callaway County, MO	7.10%	12.43%	0.00%
Cole County, MO	4.53%	12.02%	0.43%
Miller County, MO	3.97%	16.32%	0.38%
Moniteau County, MO	17.07%	17.75%	0.81%
Osage County, MO	1.13%	7.33%	0.67%
Missouri	5.57%	13.30%	0.49%
United States	5.08%	12.42%	0.79%

Uninsured Population by Age Group, Total Number

Report Area	Under Age 18	Age 18-64	Age 65+
Report Location	2,549	12,553	102
Callaway County, MO	716	3,130	0
Cole County, MO	834	5,100	51
Miller County, MO	251	2,289	17
Moniteau County, MO	711	1,451	19
Osage County, MO	37	583	15
Missouri	81,097	474,033	4,755
United States	3,945,906	23,910,236	392,471

Definition of Community: Socio and Economic Factors

Education

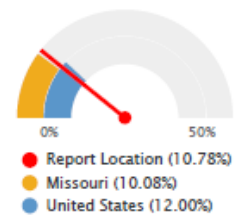
This category contains indicators that describe the education system and the educational outcomes of report area populations. Education metrics can be used to describe variation in population access, proficiency, and attainment throughout the education system, from access to pre-kindergarten through advanced degree attainment. These indicators are important because education is closely tied to health outcomes and economic opportunity.

No High School Diploma

Within the report area there are 13,009 persons aged 25 and older without a high school diploma (or equivalency) or higher. This represents 10.78% of the total population aged 25 and older. This indicator is relevant because educational attainment is linked to positive health outcomes.

Report Area	Total Population Age 25+	Population Age 25+ with No High School Diploma	Population Age 25+ with No High School Diploma, Percent
Report Location	120,730	13,009	10.78%
Callaway County, MO	30,674	4,231	13.79%
Cole County, MO	52,678	4,063	7.71%
Miller County, MO	17,258	2,190	12.69%
Moniteau County, MO	10,846	1,587	14.63%
Osage County, MO	9,274	938	10.11%
Missouri	4,150,049	418,266	10.08%
United States	220,622,076	26,472,261	12.00%

Population Age 25+ with No High School Diploma, Percent



Note: This indicator is compared to the state average.

Data Source: US Census Bureau, American Community Survey, 2015-19. Source geography: Tract

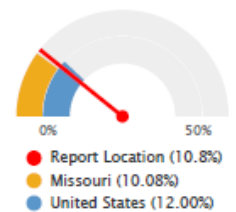
Definition of Community: Socio and Economic Factors

Attainment

Educational Attainment shows the distribution of the highest level of education achieved in the report area, and helps schools and businesses to understand the needs of adults, whether it be workforce training or the ability to develop science, technology, engineering, and mathematics opportunities. Educational attainment is calculated for persons over 25, and is an estimated average for the period from 2014 to 2019. For the selected area, 17.5% have at least a college bachelor’s degree, while 34.9% stopped their formal educational attainment after high school.

Report Area	No High School Diploma	High School Only	Some College	Associates Degree	Bachelors Degree	Graduate or Professional Degree
Report Location	10.8%	34.9%	20.3%	7.6%	17.5%	9.0%
Callaway County, MO	13.79%	36.1%	19.5%	7.5%	15.4%	7.7%
Cole County, MO	7.71%	29.7%	21.6%	7.7%	21.5%	11.9%
Miller County, MO	12.69%	40.6%	20.4%	6.9%	12.6%	6.8%
Moniteau County, MO	14.63%	40.1%	18.9%	5.9%	15.0%	5.5%
Osage County, MO	10.11%	43.7%	16.8%	10.5%	13.8%	5.2%
Missouri	10.08%	30.6%	22.2%	7.9%	18.0%	11.3%
United States	12.00%	27.0%	20.4%	8.5%	19.8%	12.4%

Percent Population with No High School Diploma



Note: This indicator is compared to the state average.
Data Source: US Census Bureau, American Community Survey, 2015-19. Source geography: County

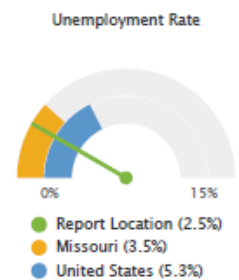
Definition of Community:

Socio and Economic Factors

Unemployment Rate

Total unemployment in the report area for the current month equals 2,216, or 2.5% of the civilian non-institutionalized population age 16 and older (non-seasonally adjusted). This indicator is relevant because unemployment creates financial instability and barriers to access including insurance coverage, health services, healthy food, and other necessities that contribute to poor health status.

Report Area	Labor Force	Number Employed	Number Unemployed	Unemployment Rate
Report Location	88,260	86,044	2,216	2.5%
Callaway County, MO	21,651	21,063	588	2.7%
Cole County, MO	39,686	38,722	964	2.4%
Miller County, MO	12,384	12,048	336	2.7%
Moniteau County, MO	7,402	7,210	192	2.6%
Osage County, MO	7,137	7,001	136	1.9%
Missouri	3,056,710	2,949,809	106,901	3.5%
United States	162,875,350	154,220,063	8,655,287	5.3%



Note: This indicator is compared to the state average.
 Data Source: US Department of Labor, Bureau of Labor Statistics. 2021 - August. Source geography: County

Definition of Community: Socio and Economic Factors

Poverty

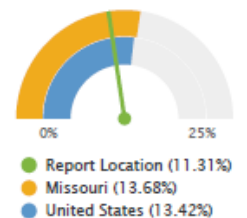
Poverty is recognized as the single largest social determinant of health, and ill health is an obstacle to social and economic development. Poorer people live shorter lives and have poorer health than affluent people.

Population Below 100% FPL

Lower than average poverty rates provide evidence of a higher level of economic well-being in four of the five counties – Callaway (10.6%), Cole (10.4%), Moniteau (12.0%) and Osage (7.4%) when compared to Missouri (13.4%). Of the five, Miller County has the highest percentage of residents below the poverty level (16.9%).

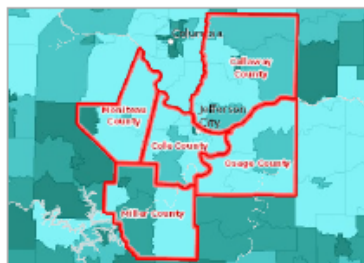
Report Area	Total Population	Population in Poverty	Population in Poverty, Percent
Report Location	165,104	18,667	11.31%
Callaway County, MO	40,745	4,335	10.64%
Cole County, MO	71,670	7,416	10.35%
Miller County, MO	24,741	4,173	16.87%
Moniteau County, MO	14,653	1,760	12.01%
Osage County, MO	13,295	983	7.39%
Missouri	5,922,570	810,045	13.68%
United States	316,715,051	42,510,843	13.42%

Population in Poverty, Percent



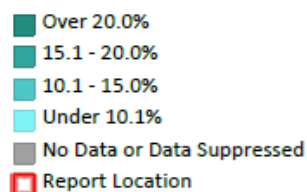
Note: This indicator is compared to the state average.

Data Source: US Census Bureau, American Community Survey, 2015-19. Source geography: Tract



[View larger map](#)

Population Below the Poverty Level, Percent by Tract, ACS 2015-19



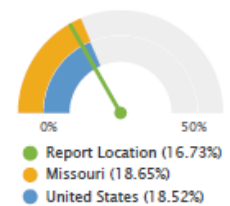
Definition of Community: Socio and Economic Factors

Children Below 100% FPL

In the report area 16.73% or 6,539 children aged 0-17 are living in households with income below the Federal Poverty Level (FPL). This indicator is relevant because poverty creates barriers to access including health services, healthy food, and other necessities that contribute to poor health status.

Report Area	Total Population	Population Under Age 18	Population Under Age 18 in Poverty	Percent Population Under Age 18 in Poverty
Report Location	165,104	39,083	6,539	16.73%
Callaway County, MO	40,745	9,242	1,647	17.82%
Cole County, MO	71,670	16,975	2,422	14.27%
Miller County, MO	24,741	5,873	1,610	27.41%
Moniteau County, MO	14,653	3,913	592	15.13%
Osage County, MO	13,295	3,080	268	8.70%
Missouri	5,922,570	1,351,348	252,071	18.65%
United States	316,715,051	72,235,700	13,377,778	18.52%

Percent Population Under Age 18 in Poverty



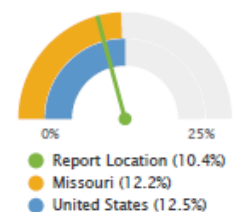
Note: This indicator is compared to the state average.
Data Source: US Census Bureau, American Community Survey, 2015-19. Source geography: Tract

SNAP Benefits – Population Receiving SNAP (SAIPE)

The Supplemental Nutrition Assistance Program, or SNAP, is a federal program that provides nutrition benefits to low-income individuals and families that are used at stores to purchase food. This indicator reports the average percentage of the population receiving SNAP benefits during the month of July during the most recent report year.

Report Area	Total Population	Population Receiving SNAP Benefits	Population Receiving SNAP Benefits, Percent
Report Location	176,504.00	18,326	10.4%
Callaway County, MO	44,944.00	4,743	10.6%
Cole County, MO	76,669.00	7,951	10.4%
Miller County, MO	25,206.00	3,603	14.3%
Moniteau County, MO	16,022.00	1,251	7.8%
Osage County, MO	13,663.00	778	5.7%
Missouri	6,108,612.00	745,977	12.2%
United States	325,147,121.00	40,771,688	12.5%

Percentage of Total Population Receiving SNAP Benefits



Note: This indicator is compared to the state average.
Data Source: US Census Bureau, Small Area Income and Poverty Estimates, 2017. Source geography: County

Definition of Community:

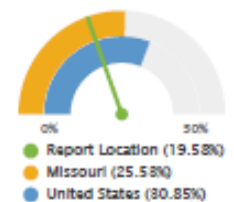
Socio and Economic Factors

Housing Costs – Cost Burden (30%)

This indicator reports the percentage of the households where housing costs are 30% or more of total household income. This indicator provides information on the cost of monthly housing expenses for owners and renters. The information offers a measure of housing affordability and excessive shelter costs. The data also serve to aid in the development of housing programs to meet the needs of people at different economic levels. Of the 66,794 total households in the report area, 13,075 or 19.58% of the population live in cost burdened households.

Report Area	Total Households	Cost Burdened Households (Housing Costs Exceed 30% of Income)	Cost Burdened Households, Percent
Report Location	66,794	13,075	19.58%
Callaway County, MO	15,973	3,472	21.74%
Cole County, MO	30,154	5,747	19.06%
Miller County, MO	10,111	2,323	22.97%
Moniteau County, MO	5,436	961	17.68%
Osage County, MO	5,120	572	11.17%
Missouri	2,414,521	616,342	25.53%
United States	120,756,048	37,249,895	30.85%

Percentage of Households where Housing Costs Exceed 30% of Income

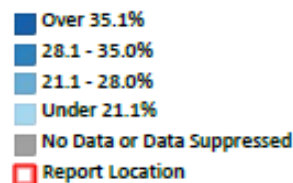


Note: This indicator is compared to the state average.
Data Source: US Census Bureau, American Community Survey, 2015-19. Source geography: Tract



[View larger map](#)

Cost Burdened Households (Housing Costs Exceed 30% of Household Income), Percent by Tract, ACS 2015-19

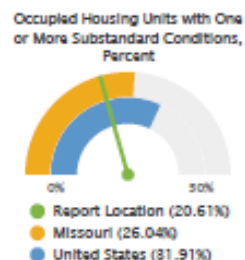


Definition of Community: Socio and Economic Factors

Housing Quality – Substandard Housing

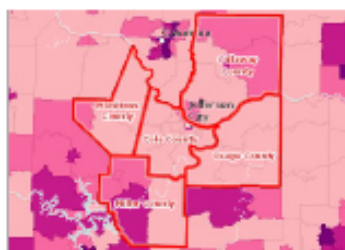
This indicator reports the number and percentage of owner- and renter-occupied housing units having at least one of the following conditions: 1) lacking complete plumbing facilities, 2) lacking complete kitchen facilities, 3) with 1 or more occupants per room, 4) selected monthly owner costs as a percentage of household income greater than 30%, and 5) gross rent as a percentage of household income greater than 30%. Selected conditions provide information in assessing the quality of the housing inventory and its occupants. This data is used to easily identify homes where the quality of living and housing can be considered substandard. Of the 66,794 total occupied housing units in the report area, 13,768 or 20.61% have one or more substandard conditions.

Report Area	Total Occupied Housing Units	Occupied Housing Units with One or More Substandard Conditions	Occupied Housing Units with One or More Substandard Conditions, Percent
Report Location	66,794	13,768	20.61%
Callaway County, MO	15,973	3,588	22.46%
Cole County, MO	30,154	6,021	19.97%
Miller County, MO	10,111	2,439	24.12%
Moniteau County, MO	5,436	1,058	19.46%
Osage County, MO	5,120	662	12.93%
Missouri	2,414,521	628,785	26.04%
United States	120,756,048	38,530,862	31.91%



Note: This indicator is compared to the state average.

Data Source: US Census Bureau, American Community Survey, 2015-19. Source geography: Tract



[View larger map](#)

Substandard Housing Units, Percent of Total by Tract, ACS 2015-19

- Over 34.0%
- 28.1 - 34.0%
- 22.1 - 28.0%
- Under 22.1%
- No Data or Data Suppressed
- Report Location

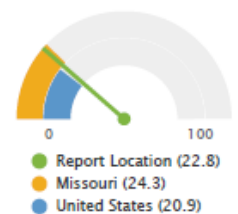
Definition of Community: Access to Care

Teen Births

This indicator reports the seven-year average number of births per 1,000 female population age 15-19. Data were from the National Center for Health Statistics - Natality files (2013-2019) and are used for the 2021 County Health Rankings. In the report area, of the 39,913 total female population age 15-19, the teen birth rate is 22.8 per 1,000, which is less than the state's teen birth rate of 24.3.

Report Area	Female Population Age 15-19	Teen Births, Rate per 1,000 Female Population Age 15-19
Report Location	39,913	22.8
Callaway County, MO	11,365	21.2
Cole County, MO	16,823	21.0
Miller County, MO	5,258	37.3
Moniteau County, MO	3,561	25.6
Osage County, MO	2,906	9.6
Missouri	2,686,849	24.3
United States	144,319,360	20.9

Teen birth rate per 1,000 female population, ages 15-19



Note: This indicator is compared to the state average.

Data Source: Centers for Disease Control and Prevention, National Vital Statistics System. Accessed via County Health Rankings. 2013-2019. Source geography: County



[View larger map](#)

Teen Births, Rate Per 1,000 Live Births by County, CDC NVSS 2013-2019

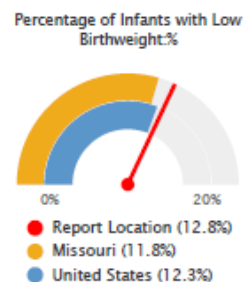
- Over 54.0
- 40.1 - 54.0
- 26.1 - 40.0
- Under 26.1
- No Data or Data Suppressed
- Report Location

Definition of Community: Access to Care

Low Birth Weight

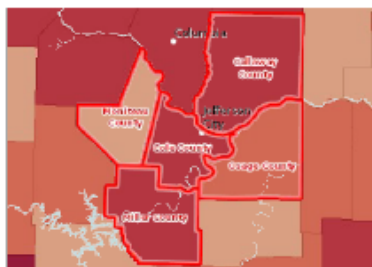
This indicator reports the percentage of live births where the infant weighed less than 2,500 grams (approximately 5 lbs., 8 oz.). These data are reported for a 7-year aggregated time period. Data were from the National Center for Health Statistics - Natality Files (2013-2019) and are used for the 2021 County Health Rankings. Within the report area, there were 14,436 infants born with low birth weight. This represents 12.8% of the total live births.

Report Area	Total Live Births	Low Birthweight Births	Low Birthweight Births, Percentage
Report Location	1,132	14,436	12.8%
Callaway County, MO	281	3,505	8.0%
Cole County, MO	515	6,307	8.2%
Miller County, MO	175	2,144	8.2%
Moniteau County, MO	85	1,421	6.0%
Osage County, MO	76	1,059	7.2%
Missouri	87,996	1,036,658	11.8%
United States	4,440,508	54,416,819	12.3%



Note: This indicator is compared to the state average.

Data Source: University of Wisconsin Population Health Institute, County Health Rankings, 2013-2019. Source geography: County



[View larger map](#)

Low Birthweight, Percentage of Live Births by County, CDC NVSS 2013-2019

- Over 10.0%
- 8.1 - 10.0%
- 7.1 - 8.0%
- Under 7.1%
- No Data or Data Suppressed
- Report Location

Definition of Community:

Access to Care

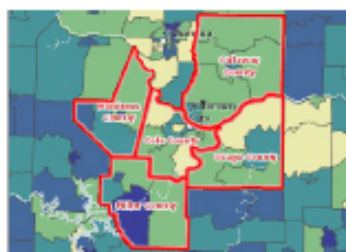
Social Vulnerability Index

The degree to which a community exhibits certain social conditions, including high poverty, low percentage of vehicle access, or crowded households, may affect that community's ability to prevent human suffering and financial loss in the event of disaster. These factors describe a community's social vulnerability.

The social vulnerability index is a measure of the degree of social vulnerability in counties and neighborhoods across the United States, where a higher score indicates higher vulnerability. The report area has a social vulnerability index score of 0.32, which is less than the state average of 0.41.

Report Area	Total Population	Socioeconomic Theme Score	Household Composition Theme Score	Minority Status Theme Score	Housing & Transportation Theme Score	Social Vulnerability Index Score
Report Location	176,206	0.36	0.31	0.28	0.49	0.32
Callaway County, MO	44,840	0.40	0.28	0.27	0.48	0.32
Cole County, MO	76,740	0.2	0.27	0.38	0.51	0.26
Miller County, MO	25,049	0.68	0.71	0.04	0.49	0.50
Moniteau County, MO	15,958	0.60	0.18	0.48	0.64	0.51
Osage County, MO	13,619	0.20	0.09	0.02	0.17	0.05
Missouri	6,090,062	0.39	0.40	0.50	0.46	0.41
United States	322,903,030	0.30	0.32	0.76	0.62	0.40

Note: This indicator is compared to the state average.
 Data Source: Centers for Disease Control and Prevention and the National Center for Health Statistics, CDC - GRASP, 2018. Source geography: Tract



[View larger map](#)

Social Vulnerability Index by Tract, CDC 2018

- 0.81 - 1.00 (Highest Vulnerability)
- 0.61 - 0.80
- 0.41 - 0.60
- 0.21 - 0.40
- 0.00 - 0.20 (Lowest Vulnerability)
- No Data or Data Suppressed
- Report Location

Definition of Community: Access to Care

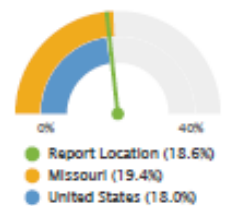
Poor or Fair Health

This indicator reports the percentage of adults age 18 and older who self-report having poor or fair health (age-adjusted to the 2000 standard). Data were from the 2018 Behavioral Risk Factor Surveillance System (BRFSS) annual survey and are used for the 2021 County Health Rankings. This indicator is relevant because it is a measure of general poor health status.

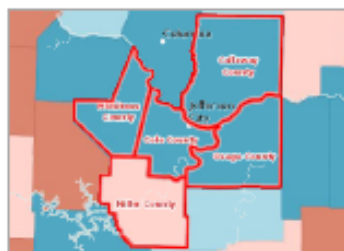
Within the report area there are 8,279 persons aged 18 and older who self-report having poor or fair health. This represents 18.6% of the total population aged 18 and older, which is less than the state rate of 19.4%.

Report Area	Population Age 18+	Adults with Poor or Fair Health	Percentage of Adults with Poor or Fair Health
Report Location	44,554	8,279	18.6%
Callaway County, MO	11,311	2,116	18.7%
Cole County, MO	20,101	3,463	17.2%
Miller County, MO	5,721	1,255	21.9%
Moniteau County, MO	4,299	889	20.7%
Osage County, MO	3,122	555	17.8%
Missouri	3,103,180	602,120	19.4%
United States	172,018,492	30,907,322	18.0%

Percentage of Adults with Fair or Poor Health



Note: This indicator is compared to the state average.
Data Source: Centers for Disease Control and Prevention, Behavioral Risk Factor Surveillance System. Accessed via County Health Rankings, 2021. Source geography: County



[View larger map](#)

Adults with Poor or Fair Health, Rank by County, CHR 2021

- 1st Quartile (Top 25%)
- 2nd Quartile
- 3rd Quartile
- 4th Quartile (Bottom 25%)
- Bottom Quintile (Rhode Island Only)
- No Data or Data Suppressed; -1
- Report Location

Definition of Community: Access to Care

Risk Factors and Health Behaviors

Risk Factors and Health Behaviors is relevant because engaging in preventive behaviors decreases the likelihood of developing future health problems. When considered with other indicators of poor health, these indicator can also highlight a lack of access to preventive care, a lack of health knowledge, insufficient provider outreach, and/or social barriers preventing utilization of services.

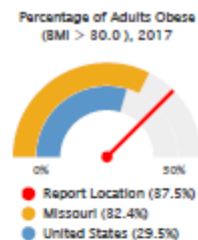
Obesity

A lack of physical activity and poor nutrition are contributing factors to being overweight. Obesity can also lead to a wide range of health problems and chronic diseases among all age groups. This includes high cholesterol, hypertension, diabetes, heart disease, stroke and some cancers. Nationally, the increase in both the prevalence of overweight and obesity and associated chronic diseases is well-documented, and has negative consequences for individuals and society. Low-income and poverty often contributes to poor nutrition and fitness.

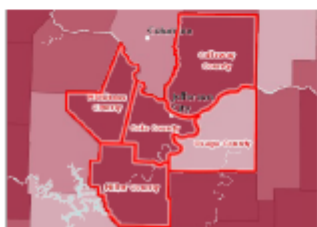
This indicator reports the number and percentage of adults aged 20 and older self-report having a Body Mass Index (BMI) greater than 30.0 (obese). Respondents were considered obese if their Body Mass Index (BMI) was 30 or greater. Body mass index (weight [kg]/height [m]²) was derived from self-report of height and weight. Excess weight may indicate an unhealthy lifestyle and puts individuals at risk for further health issues.

Within the report area, there are a total of 49,570 adults age 20 and older who self-reported having a BMI greater than 30.0. This represents a 37.5% of the survey population.

Report Area	Population Age 20+	Adults with BMI > 30.0 (Obese)	Adults with BMI > 30.0 (Obese), Percent
Report Location	131,998	49,570	37.5%
Callaway County, MO	34,052	12,361	36.2%
Cole County, MO	57,423	23,371	40.6%
Miller County, MO	18,675	7,115	38.5%
Moniteau County, MO	11,722	4,384	37.3%
Osage County, MO	10,126	2,339	23.2%
Missouri	4,570,848	1,486,000	32.4%
United States	243,101,202	72,159,365	29.5%



Note: This indicator is compared to the state average.
Data Source: Centers for Disease Control and Prevention, National Center for Chronic Disease Prevention and Health Promotion, 2017. Source geography: County



[View larger map](#)

Obese (BMI >= 30), Adults Age 20+, Percent by County, CDC NCCDPHP 2017

- Over 34.0%
- 30.1 - 34.0%
- 26.1 - 30.0%
- Under 26.1%
- No Data or Data Suppressed
- Report Location

Definition of Community: Access to Care

Physical Inactivity

Within the report area, 31,780 or 23.1% of adults aged 20 and older self-report no active leisure time, based on the question: "During the past month, other than your regular job, did you participate in any physical activities or exercises such as running, calisthenics, golf, gardening, or walking for exercise?" This indicator is relevant because current behaviors are determinants of future health and this indicator may illustrate a cause of significant health issues, such as obesity and poor cardiovascular health.

Report Area	Population Age 20+	Adults with No Leisure Time Physical Activity	Adults with No Leisure Time Physical Activity, Percent
Report Location	132,076	31,780	23.1%
Callaway County, MO	34,116	8,495	23.9%
Cole County, MO	57,396	11,594	19.5%
Miller County, MO	18,671	6,012	30.4%
Moniteau County, MO	11,751	3,255	26.6%
Osage County, MO	10,142	2,424	22.4%
Missouri	4,567,579	1,163,085	24.5%
United States	243,068,284	55,261,407	22.1%



Note: This indicator is compared to the state average.
Data Source: Centers for Disease Control and Prevention, National Center for Chronic Disease Prevention and Health Promotion, 2017. Source geography: County



[View larger map](#)

No Leisure-Time Physical Activity, Adults Age 20+, Percent by County, CDC NCCDPHP 2017

- Over 29.0%
- 26.1 - 29.0%
- 23.1 - 26.0%
- Under 23.1%
- No Data or Data Suppressed
- Report Location

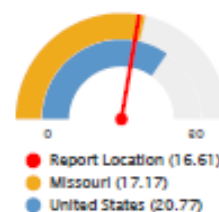
Definition of Community: Access to Care

Food Environment – Grocery Stores

Healthy dietary behaviors are supported by access to healthy foods, and Grocery Stores are a major provider of these foods. There are 29 grocery establishments in the report area, a rate of 16.61 per 100,000 population. Grocery stores are defined as supermarkets and smaller grocery stores primarily engaged in retailing a general line of food, such as canned and frozen foods; fresh fruits and vegetables; and fresh and prepared meats, fish, and poultry. Delicatessen-type establishments are also included. Convenience stores and large general merchandise stores that also retail food, such as supercenters and warehouse club stores, are excluded.

Report Area	Total Population (2010)	Number of Establishments	Establishments, Rate per 100,000 Population
Report Location	174,555	29	16.61
Callaway County, MO	44,332	4	9.02
Cole County, MO	75,990	9	11.84
Miller County, MO	24,748	7	28.29
Moniteau County, MO	15,607	4	25.63
Osage County, MO	13,878	5	36.03
Missouri	5,988,927	1,028	17.17
United States	308,745,538	64,132	20.77

Grocery Stores, Rate per 100,000 Population



Note: This indicator is compared to the state average.
Data Source: US Census Bureau, County Business Patterns. Additional data analysis by CARES. 2019. Source geography: County



[View larger map](#)

Grocery Stores and Supermarkets, Rate (Per 100,000 Pop.) by County, CBP 2019

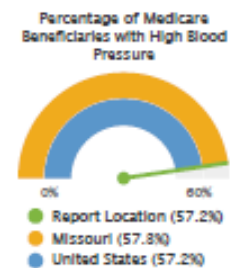


Definition of Community: Access to Care

High Blood Pressure (Medicare Population)

This indicator reports the number and percentage of the Medicare fee-for-service population with hypertension (high blood pressure). Data are based upon Medicare administrative enrollment and claims data for Medicare beneficiaries enrolled in the fee-for-service program. Within the report area, there were 14,944 beneficiaries with hypertension (high blood pressure) based on administrative claims data in the latest report year. This represents 57.2% of the total Medicare fee-for-service beneficiaries.

Report Area	Total Medicare Fee-for-Service Beneficiaries	Beneficiaries with High Blood Pressure	Beneficiaries with High Blood Pressure, Percent
Report Location	26,120	14,944	57.2%
Callaway County, MO	6,328	3,556	56.2%
Cole County, MO	11,553	6,823	59.1%
Miller County, MO	3,918	2,107	53.8%
Moniteau County, MO	2,263	1,224	54.1%
Osage County, MO	2,058	1,234	60.0%
Missouri	718,508	411,526	57.3%
United States	33,499,472	19,162,770	57.2%



Note: This indicator is compared to the state average.
Data Source: Centers for Medicare and Medicaid Services, CMS - Geographic Variation Public Use File - 2018. Source geography: County

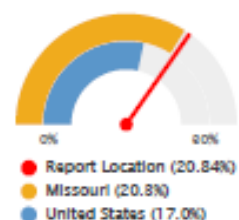
Definition of Community: Access to Care

Tobacco Use

Tobacco use has been shown to contribute to many health problems, most notably heart disease and cancer. The chart below shows the percentage of adults 18 years and older currently smoking or using other forms of tobacco products in five Mid-Missouri counties studied. Callaway, Miller, Moniteau and Osage counties exceed both the State and US average.

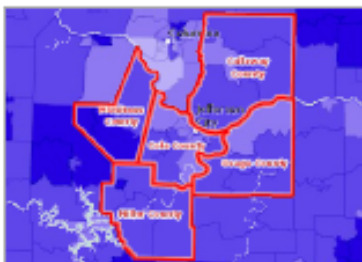
Report Area	Total Population (2018)	Percentage of Adult Current Smokers
Report Location	176,856	20.84%
Callaway County, MO	44,889	20.9%
Cole County, MO	76,796	19.7%
Miller County, MO	25,336	23.3%
Moniteau County, MO	16,121	22.6%
Osage County, MO	13,714	20.4%
Missouri	6,126,452	20.3%
United States	327,167,434	17.0%

Percentage of Adults who are Current Smokers



Note: This indicator is compared to the state average.

Data Source: Centers for Disease Control and Prevention, Behavioral Risk Factor Surveillance System. Accessed via the 500 Cities Data Portal, 2018.



[View larger map](#)

Current Smokers, Adult, Percent of Adults Age 18+ by Tract, CDC BRFSS PLACES Project 2018

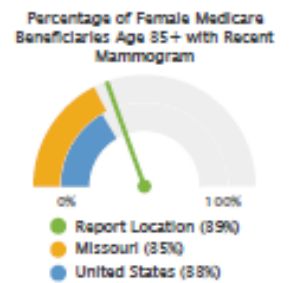
- Over 25.0%
- 20.1% - 25.0%
- 15.1% - 20.0%
- Under 15.1%
- No Data or Data Suppressed
- Report Location

Definition of Community: Health Outcomes

Cancer Screening – Mammogram (Medicare)

This indicator reports the percentage of female Medicare beneficiaries age 35 and older who had a mammogram in most recent reporting year. The American Cancer Society recommends that women age 45 to 54 should get a mammogram every year, and women age 55 and older should get a mammogram every other year. In the latest reporting period there were 35,318 Medicare beneficiaries in the report area, and 39% of female beneficiaries age 35 or older had a mammogram in the past year. The rate in the report area was higher than the state rate of 35% during the same time period.

Report Area	Medicare Beneficiaries	Female Beneficiaries with Recent Mammogram, Percent
Report Location	35,318	39%
Callaway County, MO	8,986	34%
Cole County, MO	15,072	42%
Miller County, MO	5,519	37%
Moniteau County, MO	2,994	38%
Osage County, MO	2,747	41%
Missouri	1,227,396	35%
United States	61,006,129	33%



Note: This indicator is compared to the state average.

Data Source: Centers for Medicare and Medicaid Services, Mapping Medicare Disparities Tool, 2017. Source geography: County

Definition of Community: Health Outcomes

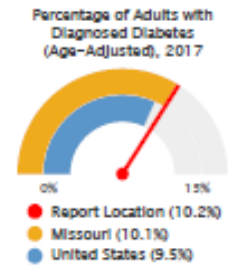
Health Outcomes

Measuring morbidity and mortality rates allows assessing linkages between social determinants of health and outcomes. By comparing, for example, the prevalence of certain chronic diseases to indicators in other categories (e.g., poor diet and exercise) with outcomes (e.g., high rates of obesity and diabetes), various causal relationships may emerge, allowing a better understanding of how certain community health needs may be addressed.

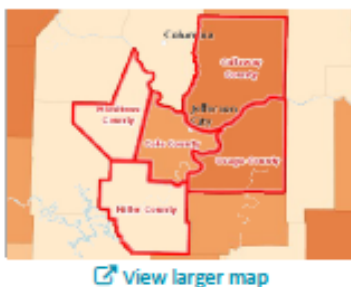
Diabetes (Adult)

This indicator reports the number and percentage of adults age 20 and older who have ever been told by a doctor that they have diabetes. This indicator is relevant because diabetes is a prevalent problem in the U.S.; it may indicate an unhealthy lifestyle and puts individuals at risk for further health issues. Within the report area, 15,191 of adults age 20 and older have diabetes. This represents 10.2% of the total survey population.

Report Area	Population Age 20+	Adults with Diagnosed Diabetes	Adults with Diagnosed Diabetes, Age-Adjusted Rate
Report Location	131,732	15,191	10.2%
Callaway County, MO	34,013	5,238	14.1%
Cole County, MO	57,229	6,238	10.1%
Miller County, MO	18,618	1,266	5.1%
Moniteau County, MO	11,759	1,023	7.8%
Osage County, MO	10,113	1,426	12.2%
Missouri	4,573,051	521,416	10.1%
United States	245,628,960	25,942,874	9.5%



Note: This indicator is compared to the state average.
Data Source: Centers for Disease Control and Prevention, National Center for Chronic Disease Prevention and Health Promotion, 2017. Source geography: County



Diabetes Prevalence, Percent of Adults Age 20+ by County, CDC NCCDPHP 2017

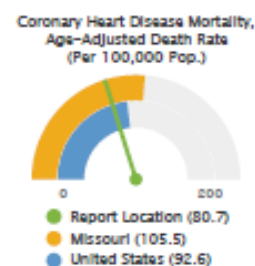
- Over 11.0%
- 9.6 - 11.0%
- 8.1 - 9.5%
- Under 8.1%
- No Data or Data Suppressed
- Report Location

Definition of Community: Health Outcomes

Coronary Heart Disease - Mortality

This indicator reports the 2015-2019 five-year average rate of death due to coronary heart disease (ICD10 Codes I20-I25) per 100,000 population. Figures are reported as crude rates, and as rates age-adjusted to year 2000 standard. Rates are re-summarized for report areas from county level data, only where data is available. This indicator is relevant because coronary heart disease is a leading cause of death in the United States. Within the report area, there are a total of 898 deaths due to coronary heart disease. This represents an age-adjusted death rate of 80.7 per every 100,000 total population.

Report Area	Total Population, 2015-2019 Average	Five Year Total Deaths, 2015-2019 Total	Crude Death Rate (Per 100,000 Population)	Age-Adjusted Death Rate (Per 100,000 Population)
Report Location	176,652	898	101.7	80.7
Callaway County, MO	44,915	218	97.1	83.9
Cole County, MO	76,720	353	92.0	73.3
Miller County, MO	25,300	133	105.1	74.6
Moniteau County, MO	16,059	123	153.2	122.8
Osage County, MO	13,657	71	104.0	73.8
Missouri	6,110,817	40,912	133.9	105.5
United States	325,134,494	1,822,811	112.1	92.6



Note: This indicator is compared to the state average.
Data Source: Centers for Disease Control and Prevention, National Vital Statistics System. Accessed via CDC WONDER, 2015-2019. Source geography: County



[View larger map](#)

Coronary Heart Disease Mortality, Age Adj. Rate (Per 100,000 Pop.) by County, CDC NVSS 2015-19

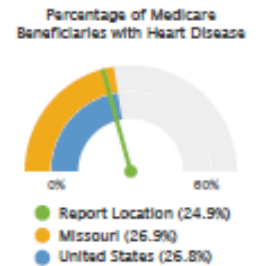
- Over 150.0
- 120.1 - 150.0
- 100.1 - 120.0
- Under 100.1
- Data Suppressed (<20 Deaths)
- Report Location

Definition of Community: Health Outcomes

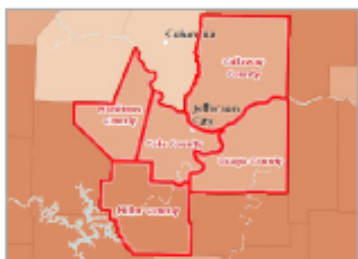
Coronary Heart Disease (Medicare Population)

This indicator reports the number and percentage of the Medicare fee-for-service population with ischemic heart disease. Data are based upon Medicare administrative enrollment and claims data for Medicare beneficiaries enrolled in the fee-for service program. Within the report area, there were 6,498 beneficiaries with ischemic heart disease based on administrative claims data in the latest report year. This represents 24.9% of the total Medicare fee-for-service beneficiaries.

Report Area	Total Medicare Fee-for-Service Beneficiaries	Beneficiaries with Heart Disease	Beneficiaries with Heart Disease, Percent
Report Location	26,120	6,498	24.9%
Callaway County, MO	6,328	1,550	24.5%
Cole County, MO	11,553	2,761	23.9%
Miller County, MO	3,918	1,100	28.1%
Moniteau County, MO	2,263	561	24.8%
Osage County, MO	2,058	526	25.6%
Missouri	718,508	193,562	26.9%
United States	33,499,472	8,979,902	26.8%



Note: This indicator is compared to the state average.
Data Source: Centers for Medicare and Medicaid Services, CMS - Geographic Variation Public Use File - 2018. Source geography: County



[View larger map](#)

Beneficiaries with Ischemic Heart Disease, Percent by County, CMS 2018

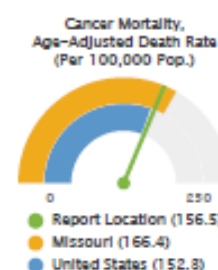
- Over 31.0%
- 27.1 - 31.0%
- 23.1 - 27.0%
- Under 23.1%
- No Data or Data Suppressed
- Report Location

Definition of Community: Health Outcomes

Cancer Mortality

This indicator reports the 2015-2019 five-year average rate of death due to malignant neoplasm (cancer) per 100,000 population. Figures are reported as crude rates, and as rates age-adjusted to year 2000 standard. Rates are re-summarized for report areas from county level data, only where data is available. This indicator is relevant because cancer is a leading cause of death in the United States. Within the report area, there are a total of 1,741 deaths due to cancer. This represents an age-adjusted death rate of 156.5 per every 100,000 total population.

Report Area	Total Population, 2015-2019 Average	Five Year Total Deaths, 2015-2019 Total	Crude Death Rate (Per 100,000 Population)	Age-Adjusted Death Rate (Per 100,000 Population)
Report Location	176,652	1,741	197.1	156.5
Callaway County, MO	44,915	488	217.3	179.0
Cole County, MO	76,720	694	180.9	145.8
Miller County, MO	25,300	283	223.7	159.9
Moniteau County, MO	16,059	136	169.4	140.2
Osage County, MO	13,657	140	205.0	155.7
Missouri	6,110,817	64,545	211.2	166.4
United States	325,134,494	2,991,951	184.0	152.3



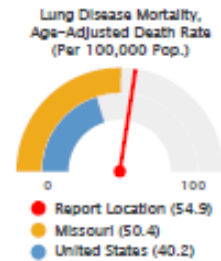
Note: This indicator is compared to the state average.
Data Source: Centers for Disease Control and Prevention, National Vital Statistics System. Accessed via CDC WONDER. 2015-2019. Source geography: County

Definition of Community: Health Outcomes

Lung Disease Mortality

This indicator reports the 2015-2019 five-year average rate of death due to chronic lower respiratory disease per 100,000 population. Figures are reported as crude rates, and as rates age-adjusted to year 2000 standard. Rates are re-summarized for report areas from county level data, only where data is available. This indicator is relevant because lung disease is a leading cause of death in the United States. Within the report area, there are a total of 602 deaths due to lung disease. This represents an age-adjusted death rate of 54.9

Report Area	Total Population, 2015-2019 Average	Five Year Total Deaths, 2015-2019 Total	Crude Death Rate (Per 100,000 Population)	Age-Adjusted Death Rate (Per 100,000 Population)
Report Location	176,652	602	68.2	54.9
Callaway County, MO	44,915	145	64.6	55.3
Cole County, MO	76,720	258	67.3	55.6
Miller County, MO	25,300	117	92.5	65.9
Moniteau County, MO	16,059	47	58.5	48.7
Osage County, MO	13,657	35	51.3	37.0
Missouri	6,110,817	19,604	64.2	50.4
United States	325,134,494	786,303	48.4	40.2



Note: This indicator is compared to the state average.

Data Source: Centers for Disease Control and Prevention, National Vital Statistics System. Accessed via CDC WONDER, 2015-2019. Source geography: County

Appendix C: Health Rankings Data

Health Rankings

exploreMOhealth

ZIP Code-level Data

The Missouri ZIP Health Rankings Project is a collaboration between researchers at the Washington University School of Medicine and the Hospital Industry Data Institute, the data company of the Missouri Hospital Association. Funded by the Robert Wood Johnson Foundation, the project provides a unique approach to measuring community health at the ZIP code level, using hospital discharge and census-based data applied to the County Health Rankings model of population health.

The data provided by the project are designed to inform community health needs assessments at a granular geographic level to inform targeted resource allocations for community health improvement initiatives. Project findings have been presented at the annual meeting of the American Public Health Association and published in the *Journal of Public Health Management and Practice*.

The ZIP code-level data included in the most recent version of the site are based on hospital discharges occurring between fiscal years 2018 and 2020 (October 1, 2017 through September 30, 2020), and the 2019 American Community Survey of the U.S. Census. The previous versions of the ZIP Health Rankings data are also available in the Map Room, or for download below.

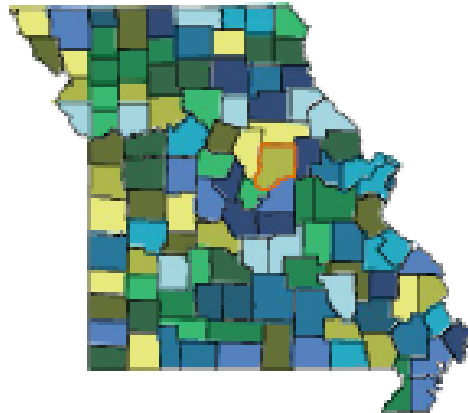
County-Level Study

In 2016, approximately 52,000 Missouri adults were randomly called to participate in the Missouri County-Level Study (CLS). The CLS collected data on the county-specific prevalence of various chronic disease risk factors (e.g., tobacco use, physical activity, nutrition), medical conditions, and preventive practices. This information can be used to help define county-level health priorities. The study spans all 114 Missouri counties and the City of St. Louis. The data presented on this site are ideally suited to assist local health departments, organizations, and coalitions to determine priority health needs and interventions.

More than 100 questions were asked on a variety of related health topics. Socio-demographic questions such as sex, age, race, and marital status also were included. Respondents were non-institutionalized adults, and individuals residing in nursing homes, mental institutions, and correctional facilities were not included in the study. Data are self-reported and thereby subject to recall bias. Additionally, adults living in residences without a landline telephone that do not use a cell phone or that do not speak English are not represented.

The study is funded by Missouri Foundation for Health and conducted in collaboration with the Missouri Department of Health and Senior Services and the University of Missouri-Columbia Health and Behavioral Risk Research Center.

Health Rankings



Highlighted County-Level Issues for Callaway County

Health Factor	Rank*
Clinical Care Rank	13
Length of Life Rank	21
Health Outcomes Rank	23
Health Factors Rank	32
Quality of Life Rank	33
Health Behaviors Rank	41
Socioeconomic Factors Rank	46
Physical Environment Rank	78

* Statewide Rank of 116 (1=best)

Top Ranked ZIP Codes in Callaway County

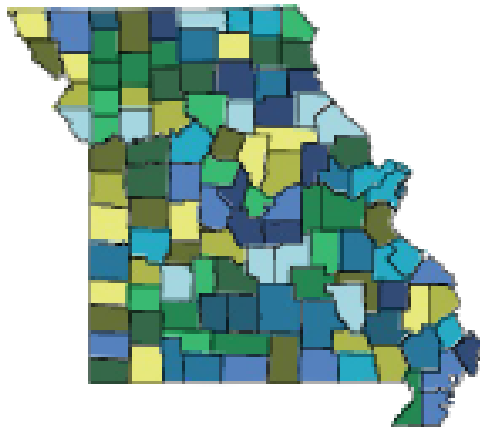
ZIP Code	Name	Rank**	Top Health Factor	Top Social Factor
65063	New Bloomfield	75	Stroke	Income Inequality by Race
65080	Tebbetts	103	Asthma	Vacant Housing
65264	Martinsburg	110	Teen Pregnancy	Vacant Housing
65231	Auxvasse	235	Substance Use Disorder	Injury Deaths
65043	Holt Summit	297	Obesity	Income Inequality by Race

Bottom Ranked ZIP Codes in Callaway County

ZIP Code	Name	Rank**	Top Health Factor	Top Social Factor
63388	Williamsburg	896	Sexually Transmitted Infections	Median Household Income
65262	Kingdom City	718	Substance Use Disorder	Medicaid Hospital Visits
65059	Mokane	689	Substance Use Disorder	One Parent Households
65067	Portland	598	Liver Disease	Median Household Income
65251	Fulton	533	Substance Use Disorder	Income Inequality by Race

** Statewide Rank of 939 (1=best)

Health Rankings



Highlighted County-Level Issues for Cole County

Health Factor	Rank*
Clinical Care Rank	4
Health Factors Rank	8
Socioeconomic Factors Rank	10
Health Outcomes Rank	16
Length of Life Rank	16
Quality of Life Rank	21
Health Behaviors Rank	40
Physical Environment Rank	59

* Statewide Rank of 116 (1=best)

Top Ranked ZIP Codes in Cole County

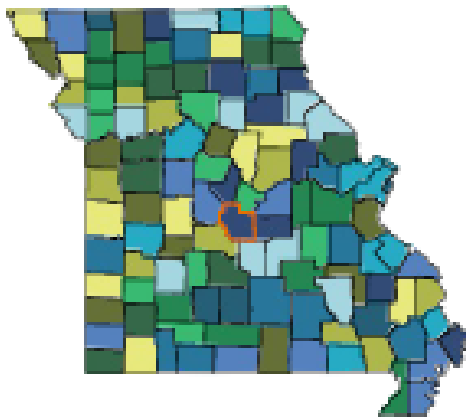
ZIP Code	Name	Rank**	Top Health Factor	Top Social Factor
65053	Lohman	48	Cancer	Vacant Housing
65076	Saint Thomas	80	Cancer	Vacant Housing
65032	Eugene	82	Obesity	Vacant Housing
65023	Centertown	90	Stroke	Blue Collar Workers

Bottom Ranked ZIP Codes in Cole County

ZIP Code	Name	Rank**	Top Health Factor	Top Social Factor
65101	Jefferson City	303	Obesity	Assault diagnosis
65040	Henley	202	Teen Pregnancy	High School Education
65074	Russellville	200	Asthma	One Parent Households
65109	Jefferson City	184	Obesity	Renter Occupied Housing

** Statewide Rank of 939 (1=best)

Health Rankings



Highlighted County-Level Issues for Miller County

Health Factor	Rank*
Length of Life Rank	35
Clinical Care Rank	40
Health Outcomes Rank	51
Physical Environment Rank	54
Health Factors Rank	69
Socioeconomic Factors Rank	70
Quality of Life Rank	78
Health Behaviors Rank	91

* Statewide Rank of 116 (1=best)

Top Ranked ZIP Codes in Miller County

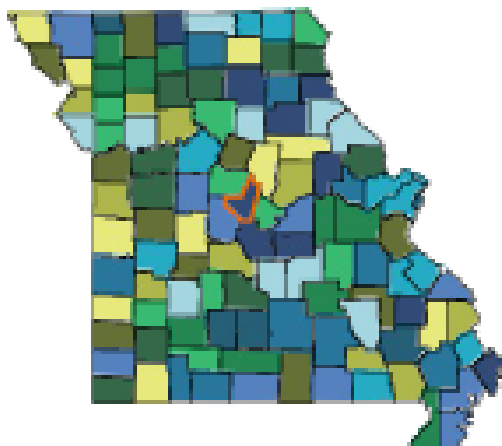
ZIP Code	Name	Rank**	Top Health Factor	Top Social Factor
65032	Eugene	82	Obesity	Vacant Housing
65049	Lake Ozark	114	Substance Use Disorder	Childhood Poverty
65075	Saint Elizabeth	182	Teen Pregnancy	ED Utilization for Dental Caries
65040	Henley	202	Teen Pregnancy	High School Education
65072	Rocky Mount	304	Hypertension	Low Birthweight

Bottom Ranked ZIP Codes in Miller County

ZIP Code	Name	Rank**	Top Health Factor	Top Social Factor
65017	Brumley	838	Smoking	Blue Collar Workers
65026	Eldon	633	Teen Pregnancy	Uninsured Hospital Visits
65083	Ulman	587	Stroke	High School Education
65486	Iberia	440	Obesity	Vacant Housing
65058	Meta	408	Premature Deaths	Household Size

** Statewide Rank of 939 (1=best)

Health Rankings



Highlighted County-Level Issues for Moniteau County

Health Factor	Rank*
Health Outcomes Rank	4
Quality of Life Rank	5
Length of Life Rank	9
Physical Environment Rank	15
Socioeconomic Factors Rank	22
Health Factors Rank	36
Clinical Care Rank	43
Health Behaviors Rank	73

* Statewide Rank of 116 (1=best)

Top Ranked ZIP Codes in Moniteau County

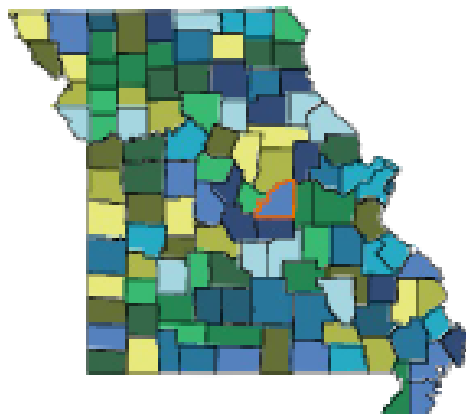
ZIP Code	Name	Rank**	Top Health Factor	Top Social Factor
65023	Centertown	90	Stroke	Blue Collar Workers
65046	Jamesstown	120	Mental Health	Vacant Housing
65074	Russellville	200	Asthma	One Parent Households
65050	Latham	211	Teen Pregnancy	Less Than High School Education

Bottom Ranked ZIP Codes in Moniteau County

ZIP Code	Name	Rank**	Top Health Factor	Top Social Factor
65034	Fortuna	650	Sexually Transmitted Infections	Less Than High School Education
65025	Clarksburg	396	Obesity	Assault diagnosis
65081	Tipton	357	Sexually Transmitted Infections	College Education
65018	California	295	Obesity	Multilingual Households

** Statewide Rank of 039 (1=best)

Health Rankings



Highlighted County-Level Issues for Osage County

Health Factor	Rank*
Health Factors Rank	1
Health Behaviors Rank	4
Socioeconomic Factors Rank	4
Health Outcomes Rank	7
Clinical Care Rank	9
Quality of Life Rank	10
Length of Life Rank	11
Physical Environment Rank	12

* Statewide Rank of 116 (1=best)

Top Ranked ZIP Codes in Osage County

ZIP Code	Name	Rank**	Top Health Factor	Top Social Factor
65016	Bonnets Mill	74	Cancer	Vacant Housing
65076	Saint Thomas	80	Cancer	Vacant Housing
65035	Freeburg	115	Cancer	ED Utilization for Dental Caries
65085	Westphalia	129	Cancer	Health Care Worker Availability
65054	Loose Creek	157	Premature Deaths	High School Education

Bottom Ranked ZIP Codes in Osage County

ZIP Code	Name	Rank**	Top Health Factor	Top Social Factor
65061	Morrison	740	Liver Disease	Median Home Value
65013	Belle	687	Teen Pregnancy	Household Size
65014	Bland	585	Cancer	Injury Deaths
65048	Koeltztown	470	Asthma	Injury Deaths
65058	Mets	408	Premature Deaths	Household Size

** Statewide Rank of 939 (1=best)

Appendix D:

Death and Hospitalization Data

Causes of Death and Hospitalization

The Missouri Information for Community Assessment (MICA) is an interactive system that was developed to make health data accessible at the local level through an easy-to-use format. It allows users to summarize data, calculate rates, and prepare information in a graphic format. Data MICA users can access statistics on various health conditions and associated topics. Users can choose from among the many conditions, generate data tables by year of occurrence, age, gender, race, and county or zip code of residence, and obtain age-adjusted rates. Data MICAs also allow users to create charts and maps.

Impact of Chronic Disease on Hospitalizations in our 5-county Service Area and in Missouri (based on MICA 2015 data)

Title: Missouri Resident Chronic Disease Inpatient Hospitalizations														
Data selected in addition to rows and columns below: Single Year(s): 2015;														
County:	Callaway	Callaway	Cole	Cole	Miller	Miller	Moniteau	Moniteau	Osage	Osage	Total for selection	Total for selection	Missouri	Missouri
Statistics:	Count	Percent of Column Total	Count	Percent of Column Total	Count	Percent of Column Total	Count	Percent of Column Total	Count	Percent of Column Total	Count	Percent of Column Total	Count	Percent of Column Total
Chronic Diagnosis														
Diseases of the heart	468	32.48	673	31.06	233	30.90	148	35.84	139	35.82	1,661	32.17	72,507	33.97
Non-traumatic joint disorders	216	14.99	365	16.84	97	12.86	77	18.64	50	12.89	805	15.59	26,368	12.35
Neoplasms - malignant (cancer)	123	8.54	220	10.15	69	9.15	34	8.23	49	12.63	495	9.59	19,660	9.21
Cerebrovascular disease	128	8.88	186	8.58	80	10.61	35	8.47	24	6.19	453	8.77	19,999	9.37
Chronic obstructive pulmonary disease and bronchiectasis	109	7.56	145	6.69	66	8.75	21	5.08	30	7.73	371	7.19	13,978	6.55
Diabetes	100	6.94	110	5.08	42	5.57	21	5.08	41	10.57	314	6.08	12,449	5.83
Alcohol and substance-related mental disorders	69	4.79	130	6.00	45	5.97	17	4.12	11	2.84	272	5.27	12,212	5.72
Epilepsy- convulsions	52	3.61	63	2.91	31	4.11	12	2.91	10	2.58	168	3.25	5,716	2.68
Other cardiovascular/circulatory conditions	52	3.61	60	2.77	25	3.32	15	3.63	8	2.06	160	3.10	8,547	4.00
Hypertension	25	1.73	59	2.72	25	3.32	10	2.42	9	2.32	128	2.48	6,700	3.14
Atherosclerosis	x	x	x	x	x	x	x	x	x	x	98	1.90	3,176	1.49
Asthma	31	2.15	35	1.62	17	2.25	7	1.69	6	1.55	96	1.86	5,855	2.74
Liver disease	x	x	x	x	x	x	x	x	x	x	x	x	3,802	1.78
Sickle cell anemia	x	x	x	x	x	x	x	x	x	x	x	x	2,134	1.00
Chronic renal failure	x	x	x	x	x	x	x	x	x	x	x	x	337	0.16
Total for selection	1,441	100.00	2,167	100.00	754	100.00	413	100.00	388	100.00	5,163	100.00	213,440	100.00
Confidentiality: The "x" symbol indicates the confidentiality rule has been triggered.														
Source: DHSS - MOPHIMS - Chronic Disease Inpatient Hospitalization MICA														
Generated On: 10/20/2021 10:15														
Chronic Disease: The Chronic Disease categories shown here do not include all types of chronic disease.														

Causes of Death and Hospitalization

Impact of Chronic Disease on Emergency Department Visits in our 5-county Service Area and in Missouri (based on MICA 2015 data)

Title: Missouri Resident Chronic Disease Emergency Room Visits														
Data selected in addition to rows and columns below: Single Year(s): 2015;														
County:	Callaway	Callaway	Cole	Cole	Miller	Miller	Moniteau	Moniteau	Osage	Osage	Total for selection	Total for selection	Missouri	Missouri
Statistics:	Count	Percent of Column Total	Count	Percent of Column Total	Count	Percent of Column Total	Count	Percent of Column Total	Count	Percent of Column Total	Count	Percent of Column Total	Count	Percent of Column Total
Chronic Diagnosis														
Diseases of the heart	922	34.02	1,534	33.54	369	28.02	232	35.47	173	35.38	3,230	33.15	96,970	31.03
Non-traumatic joint disorders	450	16.61	1,057	23.11	325	24.68	143	21.87	118	24.13	2,093	21.48	46,935	15.02
Chronic obstructive pulmonary disease and bronchiectasis	323	11.92	336	7.35	183	13.90	68	10.40	37	7.57	947	9.72	33,946	10.86
Asthma	172	6.35	409	8.94	80	6.07	42	6.42	26	5.32	729	7.48	30,253	9.68
Epilepsy- convulsions	151	5.57	274	5.99	73	5.54	45	6.88	17	3.48	560	5.75	18,050	5.78
Alcohol and substance-related mental disorders	159	5.87	252	5.51	62	4.71	25	3.82	28	5.73	526	5.40	28,280	9.05
Hypertension	134	4.94	226	4.94	63	4.78	39	5.96	22	4.50	484	4.97	18,794	6.01
Other cardiovascular/circulatory conditions	130	4.80	170	3.72	82	6.23	21	3.21	29	5.93	432	4.43	13,754	4.40
Diabetes	131	4.83	106	2.32	56	4.25	15	2.29	21	4.29	329	3.38	13,031	4.17
Cerebrovascular disease	50	1.85	89	1.95	12	0.91	16	2.45	11	2.25	178	1.83	5,425	1.74
Sickle cell anemia	x	x	x	x	x	x	x	x	x	x	111	1.14	2,404	0.77
Liver disease	x	x	x	x	x	x	x	x	x	x	44	0.45	1,878	0.60
Neoplasms - malignant (cancer)	x	x	x	x	x	x	x	x	x	x	42	0.43	1,666	0.53
Atherosclerosis	x	x	x	x	x	x	x	x	x	x	23	0.24	610	0.20
Chronic renal failure	x	x	x	x	x	x	x	x	x	x	15	0.15	473	0.15
Total for selection	2,710	100.00	4,573	100.00	1,317	100.00	654	100.00	489	100.00	9,743	100.00	312,469	100.00
Confidentiality: The "x" symbol indicates the confidentiality rule has been triggered.														
Source: DHSS - MOPHIMS - Chronic Disease Emergency Room MICA														
Generated On: 10/20/2021 10:21														
Chronic Disease: The Chronic Disease categories shown here do not include all types of chronic disease.														

Causes of Death and Hospitalization

Causes of Preventable Hospitalizations in our 5-county Service Area and in Missouri (based on MICA 2015 data)

Title: Missouri Resident Preventable Hospitalizations														
Data selected in addition to rows and columns below: Single Year(s): 2015;														
County:	Callaway	Callaway	Cole	Cole	Miller	Miller	Moniteau	Moniteau	Osage	Osage	Total for selection	Total for selection	Missouri	Missouri
Statistics:	Count	Rate	Count	Rate	Count	Rate	Count	Rate	Count	Rate	Count	Rate	Count	Rate
Preventable Diagnosis														
Dehydration - volumn depletion	112	27.41	157	22.39	56	24.12	27	18.49	20	15.13	372	22.91	16,564	29.62
Diabetes	75	18.29	60	9.08	32	15.90	12	8.55 *	35	35.41	214	14.05	7,504	14.14
Bacterial pnuemonia	64	14.25	84	11.92	29	12.08	14	8.43 *	11	8.81 *	202	11.96	7,568	13.28
Cellulitis	45	11.30	51	7.80	15	6.72 *	10	6.66 *	18	16.22 *	139	9.01	6,380	11.96
Chronic obstructive pulmonary	43	8.47	43	4.82	18	6.23 *	7	4.59 *	15	9.15 *	126	6.27	6,296	9.78
Epilepsy	x	x	x	x	x	x	x	x	x	x	93	6.26	3,198	6.15
Congestive heart failure	x	x	x	x	x	x	x	x	x	x	114	5.92	6,240	9.97
Asthma	x	x	x	x	x	x	x	x	x	x	78	5.18	4,824	9.45
Kidney - urinary infection	x	x	x	x	x	x	x	x	x	x	69	4.66	3,464	6.37
Nutritional deficiencies	x	x	x	x	x	x	x	x	x	x	69	3.98	3,379	5.63
Convulsions	20	4.76	16	2.40 *	5	2.59 *	5	4.03 *	5	3.84 *	51	3.32	1,313	2.55
Gastroenteritis	x	x	x	x	x	x	x	x	x	x	21	1.31	1,700	3.15
Hypertension	x	x	x	x	x	x	x	x	x	x	18	1.01	1,323	2.41
Dental conditions	x	x	x	x	x	x	x	x	x	x	12	0.87 *	546	1.06
Failure to thrive	x	x	x	x	x	x	x	x	x	x	7	0.53 *	283	0.60
Severe ENT infection	x	x	x	x	x	x	x	x	x	x	5	0.33 *	620	1.24
Pelvic inflammatory disease	x	x	x	x	x	x	x	x	x	x	x	x	359	0.73
Angina	x	x	x	x	x	x	x	x	x	x	x	x	291	0.48
Hypoglycemia	x	x	x	x	x	x	x	x	x	x	x	x	74	0.14
Immunization preventable	x	x	x	x	x	x	x	x	x	x	x	x	37	0.08
Tuberculosis	x	x	x	x	x	x	x	x	x	x	x	x	33	0.06
Congenital syphilis	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00
Iron Deficiency Anemia	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00
Total for selection	510	120.89	611	86.47	238	105.81	124	84.32	122	103.75	1,605	98.59	71,996	128.84
Confidentiality: The "x" symbol indicates the confidentiality rule has been triggered.														
Rate: Preventable hospitalization rates are annualized per 10,000 residents under the age of 65 and are age adjusted to the U.S. 2000 standard population.														
Source: DHSS - MOPHIMS - Preventable Hospitalization MICA														
Generated On: 10/20/2021 10:18														
* Rate is unreliable; numerator less than 20														

Causes of Death and Hospitalization

Chronic Disease Causes of Death in our 5-county Service Area and in Missouri (based on MICA 2015 data)

Title: Missouri Resident Chronic Disease Deaths																
Data selected in addition to rows and columns below:																
Single Year(s): 2019;																
County:	Callaway	Callaway	Cole	Cole	Miller	Miller	Moniteau	Moniteau	Osage	Osage	Total for selection	Total for selection	Missouri	Missouri		
Statistics:	Count	Percent of Column Total	Count	Percent of Column Total	Count	Percent of Column Total	Count	Percent of Column Total	Count	Percent of Column Total	Count	Percent of Column Total	Count	Percent of Column Total		
Chronic Cause																
Cancer	96	32.76	149	30.53	52	26.53	33	28.21	29	35.80	359	30.55	12,836	30.34		
Heart disease	99	33.79	146	29.92	59	30.10	33	28.21	17	20.99	354	30.13	14,959	35.36		
Chronic Obstructive Pulmonary Disease (COPD) excluding Asthma	22	7.51	56	11.48	24	12.24	13	11.11	7	8.64	122	10.38	3,715	8.78		
Diabetes	23	7.85	37	7.58	12	6.12	18	15.38	5	6.17	95	8.09	1,652	3.91		
Stroke (cerebrovascular diseases)	x	x	x	x	x	x	x	x	x	x	74	6.30	3,019	7.14		
Essential hypertension	x	x	x	x	x	x	x	x	x	x	48	4.09	468	1.11		
Kidney disease(nephritis, nephrotic syndrome and nephrosis)	x	x	x	x	x	x	x	x	x	x	48	4.09	1,480	3.50		
Alzheimer's disease	x	x	x	x	x	x	x	x	x	x	41	3.49	2,781	6.57		
Chronic liver disease & cirrhosis	x	x	x	x	x	x	x	x	x	x	16	1.36	739	1.75		
Other cardiovascular/circulatory conditions	x	x	x	x	x	x	x	x	x	x	x	x	552	1.30		
Asthma	x	x	x	x	x	x	x	x	x	x	x	x	60	0.14		
Atherosclerosis	x	x	x	x	x	x	x	x	x	x	x	x	40	0.09		
Total for selection	293	100.00	488	100.00	196	100.00	117	100.00	81	100.00	1,175	100.00	42,301	100.00		
Confidentiality: The "x" symbol indicates the confidentiality rule has been triggered.																
Source: DHSS - MOPHIMS - Chronic Disease Deaths MICA																
Generated On: 10/20/2021 10:23																
Chronic Disease: The Chronic Disease categories shown here do not include all types of chronic disease.																

Appendix E: Public Health Department Data

Public Health Department Data

The development of the CHNA also considered indicators that relate to issues that the Public Health departments have already identified through its own assessments, specifically deaths due to overdose of opioids, emergency room visits due to opioid abuse, and the increase in sexually transmitted diseases.

Sexually Transmitted Disease

Reportable Sexually Transmitted Diseases, by County, for 2017-2021*						
		2017	2018	2019	2020	2021*
Callaway	Chlamydia	227	216	244	171	56
	Gonorrhea	54	120	111	105	38
	Syphilis	7	13	12	25	9
Cole	Chlamydia	515	468	462	459	115
	Gonorrhea	247	197	266	228	76
	Syphilis	18	83	46	25	4
Miller	Chlamydia	67	45	60	59	9
	Gonorrhea	13	17	17	25	3
	Syphilis	0	2	10	4	1
Moniteau	Chlamydia	34	47	53	37	10
	Gonorrhea	8	12	12	14	4
	Syphilis	1	8	10	2	0
Osage	Chlamydia	21	23	31	23	5
	Gonorrhea	8	8	14	14	1
	Syphilis	0	4	0	1	0
*2021 data is for January - April						

Health Resources Listing

Behavioral Health

Alcoholics Anonymous
Burrell Health
Capital Region Physicians - Mental Wellness
Catholic Charities Center
Compass Health
Community Health Center of Central Missouri
County for Drug Free Youth
Family Counseling Center of Missouri
Missouri Mental Health Foundation
Missouri Recovery Network
Pathways Community Behavioral Health Care
SSM Health St. Mary's Hospital - Jefferson City
SSM Health Outpatient Behavioral Health Services

County Health Departments

Callaway County Health Department
Cole County Health Department
Miller County Health Center
Moniteau County Health Department
Osage County Health Department

Federally Qualified Health Center

Community Health Center of Central Missouri
Central Ozark Medical Center

Free/Sliding Scale Community Clinics & Health Services

Capital Region Physicians Resident Clinic
Community Health Center of Central Missouri
County Public Health Centers in Callaway, Cole, Miller, Moniteau, Osage
Samaritan Center
Dental, Eye and Shoe Program

Hospitals

Callaway Community Hospital – Noble Health Fulton
Capital Region Medical Center – Jefferson City
SSM Health St. Mary's Hospital -- Jefferson City

On-Line Resource Directories

<http://www.211.org/>
<https://www.alz.org/help-support/resources>
<https://dmh.mo.gov/mentalillness/helpinfo/adminagents.html>
<http://resource.showmeaction.org>

Health Resources Listing

Primary Care/Urgent Care

- Capital Region Physicians & Clinics
- Community Health Center of Central Missouri
- Jefferson City Medical Group (JCMG)
- SSM Health Medical Group

Specialty Care

- Capital Region Physicians
- Community Health Center of Central Missouri
- Goldschmidt Cancer Center
- Jefferson City Medical Group (JCMG)
- MU Health Care
- SSM Health Medical Group
- SSM Health Cancer Center at JCMG

Social Services Agencies

- Alzheimer's Association
- American Red Cross, Heart of Missouri Chapter
- Boys and Girls Club
- Building Community Bridges
- Catholic Charities of Central and Northern Missouri
- El Puente Hispanic Ministry of Mid Missouri
- Food Bank for Central Missouri
- Central Missouri Agency on Aging
- Homemaker Health Care
- Pregnancy Health Center
- RACS (Rape and Abuse Crisis Center)
- Salvation Army
- Senior Nutrition Center
- United Way of Central Missouri
- Transportation Assistance
Services <https://health.mo.gov/atoz/pdf/transportationservices.pdf>