









2022 COMMUNITY **HEALTH ASSESSMENT** 

# TABLE OF CONTENTS

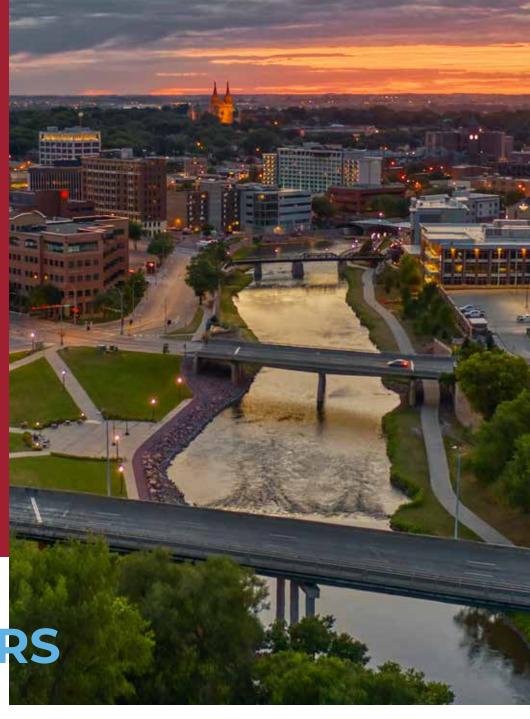
PROJECT PARTNERS	
Message from the CHA Partners	
City of Sioux Falls Health Department	
Avera McKennan Hospital & University Health Center	
Sanford USD Medical Center	
Sioux Falls VA Health Care System	
ACKNOWLEDGMENTS	
CHA Steering Committee	
CHA Participating Agencies	
EXECUTIVE SUMMARY	
Methods	
Findings	
About Our Community	
Health Outcomes	
Health Determinants	
Identifying Health Priorities	
INTRODUCTION	
CHA Purpose and Scope	
Methodology	
Focus Group Discussions and Key Informant Interviews	
Community Sector Assessment	
Secondary Data	
Limitations	
Findings	
ABOUT OUR COMMUNITY	
Demographics	
HEALTH OUTCOMES	
Health-related Quality of Life	
Mortality	
Life Expectancy	
Years of Potential Life Lost	
Leading Causes of Death	35
Infant and Child Mortality	36
Chronic Noncommunicable Diseases	36
Arthritis	37
Cancer	38
Cardiovascular Disease and Metabolic Risk Factors	4
Diabetes	43
Obesity	45
Chronic Lower Respiratory Disease	
Maternal and Child Health	
Oral Health	
Injury and Accidental Death	
Unintentional Injury	
Suicide	
Mental Health and Substance Use	
Depression	
Substance Use	
COVID 19	
COVID-19	
LILV GLIG DEAUGUV LIGHSHIIHEG LASEGSES	05

HEALTH DETERMINANTS	69
Health Behaviors	69
Alcohol and Substance Use	69
Nutrition	73
Physical Activity	75
Tobacco Use	77
Health Care Access and Quality	80
Access to Care	
Quality of Care	88
Preventive Care: Immunizations	
Preventive Care: Screenings and Examinations	
Social & Economic Factors	
Crime and Safety	
Digital Access	
Education	95
Employment and Income	95
Food Access	96
Housing and Homelessness	99
Physical Environment	102
Air and Water Quality	102
Greenhouse Gas Emissions	103
Radon	104
Physical Activity Environment	104
Walkability	104
Park and Recreation Access	105
Transportation	106
CONCLUSION	109
APPENDIX	
References	112
Community Assessment Resident Survey	115
Community Assessment, Assets and Needs	128
Community Sector	129
Health Care Sector	133
School Sector	137
Worksite Sector	141
Community Asset Map	145

# TABLE OF **CONTENTS**







A MESSAGE FROM THE

**PARTNERS** 



Dear Sioux Falls Residents.

The Sioux Falls Health Department, Avera McKennan Hospital and University Health Center, Avera Heart Hospital of South Dakota, Sanford USD Medical Center and the Sioux Falls VA Health Care System are pleased to present this 2022 Community Health Status Report for the Sioux Falls Metropolitan Statistical Area (MSA).

As community partners, we all play a role in impacting health and well-being in our schools, worksites, neighborhoods, churches and public spaces. In examining health concerns and health outcomes through this collaborative Community Health Assessment (CHA) process, we recognized that population health is heavily influenced by the community environment, including access to healthy food, opportunities to be physically active, access to health care services, and options for housing and transportation.

We have a unique community with diverse viewpoints, and that is why we are particularly grateful to the many residents and organizations that provided feedback as part of this comprehensive health assessment. We believe that all residents of our community, regardless of their background, education, income, or neighborhood, should have equitable opportunities and the supporting environment to make choices that lead to a longer, healthier life. It is essential that we continue to work together in identifying, evaluating, prioritizing, and addressing health issues in our community.

As we move forward, we will continue monitoring the health of our community, through the lenses of prevention and equity, and actively pursue interventions that ensure our residents are able to achieve optimal health.

Sincerely,

Dr. Charles Chima

Director Sioux Falls Health Department Paul Hanson

President and CEO Sanford USD Medical Center

David Flicek

President and CEO Avera McKennan Hospital & University Health Center

**Dr. Timothy Pendergrass** 

Chief of Staff Sioux Falls VA Hospital









## CITY OF SIOUX FALLS HEALTH DEPARTMENT



The mission of the Sioux Falls Health Department is to improve the quality of life for the Sioux Falls community by preventing or controlling disease, mitigating adverse health threats, and by providing an open door for primary health services.



## FALLS COMMUNITY HEALTH

Falls Community Health is a Federally Qualified Health Center (FQHC) that provides comprehensive primary health care and dental care for all ages.

The clinic is a nationally-recognized Patient-Centered Medical Home, having received the highest level of certification from the National Committee for Quality Assurance. This designation recognizes the clinic's commitment to six core health care standards, including:

- Patient-centered access to appointments and clinical advice.
- · Team-based health care.
- Population health management.
- Care management and support through evidenced-based practices.
- · Coordinated health care.
- Performance measurement and quality improvement.

Falls Community Health offers care at its main location in downtown Sioux Falls, as well as at three school-based clinics at Hawthorne Elementary, Hayward Elementary and Terry Redlin Elementary. In addition to primary medical and dental care, the clinic also provides HIV/AIDS early intervention services and case management, behavioral health and substance use counseling services, case management, medical nutrition therapy, and social services.

#### QUALITY ASSURANCE FOR EMERGENCY MEDICAL SERVICES

The Sioux Falls Health Department works with the Sioux Falls Regional Emergency Medical Services Authority (REMSA) to provide guidance and recommendations to the Mayor and the City Council on matters related to emergency medical services. This includes conducting quality assurance activities linking all the agencies that provide emergency medical services in Sioux Falls, including call taking, emergency medical dispatcher, law enforcement



and fire first response, ambulance service, online medical control, and hospitals. PatientCare EMS® (formerly Paramedics Plus) is the ground ambulance provider for Sioux Falls, serving the community since 2015. The Health Department, along with REMSA, provides compliance monitoring for ground ambulance services.

#### **ENVIRONMENTAL HEALTH PROTECTION**

The Environmental Health division is committed to serving the people of Sioux Falls by providing high-quality environmental public health services. Areas addressed include:

- Family home day care registration and inspection.
- Permits and inspection of food service establishments.
- Tattoo artist permits and tattoo establishment permits and inspection.
- Hotel/Lodging permits and inspection.
- General sanitary code enforcement.
- Sound permits.
- Surveillance and control of disease vectors in the community.

#### **PUBLIC HEALTH EMERGENCY PREPAREDNESS AND RESPONSE**

A key role of a public health department is to ensure the community is ready to respond in the event of a health emergency. The Sioux Falls Health Department continues to lead and participate in healthcare preparedness coalitions both in Sioux Falls and across the state. In addition, the department works with health care partners and communitybased organizations to conduct preparedness planning, training and exercises, and support the broader public health needs during responses for all disasters.

## PUBLIC HEALTH LABORATORY

The Public Health Laboratory provides environmental and clinical laboratory testing services. Environmental testing serves the City of Sioux Falls, surrounding communities, agencies, commercial businesses, individuals, and the State of South Dakota. The laboratory also provides clinical laboratory and X-ray services for Falls Community Health patients at the main location downtown, as well as some clinical laboratory services at the three school-based locations. The Public Health Laboratory is certified by the Commission on

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Office Laboratory Accreditation (COLA) for its clinical work and by the South Dakota Department of Environment and Natural Resources for its environmental testing.

#### **HEALTH PROMOTION AND DISEASE PREVENTION** (LIVE WELL SIOUX FALLS)

Live Well Sioux Falls is a community-based initiative designed to help improve the health and well-being of Sioux Falls residents by collaborating on projects to address health needs. The Live Well Sioux Falls Coalition, a group of diverse businesses, organizations, and individuals, is instrumental in guiding efforts to improve community health and wellness. The vision of Live Well Sioux Falls is to transform the health of our community to create a more vibrant, active, and livable city. Community partners work together to develop strategies that help residents Breathe Well, Eat Well, Feel Well, Move Well, and Work Well.

#### **AVERA MCKENNAN HOSPITAL & UNIVERSITY HEALTH CENTER**



Avera McKennan Hospital & University Health Center in Sioux Falls is the 545-bed flagship of Avera Health, a system comprised of 315 locations in 100 communities across portions of five states in the Upper Midwest. Avera is home to innovative programs that include the world's most robust telemedicine program of its kind, Avera eCARE®, as well as genomic medicine and cell therapies to offer the latest in cancer treatment.

Sponsored by the Benedictine and Presentation Sisters, Avera is distinguished by its mission. Avera Health is a health ministry rooted in the Gospel. Our mission is to make a positive impact in the lives and health of persons and communities by providing quality services guided by Christian values. Avera employees are guided by Avera's gospel values of compassion, hospitality, and stewardship. Avera McKennan, founded in 1911, has a century-long history of health ministry. Headquartered in Sioux Falls, SD, the Avera system employs more than 19,700 individuals, including more than 7,585 in the Sioux Falls Metropolitan Statistical Area (MSA) and 1,160 physicians and advanced practice providers.

Avera McKennan provides a complete continuum of care in more than 60 medical specialties, including oncology, cardiology, critical care, emergency medicine and trauma, air transport, behavioral health, gastroenterology, endocrinology and diabetes care, hospice, imaging, medical education and research, brain and spine care, women's health care, pediatrics, neonatology, orthopedics, rehabilitation, and a full range of wellness services. Avera McKennan is home to the region's only bone marrow transplant program, longest-standing kidney transplant program, and the region's only liver and pancreas transplant programs. Accredited by The Joint Commission, Avera McKennan has also earned Magnet® hospital designation from the American Nurses Credentialing Center since 2001.

#### **AVERA HEART HOSPITAL**

Founded in 2001, Avera Heart Hospital is the region's first hospital dedicated to cardiac and vascular care and the state's first accredited Chest Pain Center. Services include 24-hour emergency care, Planet Heart screenings, cardiac catheterization, electrophysiology, surgery, and a full range of diagnostic and rehabilitation services.

## AVERA BEHAVIORAL HEALTH CENTER

Avera is home to the region's largest team of behavioral health specialists and the region's largest private psychiatric inpatient care facility, with specialized units for children, adolescents, adults and seniors; outpatient care and counseling; and innovative technology that includes a state-of-the-art electroconvulsive therapy (ECT) suite. Behavioral health services include a 24-hour assessment phone line and center available to patients and referring providers to provide recommendations for the most appropriate level of care. The Avera Behavioral Health Center is building a new wing that will offer services new to Sioux Falls including 24/7 psychiatric urgent care, youth addiction care, and partial hospitalization for youth and adults.

#### **AVERA CANCER INSTITUTE**

Avera Cancer Institute offers comprehensive services through six regional centers. In Sioux Falls, Avera Cancer Institute is located in the Prairie Center on Cliff Avenue. Cutting-edge technology includes the Elekta Versa HD™ linear accelerator, electron-based intraoperative radiation therapy (IORT), Gamma Knife™ and brachytherapy suite. Avera's cancer program includes multidisciplinary case conferences, a dedicated breast surgery team, genomic medicine, patient navigation center, clinical trials and genetic testing. Patients benefit from amenities such as private chemotherapy suites and a patient-centered environment. Survivorship care, spiritual care, and integrative medicine are ways in which Avera cares for the whole person throughout the cancer care journey.

#### **AVERA ECARE**

The most robust telemedicine program serving rural health care, Avera eCARE® extends specialty care across



the miles, keeping patients closer to home. Through a full suite of applications that include eCARE Behavioral Health, Correctional Health, Emergency, Hospitalist, ICU, Pharmacy, School Health, and Senior Care and Specialty Clinic, Avera eCARE is connected to over 550 sites across 32 states. This includes collaboration with Indian Health Service (IHS) to provide emergency support, behavioral health, and specialty appointments to reservation communities.

#### **AVERA MEDICAL GROUP**

Avera's 1,160 physicians and allied health professionals collaborate to deliver comprehensive and seamless care at over 200 locations. Avera Medical Group offers 45 clinics in Sioux Falls, with innovative options including 24/7 AveraNow virtual visits with a provider via smartphones, tablets, or laptops. Through coordinated care, we help patients with complex or multiple conditions overcome barriers to better health management.

#### **AVERA HEALTH INSURANCE**

Avera Health Plans, founded in 1999, serve people and communities by providing costeffective and innovative health plans. Avera Health Plans has participated in healthcare.gov since it began in 2013, after passage of the Affordable Care Act (ACA) in 2010. **DAKOTACARE** offers a wide variety of employer plan options and benefits to both large and small employers. It also offers self-funded and thirdparty administration services. Together, Avera Health Plans and DAKOTACARE cover 130,000 lives.

#### **AVERA ON LOUISE HEALTH CAMPUS**

To address the growth of Sioux Falls and improve access to care in all sectors in the city, Avera opened its new campus at 69th Street and Louise Avenue in the fall of 2019. This facility includes:

- A 24-bed surgical hospital and medical office building complex, specializing in orthopedics, gastroenterology, rheumatology and internal medicine. This complex comprises 260,000 square feet.
- The Avera Addiction Care Center, a residential treatment facility with 32 private rooms.
- The Avera Human Performance Center, a 60,000-square-foot complex housing seven volleyball courts and designated areas for physical therapy and Athletic Republic acceleration. It is designed to serve athletes of all ages and ability levels and will promote overall health, wellness, and balance throughout a lifetime.

#### **MAIN CAMPUS UPDATES**

On its main campus, Avera McKennan invested in a \$41 million

update to address growing patient needs, including:

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- A 24-bed inpatient post-acute rehabilitation unit, created in the shell space on the fifth floor of the Prairie Center on the main campus, to accommodate best practices and the latest technology in rehab care. This unit cares for patients ranging in age from adolescents to seniors with a range of conditions and diagnoses including stroke, head and spinal cord injury, multiple sclerosis, amputation, Guillain-Barre syndrome and more.
- A 28-bed intensive care unit (ICU) created in space formerly occupied by inpatient rehab. It features 28 beds in large private rooms that accommodate family amenities and advanced technology. An additional 30 ICU beds were added to handle demand brought about by COVID-19 by temporarily making the single rooms into double rooms.
- Expansion of surgical space in the former ICU space, providing 18 total surgical suites that are each 645 square feet in size and accommodate the latest surgical technology. Formerly, 14 ORs were available in the main hospital.

## SANFORD USD MEDICAL CENTER



Sanford USD Medical Center is a 545bed tertiary medical center in Sioux Falls, SD, providing comprehensive, innovative multispecialty care for patients from across the Midwest. It is the largest hospital in South Dakota and a Level II adult and pediatric trauma center, serviced by Sanford AirMed air ambulance, which covers a vast geographic region and offers four specialized transport teams, including adult, pediatric, neonatal and obstetric. As a provider of highly specialized services, Sanford USD offers Centers of Excellence in heart and vascular, children's services, cancer, neuroscience, orthopedics and sports medicine, and women's health. It also serves as the primary teaching hospital for the Sanford USD School of Medicine, located at the University of South Dakota in Vermillion.

Sanford employs more than 12,000 people in the Sioux Falls area, including 526 board-certified physicians and 552 advanced practice providers (APPs) in more than 80 medical specialties. Sanford USD Medical Center is accredited by The Joint Commission and is a designated Magnet hospital by the American Nurses' Credentialing Center. Through its mission, dedicated to sharing God's love through the work of health, healing and comfort, and its vision of improving the human condition at every stage of life through exceptional care, spiritual enrichment, innovation and discovery, Sanford is making medical care accessible to the entire region.

#### **CHILDREN'S CASTLE**

Sanford Children's Castle of Care serves pediatric patients in a five-state area and through Sanford World Clinics, which comprise of 133 health facilities in 10 countries. State-of-the-art neonatal intensive care and pediatric intensive care units offer 24/7 care by local specialists. This includes 135 pediatric specialists in over 30 unique medical areas of expertise. The model of CARÉ focuses on excellence in clinical services, advocacy, research, and education.

#### **HEART HOSPITAL**

Sanford Heart Hospital is a state-of-the-art hospital offering highly advanced, integrated and personalized heart care from more than 750 experienced heart specialists and staff. All services for heart patients—emergency care, outpatient testing, surgery, rehab, catheterization, consultation with specialists —are consolidated into one building attached to the medical center, allowing for easy access. Within Sanford Heart Hospital, patients receive personalized, innovative health care where comfort,

well-being, compassion, communication, and empowered choices allow them to experience their healing journey in a positive, life-changing way.

#### ORTHOPEDICS AND SPORTS

Sanford Orthopedic and Sports Medicine has a depth of services and specialties to treat sprains, strains, tears, breaks, joint pain, and concussions. We offer more than 45 expert providers with extensive experience in diagnosis, surgery, and nonsurgical treatments. Sanford is a regional leader in sports medicine and works with over 125 club, high school, collegiate, and semiprofessional teams.

#### **CANCER CENTER**

Sanford's Cancer Center and Edith Sanford Breast Center combine to form a unique beacon of expert cancer and breast care throughout the region. Through the generosity of Denny Sanford, we have designed a space that supports advanced cancer care and breast care delivery models of the future, encompassing the whole person built on a foundation of distinguished research and supporting



team-based care. Sanford runs the WISDOM Study to create the most effective screening protocols for all women at every stage of life and participates in nationwide studies through the National Cancer Institute (NCI). One of the main objectives of the NCI Community Cancer Centers Program is to reduce cancer care disparities among underserved populations through education, prevention, screening, treatment, and patientfamily support programs.

#### **WOMEN'S**

Sanford Women's offers state-ofthe-art obstetric and gynecological care for women of all ages in several locations throughout a four-state area. Care is provided by specialists in OB/GYN, maternalfetal medicine, urogynecology, fertility and reproductive medicine, low intervention birth, and more. Sanford Women's Plaza is a unique destination that provides women with a variety of health options, all in one location.

#### **IMAGENETICS**

Sanford Health is embedding the latest in genomic medicine into primary care through Imagenetics. This program provides physicians with unprecedented patient-specific information to better identify effective medications and risk for inherited disease in order to design a care plan for the future. Through a national partnership with the U.S. Department of Veterans Affairs, Sanford Health is bringing free pharmacogenetic testing to 250,000 veterans across the country. Sanford Imagenetics was established in 2014 thanks to a generous gift of \$125 million from philanthropist Denny Sanford.

#### **SANFORD HEALTH INNOVATIONS**

Combining an inventive spirit, multidisciplinary expertise and a comprehensive research infrastructure, Sanford Health Innovations develops and commercializes game-changing technologies to provide new solutions for improved patient care.

#### SANFORD HEALTH PLAN

Sanford Health Plan is a Sanford Health Plan is a communitybased, non-profit health insurance company that offers product lines for individuals, families, and businesses in North Dakota, South Dakota, Minnesota, and Iowa. Sanford Health Plan's regional network of 25,000 providers includes Sanford Health practitioners and providers as well as those affiliated with other health systems or in independent practice. The health plan also maintains a nationwide network for members living or traveling outside of the service area. There

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are currently 210,000 enrolled Sanford Health Plan members.

### SIOUX FALLS VA HEALTH CARE SYSTEM



The Sioux Falls VA Health Care System (HCS) opened with the Royal C. Johnson Veterans Memorial Hospital on July 19, 1949. It consists of the Joint Commission accredited, complexity Level 2 medical center plus four Community Based Outpatient Clinics (CBOCs) and one outreach clinic that serve more than 30,000 veterans in eastern South Dakota, northwestern lowa, and southwestern Minnesota.

The medical center in Sioux Falls, SD has 40 acute beds and 58 transitional care beds. CBOCs are in Aberdeen, Watertown, and Dakota Dunes, SD, as well as Spirit Lake, IA. An outreach clinic is located on the Yankton Sioux tribal land in Wagner, SD. The Dakotas VA Regional Office is co-located with the medical center. The Sioux Falls VA Health Care System is part of VA's VISN 23, which includes facilities in Fargo, ND; Fort Meade and Hot Springs (Black Hills HCS) in SD; Minneapolis and St. Cloud, MN; Des Moines (Central lowa HCS) and lowa City, IA; and Grand Island, Lincoln, and Omaha, (Nebraska–Western lowa HCS)., NE.

Our clinical services provide comprehensive health care and a wide range of patient care services including: audiology and speech pathology, chronic disease management, extended care and rehabilitation, Home Based Primary Care, mental health, Military Sexual Trauma counseling, nutrition, oncology, pharmacy, primary care, prosthetics, social work, specialty care, Women's Health Program, low vision clinic, Whole Health and Integrative Health services, Medical Foster Homes, Caregiver Support, Clinical Video Telehealth, neurology, orthopedics, pulmonary medicine, endoscopy, urology, general surgery, podiatry, dermatology, PTSD, substance use, emergency care, optometry and ophthalmology, nephrology, Compensated Work Therapy, orthopedic surgery, pain management, GI, and cardiology. The Sioux Falls VA is the only facility in V23 to accept applications for the Million Veteran Program.

#### **FACILITY ACCOMPLISHMENTS**

- The Sioux Falls VA Health Care System has been recognized as a "Leader in LGBTQ Healthcare Equality" by the Human Rights Campaign Foundation since 2014.
- The American Board for Certification in Orthotics, Prosthetics and Pedorthics certified Sioux Falls VA prosthetics and orthotics clinic in September 2015.
- The new fifth floor minor surgery suites and Halls and Walls project was completed in 2021. Projects in progress include renovation to building 1 for a new auditorium, renovation of the tower for administration space, new MRI, new laboratory space, and a new outpatient mental health building.
- The Aberdeen CBOC moved to a new and larger facility with the ribbon cutting and open house taking place on August 2020. The Watertown CBOC also relocated to a larger, new building in December 2019.
- The Sioux Falls VA HCS was a top performer of Level 2 facilities for the first annual VA "Best Experience Award" in January 2019. Sioux Falls VA HCS is also a four-star facility in SAIL.
- The Sioux Falls VA Health Care System is hosting the National Veterans Golden Age Games for 2022. Planning for this major even is underway.
- The Sioux Falls VA Healthcare System has two Community Living Center (CLC) neighborhoods. Both underwent renovations in early 2021 as part of the Halls and Walls project that updated the spaces and made them more functional and home-like for Veterans. The CLC has received four- or five-star ratings the last six consecutive quarters. The CLC received a top-block five-star rating in Q1 of FY 2021.



The Sioux Falls VA Health Care System was designated as an American Nurses Credentialing Center Pathway to Excellence Organization in December 2019.

#### **MAJOR SHARING AGREEMENTS**

A contract is in place with the SD Air National Guard to provide audiology, radiology, and laboratory services.

#### TRANSITION AND CARE **MANAGEMENT** (FORMERLY OEF/OIF/OND)

The Sioux Falls VA Medical Center Post 9/11 Military2VA Case Management Program is designed to serve returning Post 9/11 Veterans and their families. All newly enrolled Post 9/11 Veterans are scheduled to meet with the Post 9/11 Military 2VA Case Management Program Manager for an initial bio-psycho-social screening. Based on the screening Veterans are scheduled for initial examinations such as medical, mental health, and vocational counseling etc. The Program Manager also supports local outreach events with the purpose of providing education about the effects of combat on individuals, their families, and the community. Program manager and Transition Patient Advocate attend Department of Defense Yellow Ribbon Reintegration events to assist our newest Veterans in accessing needed services.

#### **HOMELESS VETERAN PROGRAM**

The Sioux Falls VA provides Housing and Urban Development-Veteran Affairs Supportive Housing (HUD-VASH), Health Care for Homeless Veterans (HCHV) Outreach and Case Management, **HCHV-Contract Emergency** Residential Services (Berakhah House) and Grant and Per Diem-Transition in Place (GPD-TIP).

#### **SUICIDE PREVENTION**

Veterans identified as high risk for suicide are provided additional support. Suicide prevention staff are involved in at least five outreach activities per month. The team also manages the Suicide Prevention mail program and the caring contact outreach letter. The team manages crisis line calls to ensure follow up is made within 24 business hours of the call. The team also supports and creates community coalitions.

#### **PERFORMANCE IMPROVEMENT INITIATIVES**

Our facility adopted LEAN as the primary process improvement methodology as recommended by the National Systems Redesign and Improvement program. We also adopted the National Systems Redesign and Improvement program's standardized LEAN curriculum.

#### **WOMEN'S HEALTH PROGRAM**

The medical center and four

CBOCs have designated Women's Health Primary Care providers. Women Veterans served by the outreach clinic receive care at the Sioux Falls VA Medical Center or through CITC. A Women's Health Clinic at the medical center offers a private waiting room for women Veterans. The clinic was designed to give women Veterans a space where their privacy, safety, dignity, and sensitivity to gender-specific needs are respected.

#### COMMUNITY **PARTNERSHIPS**

The Sioux Falls VA Health Care System has active education affiliations with the Sanford School of Medicine of the University of South Dakota with several staff members holding faculty appointments. In addition, psychiatry, pathology, and surgical residency programs continue to be strong. Approximately 285 residents, interns, and students are trained here each year. We have nursing student affiliations with Augustana University, Minnesota West, National American University, Southeast Technical Institute, Lake Area Technical Institute, the University of South Dakota, South Dakota State University, and the University of Sioux Falls. In addition, there are affiliations involving pharmacy, psychology, social work, chaplains, occupational therapy, physical therapy, physician assistants, medical technologists, recreation, and respiratory therapy.

## **ACKNOWLEDGEMENTS**

The Community Health Assessment (CHA) was a multi-partner collaboration spearheaded by the Sioux Falls Health Department, Avera McKennan Hospital & University Health Center, Sanford USD Medical Center, and the Sioux Falls VA Health Care System. The exercise was supported by the highest levels of leadership at these institutions and was operationalized by the CHA Steering Committee.

#### **CHA STEERING COMMITTEE**

Jessica Stienstra, Avera Heart Hospital

Teresa Miller, Avera Health

Julie Ward, Avera McKennan Hospital & University Health Center

Mary Michaels, City of Sioux Falls Health Department

Christina Ward. Sanford Health

Andrew Wiese, Sanford Health

Jonathan Feiock, Sioux Falls VA Health Care System

The steering committee sought and received participation from several partners representing broad sectors of the community, including local government, for-profit businesses, non-profit organizations, and those serving the needs of populations at risk of poorer health outcomes or that have higher health risks such as the aged, homeless, low income, and uninsured populations. We are grateful to the following partners representing diverse community sectors for their participation.

#### **CHA PARTICIPATING AGENCIES**

AARP South Dakota Health Connect of South Dakota

Helpline Center Active Generations

Alzheimer's Association Keystone Treatment Center

American Cancer Society American Heart Association

Argus Leader

Augustana University

Bishop Dudley Hospitality House City of Sioux Falls Attorney's Office City of Sioux Falls Finance Department

City of Sioux Falls Planning and Development

Department

City of Sioux Falls Libraries Department

City of Sioux Falls Parks & Recreation Department

City of Sioux Falls Police Department

City of Sioux Falls Public Works Department

Delta Dental

EmBe

Face it TOGETHER, Inc. Falls Community Health Feeding South Dakota

Greater Sioux Falls Chamber of Commerce

Gerald Beninga, Active Generations

Donna Nugteren, Active Generations

Nancy Wehrkamp, Active Generations

Leslie Morrow, Alzheimer's Association

David Benson, American Cancer Society

Lewis Drug Lifescape

Lutheran Social Services Metro 911 Communications

Minnehaha County Human Services Minnehaha County Administration

POFT

Sioux Empire United Way

Sioux Falls Business Resource Network

Sioux Falls Hope Coalition Sioux Falls School District

Sioux Falls Thrive

Sioux Falls VA Health Care System South Dakota Parent Connection South Dakota Urban Indian Health South Dakota Voices for Peace Southeastern Behavioral Health Care

St. Francis House Teddy Bear Den

#### We would like to thank the following individuals for their various contributions to the process:

Erik Gaikowski, AARP South Dakota Jill Ireland, American Cancer Society

Lindsey Holmquest, AARP South Dakota Chrissy Meyer, American Heart Association

Cory Myers, Argus Leader

Amy Meyers, Augustana University

Thomas Otten, Avera Behavioral Health Center

Rick Kooima. Avera Health Alisa Reindl. Avera Health

John Srstka, Avera Health

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Chad Quissell, City of Sioux Falls Parks and Recreation

Andrew Siebenborn, City of Sioux Falls Police

Jon Thum, City of Sioux Falls Police

Heath Hoftiezer, City of Sioux Falls Public Works

Holly Meier, City of Sioux Falls Public Works

Jean Gross, Delta Dental

Katy Morris, EmBe

Kerri Tietgen, EmBe

Wendy White, Face it TOGETHER, Inc.

Michaela Gasca, Falls Community Health

Matt Gassen, Feeding South Dakota

Jeff Griffin, Greater Sioux Falls Chamber of Commerce

Fran Rice, Health Connect of South Dakota

Janet Kittams, Helpline Center

Joe Bartmann, Intersections Consulting

John Beranek, Intersections Consulting

Josh Merkley, Keystone Treatment Center

Bill Ladwig, Lewis Drug

Kristin Tuttle, Lifescape

Betty Oldenkamp, Lutheran Social Services

Kylee Sivertson, Lutheran Social Services

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Brett Johnson, Minnehaha County Human Services

Lori Montis, Minnehaha County Human Services

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Josh Crabtree, Sanford Health

Ann Hamilton, Sanford Health

Paul Hanson, Sanford Health

Kelly Hefti, Sanford Health

Gwen Jensen, Sanford Health

Jennifer McDonald, Sanford Health

Andy Munce, Sanford Health

Mike Wilde, Sanford Health

Jay Powell, Sioux Empire United Way

Christina Riss, Sioux Empire United Way

Vicki Stewart, Sioux Falls Business Resource Network

Amy Benda, Sioux Falls Hope Coalition

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Sandy Lown, Teddy Bear Den



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we are, where we live, or how much

money we make.

# Health as defined by the World Health Organization the population expressed in terr

Health as defined by the World Health Organization is "a state of complete physical, mental and social well-being and not merely the absence of disease or infirmity." <sup>1</sup>

Thus in quantifying the aggregate health of a population, it is necessary to look at measures of longevity and quality of life, as well as disease burden. The health of a population is shaped by multiple factors including health behaviors, health care access and quality, and factors in the social and physical environment. To get a comprehensive view of population health in our community, we must look at the totality of these health determining factors that impact residents in their daily lives.

We conducted this community health assessment with the goal of developing a global view of population health in the Sioux Falls Metropolitan Statistical Area (MSA), which is comprised of four counties (Lincoln, McCook, Minnehaha, and Turner). The Sioux Falls MSA is the largest MSA in the state of South Dakota and constitutes more than one-third of the population of the state. The City of Sioux Falls is the major city in the MSA.

This report discusses the findings from the CHA, which was conducted January 2021 to December 2021 using a collaborative approach. The dimensions assessed and reported in this CHA are: health outcomes in

the population expressed in terms of disease burden and quantity and quality of life measures; risk factors and determinants of poor health; and community resources available to improve health status.

**FXFCUTIVE SUMMARY** 

The CHA identifies areas for improvement as well as the community's strengths, assets and resources. Findings from the assessment will serve as a catalyst to promote collaboration and innovation, align expertise and partner resources towards the development of a Community Health Improvement Plan (CHIP), implementation of which will ultimately improve health in the community.

#### **METHODS**

The CHA defined health in the broadest sense and recognized health shaping factors at multiple levels. Existing demographic, behavioral, social, and economic, and health care data were drawn from national, state, and local sources, such as the U.S. Census Bureau, the U.S. Centers for Disease Control and Prevention's Behavioral Risk Factor Surveillance System, the County Health Rankings, and South Dakota Department of Health Office of Health Statistics. Primary data was also obtained through a resident survey, focus group discussions, key informant interviews, and assessment of community resources in various sectors.

#### **FINDINGS**

#### **About Our Community**

Key findings about the demographic makeup of the community include:

- The population of Sioux Falls MSA according to the 2020 census is 276,730, representing a 21 percent growth from the population as at 2010 census. This far exceeds the state population growth of nearly nine percent and the national growth of just over seven percent over the same period.<sup>2</sup>
- The MSA population is younger than the state and U.S. population. The median age in Sioux Falls is 34.4 years, in South Dakota is 37 years, and in the U.S. is 38.1 years.<sup>3</sup>
- As Sioux Falls and the surrounding area continue to grow, the population is becoming increasingly more diverse. The non-Hispanic White population remains by far the major ethnic group but the proportion of the population that are Hispanic/ Latino or Black/African American is growing.<sup>3</sup>
- Furthermore, 6.2 percent of the population in the MSA were born outside of the U.S and 7.9 percent speak a language other than English at home. These proportions are higher in the City of Sioux Falls. It is thus increasingly important to see that services in the area are culturally sensitive, that health information is made available in multiple languages, and that interpretation services are readily available for those who might need them.3
- Individuals with a disability comprise approximately 10 percent of the MSA, and veterans comprise 7.5 percent of the MSA population.<sup>3</sup>

#### **Health Outcomes**

Although slightly better than state and national rates, the percentage of people reporting fair or poor health in the MSA has worsened over time, from 9.1 percent in 2016 to 14.3 percent in 2019. Overall, average life expectancy in the Sioux Falls area is higher than state and national averages, although Turner county and McCook county lag behind.4

The major health challenges in the area can be summarized under the following themes:

- high burden of chronic diseases, mental health disorders and injuries;
- poor oral health, especially in school-age children;
- growing threat of communicable diseases and other health issues; and
- disparities in health outcomes by geographic, socioeconomic, and racial/ethnic groups

The following observations give a snapshot of the status health indicators in the area.

#### **Chronic Non-communicable Diseases**

- Cancer and heart disease are by far the leading causes of death in the MSA. Cardiovascular diseases, which include heart disease and cerebrovascular disease, constitute the leading cause of death both locally, statewide, and nationally.5
- The top 10 causes of death are chronic, non-communicable diseases and injuries, except for influenza and pneumonia.5
- Compared to state and national averages, the MSA has higher age-adjusted incidence rates for the most common cancers in the U.S.6
- McCook County saw a significant increase in cancer incidence in the period 2016 to 2018.6

- 31 percent of adults in the area have been diagnosed with hypertension and there was a steady increase in the proportion of adults diagnosed with hypertension in the MSA from 2015 and 2019.4
- One in four adults in the MSA have been diagnosed with high blood cholesterol. Although lower than state and national rates, this points to a significant burden of a major metabolic risk factor for CVD.4
- The percentage of adults with diagnosed diabetes went up significantly between 2016 and 2019 for both the state of South Dakota and the Sioux Falls MSA.4
- In the MSA, 35.5 percent of the adult population were estimated to be obese as of 2019. This was a significant jump from the preceding three years.4
- Asthma rates are higher in the MSA compared to the state average, while COPD rates are lower in the MSA.4
- In the MSA, 27 percent of adults report not keeping at least an annual dental visit. 4 One out of every three adults have lost at least one permanent tooth, and 12 percent of adults aged 65 and older have lost all of their natural teeth. 4 While these figures are slightly better than state and national rates, they point to a poor state of oral health and gaps in uptake of preventive oral care services.
- There is evidence of poor oral health among children in South Dakota and the Sioux Falls area:
  - o 56.5 percent of third grade children in South Dakota have a history of dental decay.<sup>7</sup>
  - o The 2019 Youth Risk Behavior Survey showed that 20 percent of South Dakota high school students had missed school in the past 12 months because of problems with their teeth or mouth.8
  - o 20 percent of the general population of elementary school students screened at three school-based dental clinics in the Sioux Falls School District<sup>9</sup> in 2021 had signs of obvious or probable tooth decay on visual examination. 56.2 percent of those referred and successfully enrolled in dental services at these schools already have dental decay.

#### **Injury and Accidental Death**

- Intentional and unintentional injuries are the leading causes of death in Americans aged 1 to 44 years.<sup>10</sup> In the Sioux Falls MSA, death rate from injuries (intentional and unintentional, combined) is lower than the state and national rates. However, rates vary among the four counties, with the highest rate seen in Minnehaha County, which exceeds the national average.10
- Unintentional fall deaths are particularly high in Minnehaha County; the unintentional fall death rate in Minnehaha County is more than double the national rate.10
- Rates of death by suicide are higher locally (Minnehaha County) and in the state of South Dakota than the national average.10

#### **Mental Health and Substance Use**

- Mental health and related topics were frequently mentioned during the 2021 CHA Focus Group discussions as top health issues facing the community.<sup>11</sup>
- In 2019, 20 percent of adults reported that they have been diagnosed with depression.<sup>4</sup> This is comparable to the U.S. average but higher than the average for South Dakota. The percentage of adults diagnosed with depression is also trending upwards.4

 Drug overdose incidents and substance use treatment admissions are higher in the MSA compared to the state average.<sup>12</sup> At the individual county level, Minnehaha County is primarily driving the rates in the MSA.

#### **Communicable Disease**

- As of December 2021, confirmed deaths per capita as a result of COVID-19 varied significantly among the counties in the area.<sup>13</sup> Whereas the rates in McCook and Turner far exceeded state and national death rates, Lincoln and Minnehaha counties had much smaller death rates than the state and country. Also, the vaccination rate (first dose of any COVID-19 vaccine) in Minnehaha county exceeded national and state rates, Lincoln county had a comparable rate, while McCook and Turner counties lagged significantly behind both state and national rates.<sup>14</sup>
- Rates of sexually transmitted infections are going up in the area. Particularly, gonorrhea cases per 100,000 population jumped significantly between 2015 and 2019, with Minnehaha County in the lead.<sup>15</sup>

#### **Health Disparities**

- There are significant disparities in health outcomes in the state and area:
  - o Within the Sioux Falls city limits, life expectancy varies by more than 15 years between census tracts.<sup>16</sup>
  - o The American Indian population, populations with lower income, and those with fewer years of education have a higher burden of depression, diabetes, and obesity.<sup>17</sup> American Indians also have a much higher rate of death from injuries.<sup>10</sup>
  - o Other racial/ethnic minorities generally fare worse than non-Hispanic Whites.
  - o Blacks experience a much higher incidence and prevalence of HIV than other racial/ethnic groups.<sup>15</sup>
  - o There are marked disparities in behavioral and environmental health determinants. For example, racial/ethnic minorities, people with low income, and fewer years of education have much higher smoking rates.<sup>17</sup>

#### **Health Determinants**

The major drivers of poor health in the MSA include:

- Behavioral factors such as high rates of use of alcohol, tobacco, and other substances<sup>4</sup>; low levels of physical activity<sup>4</sup>; and unhealthy dietary behaviors such as high level of consumption of sugar sweetened beverages<sup>4</sup> and low levels of consumption of fruits and vegetables<sup>4</sup>.
- Environmental factors, particularly in the built environment, that create barriers to healthy eating and active living lifestyles, such as presence of food deserts in the area<sup>18</sup>; and limited public transit options and active transportation (biking) infrastructure<sup>19, 20</sup>.
- Socioeconomic factors such as food insecurity<sup>21</sup>, limited availability of affordable housing options<sup>22</sup>, and gaps in digital access<sup>23</sup>.
- Inadequate access to and quality of health care services as a result of factors including limited supply of dental and mental health providers<sup>24</sup>, lack of health insurance coverage<sup>3</sup>, rising cost of care<sup>19</sup>, and inadequate use of clinical preventive services.

#### **Health Behaviors**

- When asked about health behaviors and health issues that were of the greatest concern, respondents to the 2021 CHA Survey of MSA residents ranked alcohol and drug use among the top concerns<sup>19</sup>. In addition, survey respondents also indicated that services to address addiction was second only to mental health in terms of health care services they would like to see offered or improved in the community.<sup>19</sup>
- In recent years, the Sioux Falls MSA has seen an increase in both heavy drinking and binge drinking, with rates that are higher than the national average. Excessive alcohol use can be categorized as "heavy drinking," meaning more than 14 drinks per week for men and 7 drinks per week for women, and "binge drinking," which is defined as consuming 4 or more drinks per occasion for women or 5 or more drinks per occasion for men. With respect to heavy drinking, the MSA rate rose from 4.1 percent in 2015 to 7.9 percent in 2019, and the binge drinking rate for the MSA increased from 17.1 percent in 2015 to 21.4 percent in 2019.<sup>4</sup>
- 28 percent of driving deaths in the MSA have alcohol involvement.<sup>25</sup>
- While local, statewide, and national adult smoking rates have been generally trending downward slowly, the Sioux Falls MSA saw a slight increase from 2018 to 2019.<sup>4</sup>
- Notwithstanding the strong policy and regulatory environment, adolescents continue to initiate and use tobacco products at high rates, necessitating further interventions to limit access to tobacco products in this population and improve their agency to resist or quit use of tobacco products. 12 percent of high school students in South Dakota have recent history of smoking cigarettes while the rate for vaping is nearly 24 percent.8
- Adults in the MSA fall significantly short of meeting recommendations for fruit and vegetable consumption. Nearly 40 percent of adults report consuming fruits less than once per day and 18 percent report the same for vegetable consumption.<sup>4</sup>
- A national study estimated that 72.5 percent of South Dakota adults consume sugar sweetened beverages (SSBs) once daily or more, compared to a national rate of 63 percent.<sup>4</sup> With such a high rate, South Dakota ranked 48th in the nation. Furthermore, in 2019, 14.4 percent of South Dakota high school students reported drinking regular soda/pop at least one time per day while 8.4 percent reported drinking two or more of such drinks per day.<sup>8</sup>
- Stakeholders ranked all sectors (community settings, health care, and worksites) except schools, as having gaps in policy, regulation, and environment (PRE) and in education and awareness (EA) strategies to improve nutrition.<sup>26</sup>
- Nearly 26 percent of adults in the MSA do not participate in any physical activity outside of their regular job. In addition, 79 percent of adults in the area do not meet the recommended guidelines for both aerobic and muscle strengthening activity, which shows a slight improvement from recent years but is still worse than national average.
- Stakeholders identified community settings as needing improvements in policy, regulation, and environment (PRE) strategies to promote physical activity.<sup>26</sup>

#### **Healthcare Access and Quality**

- Sioux Falls MSA generally has a low supply of dentists and mental health providers. Access to primary care providers in the MSA looks good compared to state and national benchmarks, with the exception of McCook County.<sup>24</sup>
- For those who had not recently had a routine medical check-up, COVID-19 was the number one reason why they had not been to a provider, with perception that they had "no need to see the doctor" and "cost" as other top reasons. This points to financial barriers as well as personal factors such as limited health literacy.19
- 12 percent of respondents to the CHA resident survey indicated they had a medically necessary care need but did not receive care.19 Financial barriers (51 percent cited inability to pay or cost concerns and 31 percent cited lack of health insurance) were by far the most common reasons for skipping necessary care, besides COVID-19. A significant proportion also reported the reasons were due to organizational-level barriers, including long wait times (17 percent), not feeling welcome or valued at the clinic (16 percent), and inconvenient clinic hours (9 percent). This points to opportunities to improve patient-centered care.
- Availability of affordable, quality mental health care has consistently been rated lower than other services.20
- The rate of hospital stays for Ambulatory-care Sensitive Conditions in counties in the MSA are comparable to the state rate, but are much higher than the national rate.<sup>27</sup>

#### **Social and Economic Factors**

- While poverty rates in the MSA for both adults and children are well below state and national averages, poverty remains an important community issue because of its widespread impacts on affected individuals and families.<sup>3</sup>
- Food insecurity (i.e. limited or uncertain access to adequate food), is less prevalent in the MSA when compared to state and U.S. averages. Yet, more than eight percent of the population in the area were food insecure in 2019.21
- In the 2021 CHA Resident Survey, 66 percent rated the ability of residents to access healthy and nutritional foods in the community as excellent or very good, while 13 percent rated access as fair or poor.19
- Food deserts in the area have worsened since the last Community Health Assessment.<sup>18</sup>
- Housing access was regarded as one of the biggest barriers to creating a healthy community. Among MSA residents responding to the CHA Resident Survey, 41 percent consider availability of affordable housing in the area as fair or poor. 19
- 9 percent of MSA households experience severe housing cost burden, meaning they spend 50 percent or more of their household income on housing.3

#### **Physical Environment**

- 84.3 percent of the MSA population drive alone to work, compared to 81 percent for South Dakota.3
- 30 percent of MSA population rate the ability of residents to access daily transportation as fair or poor.<sup>19</sup>

- Biking/walking trails are rated highly, while ease of walking, traveling by bicycle or traveling by public transportation are ranked lower.<sup>19, 20</sup>
- Cost, accessibility and coverage area were cited as concerns related to public transportation.<sup>11,1</sup>
- The walk score, bike score, and transit score for the City of Sioux Falls show gaps in the built environment:28
  - o Walk Score is 37 (out of 100), indicating the city is "car-dependent" (e.g. most errands require a car);
  - o Bike Score is 46 (out of 100), indicating "somewhat bikeable" due to limitations in bike infrastructure for commuting;
  - o Transit Score is 17 (out of 100), indicating minimal transit options.
- All four counties in Sioux Falls MSA are in a highrisk region for environmental radon exposure.<sup>29</sup> Radon is the second leading cause of lung cancer in the US, behind smoking.

#### **Identifying Health Priorities**

With the release of this CHA report, the community partners will initiate a process to develop a collaborative Community Health Improvement Plan (CHIP), which will include strategies to improve key areas affecting health and well-being. Partners will identify priorities using criteria such as scope of the issue, urgency, economic feasibility, potential for impact, availability of community assets, and value to the community.

This process will engage leaders of the community in all sectors—non-profit and for-profit, public and private entities—beginning in early 2022. We encourage all residents to read this CHA report and to join us as we move into the CHIP process and implement action steps over the next three years to build a healthier community.



## **Key Indicators in the Sioux Falls MSA**



41%
rate affordable
housing as
fair/poor



51% of adults delaying medical care cite inability to pay

37 out of 100 WalkScore

20% of a sample of Sioux Falls elementary school students have signs of tooth decay



**16.3** % adult smoking rate



18% of adults consume vegetables less than once per day

## 15 year

difference in life expectancy among Sioux Falls census tracts



27% of adults do not get an annual dental visit



79% of adults do not meet physical activity guidelines

2.2% unemployment



21% population growth 2010-2020

Cancer and heart disease are the leading causes of death

9.9% of adults and 4.5% of children are uninsured

13.7% of households lack internet connection at home



Only 42% of surveyed adults positively rated public transportation

Gonorrhea cases



8%

**35.5%** of adults with obesity



in the MSA

exceed state and

national rates

**21.4%** of adults binge drink

of adults diagnosed with hypertension

31%



**40%** of adults consume fruits less than once per day

\$235,000 median home sales price

\$65,621 median household income



## INTRODUCTION

For the purpose of this report, "community" was defined as the Sioux Falls Metropolitan Statistical Area (MSA), anchored by the city of Sioux Falls and including the counties of Lincoln, McCook, Minnehaha, and Turner in the state of South Dakota. This area represents where approximately 50 percent of the Sioux Falls hospital inpatient discharges originate. While South Dakota counties are predominantly rural, the majority of Minnehaha County is classified as urban.

The role of public health is to promote and protect the health of people and the communities where they live, learn, work and play.<sup>30</sup>

Figure 1: 10 Essential Public Health Services



Data Source: 10 Essential Public Health Services Futures Initiative Task Force. 10 Essential Public Health Services. September 9, 2020. https://phnci.org/uploads/resource-files/EPHS-English.pdf]

The 10 Essential Public Health Services<sup>31</sup> (Figure 1) describe public health activities that all communities should undertake to promote and protect health.

These essential public health services, include:

- Assess and monitor population health status, factors that influence health, and community needs and assets
- Investigate, diagnose, and address health problems and hazards affecting the population
- Communicate effectively to inform and educate people about health, factors that influence it, and how to improve it
- Strengthen, support, and mobilize communities and partnerships to improve health

- Create, champion, and implement policies, plans, and laws that impact health
- Utilize legal and regulatory actions designed to improve and protect the public's health
- Ensure an effective system that enables equitable access to the individual services and care needed to be healthy
- Build and support a diverse and skilled public health workforce
- Improve and innovate public health functions through ongoing evaluation, research, and continuous quality improvement

Build and maintain a strong organizational infrastructure for public health

Actively promoting policies, systems, and overall community conditions enable optimal health for all people. Communities should also work to remove systemic and structural barriers that result in health inequities. By actively working within these key service areas, we can ensure that everyone has a fair and just opportunity to achieve optimal health and well-being. Conducting a comprehensive community health assessment (CHA) is a critical element of community health promotion and protection.

#### **CHA PURPOSE AND SCOPE**

The purpose of the CHA was to develop a global view of population health, including the prevalence of diseases and health issues, in the Sioux Falls Metropolitan Statistical Area (MSA), which is comprised of four counties (Lincoln, McCook, Minnehaha, and Turner), with the City of Sioux Falls as the major city within the MSA. The dimensions assessed and reported in this CHA are: health outcomes in the population expressed in terms of disease burden and quantity and quality of life measures; risk factors and determinants of poor health; and community resources available to improve health status.

The CHA identifies the community's strengths and areas for improvement. Findings from the assessment will serve as a catalyst to promote collaboration and innovation, align expertise and partner resources towards the development of a Community Health Improvement Plan (CHIP), implementation of which will ultimately improve community health.

The CHA process utilized the South Dakota Good & Healthy Communities Assessment framework (Figure 2), a state-based model for community health assessment and improvement. The CHA partners developed a multi-faceted assessment that included quantitative and qualitative methods of data collection and that actively sought feedback from key stakeholders and community residents.

The partners made a good faith effort to engage community representatives in each component of the assessment process, and opportunity was given for public comments and feedback prior to finalization of the assessment. For the previous CHA (2019), none of the partners received community comments or questions.

Figure 2: Community Health Assessment Framework



#### **Regulatory Requirements**

Federal regulations stipulate that non-profit medical centers conduct a community health needs assessment at least once every three years and prioritize the needs for the purpose of implementation strategy development and submission in accordance with the Internal Revenue Code 501(r). The Internal Revenue Code 501(r) requires that each hospital must have: (1) conducted a community health needs assessment in the applicable taxable year; (2) adopted an implementation strategy for meeting the community health needs identified in the assessment; and (3) created transparency by making the information widely available.

The regulations also stipulate that each medical center take into account input from persons who represent the broad interests of the community. Hospitals are required to seek at least one state, local, tribal or regional government public health department or state Office of Rural Health with knowledge, information or expertise relevant to the health needs of the community. Non-profit hospitals are required to seek input from members of medically underserved, low income, and minority populations in the community, or organizations serving or representing the interest of such populations, and underserved populations experiencing disparities or at risk of not receiving adequate care as a result of being uninsured or due to geographic, language or financial or other barriers.

The community health assessment includes a process to identify community resources that are available to address the assessed needs and to prioritize the needs. Hospitals are to address each assessed need or explain why they are not addressing the needs. Once the needs have been identified and prioritized, hospitals must develop an implementation strategy to address top needs. The strategies are reported on the IRS 990 and a status report must be provided each year on IRS form 990 Schedule H. Finally, hospitals are to be transparent with the findings and make the written CHA report available to anyone who asks for the report. In addition to having printed copies available upon request, this CHA report is available on all of the partner websites.

#### **METHADOLOGY**

A mixed methods approach was employed in this CHA. including primary and secondary data sources and the use of qualitative and qualitative research methods and data. Primary data sources included a Community Health Assessment Resident Survey, Focus Group Discussions, Key Informant Interviews, and a Community Sector Assessment of Resources that was held specifically for the CHA. Secondary data sources included CDC's Behavioral Risk Factor Surveillance System, the U.S. Census Bureau Census Data and American Community Survey, the National Community Survey, The County Health Rankings, South Dakota Department of Health Office of Health Statistics, select program data from healthcare providers, and data from local government departments in the City of Sioux Falls including Police Department, Planning and Development Services, and Innovation and Technology, among others. Further details on some of these data sources are provided below.

## 2021 Community Health Assessment Resident Survey (2021 CHA Survey)

Community members were asked a series of questions through an online survey designed in partnership with health experts and public health officials across the Sanford Health footprint. The tool was designed to understand the needs of the community and was based upon the University of Wisconsin County Health Rankings Population Health model. Each respondent was asked to rate community health drivers from poor to excellent. Any response other than excellent was offered a follow up opportunity to comment on the reason. Respondents were also asked a series of questions specific to their health care access, health care quality, barriers to care, travel to care, and insurance. The survey was sent to a sample of the Sioux Falls MSA population secured through Qualtrics, a qualified vendor. The full set of questions is available in the appendix.

To further promote community involvement, the survey was also sent electronically to community stakeholders and elected officials with knowledge and connections amongst medically underserved, low income, or minority populations. Stakeholders were asked to complete the instrument as a resident of the community and forward the survey to their respective populations for greater involvement. The survey was also promoted to community stakeholders by the CHA partners through news articles, social media posts and paid social media advertising. A total of 739 respondents from the Sioux Falls MSA completed the survey. The data from the CHA Survey are not necessarily generalizable to the entire community.

## Focus Group Discussions and Key Informant Interviews

Avera McKennan Hospital & University Health Center contracted with Intersections Consulting, a private consulting firm, to develop, facilitate, compile, and analyze focus group and key informant interview content for this needs assessment. References to Sioux Falls include the surrounding metro area (i.e. the Sioux Falls MSA). Intersections Consulting facilitated two community listening sessions and six key informant interviews. Key informants were asked to validate focus group conclusions on the subjects of community assets, barriers, and top recommendations. All community listening sessions followed a similar pattern framed in four parts:

- A warm-up conversation to get participants in a community health mindset, using an *Elements of a Healthy Community* visual;
- A scan of what is happening, trending and emerging, using a Wave visual;
- A dive into underlying structures and deeper thinking that is driving community health, using an *Iceberg* visual; and

 A catch-all approach to gathering advice for community health systems of all kinds, using a Dear Health Systems visual.

Considering the ongoing COVID-19 pandemic at the time of this assessment, all Community Listening Sessions were facilitated virtually using Zoom video calls. Some participants did not use video. Intersections Consulting also utilized a virtual facilitation app called Miro during group sessions to encourage hands-on engagement in the process.

Facilitators approached the listening sessions through a whole-community systems lens. All participants were informed that when the term *health system* was used, the team was referring not to any particular healthcare system (e.g. Avera Health, Sanford Health, etc.), but to any community organization or player in the system that support better community health of all kinds in the Sioux Falls region.

#### **Community Sector Assessment**

Community members in all sectors have a role to play in improving health. Similar to the 2016 and 2019 CHA processes, the partners utilized the South Dakota Good & Healthy Community Checklist (The Checklist), which is a valid and tested tool to help communities assess local policy, regulations, and environment, as well as education and awareness regarding physical activity, nutrition, tobacco use, chronic disease management, and school health.

The Checklist was developed and adapted from the Ohio Healthy Communities Checklist and with approval from the Primary Prevention Section and Creating Healthy Communities Program, Ohio Department of Health. The sectors included in this portion of the assessment include schools, worksites, health care sector, and the community sector, which includes departments of the City of Sioux Falls government and community organizations. The four health indicators—nutrition, physical activity, tobacco, and chronic disease management—were assessed for each sector. Within each module, indicators are scored to provide insight regarding the health of each sector in the community.

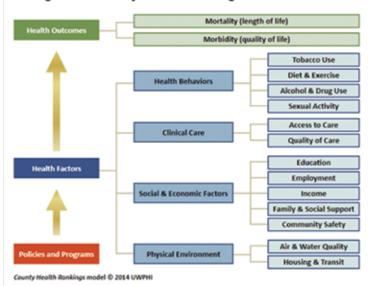
Each Module (Policy/Regulations and Environment, and Education and Awareness) located within each of the health areas (physical activity, nutrition, tobacco, and chronic disease management) is scored based on a scale ranging from 0–3, understanding that all strategies included in the Module may not be applicable to each community. The strategies are scored with their corresponding drop-down box, and then a total score of all strategies within each Module is calculated. This assessment tool identifies opportunities that cross all sectors and also those specific to a sector or health topic. Opportunities for improvement exist where the score is less than 60 percent.

#### **Secondary Data**

In addition to the primary data collection methods described in this section, this report also relied on several quantitative demographic and population health data to build a comprehensive health profile for the Sioux Falls MSA.

The County Health Rankings and Roadmaps is an initiative of the University of Wisconsin Population Health Institute that seeks to measure the health of nearly every county in all 50 states in the U.S. and serve as the main secondary data source utilized for the community health needs assessment.32 The County Health Rankings provided a great starting point for viewing county-level population health indicators, which were further explored in other secondary data sources. The County health Rankings

Figure 3: County Health Rankings Model



model (Figure 3) also served as a good framework for organizing the secondary data gathered for this community health assessment.

The Sioux Falls Metropolitan Statistical Area Calculator is a tool that was developed on behalf of the CHA Steering Committee to generate MSA rates for the study area using county-level data for the four counties that make up the MSA. The calculator takes, as input, data from all four counties as well as the start year and end year for the statistic. It then uses Census Bureau population estimates for each of the years to average the population over the provided range and then multiply each county's rate by its average population. That number is then divided by the average MSA population over the same time period. This method provides a single MSA number for the metro area that reflects, proportionally, the makeup of the four counties. Throughout this report, footnotes are used for tables and figures using the calculator to provide the MSA data. This approach was relied on to generate estimates for several health indicators where countylevel data was available but weren't available for the geographic unit of interest.

This report also includes references to other data sources, such as the Behavioral Risk Factor Surveillance System, the U.S. Census Bureau Census Data and American Community Survey, state-level data from the South Dakota Department of Health Office of Health Statistics, select program data from healthcare providers, and data from local government departments in the City of Sioux Falls including Police Department, Planning and Development Services, and Innovation and Technology, among others. This CHA also references data from The National Community Survey (2021), developed by the experts at Polco's National Research Center to capture residents' opinions about livability in the community. The National Community Survey provides the opinions of a representative sample of 598 residents of the City of Sioux Falls collected from January 4, 2021 to February 22, 2021. The margin of error around any reported percentage is 4% for all respondents and the response rate for the 2020 survey was 21%. Survey results were weighted so that the demographic profile of respondents was representative of the demographic profile of adults in Sioux Falls.

#### **LIMITATIONS**

The findings in this CHA provide an overall snapshot of demographic indicators, health factors impacting the health of residents living in the community, and the status of health outcomes at the time of the assessment. Despite the best efforts made, there were a few limitations related to the availability, timing, and quality of data. While there are several secondary data sources that provide high quality information on population health indicators at the national and state levels, many do not sample at a level that allows for quantification of health for metro areas the size of Sioux Falls MSA. Thus for some of the measures, the best that could be done for this round of CHA was to rely on state-level estimates. However, since the Sioux Falls MSA accounts for more than one-third of the state's population, extrapolating state-level data in certain areas such as for health disparities would be considered a reasonable alternative.

Although data collection was done in the year 2021 for this 2022 CHA report, for secondary data sources we can only report the most recent available data. Thus for some measures, the most recent available data may be for the year 2019 for example. We clearly indicate the timing for all measures obtained from secondary data sources.

Whereas the limitations on availability and timing of data noted above apply to secondary data sources, they do not apply to the primary data from the resident survey, focus group discussions, and key informant interviews, which were done in 2021. For these, a good faith effort was made to secure input from a broad base of the community. However, the final samples included in the surveys and qualitative

studies may not be proportionally representative of every demographic group in the community. They also do not capture demographic or geographic variations in views or responses.

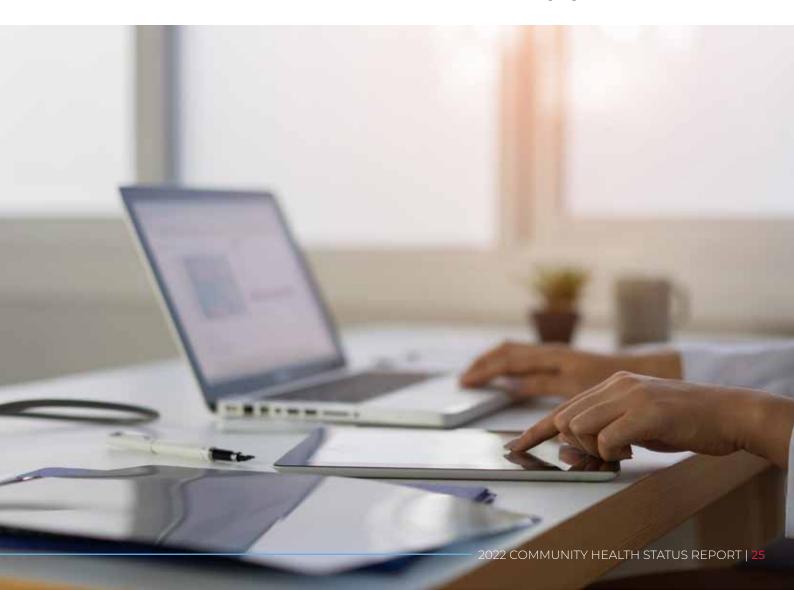
To mitigate the above limitations, the CHA triangulated data on community health from several data sources and perspectives. Oftentimes, we found that information from several data sources and study types pointed to the same conclusions, thus increasing our confidence in the reported findings. The process of checking the preliminary results with institutional knowledge by the CHA partners and other stakeholders, community members, and community leaders that have knowledge and expertise regarding special populations allowed us to further probe and refine the findings.

#### **FINDINGS**

The CHA findings are presented in the subsequent sections of this report in three broad categories:

- 1. About Our Community—a demographic profile of the community.
- 2. Health Outcomes—an overview of health status in the community using aggregate measures of mortality (length of life) and morbidity (quality of life and disease burden).
- Health Determinants—a review of underlying factors that are driving or contributing to the observed health outcomes.

Wherever possible, given the available data, racial/ethnic, socioeconomic, and geographic disparities in health outcomes and health determinants are highlighted.





## ABOUT OUR **COMMUNITY**

For the purpose of this report, "community" was defined as the Sioux Falls Metropolitan Statistical Area (MSA), which is anchored by the City of Sioux Falls and includes the counties of Lincoln, McCook, Minnehaha, and Turner in the state of South Dakota. This area represents where approximately 50 percent of the Sioux Falls hospital inpatient discharges originate. While South Dakota counties are predominantly rural, the majority of Minnehaha County is classified as urban.

Sioux Falls is the largest city in South Dakota, with the metro area accounting for more than 30 percent of the state's population. With an area of about 80.12 square miles, it is the county seat of Minnehaha County and also extends into Lincoln County to the south.<sup>33</sup>

Amid several strong years of construction, job growth, and quality of life investments, Sioux Falls experienced substantial population growth in the last decade, with growth rates that tripled the U.S. growth rate (Tables 1 and 2).

#### **TABLE 1: POPULATION**

., (222 0. 02)				
	Sioux Falls	Sioux Falls MSA	South Dakota	U.S.
2018	174,151	255,438	864,289	864,289
2019	177,117	259,348	870,638	870,638

DATA SOURCE: United States Census Bureau. (2019). American Community Survey Data. https://www.census.gov/programs-surveys/acs/data.html

TABLE 2: POPULATION GROWTH BETWEEN 2010 CENSUS AND 2020 CENSUS

	2010	2020	10-year Percentage Growth
SIOUX FALLS	153,888	192,517	25.10%
SIOUX FALLS MSA	228,261	276,730	21.23%
SOUTH DAKOTA	814,180	886,667	8.9%
UNITED STATES	308,745,538	331,449,281	7.35%

DATA SOURCE: United States Census Bureau. (2020). QuickFacts. https://www.census.gov/quickfacts/fact/table/US/PST045219



According to the City of Sioux Falls Planning and Development Services, Sioux Falls' population grew by 5,100 in 2020 (2.7 percent growth rate), compared to a 3,550-person increase in 2019 (1.9 percent growth rate).34 The city averaged a 4,100 person annual increase for more than ten years. Since January 1, 2000, Sioux Falls has increased in population by 71,000 people, and the city population is projected to be 251,000 by 2040.

Nearly 17 percent of Americans are aged 65 years and older (Table 3), and that percentage is growing. In 2030, more than one in five people in the U.S. will be 65 years old or older. Furthermore, between 2020 and 2050, the number of people 65 and older is expected to increase from 56 to 86 million.<sup>35</sup> The Sioux Falls area population is younger than the state and U.S. population (Table 3). The median age in Sioux Falls is 34.4 years, in South Dakota is 37 years, and in the U.S. is 38.1 years. The Sioux Falls MSA population is almost evenly divided between males and females (Table 4).

#### TABLE 3: POPULATION BY AGE, PERCENT OF POPULATION

	•			
	Sioux Falls	Sioux Falls MSA	South Dakota	U.S.
UNDER 18 YEARS	25.0%	25.9%	24.5%	22.3%
18–64	62.3%	61.1%	59.2%	61.7%
65 AND OVER	12.7%	13.0%	17.2%	16.5%

DATA SOURCE: United States Census Bureau. (2019). American Community Survey Data. https://www.census.gov/programs-surveys/acs/data.html

#### **TABLE 4: POPULATION BY GENDER, PERCENT OF POPULATION**

	Sioux Falls	Sioux Falls MSA	South Dakota	U.S.
MALE	49.9%	50.2%	50.5%	49.2%
FEMALE	50.1%	49.8%	49.5%	50.8%

DATA SOURCE: United States Census Bureau. (2019). American Community Survey Data. https://www.census.gov/programs-surveys/acs/data.html

TABLE 5: POPULATION BY RACE AND ETHNICITY, PERCENT OF POPULATION

	Sioux Falls	Sioux Falls MSA	South Dakota	U.S.
WHITE ALONE, NOT HISPANIC/LATINO	80.9%	85.4%	81.9%	60.7%
BLACK/AFRICAN	6.2%	4.5%	2.3%	13.4%
AMERICAN INDIAN/ALASKAN	2.1%	1.6%	9%	1.3%
ASIAN	2.5%	1.8%	1.5%	5.9%
NATIVE HAWAIIAN/PACIFIC ISLANDER	0.00%	0	0.1%	0.2%
HISPANIC/LATINO	5.5%	4.3%	4.2%	18.5%
TWO+ RACES	3.2%	2.4%	2.5%	2.8%

DATA SOURCE: United States Census Bureau. (2019). American Community Survey Data. https://www.census.gov/programs-surveys/acs/data.html

Data now available from the 2020 Census suggests that the population in the city of Sioux Falls is even more diverse, with 77.6 percent Non-Hispanic White, 6.4 percent Hispanic/Latino, and 6.3 percent Black.<sup>2</sup> Furthermore, 6.2 percent of the population in the MSA were born outside of the United States (Table 6) and 7.9 percent speak a language other than English at

home (Table 7). These proportions are higher in the city of Sioux Falls. It is increasingly important to see that services in the area are culturally sensitive, that health information is made available in multiple languages, and that interpretation services are readily available for those who might need them.

TABLE 6: FOREIGN BORN PERSONS, PERCENT OF POPULATION

	Sioux Falls	Sioux Falls MSA	Lincoln	McCook	Minnehaha	Turner	South Dakota	U.S.
PERCENT OF FOREIGN BORN BY REGION (CITIZEN AND NON-CITIZEN) MOE* VERY HIGH	8.5%	6.2%	2.6%	2.4%	7.6%	1.1%	4.1%	13.7%
EUROPE	0.3%	0.3%	N/A	N/A	0.2%	N/A	0.3%	1.4%
ASIA	2.2%	1.7%	N/A	N/A	1.9%	N/A	1.1%	4.3%
AFRICA	4.4%	3.2%	N/A	N/A	4.2%	N/A	1.2%	0.8%
OCEANIA	0%	0%	N/A	N/A	0%	N/A	0.2%	0.1%
LATIN AMERICA	1.8%	1.4%	N/A	N/A	1.7%	N/A	1.0%	6.7%
NORTHERN AMERICA	0.1%	0.1%	N/A	N/A	0.1%	N/A	0.1%	0.2%

<sup>\*</sup>Margin of Error

DATA SOURCE: United States Census Bureau. (2019). American Community Survey Data.

https://www.census.gov/programs-surveys/acs/data.html



TABLE 7: LANGUAGE SPOKEN AT HOME, PERCENT OF POPULATION

	Sioux Falls	Sioux Falls MSA	Lincoln	McCook	Minnehaha	Turner	South Dakota	U.S.
ENGLISH ONLY/SPEAKS ENGLISH VERY WELL	95.5%	96.7%	98.9%	98.3%	95.9%	98.9%	97.8%	91.6%
SPEAKS ENGLISH LESS THAN "VERY WELL"	4.5%	3.3%	1.1%	1.7%	4.1%	1.1%	2.2%	8.4%
LANGUAGE OTHER THAN ENGLISH AT HOME	10.4%	7.9%	4.7%	3.5%	9.2%	2.7%	6.4%	21.6%

(Population 5 years+)

DATA SOURCE: United States Census Bureau. (2019). American Community Survey Data.

https://www.census.gov/programs-surveys/acs/data.html

As we continue to work with partners to improve health and well-being in our community, it is essential to consider the unique needs of various populations, including individuals with disabilities and veterans in

the community. Currently, individuals with a disability comprise approximately 10 percent of the Sioux Falls MSA, and veterans comprise 7.5 percent of the MSA population (Tables 8 and 9).

TABLE 8: DISABILITY CHARACTERISTICS, PERCENT OF POPULATION

	Sioux Falls	Sioux Falls MSA	South Dakota	U.S.
INDIVIDUALS WITH DISABILITY	10.2%	9.9%	12%	12.6%
TYPES OF DISABILITY				
HEARING DIFFICULTY	2.8%	3.0%	4.1%	3.6%
VISION DIFFICULTY	1.6%	1.6%	2.0%	2.3%
COGNITIVE DIFFICULTY	4.4%	4.0%	4.4%	5.1%
AMBULATORY DIFFICULTY	4.9%	4.7%	5.8%	6.9%
SELF-CARE DIFFICULTY	1.8%	1.6%	1.9%	2.6%
INDEPENDENT LIVING DIFFICULTY	4.5%	4.0%	4.6%	5.8%

DATA SOURCE: United States Census Bureau. (2019). American Community Survey Data. https://www.census.gov/programs-surveys/acs/data.html

**TABLE 9: VETERAN STATUS, PERCENT OF POPULATION** 

	Sioux Falls	Sioux Falls MSA	Lincoln	McCook	Minnehaha	Turner	South Dakota	U.S.
VETERANS % CIVILIAN POP>18 YEARS	6.9%	7.5%	7.3%	7.9%	7.5%	8.7%	8.8%	7.3%
# OF VETERANS	9,178	14,351	2,988	317	10,494	552	2.2%	18,230,322
VETERANS BY GENDER								
MALE	89.8%	90.4%	88.0%	90.9%	9.1%	92.8%	91.6%	91.1%
FEMALE	10.2%	9.6%	12.0%	9.1%	9.0%	7.2%	8.4%	8.9%

DATA SOURCE: United States Census Bureau. (2019). American Community Survey Data. https://www.census.gov/programs-surveys/acs/data.html



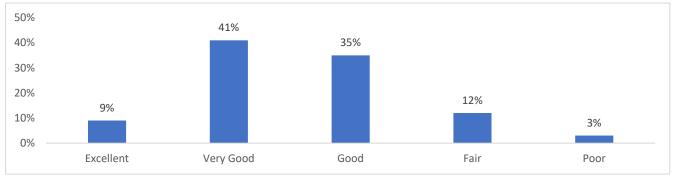
## **HEALTH OUTCOMES**

Health can be measured in a number of ways, from looking at causes of death to examining the impact of physical and mental health factors on quality of life. In this report, we quantify the population health of Sioux Falls area residents using aggregate measures of mortality (length of life) and morbidity (quality of life and disease burden).

#### **HEALTH-RELATED QUALITY OF LIFE**

Overall, a majority of residents in the Sioux Falls MSA consider themselves to be in good health, as reflected in Figure 4 below. About 15 percent consider their health to be fair or poor, similar to the most recent estimate (14.3 percent) from the Behavioral Risk Factor Surveillance Survey (Figure 5).

Figure 4: Resident Perceptions of Their State of Health and Wellness



DATA SOURCE: 2021 Community Health Assessment Resident Survey

The percentage of people reporting fair or poor health in the Sioux Falls MSA has worsened over time, from 9.1 percent in 2016 to 14.3 percent in 2019 (Figure 5).

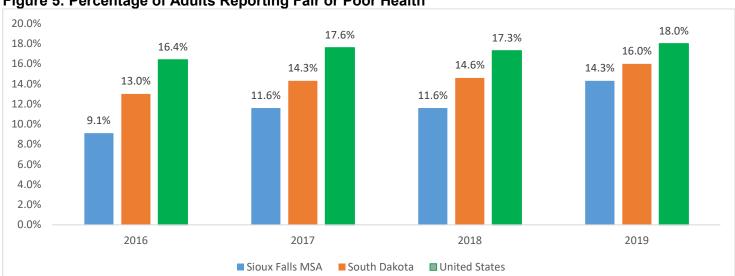
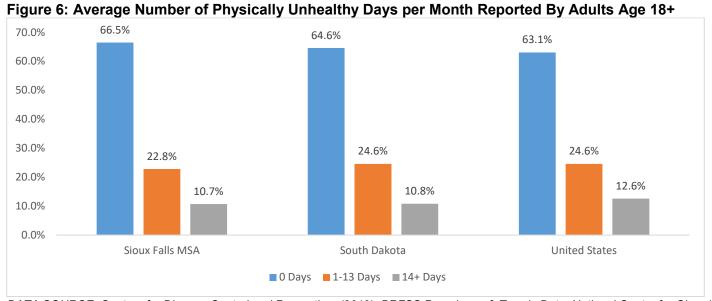


Figure 5: Percentage of Adults Reporting Fair or Poor Health

DATA SOURCE: Centers for Disease Control and Prevention. (2019). BRFSS Prevalence & Trends Data. National Center for Chronic Disease Prevention and Health Promotion, Division of Population Health. https://www.cdc.gov/brfss/brfssprevalence/

Self-reported numbers of healthy and unhealthy days in a month is an established measure of healthrelated quality of life that was developed by the U.S. Centers for Disease Control and Prevention (CDC). Unhealthy days are an estimate of the overall number of days during the previous 30 days when a respondent felt that either their physical or mental health was not good.<sup>36</sup> Unhealthy days have been

shown to be a valid and responsive index of perceived physical and mental health over time. In 2019, fewer adults in Sioux Falls MSA reported physically and mentally unhealthy days compared to state and national averages (Figures 6 and 7). Nonetheless, nearly 11 percent of the adult population reported 14 or more physically unhealthy days while 12 percent reported 14 or more mentally unhealthy days.



DATA SOURCE: Centers for Disease Control and Prevention. (2019). BRFSS Prevalence & Trends Data. National Center for Chronic Disease Prevention and Health Promotion, Division of Population Health, https://www.cdc.gov/brfss/brfssprevalence/

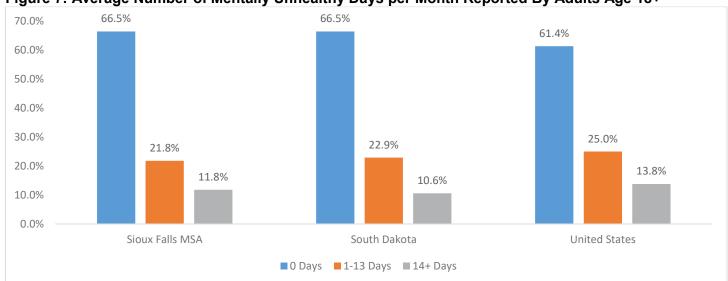


Figure 7: Average Number of Mentally Unhealthy Days per Month Reported By Adults Age 18+

DATA SOURCE: Centers for Disease Control and Prevention. (2019). BRFSS Prevalence & Trends Data. National Center for Chronic

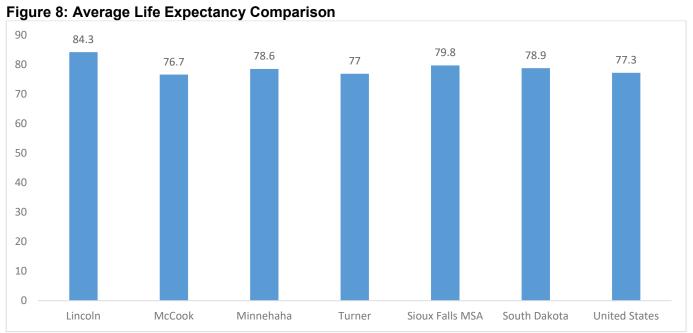
#### **MORTALITY Life Expectancy**

Life expectancy for many groups in the U.S. is at its lowest since the mid-2000's, according to the National Center for Health Statistics. Disparities are seen in life expectancy among various racial and ethnic groups, and overall, life expectancy dropped from 78.8 years in 2019 to 77.3 years in 2020, which is the lowest level since 2003.10 Other observations 37 regarding life expectancy in the U.S. include:

- Male life expectancy is 74.5 years, the lowest since 2003.
- Female life expectancy is 80.2, the lowest level since 2005.
- The Hispanic population saw the largest decline, changing from 81.8 years in 2019 to 78.8 years in 2020. This represents the lowest since 2006 when life expectancy was first measured by Hispanic origin.

Although life expectancy has been on a gradual decline in the past few years in the U.S., mortality due to COVID-19 played a significant role in the steep further decline in 2020, accounting for nearly 75 percent of it. Other causes of death that impacted the rates were unintentional injuries, homicide, and diabetes.<sup>37</sup>

Life expectancy in the Sioux Falls area is higher than state and national averages (Figure 8). South Dakota has higher life expectancy than the U.S. average. Whereas life expectancy in Minnehaha County is comparable to the state average, Lincoln County far exceeds the state average.

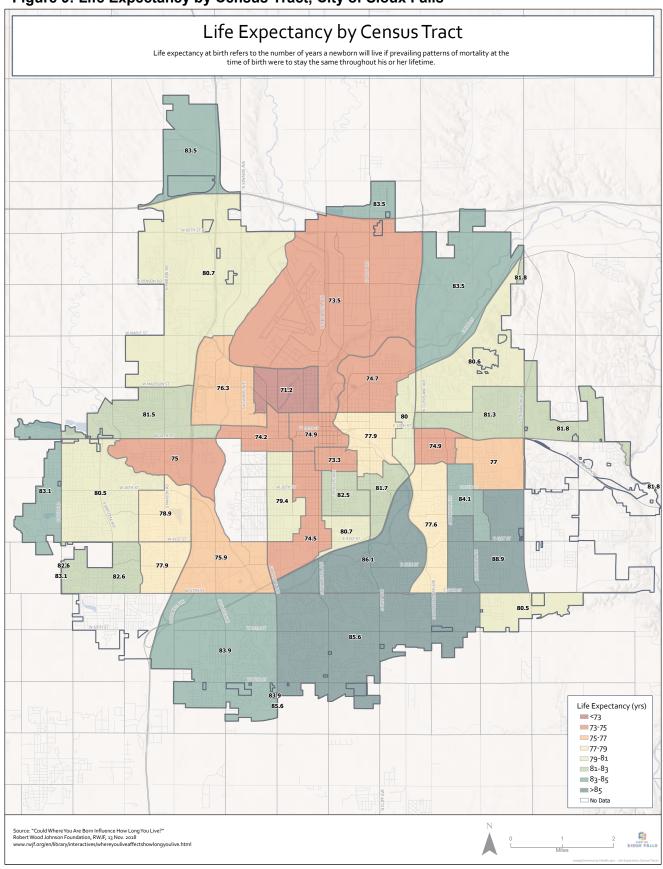


DATA SOURCE: National Center for Health Statistics - Mortality Files, 2017-2019. Accessed at www.countyhealthrankings.org. Sioux Falls MSA data based on Sioux Falls Metropolitan Statistical Area Calculator.

Improving health and well-being begins by ensuring that people have a fair opportunity to thrive at every level of society. This is the very heart of health equity. However, communities across the country see that some neighborhoods are challenged by fewer green spaces, lower access to affordable and healthy foods, higher crime rates, and fewer options for affordable housing or transportation. These social determinants of health can impact how long—and how well—we live.

Within the Sioux Falls city limits, life expectancy varies more than 15 years between one neighborhood and another (Figure 9). Working within the 10 Essential Public Health Services, and doing so using a health equity lens, the community can ensure residents' unique needs are considered when determining what resources are needed to promote optimal health and well-being.

Figure 9: Life Expectancy by Census Tract, City of Sioux Falls



Social Vulnerability refers to the resilience of communities to survive and thrive when confronted with external stresses such as disasters or disease. The Social Vulnerability Index represents the percentile rank of a census tract. For example, a ranking of 0.85 signifies that 85 percent of tracts are less vulnerable than the tract of interest and that 15 percent of tracts are more vulnerable. There is a high correlation between life expectancy and social vulnerability index. Neighborhoods with higher social vulnerability are more likely to also experience lower life expectancy (Figure 10).

Life Expectancy (LE) and Social Vulnerability Index (SVI) by Census Tract 1 LE: 80.7 SVI: 0.44 LE: 80.6 SVI: 0.95 LE: 81.8 SVI: 0.01 LE: 74.9 SVI: 0.76 LE: 81. IF: 82 5 SVI: 0.02 LE: 77.6 SVI: 0.42 LE: 86.1 SVI: 0 LE: 77.9 SVI: 0.81 SVI: 0.02 LE: 80.5 SVI: 0.03 Legend Low Life Expectancy - High Social Vulnerability High LE Low LE Low SV High Life Expectancy - Low Social Vulnerability napp\Community Health\Health Access.aprx - Life Ex

Figure 10: Life Expectancy with Social Vulnerability Index, City of Sioux Falls

DATA SOURCE: City of Sioux Falls Civic Analytics Using Data from CDC/ATSDR Social Vulnerability Index https://www.atsdr.cdc.gov/placeandhealth/svi/index.html

#### **Years of Potential Life Lost (YPLL)**

In addition to life expectancy, it is possible to examine the impact of disease or accidental deaths on a population by looking at Years of Potential Life Lost (YPLL). This measure estimates the impact of premature deaths on the longevity of a population. Lincoln County has lower (better) YPLL than U.S. and state averages, Minnehaha County is doing better than the state average but worse than the national average, while both McCook and Turner Counties have worse YPLL than state and U.S. averages (Figure 11).

9.300 10.000 8,000 7,300 8,000 6,700 5.400 6,000 4,300 4,000 2,000

Figure 11: Years of Potential Life Lost before Age 75, per 100,000 population

McCook

DATA SOURCE: County, state and national data from the National Center for Health Statistics - Mortality Files 2017-2019. Accessed at countyhealthrankings.org. Sioux Falls MSA data based on Sioux Falls Metropolitan Statistical Area Calculator.

Turner

South Dakota

**United States** 

Minnehaha

# **Leading Causes of Death**

Cerebrovascular Disease

Influenza and Pneumonia

Chronic Liver Disease and Cirrhosis

Suicide

Diabetes

17

16.3

13.5

20

40

10.9

Lincoln

Cancer and heart disease are by far the leading causes of death in the Sioux Falls MSA. The top 10 causes of death are chronic, non-communicable diseases and injuries, except for influenza and pneumonia, which when combined, together rank nine out of 10 (Figure 12). Cardiovascular diseases, which include heart disease and cerebrovascular disease, constitute the leading cause of death both locally, statewide, and nationally.

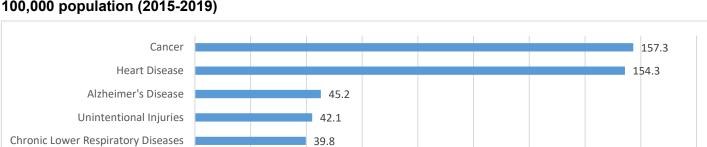


Figure 12: Age-adjusted Mortality Rate for the Leading Causes of Death for the Sioux Falls MSA, per 100,000 population (2015-2019)

DATA SOURCE: Sioux Falls MSA rates based on Sioux Falls Metropolitan Statistical Area Calculator using data from the South Dakota Department of Health Office of Health Statistics. Vital Statistics 2015-2019. 2019 SOUTH DAKOTA VITAL STATISTICS (sd.gov)

60

80

100

120

140

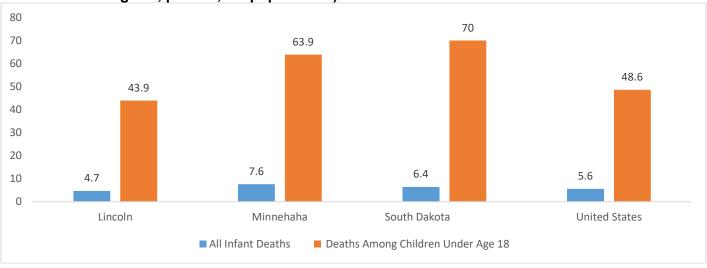
160

180

## **Infant and Child Mortality**

Infant mortality is the death of a child before his or her first birthday, measured as the number of infant deaths for every 1,000 live births. In addition to giving us key information about maternal and infant health, the infant mortality rate is an important marker of the overall health of a society.<sup>38</sup> In 2019, the infant mortality rate in the United States was 5.6 deaths per 1,000 live births (Figure 13). Lincoln County has a lower infant mortality rate, while Minnehaha County's rate is worse than both U.S. and state rates. Along with Minnehaha County, the state of South Dakota has a much higher child mortality rate than the U.S. average.

Figure 13: Infant Mortality (Infant Deaths per 1,000 Live Births) and Child Mortality (Deaths among Children under Age 18, per 100,000 populations)



DATA Source: Centers for Disease Control and Prevention. (2016-2020). CDC Wonder: Mortality Data. National Center for Health Statistics. https://wonder.cdc.gov/

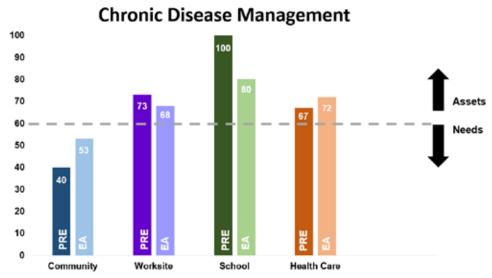
# **CHRONIC NONCOMMUNICABLE DISEASES**

The term Noncommunicable Disease (NCD) refers to a group of conditions, typically not infectious in origin, that result in long-term health consequences and that often create a need for long-term treatment. Common NCDs include cancers, cardiovascular disease, diabetes, and chronic lung illnesses. Many of these diseases can be prevented by reducing common risk factors such as tobacco use, harmful alcohol use, physical inactivity, and unhealthy eating patterns. Many other important health conditions are also considered NCDs, including injuries and mental health disorders.<sup>39</sup> NCDs are the leading cause of death and disability globally, as well as in the U.S., South Dakota, and the Sioux Falls area.

In this section, we discuss the burden of NCDs in the Sioux Falls area.

Using the South Dakota Good and Healthy Community Checklist, representatives from several sectors of the community rated Policy, Regulation, and Environment (PRE) and Education and Awareness (EA) efforts related to Chronic Disease Management. In the following chart (Figure 14), scores over 60 represent an indication of chronic disease management assets, while scores below 60 indicate needs in the area of chronic disease management.

Figure 14: Community Chronic Disease Management Assessment



PRE=Policy, Regulation and Environment EA=Education and Awareness

DATA SOURCE: 2021 Community Health Assessment, South Dakota Good & Healthy Assessment Tool.

#### **Arthritis**

Arthritis is a leading cause of disability, with annual costs for medical care and lost earnings of \$303.5 billion.<sup>40</sup> About one in four adults have been diagnosed with arthritis in the U.S., and similar rates are observed in the Sioux Falls MSA (Figure 15).

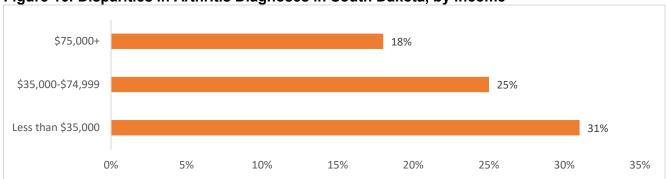
Figure 15: Adults Who Have Been Told They Have Arthritis



DATA SOURCE: Centers for Disease Control and Prevention. (2019). BRFSS Prevalence & Trends Data. National Center for Chronic Disease Prevention and Health Promotion, Division of Population Health. https://www.cdc.gov/brfss/brfssprevalence/

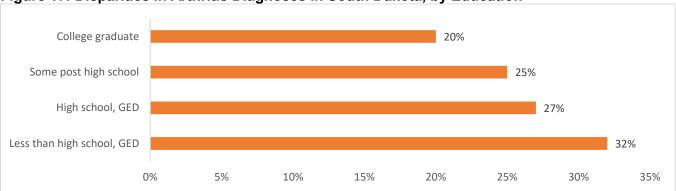
When looking at state-level data for arthritis, there are some evident disparities. People with lower income and fewer years of education have a much higher burden of arthritis in South Dakota (Figure 16 and 17).

Figure 16: Disparities in Arthritis Diagnoses in South Dakota, by Income



DATA SOURCE: South Dakota Department of Health. (2019). Behavioral Risk Factor Surveillance System. Office of Health Statistics. https://doh.sd.gov/statistics/

Figure 17: Disparities in Arthritis Diagnoses in South Dakota, by Education

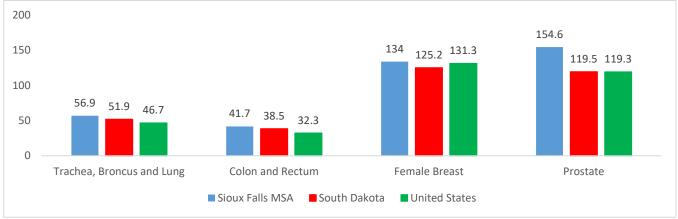


DATA SOURCE: South Dakota Department of Health. (2019). Behavioral Risk Factor Surveillance System. Office of Health Statistics. https://doh.sd.gov/statistics/

#### Cancer

According to the South Dakota Department of Health, each year in South Dakota there are an estimated 4,000 new cancer cases and 1,600 deaths. This translates to, on average, 10-11 new cases and four deaths per day in the state. Cancer remains one of the leading causes of death in the state, and it was only second to cardiovascular disease as the leading cause of death in the Sioux Falls MSA for the period 2015 to 2019. The Sioux Falls MSA has higher age-adjusted incidence rates for the most common cancers in the U.S. (Figure 18).

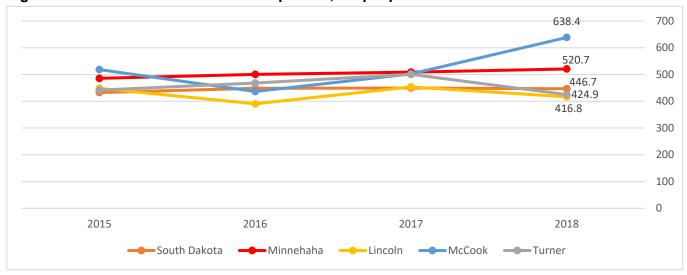




DATA SOURCE: South Dakota Department of Health. (2018). South Dakota Cancer Registry. Get Screened SD. https://getscreened.sd.gov/registry/data/. Sioux Falls MSA data based on Sioux Falls Metropolitan Statistical Area Calculator.

Figure 19 below shows trends in overall cancer incidence in each of the four counties that make up the Sioux Falls MSA. McCook County saw a significant increase in cancer incidence in the period 2016 to 2018.

Figure 19: Rate of all cancer incidence per 100,000 people

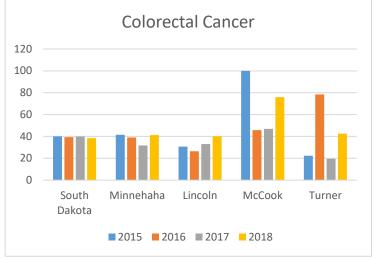


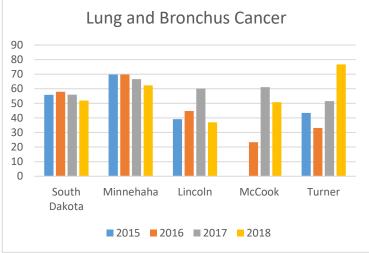
DATA SOURCE: South Dakota Department of Health. (2018). South Dakota Cancer Registry. Get Screened SD. https://getscreened.sd.gov/registry/data/

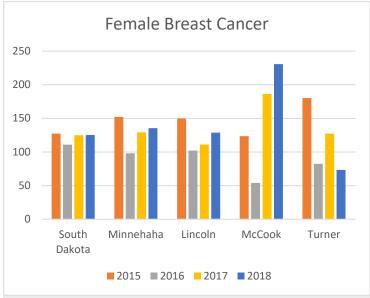


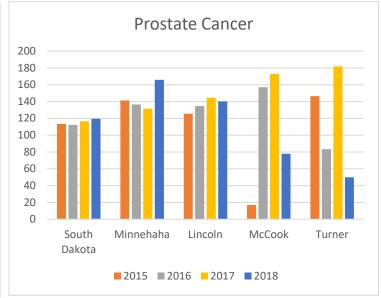
The following graphs (Figure 20) taken from the South Dakota Department of Health Cancer Registry Report show cancer incidence among the four counties of the Sioux Falls MSA. There is variation in incidence rates across the four counties and over time, but no consistent trends or patterns across the board.

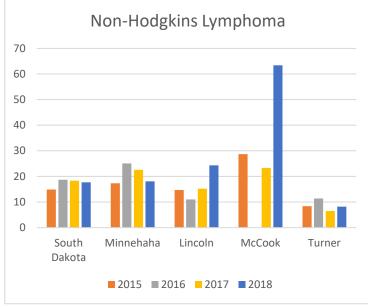
Figure 20: Rates of Most Common Cancers in the Sioux Falls MSA (incidence per 100,000 people)

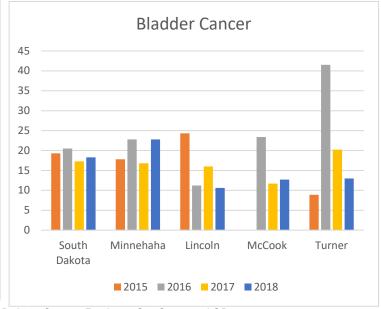








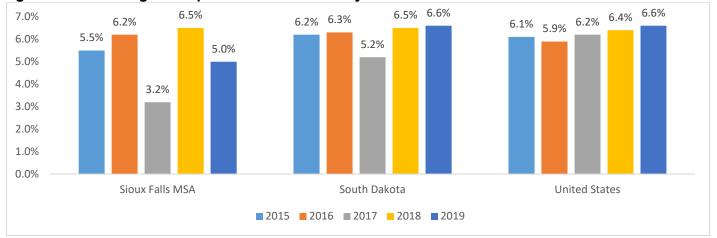




DATA SOURCE: South Dakota Department of Health. (2018). South Dakota Cancer Registry. Get Screened SD. https://getscreened.sd.gov/registry/data/

There are fewer diagnosed cases of skin cancer in the Sioux Falls MSA compared to state and national averages (Figure 21).

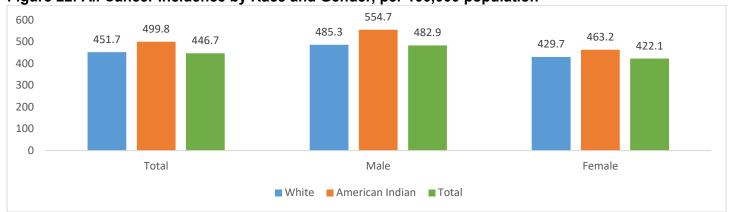
Figure 21: Percentage of Population Ever Told They Have Skin Cancer



DATA SOURCE: Centers for Disease Control and Prevention. (2019). BRFSS Prevalence & Trends Data. National Center for Chronic Disease Prevention and Health Promotion, Division of Population Health. https://www.cdc.gov/brfss/brfssprevalence/

At the state level in South Dakota, data shows that American Indian individuals have a higher incidence rate for cancers than those who are White (Figure 22).

Figure 22: All Cancer Incidence by Race and Gender, per 100,000 population





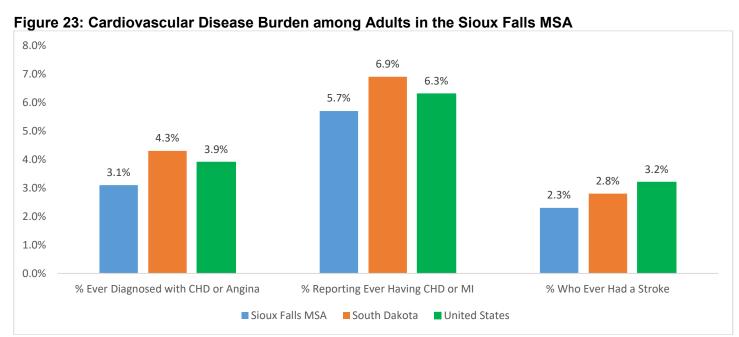
#### **Cardiovascular Disease and Metabolic Risk Factors**

Cardiovascular disease (CVD) is the term for all types of diseases that affect the heart or blood vessels, including:

- Coronary heart disease—a disease of the blood vessels supplying the heart muscle.
- Cerebrovascular disease—a disease of the blood vessels supplying the brain, including stroke, carotid stenosis, vertebral stenosis and intracranial stenosis, aneurysms, and vascular malformations.
- Peripheral arterial disease—a disease of blood vessels supplying the arms and legs.
- Rheumatic heart disease—damage to the heart muscle and heart valves from rheumatic fever.

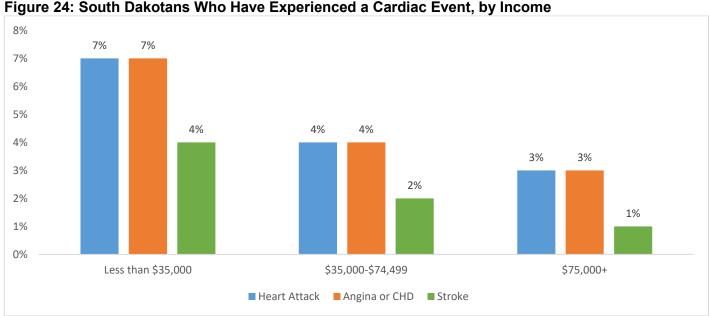
- Congenital heart disease—malformations of the heart structure from birth.
- Deep vein thrombosis and pulmonary embolism—blood clots in the leg veins, which can dislodge and move to the heart and lungs.

CVDs are the leading cause of death for men, women, and people of most racial and ethnic groups in the United States, with one person dying every 36 seconds from CVD.<sup>42</sup> Figure 23 below shows the burden of a select number of CVDs in Sioux Falls MSA. The prevalence of diagnosed coronary heart disease (CHD) or angina, myocardial infarction (MI), and stroke, are lower in the MSA compared to state and national averages.



DATA SOURCE: Centers for Disease Control and Prevention. (2020). BRFSS Prevalence & Trends Data. National Center for Chronic Disease Prevention and Health Promotion, Division of Population Health. https://www.cdc.gov/brfss/brfssprevalence/

There are socioeconomic disparities in the burden of CVD in South Dakota. People with lower income or fewer years of education are more likely to experience a heart attack, angina, CHD, and stroke (Figure 24 and 25).



DATA SOURCE: South Dakota Department of Health. (2019). Behavioral Risk Factor Surveillance System. Office of Health Statistics. https://doh.sd.gov/statistics/

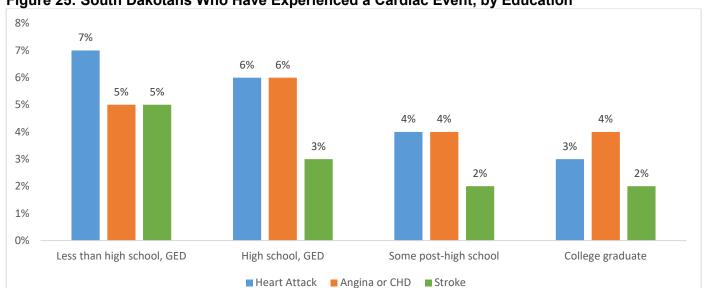
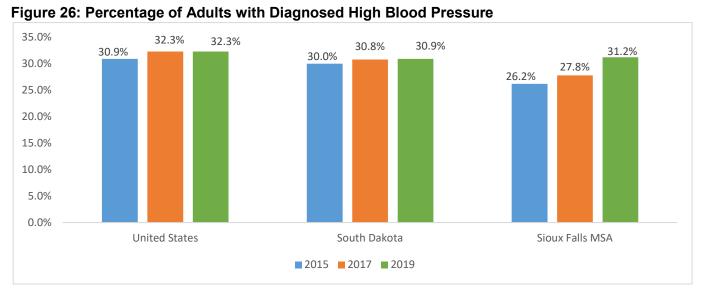


Figure 25: South Dakotans Who Have Experienced a Cardiac Event, by Education

DATA SOURCE: South Dakota Department of Health. (2019). Behavioral Risk Factor Surveillance System. Office of Health Statistics. https://doh.sd.gov/statistics/

Certain health conditions, known as metabolic risk factors, significantly increase the risk of cardiovascular disease. These include hypertension, or high blood pressure, high and altered cholesterol levels, diabetes mellitus, and obesity. There was a steady increase in the proportion of adults diagnosed with hypertension in the Sioux Falls MSA from 2015 and 2019 (Figure 26).



DATA SOURCE: Centers for Disease Control and Prevention. (2020). BRFSS Prevalence & Trends Data. National Center for Chronic Disease Prevention and Health Promotion, Division of Population Health. https://www.cdc.gov/brfss/brfssprevalence/

One in four adults in the Sioux Falls MSA who have had their blood cholesterol checked have been told it was high (Figure 27). Although lower than state and national rates, this points to a significant burden of a major metabolic risk factor for CVD.

35.0% 33.1% 30.0% 28.1% 25.4% 25.0% 20.0% 15.0% 10.0% 5.0% 0.0%

Figure 27: Percentage of Adults with Diagnosed High Blood Cholesterol

Sioux Falls MSA

DATA SOURCE: Centers for Disease Control and Prevention. (2020). BRFSS Prevalence & Trends Data. National Center for Chronic Disease Prevention and Health Promotion, Division of Population Health. https://www.cdc.gov/brfss/brfssprevalence/

Diabetes and obesity are discussed separately below. Other major risk factors for CVD include health behaviors such as tobacco use, not getting enough physical activity, and eating unhealthy diets. These are discussed within the health determinants section of this report.

South Dakota

#### **Diabetes**

Diabetes is a growing public health problem in the Unites States (Figure 28). According to the 2020 National Diabetes Statistics Report, 34.2 million people of all ages—or 10.5 percent of the U.S. population—had diabetes in 2018.43

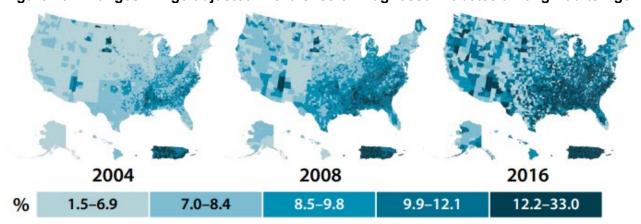


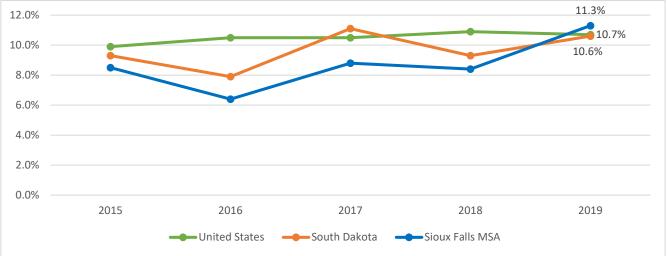
Figure 28: Changes in Age-adjusted Prevalence of Diagnosed Diabetes among Adults Age 20+

DATA SOURCE: Centers for Disease Control and Prevention. (2020). 2020 Estimates of Diabetes and Its Burden in the United States. https://www.cdc.gov/diabetes/pdfs/data/statistics/national-diabetes-statistics-report.pdf

**United States** 

The percentage of adults with diagnosed diabetes went up significantly between 2016 and 2019 for both the state of South Dakota and the Sioux Falls MSA (Figure 29).

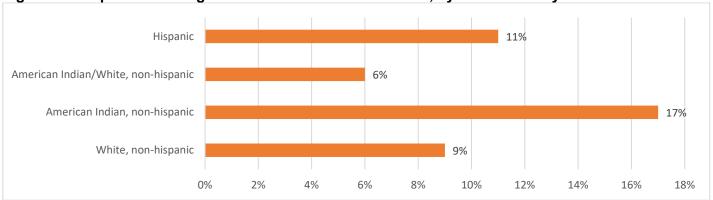




DATA SOURCE: Centers for Disease Control and Prevention. (2019). BRFSS Prevalence & Trends Data. National Center for Chronic Disease Prevention and Health Promotion, Division of Population Health. https://www.cdc.gov/brfss/brfssprevalence/

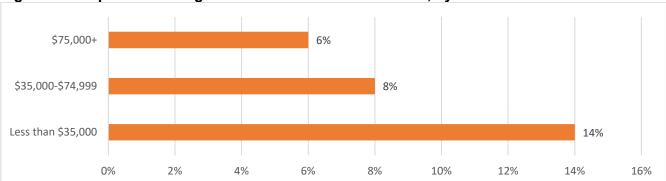
In South Dakota, diabetes rates are nearly double in the American Indian population compared to their White counterparts. Diabetes rates are also higher among the Hispanic population, those with lower income, and those with lower educational attainment (Figures 30, 31 and 32).

Figure 30: Disparities in Diagnosed Diabetes in South Dakota, by Race/Ethnicity



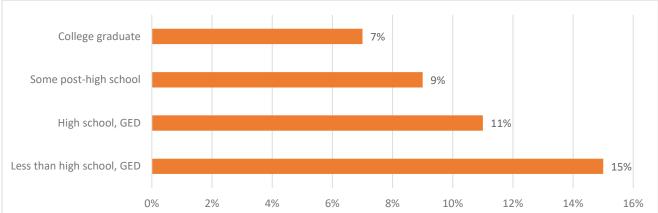
DATA SOURCE: South Dakota Department of Health. (2019). Behavioral Risk Factor Surveillance System. Office of Health Statistics. https://doh.sd.gov/statistics/

Figure 31: Disparities in Diagnosed Diabetes in South Dakota, by Income



DATA SOURCE: South Dakota Department of Health. (2019). Behavioral Risk Factor Surveillance System. Office of Health Statistics. https://doh.sd.gov/statistics/

Figure 32: Disparities in Diagnosed Diabetes in South Dakota, by Education



DATA SOURCE: South Dakota Department of Health. (2019). Behavioral Risk Factor Surveillance System. Office of Health Statistics. https://doh.sd.gov/statistics/

# Obesity

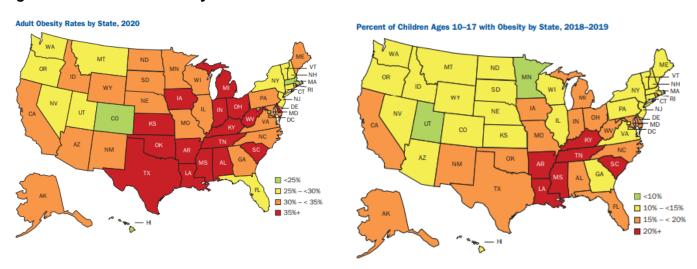
According to the State of Obesity: Better Policies for a Healthier America, an annual report of the Trust for America's Health, obesity is estimated to increase health care spending by \$149 billion annually.44 Research continues to link obesity to other chronic conditions such as cancer, cardiovascular disease and diabetes. And, as evidenced over the past year, obesity is one of the underlying conditions associated with the most serious consequences of COVID-19.

In 2020, 16 states had adult obesity rates at or above 35 percent, up from 12 states the previous year. Rates of childhood obesity are also increasing: 19.3 percent of U.S. young people, ages 2 to 19, have obesity (Figure 33). Youth obesity rates have more than tripled since the mid-1970s, and Black and Latino youth have substantially higher rates of obesity than do their White peers.44

The epidemic of obesity is an urgent problem in the U.S. and has worsened during the COVID-19 pandemic. What is needed are transformational policies and bold investment in programs that reduce health inequities and address the social and economic conditions that are barriers to access to affordable, healthy food and physical activity.

- J. NADINE GRACIA, MD, MSCE, PRESIDENT AND CEO OF TRUST FOR AMERICA'S HEALTH.44

Figure 33: State-level Obesity Rates in the United States



DATA SOURCE: Trust for America's Health. (2021). State of Obesity 2021: Better Policies for a Healthier America. https://www.tfah.org/report-details/state-of-obesity-2021/

Since the start of the pandemic, 42 percent of adults in the U.S. experienced weight gain. The average self-reported gain among U.S. adults was 29 pounds. 45

In the Sioux Falls MSA, 35.5 percent of the adult population were estimated to be obese as of 2019. This was a significant jump from the prior three years, during which the obesity rates were in the range of 28 percent to 29 percent (Figure 34).

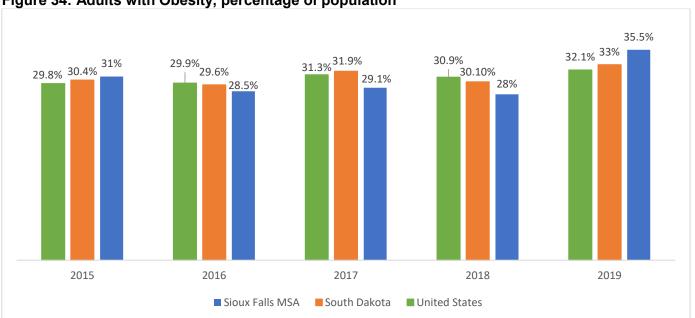
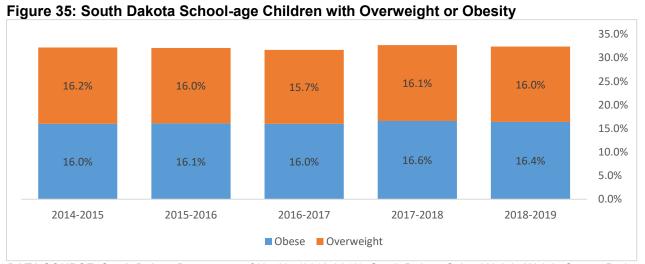


Figure 34: Adults with Obesity, percentage of population

DATA SOURCE: Centers for Disease Control and Prevention. (2019). BRFSS Prevalence & Trends Data. National Center for Chronic Disease Prevention and Health Promotion, Division of Population Health. https://www.cdc.gov/brfss/brfssprevalence/

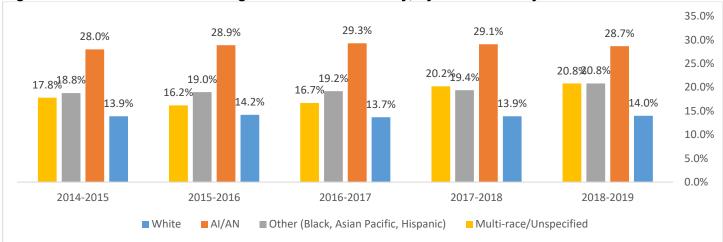
One out of every three school-age children in South Dakota is overweight or obese (Figure 35). Children who are obese are more likely to be obese as adults. To reduce obesity rates among adults in the future, effective interventions need to be implemented among today's children.



DATA SOURCE: South Dakota Department of Health. (2018-2019). South Dakota School Height Weight Survey Project. https://doh.sd.gov/statistics/school-height-weight.aspx

There are disparities in childhood obesity in South Dakota. Rates are much higher for American Indian/Alaskan Native populations, followed by other racial/ethnic minority groups relative to the White population. (Figure 36)

Figure 36: South Dakota School-age Children with Obesity, by Race/Ethnicity



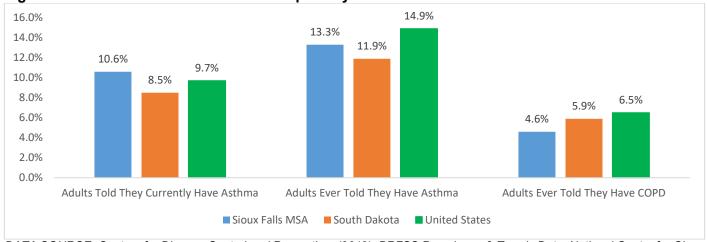
DATA SOURCE: South Dakota Department of Health. (2018-2019). South Dakota School Height Weight Survey Project. https://doh.sd.gov/statistics/school-height-weight.aspx

## **Chronic Lower Respiratory Diseases**

Chronic lower respiratory diseases (CLRDs) are a group of conditions that affect the lungs and are characterized by shortness of breath caused by airway obstruction. CLRDs comprise mainly of asthma and chronic obstructive pulmonary disease (COPD), which includes emphysema and chronic bronchitis. In addition to their major risk factor—tobacco smoke—other risk factors include air pollution, occupational chemicals, and dusts.<sup>46</sup>

Asthma rates are higher in Sioux Falls compared to the state average, while COPD rates are lower in the MSA (Figure 37).

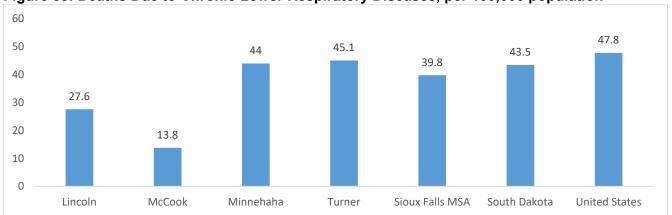
Figure 37: Adults with Chronic Lower Respiratory Disease



DATA SOURCE: Centers for Disease Control and Prevention. (2019). BRFSS Prevalence & Trends Data. National Center for Chronic Disease Prevention and Health Promotion, Division of Population Health. https://www.cdc.gov/brfss/brfssprevalence/

The death rate due to CRDs was slightly lower in the MSA when compared to both the state and national rates (Figure 38).

Figure 38: Deaths Due to Chronic Lower Respiratory Diseases, per 100,000 population



DATA SOURCE for SD and Counties: South Dakota Department of Health Office of Health Statistics. (2019). Sioux Falls MSA data based on Sioux Falls Metropolitan Statistical Area Calculator. U.S. Data Source: Centers for Disease Control and Prevention. (2016-2020). CDC Wonder: Mortality Data. National Center for Health Statistics. https://wonder.cdc.gov/

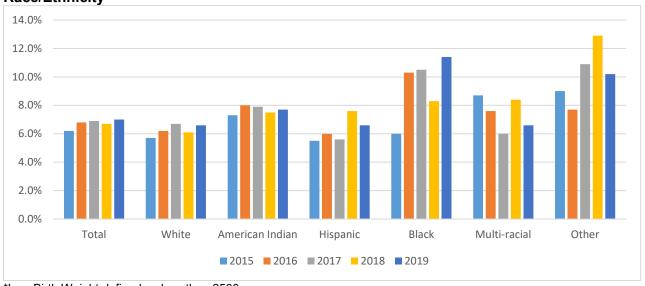
#### **Maternal and Child Health**

When considering the health of individuals and communities, it is important to pay attention to the health status of mothers, infants, and children because their well-being determines the health of the next generation and can help predict future public health challenges.<sup>47</sup> Factors that impact maternal and child health include access to prenatal and wellchild care, newborn screenings, mental health, child immunizations and child nutrition.

While there is limited local data on maternal and child health indicators, state-level data point to disparities among racial/ethnic groups in South Dakota. According to South Dakota Vital Statistics 2019:

- Low birth weight is higher for racial/ethnic minorities in general, and nearly doubles for infants born to Black, non-Hispanic mothers compared to White, non-Hispanic mothers (Figure 39).
- Teen birth rates are higher for racial/ethnic minorities and particularly worse among American Indian and Hispanic populations (Figure 40).
- American Indian mothers are more likely to start prenatal care later or forego prenatal care during their entire pregnancy than mothers of other races. (Figure 41).

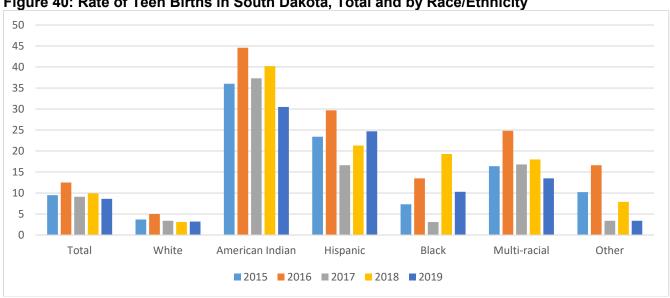
Figure 39: Percent of Total Live Births in South Dakota Considered Low Birth Weight\*, Total and By Race/Ethnicity



\*Low Birth Weight defined as less than 2500g.

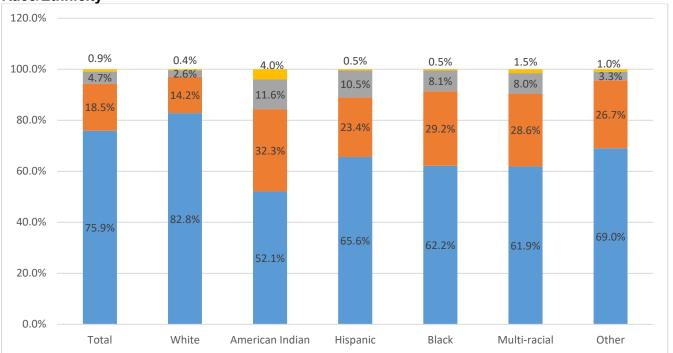
DATA SOURCE: South Dakota Department of Health. 2019 South Dakota Vital Statistics https://doh.sd.gov/statistics/2019Vital/6\_Natality.pdf

Figure 40: Rate of Teen Births in South Dakota, Total and by Race/Ethnicity



DATA SOURCE: South Dakota Department of Health. (2019). South Dakota Vital Statistics. https://doh.sd.gov/statistics/2019Vital/6\_Natality.pdf

Figure 41: Percent of Live Births in South Dakota by Trimester Prenatal Care Began and Mother's Race/Ethnicity



#### **Oral Health**

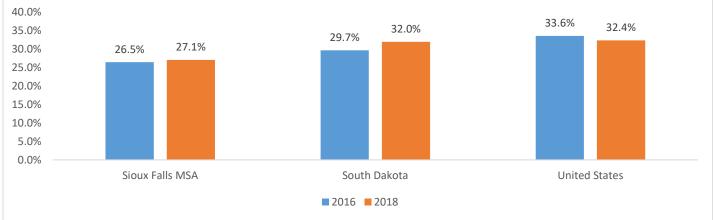
According to the World Health Organization, oral diseases are exceedingly prevalent, burdensome, and costly to treat.<sup>48</sup> However, much of this burden of disease is preventable or treatable if caught early. Common oral diseases are dental caries (decay), periodontal disease (gum disease), and oral cancer. Alcohol consumption, tobacco use, and a diet high in sugar are primary risk factors for oral disease.

Practicing good oral care at home and keeping routine dental visits are critical to maintaining good oral health. If left untreated, oral conditions can have major negative consequences such as infection, pain, difficulty chewing and speaking, sleep impairment, and loss of work and school hours among adults and

children.<sup>49</sup> Poor oral health conditions also impact many systemic conditions such as diabetes, cardiovascular disease, pulmonary disease, and pregnancy.<sup>50</sup>

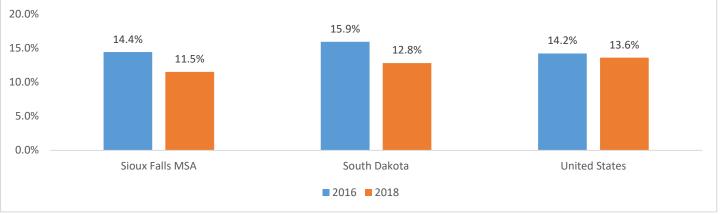
In the Sioux Falls MSA, 27 percent of adults report not keeping at least an annual dental visit (Figure 42). One out of every three adults have lost at least one permanent tooth, and 12 percent of adults age 65 and older have lost all of their natural teeth (Figures 43 and 44). While these figures are slightly better than state and national rates, they point to a poor state of oral health and gaps in uptake of preventive oral care services among adults. Cost, fear, and no perceived need to visit the dentist are three common reasons for avoiding dental care cited among South Dakota adults.5

Figure 42: Adults Who Have Not Visited the Dentist in the Past Year 40.0%



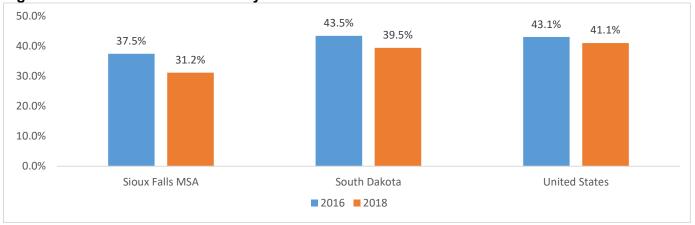
DATA SOURCE: Centers for Disease Control and Prevention. (2018). BRFSS Prevalence & Trends Data. National Center for Chronic Disease Prevention and Health Promotion, Division of Population Health. https://www.cdc.gov/brfss/brfssprevalence/

Figure 43: Adults Aged 65+ Who Have Had All Their Natural Teeth Extracted



DATA SOURCE: Centers for Disease Control and Prevention. (2018). BRFSS Prevalence & Trends Data. National Center for Chronic Disease Prevention and Health Promotion, Division of Population Health. https://www.cdc.gov/brfss/brfssprevalence/

Figure 44: Adults That Have Had Any Permanent Teeth Extracted



DATA SOURCE: Centers for Disease Control and Prevention. (2018). BRFSS Prevalence & Trends Data. National Center for Chronic Disease Prevention and Health Promotion, Division of Population Health. https://www.cdc.gov/brfss/brfssprevalence/

There is evidence of poor oral health among children in South Dakota and the Sioux Falls area. For example, 56.5 percent of third grade children in South Dakota have a history of dental decay. The 2019 Youth Risk Behavior Survey showed that 20 percent of South Dakota high school students had missed school in the past 12 months because of problems with their teeth or mouth.

Data collected through three school-based dental clinics in the Sioux Falls School District9 show that:

 20 percent of the general population of elementary school students screened in 2021 had signs of obvious or probable tooth decay on visual examination.  56.2 percent of elementary school students enrolled in dental services at the three schoolbased clinics in 2021 already have dental decay.

Furthermore, 83.9 percent of all patients (adults and children) that received a dental examination at Falls Community Health (FCH) in 2021 were classified as having a moderate to high risk of dental caries. FCH is the major safety net clinic in Sioux Falls that seeks to provide access to comprehensive primary medical and dental care for all individuals regardless of their background or ability to pay.

While many improvements have occurred in the nation's oral health care system, lack of access to dental care among all ages remains a challenge.

# **INJURY AND ACCIDENTAL DEATH**

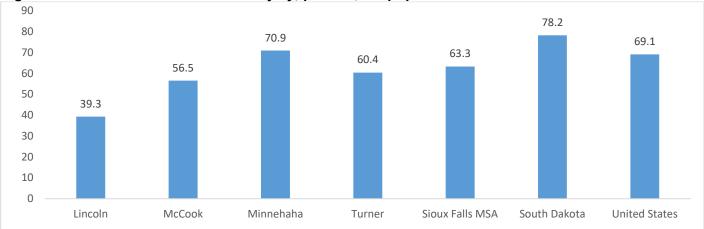
According to the CDC, more Americans die in the first half of life from injuries and violence, such as motor vehicle crashes, suicide, or homicides, than from any other cause. 10 Among those 1-44 years in the U.S.:

- Unintentional injuries, such as unintentional poisoning (including opioid overdoses), motor vehicle crashes, and unintentional falls, are the leading cause of death.
- Suicide is the second leading cause of death, and suicide rates continue to rise.

 Homicide remains in the top five leading causes of death.

In the Sioux Falls MSA, death rate from injuries (intentional and unintentional, combined) is lower than the state and national rates (Figure 45). However, rates vary among the four counties, with the highest rate seen in Minnehaha County, which exceeds the national average.



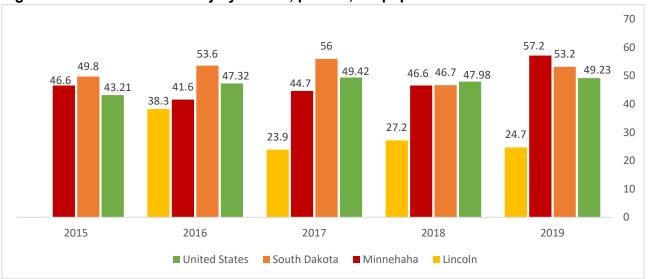


DATA SOURCE: Centers for Disease Control and Prevention. (2019). Web-based Injury Statistics Query and Reporting System (WISQARS). Injury Prevention & Control. https://www.cdc.gov/injury/wisqars/index.html. Sioux Falls MSA data based on Sioux Falls Metropolitan Statistical Area Calculator.

# **Unintentional Injury**

Looking specifically at unintentional injury deaths, Lincoln County's rate is half of the national average, while Minnehaha County's rate now exceeds both state and national rates (Figure 46).

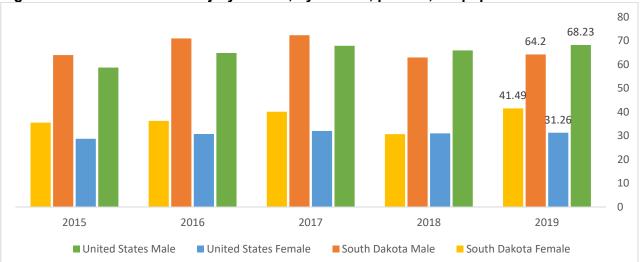
Figure 46: All Unintentional Injury Deaths, per 100,000 population



DATA SOURCE: Centers for Disease Control and Prevention. (2019). Web-based Injury Statistics Query and Reporting Syste (WISQARS). Injury Prevention & Control. https://www.cdc.gov/injury/wisqars/index.html

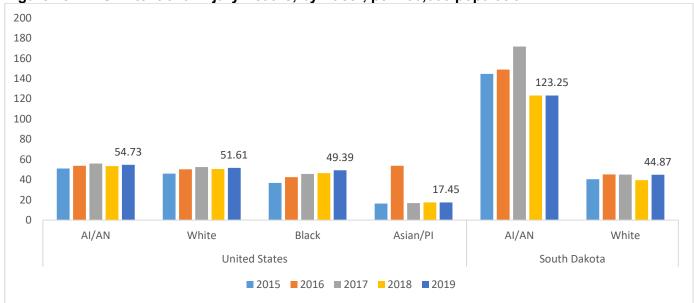
Disparities are seen in unintentional injury deaths at the state level in South Dakota, with higher rates for males compared to females and for the American Indian population compared to the White population (Figure 47 and 48).





DATA SOURCE: Centers for Disease Control and Prevention. (2019). Web-based Injury Statistics Query and Reporting System (WISQARS). Injury Prevention & Control. https://www.cdc.gov/injury/wisqars/index.html

Figure 48: All Unintentional Injury Deaths, by Race\*, per 100,000 population

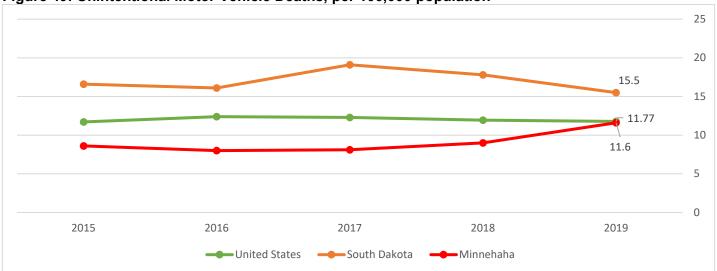


\*South Dakota statistics for Black and Asian/Pacific Islander are not available DATA SOURCE: Centers for Disease Control and Prevention. (2019). Web-based Injury Statistics Query and Reporting System (WISQARS). Injury Prevention & Control. https://www.cdc.gov/injury/wisgars/index.html

Motor vehicle crashes are a leading cause of unintentional deaths, particularly among young people. As population increases, that also increases the number of cars on the road. A 2019 data report showed that in the U.S. there were 276.5 million vehicles, 231 million licensed drivers, and more than three trillion miles driven annually.<sup>52</sup> According to the National Safety Council, the top three causes of fatalities on the road are alcohol, speeding, and lack of seat belt use.

Minnehaha County's rate of unintentional motor vehicle deaths has risen slowly over the last few years to catch up with the U.S. average rate, while the South Dakota rate remains higher than both (Figure 49). Comparable data was not available for other counties in the MSA.

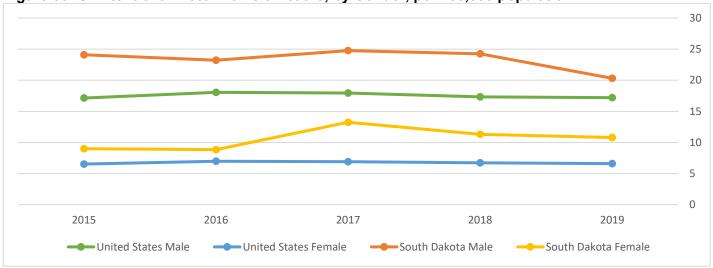
Figure 49: Unintentional Motor Vehicle Deaths, per 100,000 population



DATA SOURCE: Centers for Disease Control and Prevention. (2019). Web-based Injury Statistics Query and Reporting System (WISQARS). Injury Prevention & Control. https://www.cdc.gov/injury/wisqars/index.html

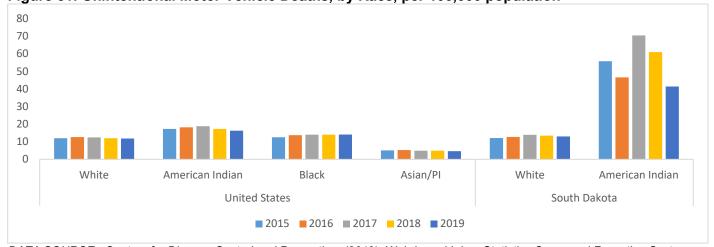
Similar to the trend for unintentional injuries overall, males are more likely to die from motor vehicle accidents and American Indians have a higher risk than their White counterparts (Figure 50 and 51).

Figure 50: Unintentional Motor Vehicle Deaths, by Gender, per 100,000 population



DATA SOURCE: Centers for Disease Control and Prevention. (2019). Web-based Injury Statistics Query and Reporting System (WISQARS). Injury Prevention & Control. https://www.cdc.gov/injury/wisqars/index.html

Figure 51: Unintentional Motor Vehicle Deaths, by Race, per 100,000 population

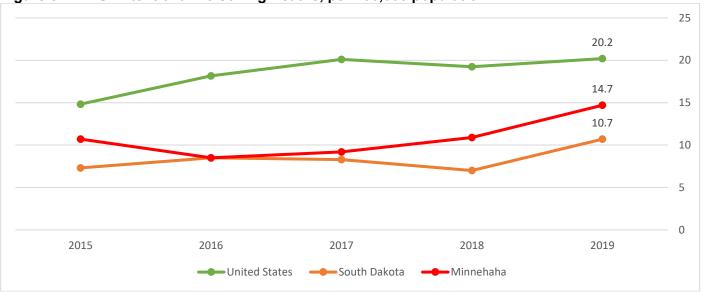


DATA SOURCE: Centers for Disease Control and Prevention. (2019). Web-based Injury Statistics Query and Reporting System (WISQARS). Injury Prevention & Control. https://www.cdc.gov/injury/wisqars/index.html

The CDC defines a poison as a "substance, including medications, that is harmful to your body if too much is eaten, inhaled, injected, or absorbed through the skin," and uses unintentional poisoning to refer to a situation in which "a person taking or giving too much of a substance did not mean to cause harm." 53

Death from unintentional poisoning is trending upwards at the county (Minnehaha), state, and national levels (Figure 52). However, local and state rates are significantly lower than the national average.

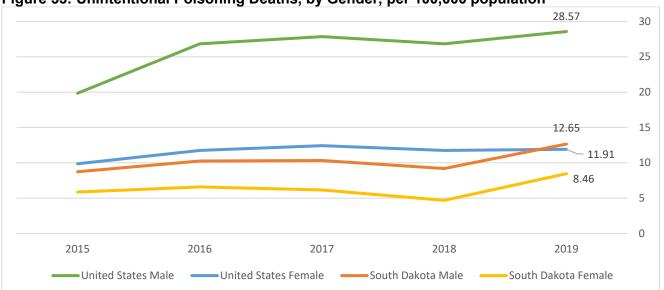
Figure 52: All Unintentional Poisoning Deaths, per 100,000 population



DATA SOURCE: Centers for Disease Control and Prevention. (2019). Web-based Injury Statistics Query and Reporting System (WISQARS). Injury Prevention & Control. https://www.cdc.gov/injury/wisqars/index.html

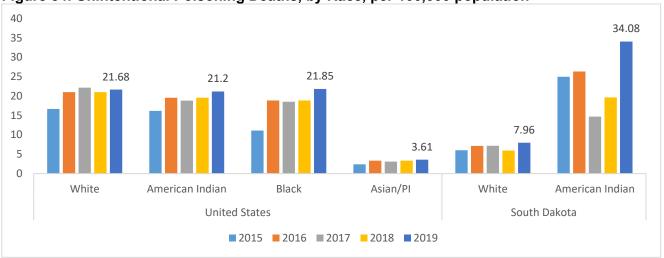
As can be seen in Figures 53 and 54, unintentional poisoning deaths are more likely to occur among males and American Indians.

Figure 53: Unintentional Poisoning Deaths, by Gender, per 100,000 population



DATA SOURCE: Centers for Disease Control and Prevention. (2019). Web-based Injury Statistics Query and Reporting System (WISQARS). Injury Prevention & Control. https://www.cdc.gov/injury/wisqars/index.html





\*South Dakota statistics for Black and Asian/Pacific Islander are not available DATA SOURCE: Centers for Disease Control and Prevention. (2019). Web-based Injury Statistics Query and Reporting System (WISQARS). Injury Prevention & Control. https://www.cdc.gov/injury/wisqars/index.html

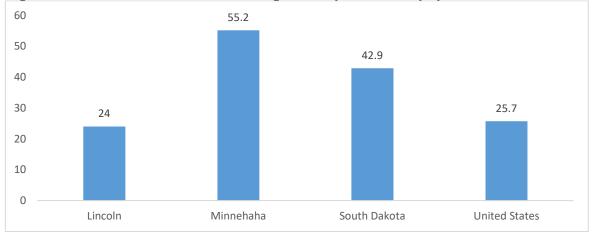
Millions of Americans aged 65 and older fall every year, and falls occur in as many as one out of every four older people. Falls can cause serious injury, including traumatic brain injury, resulting in costly emergency department visits, hospitalizations, and even death.<sup>54</sup>

A 2018 report on older South Dakotans indicated that the number of deaths from falls among adults age 65 and older increased significantly in South Dakota between 2007 and 2016.55 It is important to note than

falls are not just a consequence of aging, as individuals under age 65 have reported injuries from falls that required them to limit regular activities for at least a day, or to visit a doctor.

Whereas the unintentional fall death rate in Lincoln County is similar to the national average, the rate in Minnehaha County is more than double the national rate (Figure 55).

Figure 55: Unintentional Fall Deaths, ages 45+, per 100,000 population, 2015-2019



DATA SOURCE: Centers for Disease Control and Prevention. (2019). Web-based Injury Statistics Query and Reporting System (WISQARS). Injury Prevention & Control. https://www.cdc.gov/injury/wisqars/index.html

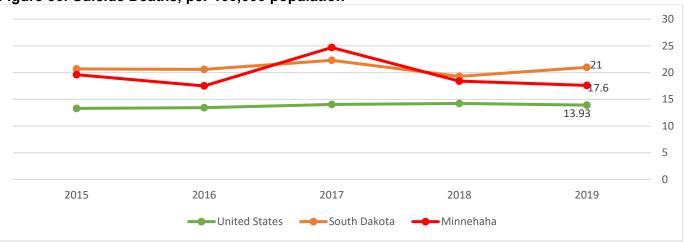
# Suicide

Suicide is defined as death caused by self-directed injurious behavior with intent to die as a result of the behavior.<sup>56</sup> According to the CDC's injury statistics reporting system, in 2019:

- Suicide was the tenth leading cause of death overall in the United States, claiming the lives of over 47,500 people.
- Suicide was the second leading cause of death among individuals between the ages of 10 and 34, and the fourth leading cause of death among individuals between the ages of 35 and 44.

Rates of death by suicide are higher locally (Minnehaha County) and in the state of South Dakota than the national average (Figure 56).

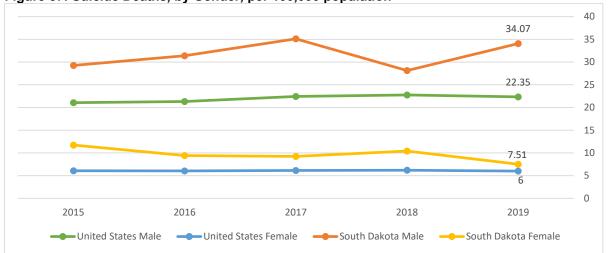
Figure 56: Suicide Deaths, per 100,000 population



DATA SOURCE: Centers for Disease Control and Prevention. (2019). Web-based Injury Statistics Query and Reporting System (WISQARS). Injury Prevention & Control. https://www.cdc.gov/injury/wisqars/index.html

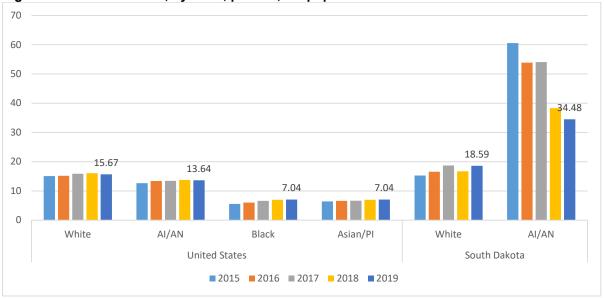
Similar to trends for unintentional injuries, males are more likely to die by suicide in South Dakota and the U.S., and American Indians in South Dakota have a higher risk than their White counterparts (Figure 57 and 58). However, the rate of suicide deaths among the American Indian population in South Dakota is trending downward.

Figure 57: Suicide Deaths, by Gender, per 100,000 population



DATA SOURCE: Centers for Disease Control and Prevention. (2019). Web-based Injury Statistics Query and Reporting System (WISQARS). Injury Prevention & Control. https://www.cdc.gov/injury/wisqars/index.html

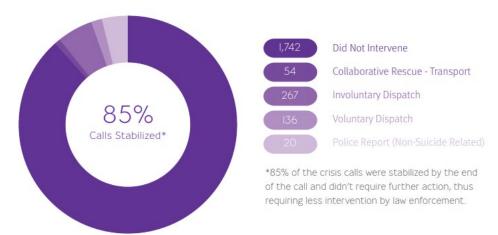
Figure 58: Suicide Deaths, by Race, per 100,000 population



\*South Dakota statistics for Black and Asian/Pacific Islander are not available DATA SOURCE: Centers for Disease Control and Prevention. (2019). Web-based Injury Statistics Query and Reporting System (WISQARS). Injury Prevention & Control. https://www.cdc.gov/injury/wisqars/index.html

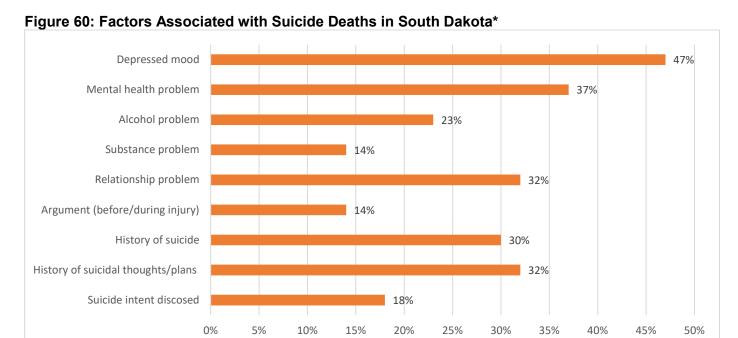
Locally, the Helpline Center reported 2,045 suicide-related contacts in 2020, which include calls, texts, and emails received from 211 and 1-800-273-8255 (Figure 59).

Figure 59: Suicide-related Contacts through the Helpline Center



DATA SOURCE: Helpline Center. (2020). 211 Data Snapshot 2020. https://www.helplinecenter.org/wp-content/uploads/HLCRD-SD-Data-Snapshot.pdf?nc994

The figures below (Figures 60 and 61) show contributing circumstances surrounding suicide and life stressors for those who died by suicide. It is important to note that persons who died by suicide may have had multiple contributing circumstances. For example, an individual may have been experiencing depression and relationship problems, which is why the numbers in the charts may total above or below 100 percent. Additionally, it is possible that other circumstances could have been present and not diagnosed, known, or reported.



<sup>\*</sup> Contributing circumstances surrounding suicide deaths were documented in the records by coroners and/or law enforcement and multiple factors (or no factors) could have been documented. DATA SOURCE: South Dakota Department of Health. (2019). South Dakota Violent Death Reporting System. https://doh.sd.gov/documents/statistics/2019SD-VDRSDataReport.pdf

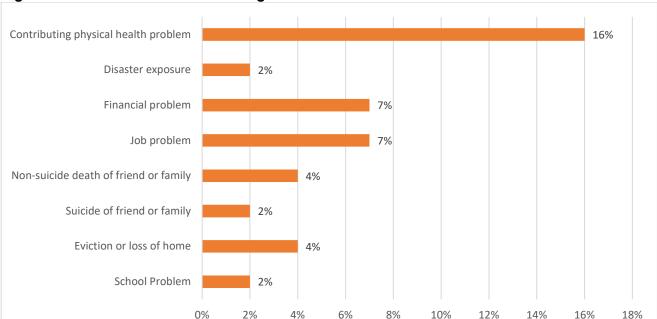


Figure 61: Life Stressors Contributing to Suicide Deaths in South Dakota\*

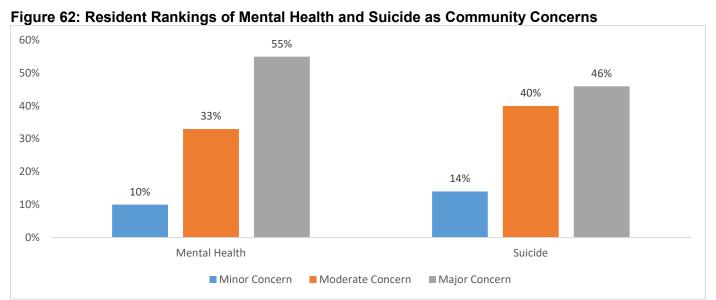
DATA SOURCE: South Dakota Department of Health. (2019). South Dakota Violent Death Reporting System. https://doh.sd.gov/documents/statistics/2019SD-VDRSDataReport.pdf

#### MENTAL HEALTH AND SUBSTANCE ABUSE

Research shows that mental illnesses are common in the United States, affecting tens of millions of people each year. Estimates suggest that only half of people with mental illnesses receive treatment.<sup>57</sup> Mental health is an essential part of overall well-being because it is necessary for individuals to maintain fulfilling relationships with others, to adapt to change, to cope with challenges, and to participate in health-promoting behaviors.

Substance use and abuse can negatively impact mental and physical health and well-being. Many individuals also resort to using substances as a coping mechanism for dealing with health and other life challenges. Thus, mental health and substance use disorders often present as challenges handled by behavioral health services. According to the National Institute on Drug Abuse (NIDA), the abuse of tobacco, alcohol, and illicit drugs in the U.S. results in more than \$740 billion annually in costs related to crime, lost work productivity, and health care.<sup>58</sup>

Mental health and related topics were frequently mentioned during the 2021 Community Health Assessment Focus Group discussions as top health issues facing the community. In addition, more than half of residents responding to the National Community Survey named mental health as a "major concern" for the community (Figure 62).



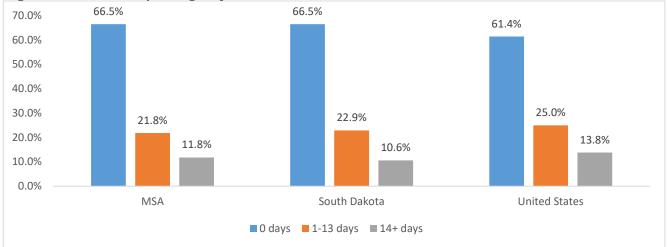
DATA SOURCE: Sioux Falls, SD The National Community Survey Report of Results 2021. The National Research Center. Accessed at https://www.siouxfalls.org/council/community-survey/survey-results/21-report-of-results

<sup>\*</sup>Life stressors contributing to suicide deaths were documented in the records by coroners and/or law enforcement and multiple stressors (or no stressors) could have been documented.

The CDC's Behavioral Risk Factor Surveillance System asks adults to indicate the number of days within a month when they felt their mental health status was "not good." One in three adults in the Sioux Falls MSA report at least one or more days with poor mental health status in a month; two-thirds of people in this

group report being mentally unhealthy less than half of the month (one to 13 days), while one-third of them report being mentally unhealthy for at least half of the days in the month (14 or more days). These rates are comparable to the state average in South Dakota but slightly better than the U.S. average (Figure 63).

Figure 63: Adults Reporting Days in a Month When Their Mental Health Status Was "Not Good"



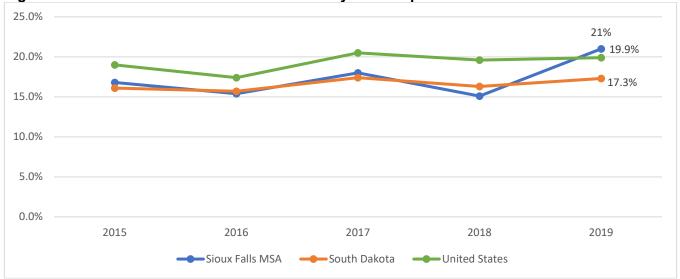
DATA SOURCE: Centers for Disease Control and Prevention. (2019). BRFSS Prevalence & Trends Data. National Center for Chronic Disease Prevention and Health Promotion, Division of Population Health. https://www.cdc.gov/brfss/brfssprevalence/

#### **Depression**

In the Sioux Falls MSA, 20 percent of adults report that they have been diagnosed with depression.<sup>4</sup> This is comparable to the U.S. average but higher than the

average for South Dakota. The percentage of adults diagnosed with depression has also been trending upwards in the Sioux Falls MSA and South Dakota. (Figure 64).

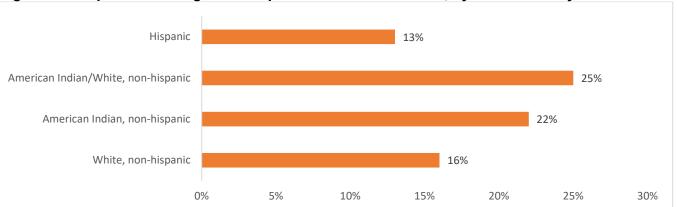
Figure 64: Adults Who Have Ever Been Told They Have Depression



DATA SOURCE: Centers for Disease Control and Prevention. (2019). BRFSS Prevalence & Trends Data. National Center for Chronic Disease Prevention and Health Promotion, Division of Population Health. https://www.cdc.gov/brfss/brfssprevalence/

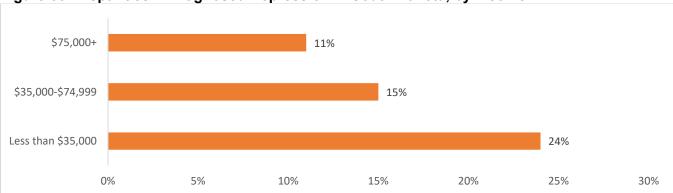
In South Dakota, depression rates vary by race/ethnicity, income level, employment status, and marital status (Figures 65-68). American Indians, lower income earners, individuals unable to work or who are unemployed, and adults who are divorced or separated report higher depression rates.

Figure 65: Disparities in Diagnosed Depression in South Dakota, by Race/Ethnicity



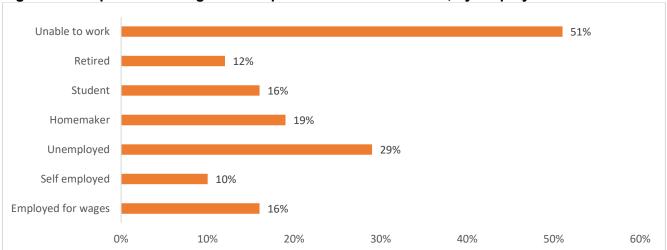
DATA SOURCE: South Dakota Department of Health. (2019). Behavioral Risk Factor Surveillance System. Office of Health Statistics. https://doh.sd.gov/statistics/

Figure 66: Disparities in Diagnosed Depression in South Dakota, by Income



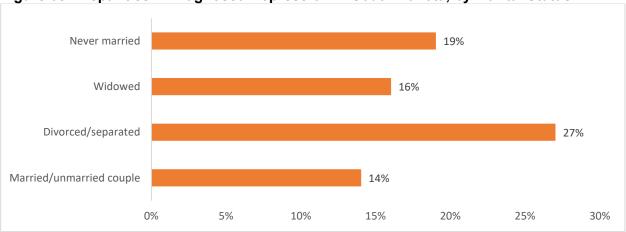
DATA SOURCE: South Dakota Department of Health. (2019). Behavioral Risk Factor Surveillance System. Office of Health Statistics. https://doh.sd.gov/statistics/

Figure 67: Disparities in Diagnosed Depression in South Dakota, by Employment Status



DATA SOURCE: South Dakota Department of Health. (2019). Behavioral Risk Factor Surveillance System. Office of Health Statistics. https://doh.sd.gov/statistics/

Figure 68: Disparities in Diagnosed Depression in South Dakota, by Marital Status



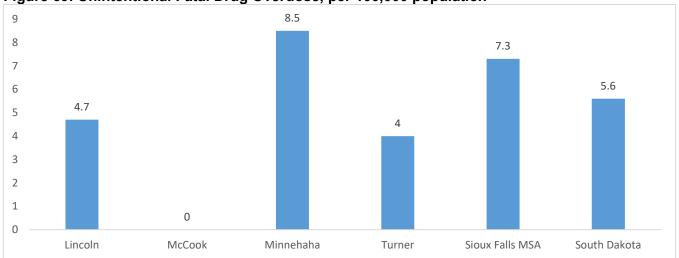
DATA SOURCE: South Dakota Department of Health. (2019). Behavioral Risk Factor Surveillance System. Office of Health Statistics. https://doh.sd.gov/statistics/

## **Substance Use**

In 2020, drug overdose deaths in the United States increased by nearly 30 percent over the previous year, reaching an all-time high of more than 93,000.59 Opioids were involved in nearly three-quarters of all drug overdose deaths, and the majority of opioid deaths were linked to use of synthetic opioids such

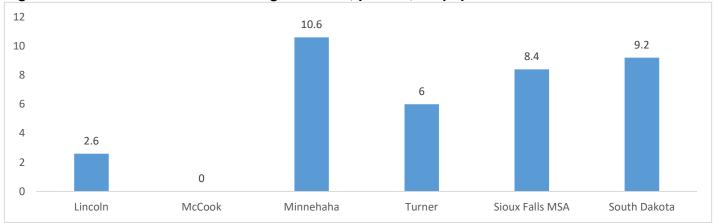
as fentanyl, followed by psychostimulants such as methamphetamine. Drug overdose incidents and substance use treatment admissions are higher in the Sioux Falls MSA compared to the state average (Figures 69-71). At the individual county level, Minnehaha County is primarily driving the high rates in the MSA.

Figure 69: Unintentional Fatal Drug Overdose, per 100,000 population



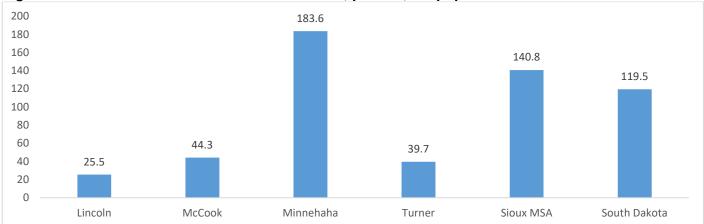
DATA SOURCE: South Dakota Department of Health. (2019). Vulnerability Assessment. Health Data and Statistics. Vulnerability Assessment. https://doh.sd.gov/statistics/vulnerabilityassessment.aspx. Sioux Falls MSA data based on Sioux Falls Metropolitan Statistical Area Calculator.

Figure 70: Unintentional Non-fatal Drug Overdose, per 100,000 population



DATA SOURCE: South Dakota Department of Health. (2019). Vulnerability Assessment. Health Data and Statistics. Vulnerability Assessment. https://doh.sd.gov/statistics/vulnerabilityassessment.aspx. Sioux Falls MSA data based on Sioux Falls Metropolitan Statistical Area Calculator.

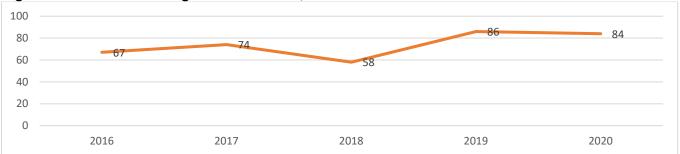
Figure 71: Substance Use Treatment Admissions, per 100,000 population



DATA SOURCE: South Dakota Department of Health. (2019). Vulnerability Assessment. Health Data and Statistics. Vulnerability Assessment. https://doh.sd.gov/statistics/vulnerabilityassessment.aspx. Sioux Falls MSA data based on Sioux Falls Metropolitan Statistical Area Calculator.

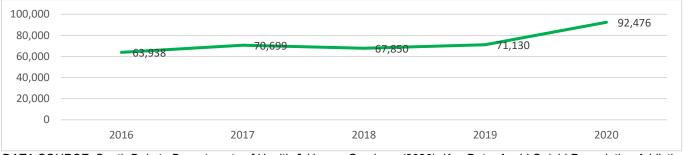
At the state level, both opioid and overall drug-related deaths went up between 2016 and 2020. Although drug-related deaths remain a public health challenge in South Dakota, the state is not as impacted as some other places in the United States, as reflected in the national statistics (Figures 72-75).

Figure 72: Total of All Drug Related Deaths, South Dakota



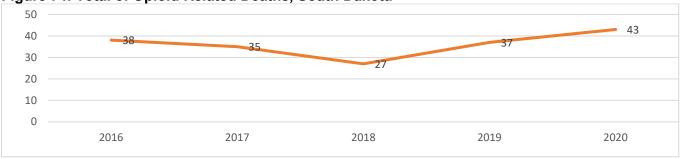
DATA SOURCE: South Dakota Departments of Health & Human Services. (2020). Key Data. Avoid Opioid Prescription Addiction. https://www.avoidopioidsd.com/key-data/

Figure 73: Total of All Drug Related Deaths, United States



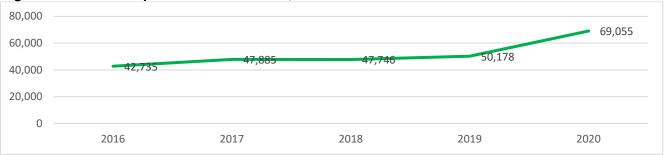
DATA SOURCE: South Dakota Departments of Health & Human Services. (2020). Key Data. Avoid Opioid Prescription Addiction. https://www.avoidopioidsd.com/key-data/

Figure 74: Total of Opioid Related Deaths, South Dakota



DATA SOURCE: South Dakota Departments of Health & Human Services. (2020). Key Data. Avoid Opioid Prescription Addiction. https://www.avoidopioidsd.com/key-data/

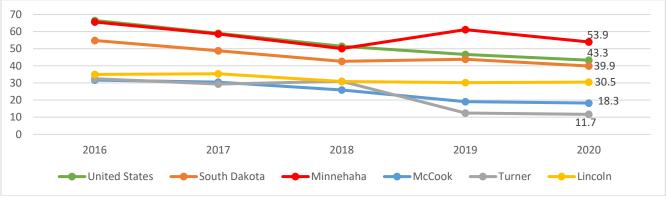
Figure 75: Total of Opioid Related Deaths, United States



DATA SOURCE: South Dakota Departments of Health & Human Services. (2020). Key Data. Avoid Opioid Prescription Addiction. https://www.avoidopioidsd.com/key-data/

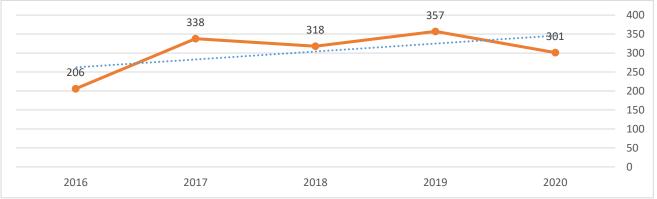
Progress is being made in combatting the opioid crisis in South Dakota. First, opioid dispensing rates have been trending downward in the state, including counties in the Sioux Falls MSA (Figure 76). Second, there has been a gradual increase in the number of individuals (Figure 76) receiving treatment for Opioid Use Disorder (OUD).

Figure 76: Opioid Dispensing Rates, per 100,000 population



DATA SOURCE: South Dakota Departments of Health & Human Services. (2020). Key Data. Avoid Opioid Prescription Addiction. https://www.avoidopioidsd.com/key-data/. Sioux Falls MSA data based on Sioux Falls Metropolitan Statistical Area Calculator.

Figure 77: Clients in South Dakota with Opioid Use Disorder (OUD) Receiving Publicly Funded **Treatment Services** 



DATA SOURCE: South Dakota Departments of Health & Human Services. (2020). Key Data. Avoid Opioid Prescription Addiction. https://www.avoidopioidsd.com/key-data/

## **COMMUNICABLE DISEASES**

Communicable diseases are illnesses caused by infectious organisms, like viruses or bacteria that people spread to one another through contact with contaminated surfaces, bodily fluids, blood products, insect bites, or through the air. Some examples of communicable diseases include HIV, hepatitis A, B and C, influenza, measles, and COVID-19.60

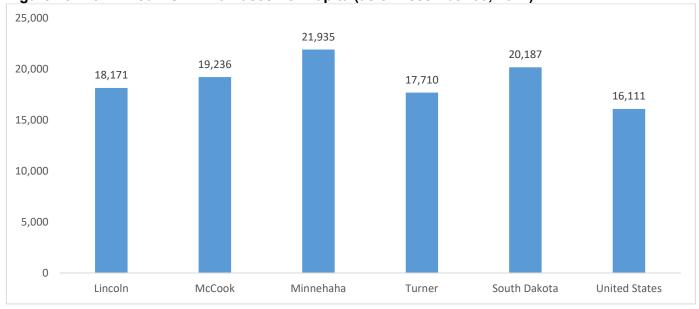
Although non-communicable diseases remain the leading causes of death and disability in the Sioux Falls area, there is a growing burden of communicable diseases. Obviously, COVID-19 was the single biggest

health concern at the time of this assessment due to the ongoing pandemic.

#### COVID-19

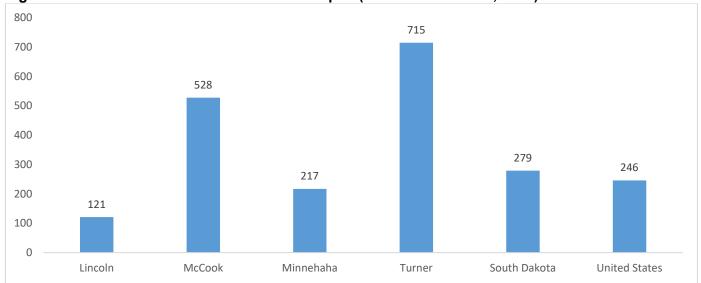
The global pandemic of COVID-19 was officially declared by the World Health Organization in March 2020, following initial outbreak of the new illness caused by the SARS-CoV-2 virus in China. By the end of 2020, COVID-19 was the third leading cause of death in the U.S., with 345,000 deaths attributed to the virus, exceeded only by cardiovascular disease and cancer <sup>61</sup>

Figure 78: Confirmed COVID-19 Cases Per Capita (as of December 30, 2021)



DATA SOURCE: County level data from: South Dakota Department of Health. (2021). South Dakota COVID-19 Dashboard. https://doh.sd.gov/COVID/Dashboard.aspx

Figure 79: Confirmed COVID-19 Deaths Per Capita (as of December 30, 2021)



DATA SOURCE: County level data from: South Dakota Department of Health. (2021). South Dakota COVID-19 Dashboard. https://doh.sd.gov/COVID/Dashboard.aspx

^County level deaths per capita were calculated using SD Department of Health data and 2020 census population estimates. \*US and SD Data from: Centers for Disease Control and Prevention. (2021). COVID Data Tracker. https://covid.cdc.gov/covid-data-tracker/#vaccinations\_vacc-total-admin-rate-total.

<sup>^</sup>County level cases per capita were calculated using SD Department of Health data and 2020 census population estimates. Case counts include both confirmed, persons with a positive PCR test, and probable, persons with a positive antigen test.
\*US and SD Data from: Centers for Disease Control and Prevention. (2021). COVID Data Tracker. https://covid.cdc.gov/covid-data-tracker/#vaccinations\_vacc-total-admin-rate-total.

As nations across the globe addressed challenges during the COVID-19 pandemic, the advent of several highly effective vaccines became critical tools to help reduce the spread of the virus and mitigate severe outcomes such as hospitalization and death. As of December 2021, the vaccination rate (first dose of any COVID-19 vaccine) in Minnehaha County exceeded national and state rates. Lincoln County had a comparable rate, while McCook and Turner counties lagged significantly behind both state and national rates (Figure 80).

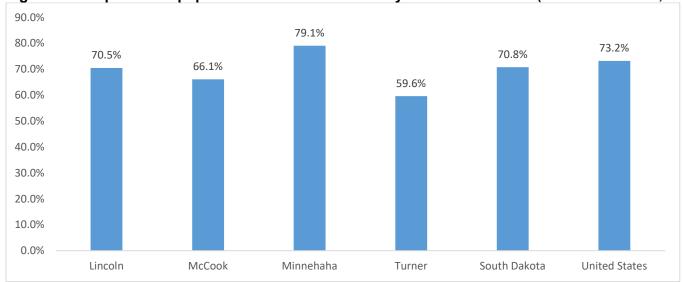


Figure 80: Proportion of population with first dose of any COVID-19 vaccine (as of December 30, 2021)

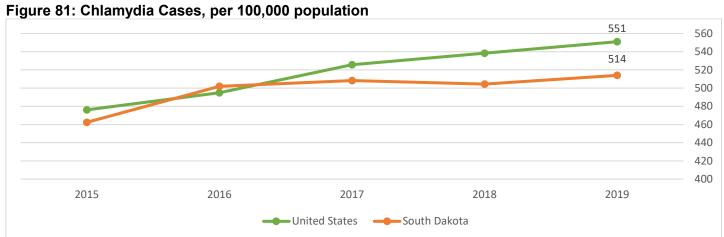
DATA SOURCE: Centers for Disease Control and Prevention. (2021). COVID Data Tracker. https://covid.cdc.gov/covid-datatracker/#vaccinations vacc-total-admin-rate-total

# **HIV and Sexually Transmitted Diseases**

Reported annual cases of sexually transmitted diseases (STDs) in the United States continue to climb and reached an all-time high in 2019.15 Surveillance data from that year noted the following:

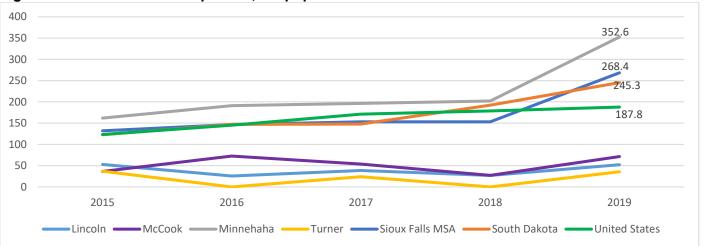
- Chlamydia, gonorrhea, and syphilis are the three most reported STDs, with 2.5 million reported cases.
- There was a nearly 30 percent increase nationwide in reportable STDs between 2015 and 2019.
- The sharpest increase was in cases of syphilis among newborns (i.e., congenital syphilis), which nearly quadrupled between 2015 and 2019.

Figures 81 through 84 below show that, consistent with national trends, cases of chlamydia, gonorrhea, and syphilis are also trending upwards in South Dakota. There is variation in prevalence of the three leading STDs compared to the national rates. Whereas syphilis prevalence in South Dakota is only about half of the national rate and the chlamydia rate is slightly less than the national rate, gonorrhea prevalence significantly exceeds the national average. Looking specifically at gonorrhea (Figure 82), Minnehaha County is exceeding the rates not only for the other counties in our MSA, but also for both state and national rates.



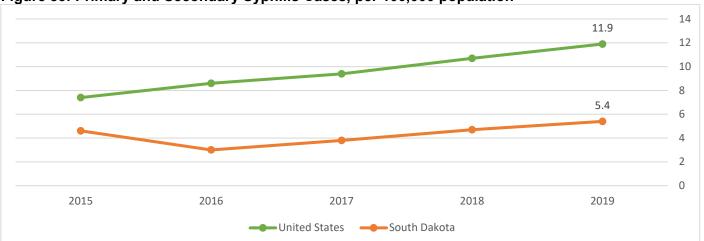
DATA SOURCE: Centers for Disease Control and Prevention. (2021). National Center for HIV, Viral Hepatitis, STD, and TB Prevention (NCHHSTP) Atlas Plus. https://www.cdc.gov/nchhstp/atlas/index.htm

Figure 82: Gonorrhea Cases per 100,000 population



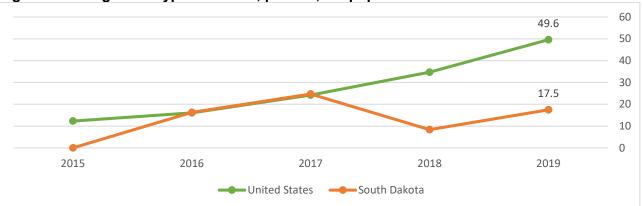
DATA SOURCE: Centers for Disease Control and Prevention. (2021). National Center for HIV, Viral Hepatitis, STD, and TB Prevention (NCHHSTP) Atlas Plus. https://www.cdc.gov/nchhstp/atlas/index.htm. Sioux Falls MSA data based on Sioux Falls Metropolitan Statistical Area Calculator.

Figure 83: Primary and Secondary Syphilis Cases, per 100,000 population



DATA SOURCE: Centers for Disease Control and Prevention. (2021). National Center for HIV, Viral Hepatitis, STD, and TB Prevention (NCHHSTP) Atlas Plus. https://www.cdc.gov/nchhstp/atlas/index.htm

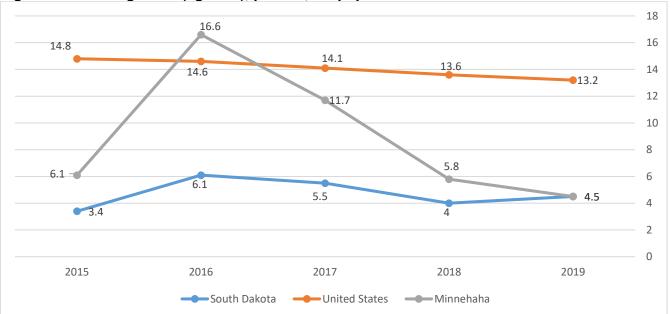
Figure 84: Congenital Syphilis Cases, per 100,000 population



DATA SOURCE: Centers for Disease Control and Prevention. (2021). National Center for HIV, Viral Hepatitis, STD, and TB Prevention (NCHHSTP) Atlas Plus. https://www.cdc.gov/nchhstp/atlas/index.htm

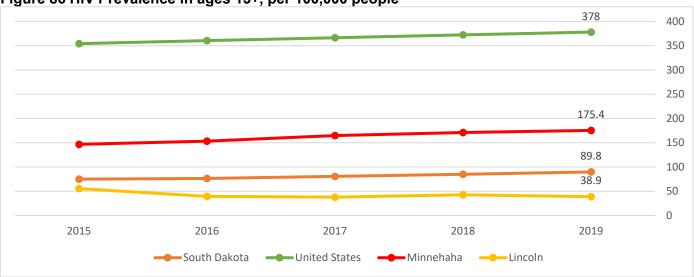
While there has been a decline in HIV diagnoses among those aged 13 and older at the national level and in Minnehaha County (Figure 85), HIV prevalence is trending upwards at the local, state, and national levels (Figure 86). This could be as a result of improvement in treatment services, which results in longer lives for people living with HIV.





DATA SOURCE: Centers for Disease Control and Prevention. (2021). National Center for HIV, Viral Hepatitis, STD, and TB Prevention (NCHHSTP) Atlas Plus. https://www.cdc.gov/nchhstp/atlas/index.htm

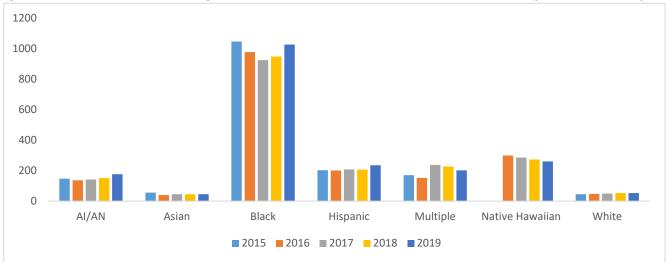
Figure 86 HIV Prevalence in ages 13+, per 100,000 people



DATA SOURCE: Centers for Disease Control and Prevention. (2021). National Center for HIV, Viral Hepatitis, STD, and TB Prevention (NCHHSTP) Atlas Plus. https://www.cdc.gov/nchhstp/atlas/index.htm

Racial/ethnic disparities in HIV prevalence is observed in South Dakota, with Blacks having a much higher prevalence rate compared to other racial/ethnic groups in the state (Figure 87).

Figure 87: HIV Prevalence in ages 13+, per 100,000 people, in South Dakota, by Race/Ethnicity



DATA SOURCE: Centers for Disease Control and Prevention. (2021). National Center for HIV, Viral Hepatitis, STD, and TB Prevention (NCHHSTP) Atlas Plus. https://www.cdc.gov/nchhstp/atlas/index.htm



# ETERMINANTS

The health of a population is shaped by multiple factors known as health determinants, risk factors, or drivers of health. Health determinants include health behaviors, healthcare access and quality, and other social determinants of health.

In this section, we explore the determinants that are driving the health outcomes in the Sioux Falls MSA as summarized in the previous section.

# **HEALTH BEHAVIORS**

The lifestyle choices we make in our daily lives have a significant impact on our health. For example, eating nutritious foods and being physically active benefit health, while behaviors such as smoking or excessive alcohol use can lead to negative health consequences. However, it is also important to factor in how environmental factors influence the opportunities people have to make healthy decisions. Addressing policy, systems and environmental changes helps to ensure that healthy choices are easily accessible for all community residents.

#### **Alcohol and Substance Use**

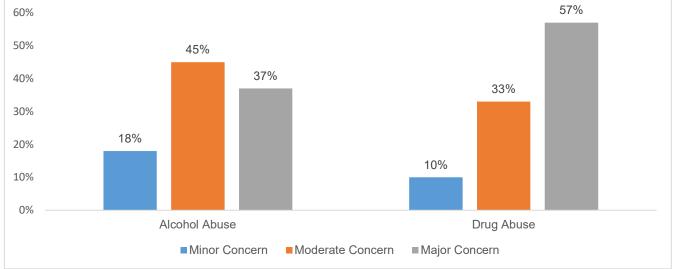
Excessive alcohol use is associated with an increased risk of unintentional injuries and several health conditions.

According to the U.S. Centers for Disease Control and Prevention, the estimated cost of excessive alcohol consumption in the United States is \$249 billion, or about \$807 per person. The CDC's estimate for the impact to South Dakota is approximately \$735 per person.62 The costs come primarily from losses in workplace productivity and health care expenses, but also other costs related to criminal justice expenses, motor vehicle crashes, and property damage.

When asked about health behaviors and health issues that were of the greatest concern, respondents to the 2021 CHA Survey of Sioux Falls MSA residents ranked alcohol and drug use among the top concerns (Figure 88). In addition, survey respondents also indicated that services to address addiction was second only to mental health in terms of health care services they would like to see offered or improved in the community.19



Figure 88: Resident Rankings of Alcohol and Drug Use as a Community Concern



DATA SOURCE: 2021 Community Health Assessment Resident Survey. Completed by Sioux Falls CHA Partners February 2021.

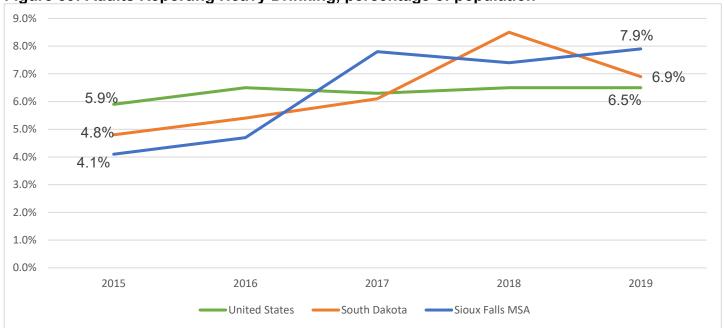
Alcohol and substance use were also top concerns cited by Sioux Falls respondents to the 2021 National Community Survey, where 82 percent of respondents rated alcohol as a major or moderate concern, and 90 percent rated drug use as a major or moderate concern.<sup>20</sup>

Excessive alcohol use can be categorized as "heavy drinking," meaning more than 14 drinks per week for

men and 7 drinks per week for women, and "binge drinking," which is defined as consuming 4 or more drinks per occasion for women or 5 or more drinks per occasion for men.

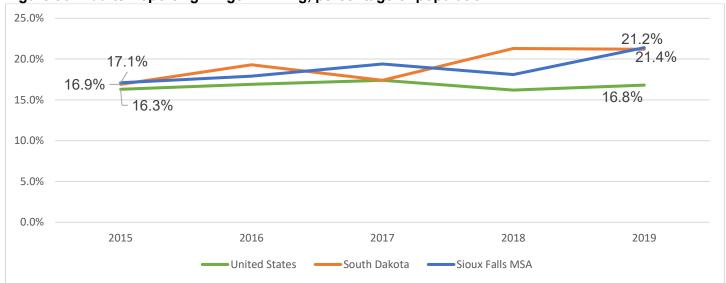
In recent years, the Sioux Falls MSA has seen an increase in both heavy drinking and binge drinking, with rates that are higher than the national average (Figures 89 and 90).

Figure 89: Adults Reporting Heavy Drinking, percentage of population



DATA SOURCE: Centers for Disease Control and Prevention. (2019). BRFSS Prevalence & Trends Data. National Center for Chronic Disease Prevention and Health Promotion, Division of Population Health. https://www.cdc.gov/brfss/brfssprevalence/

Figure 90: Adults Reporting Binge Drinking, percentage of population.



DATA SOURCE: Centers for Disease Control and Prevention. (2019). BRFSS Prevalence & Trends Data. National Center for Chronic Disease Prevention and Health Promotion, Division of Population Health. https://www.cdc.gov/brfss/brfssprevalence/

Looking at general alcohol use among adults, the rate of adults consuming at least one alcoholic beverage per month increased slightly in recent years and is higher than both state and national rates (Figure 91).

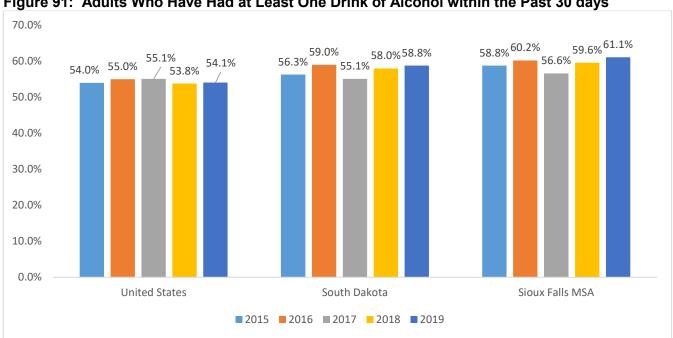


Figure 91: Adults Who Have Had at Least One Drink of Alcohol within the Past 30 days

DATA SOURCE: Centers for Disease Control and Prevention. (2019). BRFSS Prevalence & Trends Data. National Center for Chronic Disease Prevention and Health Promotion, Division of Population Health. https://www.cdc.gov/brfss/brfssprevalence/

Excessive alcohol use certainly has negative impacts for the person drinking. If, however, that person decides to drive while under the influence of alcohol, they create risk for others.

Each day, approximately 28 people are killed in drunkdriving crashes in the United States, which is about

one person every 52 minutes.<sup>63</sup> The most recent available data suggests that 4 percent of adults in the Sioux Falls MSA report that they have driven after drinking too much (Figure 92).

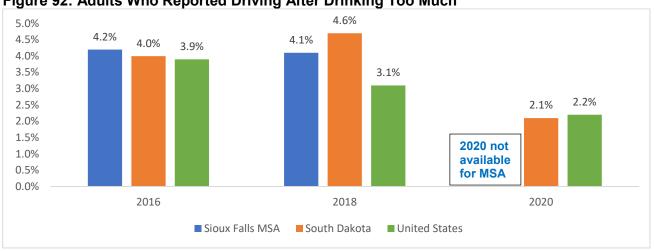


Figure 92: Adults Who Reported Driving After Drinking Too Much

DATA Source: Centers for Disease Control and Prevention. (2019). BRFSS Prevalence & Trends Data. National Center for Chronic Disease Prevention and Health Promotion, Division of Population Health. https://www.cdc.gov/brfss/brfssprevalence/

Underage drinking is also a serious health concern. as alcohol is the most widely used substance among young people.64

While local data is not available for the Sioux Falls MSA, there is a significant amount of underage drinking and substance use among South Dakota youth (Tables 10 and 11). Currently, 15 percent of young people actively engage in binge drinking.

#### TABLE 10: UNDERAGE DRINKING IN SOUTH DAKOTA AND THE U.S.

	South Dakota	U.S.
Past month alcohol use among persons aged 12 to 20	31.5%	26.6%
Self-purchase of the last alcohol used among past month alcohol users aged 12 to 20	6.3%	8.8%
Had their first drink of alcohol before age 13 years (other than a few sips)	17.6%	15%
Currently were binge drinking (on at least 1 day during the 30 days before the survey)	14.9%	13.7%

DATA SOURCE: Substance Abuse and Mental Health Services Administration (SAMHSA). 2019 National Survey on Drug Use and Health. Accessed October 4, 2021, at https://www.samhsa.gov/data/sites/default/files/reports/rpt29394/ NSDUHDetailedTabs2019/NSDUHDetTabsSect2pe2019.htm#tab2-6b.

# TABLE 11: YOUTH SUBSTANCE USE IN SOUTH DAKOTA

	South Dakota	U.S.
Ever Used Marijuana (one or more times during their life)	31.5%	36.8%
Currently used marijuana (one or more times during the 30 days before the survey)	16.5%	14.3%
Ever took prescription pain medicine without a doctor's prescription or differently than how a doctor told them to use it (counting drugs such as codeine, Vicodin, Oxycontin, Hydrocodone, and Percocet, one or more times during their life)	15.7%	36.8%
Ever used inhalants (sniffed glue, breathed the contents of aerosol spray cans, or inhaled any paints or sprays to get high, one or more times during their life)	9.3%	6.4%
Ever used heroin (one or more times during their life)	2.0%	1.8%
Ever used methamphetamines (one or more times during their life)	2.8%	2.1%
Ever injected any illegal drug (used a needle to inject any illegal drug into their body, one or more times during their life)	1.6%	1.6%
Were offered, sold, or given an illegal drug on school property (during the 12 months before the survey)	15.1%	21.8%

DATA SOURCE: 2019 High School Youth Risk Behavior Survey (YRBS)

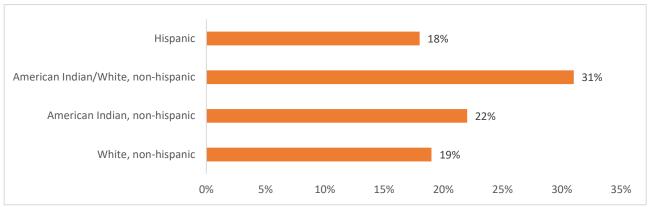
State-level data indicate that males binge drink at nearly twice the rate for females, and binge drinking is higher among American Indians in South Dakota compared to Non-Hispanic Whites and the Hispanic Population (Figures 93 and 94).

Figure 93: Adults in South Dakota Who Engage in Binge Drinking, by Gender



DATA SOURCE: South Dakota Department of Health. (2019). Behavioral Risk Factor Surveillance System. Office of Health Statistics. https://doh.sd.gov/statistics/

Figure 94: Adults in South Dakota Who Engage in Binge Drinking, by Race/Ethnicity



DATA SOURCE: South Dakota Department of Health. (2019). Behavioral Risk Factor Surveillance System. Office of Health Statistics. https://doh.sd.gov/statistics/

# **Nutrition**

More than half of American adults (6 in 10) have one or more preventable, diet-related chronic condition, such as cardiovascular disease, type 2 diabetes, and obesity.65

Many factors influence the nutrition behaviors of individuals, including access and affordability of healthy foods; knowledge, beliefs, and attitudes about good nutrition; and social and cultural factors.

The most recent Dietary Guidelines for Americans focus on four overarching guidelines:

Follow a healthy dietary pattern at every life stage.

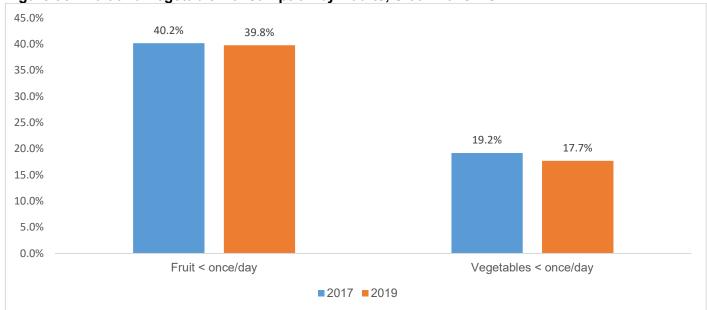
- Customize and enjoy nutrient-dense food and beverage choices to reflect personal preferences. cultural traditions, and budgetary considerations.
- Focus on meeting food group needs with nutrient-dense foods and beverages, and stay within calorie limits.

Limit foods and beverages higher in added sugars, saturated fat, and sodium, and limit alcoholic beverages.

Fruit and vegetable consumption is an important dimension of dietary behavior.

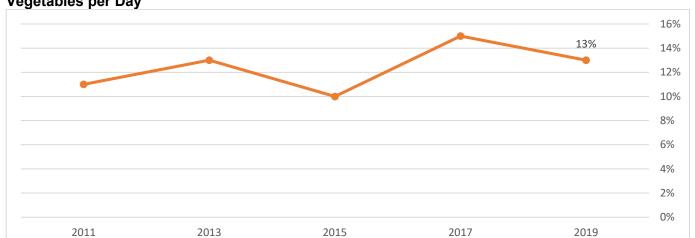
Data continues to show that adults in the Sioux Falls MSA fall significantly short of meeting recommendations for fruit and vegetable consumption. Nearly 40 percent of adults report consuming fruits less than once per day and 18 percent report the same for vegetable consumption (Figure 95). Across the state of South Dakota, the proportion of individuals that report consuming the recommended minimum of five servings of fruits and vegetables held steady at a significantly poor rate (15 percent or less) throughout the last decade (Figure 96).

Figure 95: Fruit and Vegetable Consumption by Adults, Sioux Falls MSA



DATA SOURCE: Centers for Disease Control and Prevention. (2019). BRFSS Prevalence & Trends Data. National Center for Chronic Disease Prevention and Health Promotion, Division of Population Health. https://www.cdc.gov/brfss/brfssprevalence/

Figure 96: Percentage of South Dakotans Who Reported Consuming at Least 5 Servings of Fruits and Vegetables per Day



DATA SOURCE: South Dakota Department of Health. (2019). Behavioral Risk Factor Surveillance System. Office of Health Statistics. https://doh.sd.gov/statistics/

According to the CDC, sugar-sweetened beverages (SSBs) are leading sources of added sugars in the American diet. These beverages include, but are not limited to, regular soda (not sugar-free), fruit drinks, sports drinks, energy drinks, sweetened waters, and coffee and tea beverages with added sugars. Frequent consumption of sugar-sweetened beverages has been linked to health concerns such as obesity, type 2 diabetes, heart disease, kidney diseases, and tooth decay.66 Limiting SSB intake can help individuals maintain a healthy diet and a healthy weight. Although local data could not be obtained for SSB consumption in the Sioux Falls area, data points to high rates of SSB consumption in South Dakota.

A national study estimated that 72.5 percent of South Dakota adults consume SSBs once daily or more, compared to a national rate of 63 percent. 4 With such a high rate, South Dakota ranked 48th in the nation. Furthermore, in 2019, 14.4 percent of South Dakota high school students reported drinking regular soda/ pop at least one time per day while 8.4 percent reported drinking two or more of such drinks per day.8

When unhealthy snacks and drinks are available in the secondary school setting, such as in vending machines, school stores or concession stands, it predisposes young people to make less healthy food choices. A national survey of secondary schools indicates that the proportion of secondary schools in South Dakota that did not sell any of six unhealthy snacks or drinks improved from 46 percent in 2016 to 54 percent in 2018 (Table 12). While things appear to be moving in the right direction, nearly half of secondary schools still provide access to unhealthy food items to students.

TABLE 12: SECONDARY SCHOOLS ALLOWING STUDENTS TO PURCHASE SNACK FOODS AND BEVERAGES

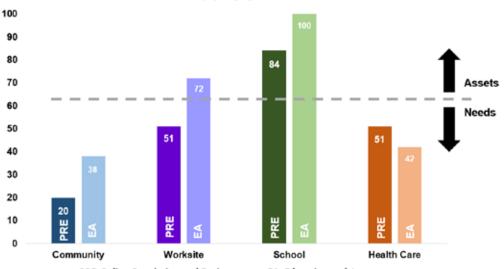
	Allowed students to purchase snack foods or beverages at all	Chocolate Candy	Other kinds of candy	Salty Snacks	Cookies, crackers, cakes, pastries or other baked goods	Soda pop or fruit drinks	Sports Drinks	Did not sell any of these 6 sugary or salty food items
2016	67.5%	7.2%	14.4%	9.5%	13.5%	18.8%	47.5%	46.0%
2018	60.2%	6.5%	8.8%	10.4%	12%	15.2%	38%	53.9%

DATA SOURCE: Centers for Disease Control and Prevention. (2019). School Health Profiles. Adolescent and School Health. https://www.cdc.gov/healthyyouth/data/profiles/index.htm

Using the South Dakota Good & Healthy Community Assessment, representatives from several sectors of the Sioux Falls community rated Policy, Regulations, and Environment (PRE) efforts, along with Education and Awareness (EA) efforts related to nutrition. In Figure 97, scores over 60 represent an indication of nutrition assets, while scores below 60 indicate areas of need. Of the four topics addressed through the

Good & Healthy SD Assessment tool, nutrition has the most areas of need. All sectors, with the exception of schools, saw scores below 60 in both policy, regulation, and environment (PRE) strategies to improve nutrition and in education and awareness (EA) about nutrition. Specific assets and needs identified through the assessment process are listed in the Appendix.

**Figure 97: Community Nutrition Assessment** Nutrition



PRE=Policy, Regulation and Environment EA=Education and Awareness

DATA SOURCE: 2021 Community Health Assessment using the South Dakota Good & Healthy Assessment Tool

# **Physical Activity**

Strong scientific evidence demonstrates that engaging in physical activity reduces the risk of many chronic medical conditions and is critical to the recovery process for many diseases. Among adults and older adults, physical activity can lower the risk of:

- Early death
- Coronary Heart Disease
- Stroke
- High blood pressure
- Type 2 diabetes
- Some types of cancer
- Falls
- Depression
- Dementia (including Alzheimer's disease)
- Excessive weight gain

Among children and adolescents, physical activity can:

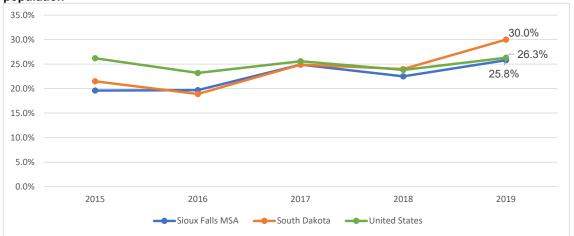
- Improve bone health.
- Improve cardiorespiratory and muscular fitness.

- Decrease levels of body fat.
- Reduce symptoms of depression.
- Enhance learning and academic performance.

In recent years, health professionals have used the term "sitting disease" to describe the negative health effects of long periods of physical inactivity, including links to obesity and heart disease. One study estimated that the average American spends 55 percent of waking time, or 7.7 hours per day, in sedentary behaviors such as sitting. 50 This research also indicates that seven of the ten most common chronic diseases are favorably influenced by regular physical activity.

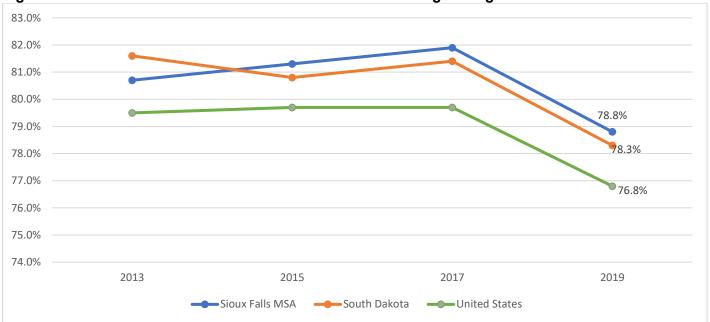
Lack of physical activity is linked to approximately \$117 billion in annual health care costs and about 10 percent of premature mortality.67 When asked if they had participated in any physical activity outside of their regular job during the past month, one quarter of Sioux Falls MSA adults said no (Figure 98). In addition, 79 percent of adults in the area do not meet the recommended guidelines for both aerobic and muscle strengthening activity, which shows a slight improvement from recent years but still worse than the national average. (Figure 99).

Figure 98: Percent of Adults Reporting No Leisure Time Physical Activity in the Past Month, percent of population



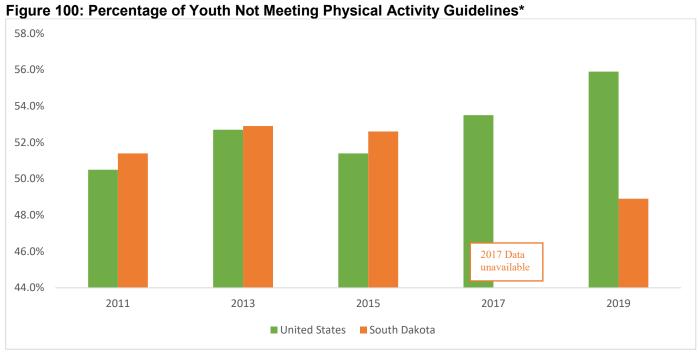
DATA Source: Centers for Disease Control and Prevention. (2019). BRFSS Prevalence & Trends Data. National Center for Chronic Disease Prevention and Health Promotion, Division of Population Health. https://www.cdc.gov/brfss/brfssprevalence/





<sup>\*</sup>At least 150 minutes/week of moderate-intensity aerobic activity and muscle-strengthening activity at least 2 days/week DATA SOURCE: Centers for Disease Control and Prevention. (2019). BRFSS Prevalence & Trends Data. National Center for Chronic Disease Prevention and Health Promotion, Division of Population Health. https://www.cdc.gov/brfss/brfssprevalence/

Physical activity is also important for youth, with a national recommendation of at least 60 minutes of daily physical activity. Less than half of South Dakota youth are meeting that guideline (Figure 100).

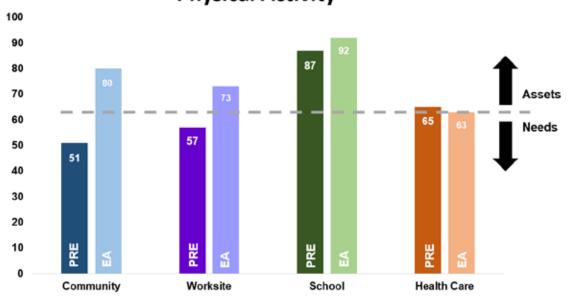


\*60 minutes per day on at least 5 days in a week DATA SOURCE: Centers for Disease Control and Prevention (CDC). (2019). 1991-2019 High School Youth Risk Behavior Survey Data. YRBSS Explorer. http://yrbs-explorer.services.cdc.gov/

Understanding the factors that influence physical activity behaviors in the community is important to ensure the effectiveness of strategies to improve physical activity levels for all residents.

Using the South Dakota Good & Healthy Community Assessment, representatives from several sectors of the community rated Policy, Regulations, and Environment (PRE) efforts, along with Education and Awareness (EA) efforts related to physical activity. In Figure 101, scores over 60 represent the presence of physical activity assets, while scores below 60 indicate areas of need related to physical activity.

Figure 101: Community Physical Activity Assessment **Physical Activity** 



PRE=Policy, Regulation and Environment EA=Education and Awareness

DATA SOURCE: 2021 Community Health Assessment using the South Dakota Good & Healthy Assessment Tool

# **Tobacco Use**

Tobacco remains the single most preventable cause of disease, disability, and death in the United States. Smoking harms nearly every organ in the body and causes cancer, heart disease, stroke, respiratory illness, and many other health problems. The estimated economic costs attributable to smoking and exposure to tobacco smoke continue to increase and now approach \$300 billion annually, with direct medical costs of at least \$130 billion and productivity losses of more than \$150 billion a year.<sup>68</sup>

In South Dakota, the annual health care costs directly caused by smoking are approximately \$373 million. Smoking-caused government expenditures creates a state and federal tax burden of about \$959 on each South Dakota household.69

While local, statewide, and national adult smoking rates have been generally trending downward slowly the Sioux Falls MSA did see a slight increase from 2018 to 2019 (Figure 102).

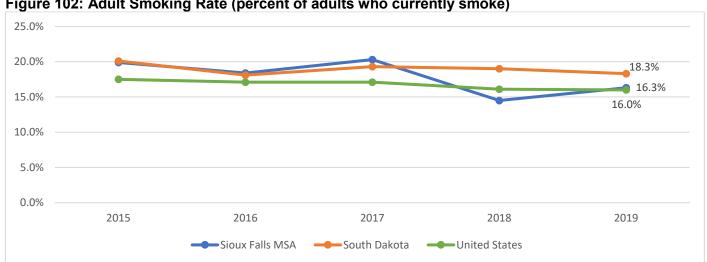


Figure 102: Adult Smoking Rate (percent of adults who currently smoke)

DATA SOURCE: Centers for Disease Control and Prevention. (2019). BRFSS Prevalence & Trends Data. National Center for Chronic Disease Prevention and Health Promotion, Division of Population Health. https://www.cdc.gov/brfss/brfssprevalence/

Tobacco use is often started and established primarily during adolescence. Nearly nine out of 10 cigarette smokers first tried smoking by age 18, and 99 percent first tried smoking by age 26. Each day in the United States, more than 3,800 youth aged 18 years or younger smoke their first cigarette, and an additional 2,100 youth and young adults become daily cigarette smokers. If current rates continue, 5.6 million Americans younger than 18 years of age who are alive today are projected to die prematurely from smokingrelated disease.68

Local data on adolescent tobacco use is not available. However, in South Dakota, 11.3 percent of middle school students have already tried smoking a cigarette, and that percentage jumps to 31.4 percent by high

school (Table 13). Furthermore, 12 percent of high school students in South Dakota have a history of recent cigarette use, and 3.5 percent have already become frequent smokers (Table 13). The use of e-cigarettes and smokeless tobacco products is also a concern among high school students in South Dakota, as 50.6 percent have tried e-cigarettes and nearly one in four have history of recent e-cigarette use (Table 13), pointing to a need to continue focusing on tobacco prevention programs that target adolescents.

# TABLE 13: ADOLESCENT TOBACCO USE IN SOUTH DAKOTA

Middle School Cigarette Smoking in South Dakota	
Students who have ever tried smoking a cigarette	11.3%
Students who smoked cigarettes on one or more of the past 30 days	3.5%
High School Cigarette Smoking in South Dakota	
Students who have ever tried smoking a cigarette	31.4%
Students who smoked cigarettes on one or more of the past 30 days	12%
High School E-Cigarette Use in South Dakota	
Students who have ever used an electronic vapor product	50.6%
Students who have used an electronic vaping product one or more times in the past 30 days	23.6%
High School Smokeless Tobacco Use in South Dakota	
Students who have ever used chewing tobacco, snuff, dip, snus, or dissolvable tobacco products	15.4%
Percentage of students who used chewing tobacco, snuff, dip, snus, or dissolvable tobacco products on one or more occasion in the past 30 days	7.1%

DATA SOURCE: High School Data is from Centers for Disease Control and Prevention (CDC). (2019). 1991-2019 High School Youth Risk Behavior Survey Data. YRBSS Explorer. http://yrbs-explorer.services.cdc.gov/. Middle School Data is from South Dakota Department of Health: Tobacco Control Program. (2019). South Dakota 2019 Youth Tobacco Survey (SD YTS). Be tobacco free, South Dakota. https://doh.sd.gov/prevention/assets/2019YTSReport\_WithRecomendations.pdf

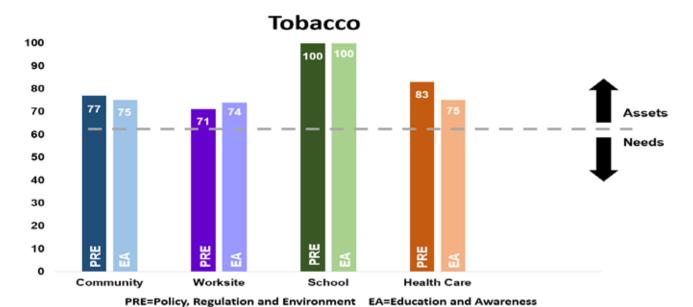


Using the South Dakota Good & Healthy Community Assessment, representatives from several sectors of the community rated Policy, Regulation, and Environment (PRE) efforts, along with Education and Awareness (EA) efforts related to tobacco prevention. In Figure 103, scores over 60 represents an indication of positive steps, or assets, in tobacco prevention, while scores below 60 indicate areas of need.

South Dakota has had a statewide law in place since 2010 regulating indoor smoking, and the City of Sioux Falls passed an ordinance in 2017 regulating tobacco use on City property. This appears to be reflected in the PRE scores well above 60 for all sectors. Other identified assets include enforcing laws prohibiting the sale of tobacco products to minors, cessation resources such as the South Dakota Quitline, and a 24/7 tobacco-free school policy prohibiting the use of tobacco and electronic smoking products on school grounds.

Despite the strong policy and regulatory environment, adolescents continue to initiate and use tobacco products at high rates, necessitating further interventions to limit access to tobacco products in this population and to improve their ability to resist or to quit use of tobacco products.

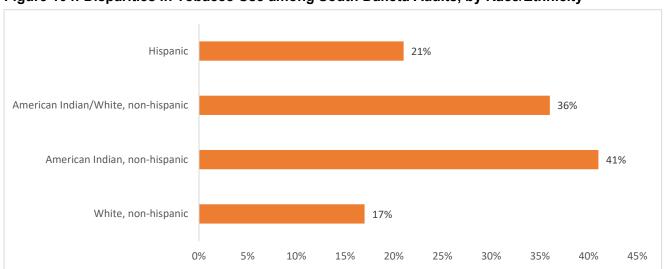
**Figure 103: Community Tobacco Assessment** 



DATA SOURCE: 2021 Community Health Assessment using the South Dakota Good & Healthy Assessment Tool

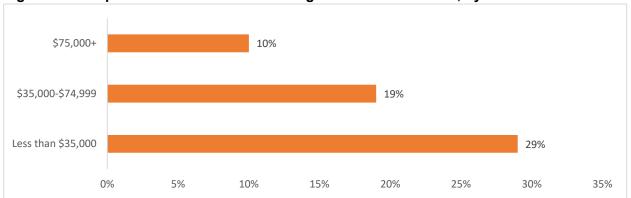
There are significant disparities in the use of commercial tobacco products in South Dakota. American Indians, lower income adults, unemployed adults and those unable to work, and adults with fewer years of education generally report higher use of tobacco products (Figures 104 through 107).

Figure 104: Disparities in Tobacco Use among South Dakota Adults, by Race/Ethnicity



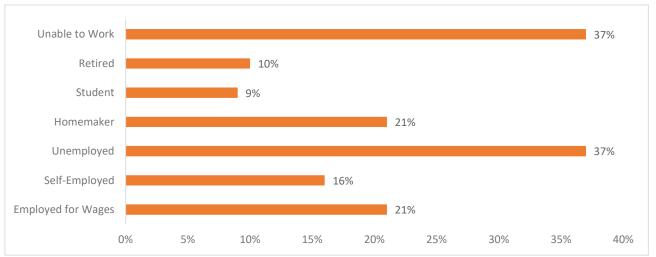
DATA SOURCE: South Dakota Department of Health. (2019). Behavioral Risk Factor Surveillance System. Office of Health Statistics. https://doh.sd.gov/statistics/

Figure 105: Disparities in Tobacco Use among South Dakota Adults, by Income



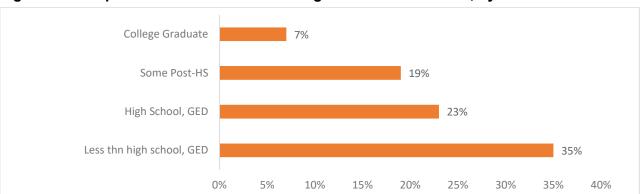
DATA SOURCE: South Dakota Department of Health. (2019). Behavioral Risk Factor Surveillance System. Office of Health Statistics. https://doh.sd.gov/statistics/

Figure 106: Disparities in Tobacco Use among South Dakota Adults, by Employment Status



DATA SOURCE: South Dakota Department of Health. (2019). Behavioral Risk Factor Surveillance System. Office of Health Statistics. https://doh.sd.gov/statistics/

Figure 107: Disparities in Tobacco Use among South Dakota Adults, by Educational Attainment



DATA SOURCE: South Dakota Department of Health. (2019). Behavioral Risk Factor Surveillance System. Office of Health Statistics. https://doh.sd.gov/statistics/

# **HEALTH CARE ACCESS AND QUALITY**

# **Access to Care**

Ensuring residents are able to access comprehensive, quality health care services is essential for maintaining health, preventing and managing disease, and reducing disability and premature death. However, the concept of access is complex and multifaceted, including availability and utilization of health care services. Supply constraints (e.g. local availability of providers, proximity to service sites) limit availability, while financial, personal, and organizational barriers limit demand or utilization of services.

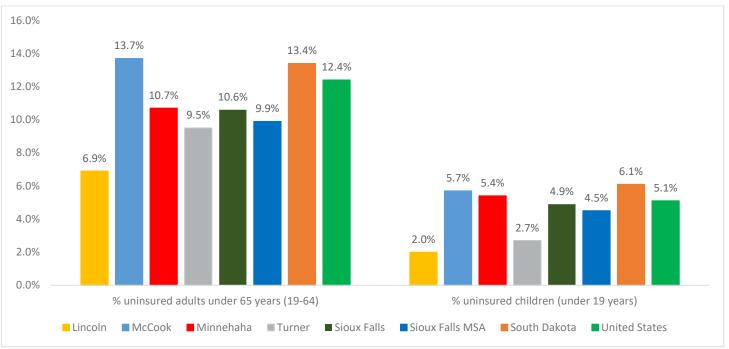
Compared to state and national averages, the Sioux Falls MSA has a lower proportion of uninsured adults and children (Figure 108). Focus group participants

Access must be defined more broadly as ensuring that all people have the opportunity to get the medical, public health, and social services they need to live healthier lives. Building a Culture of Health means that people are able to access high-quality, affordable care to prevent or treat medical issues that may arise.

- ROBERT WOOD JOHNSON FOUNDATION70

highlighted the availability of resources in the Sioux Falls area to help address needs of uninsured and underinsured residents, including free health care clinics and Falls Community Health, a Federally Qualified Health Center (FQHC).

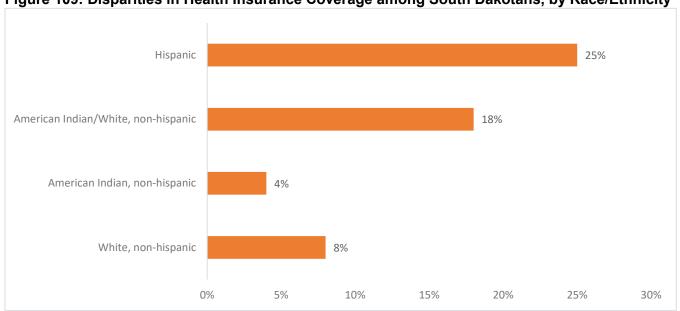
Figure 108: Percent of Population that Lack Health Insurance Coverage



DATA SOURCE: United States Census Bureau. (2019). American Community Survey Data. https://www.census.gov/programssurveys/acs/data.html

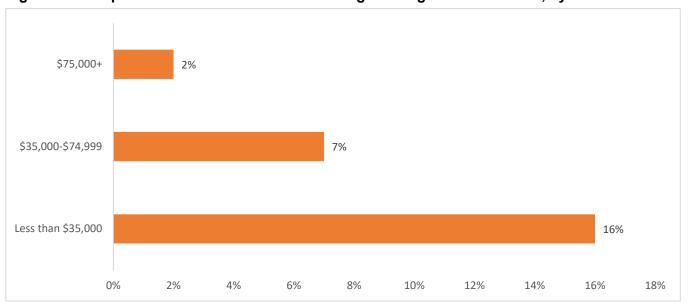
In South Dakota, there are disparities in health insurance coverage, with non-White adults and those with lower incomes more likely to be uninsured (Figures 109 and 110).

Figure 109: Disparities in Health Insurance Coverage among South Dakotans, by Race/Ethnicity



DATA SOURCE: South Dakota Department of Health. (2019). Behavioral Risk Factor Surveillance System. Office of Health Statistics. https://doh.sd.gov/statistics/

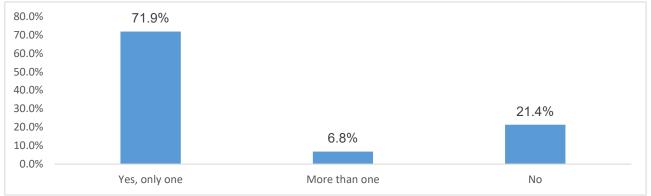
Figure 110: Disparities in Health Insurance Coverage among South Dakotans, by Household Income



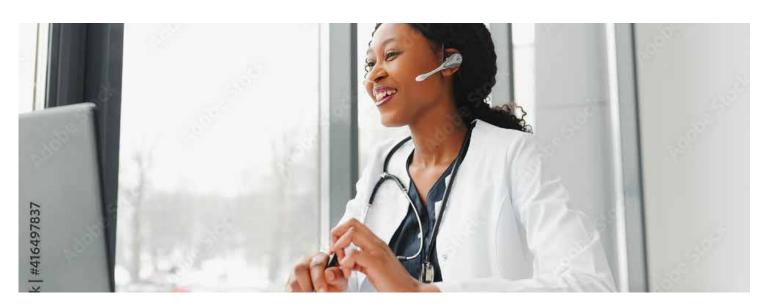
DATA SOURCE: South Dakota Department of Health. (2019). Behavioral Risk Factor Surveillance System. Office of Health Statistics. https://doh.sd.gov/statistics/

Having a health care provider who can serve as a point of entry into the health care system and ensure continuity and coordination of care is another important measure of access to care. The majority of adults in the Sioux Falls MSA say they have at least one person they think of as a personal doctor or health care provider, but 21 percent do not (Figure 111).

Figure 111: Adults in the Sioux Falls MSA Stating They Have at Least One Person They Think of as a Personal Doctor or Health Care Provider



DATA SOURCE: Centers for Disease Control and Prevention. (2019). BRFSS Prevalence & Trends Data. National Center for Chronic Disease Prevention and Health Promotion, Division of Population Health. https://www.cdc.gov/brfss/brfssprevalence/



Having a variety of health care providers available is necessary to ensure that there is adequate capacity to meet the care needs of the population. The ratio of population to providers is an important measure of access to care. The ratio represents the number of individuals served by one provider in a geographic unit if the population was equally distributed across providers. For example, if a county has a population

of 50,000 and has 20 primary care physicians, the ratio would be 2,500:1. As seen in Table 14 below, the Sioux Falls MSA generally has a low supply of dentists and mental health providers. While access to primary care providers in the MSA looks good compared to state and national benchmarks, with the exception of McCook County.

TABLE 14: RATIO OF POPULATION TO HEALTH CARE PROVIDERS IN THE FOUR COUNTIES IN THE SIOUX FALLS MSA

	Lincoln	McCook	Minnehaha	Turner	South Dakota	U.S.
Ratio of population to primary care physicians	620:1	5550:1	1060:1	N/A	1300:1	Top performers* 1030:1
Ratio of population to primary care providers other than physicians	660:1	2790:1	440:1	1050:1	630:1	N/A
Ratio of population to dentists	1180:1	5590:1	1800:1	4190:1	1620:1	Top performers 1210:1
Ratio of population to mental health providers	380:1	N/A	520:1	N/A	N/A	Top performers 270:1

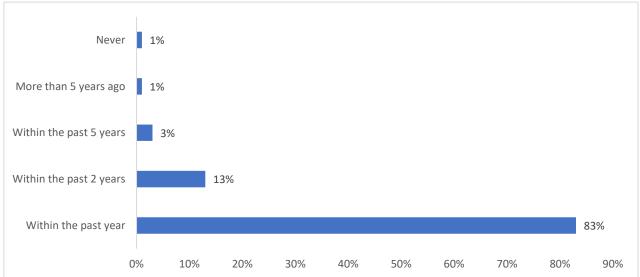
<sup>\*</sup>Top U.S. Performers = 90th percentile

DATA SOURCE: Area Health Resource Findings 2018 (primary care and dentists); CMS, National Provider Identification 2020 (primary care other than physicians and mental health). Accessed through www.countyhealthrankings.org.

According to the 2021 CHA resident survey, 83 percent of respondents indicated they had seen a primary care provider within the last year. For those who had not recently had a routine check-up, COVID-19 was the number one reason why they had not been to a

provider, with perception that they had "no need to see the doctor" and "cost" as other top reasons (Figure 112 and 113). This points to financial barriers as well as personal factors such as health literacy.

Figure 112: Length of Time since Last Routine Checkup or Screening among Adults in the Sioux Falls **MSA** 



DATA SOURCE: 2021 Community Health Assessment Resident Survey. Completed by Sioux Falls CHA Partners February 2021

No child care Distance to travel 2% Do not have a primary care provider Do not feel welcome 2% Hours of availability No insurance coverage 4% Fear/Do not like going Wait time 5% Other 6% Lack of transportation 6% Time off work 10% Cost 16% No need to see the doctor 22% COVID-19 55%

Figure 113: Reasons for Not Having a Recent Routine Checkup among Adults in the Sioux Falls MSA

DATA SOURCE: 2021 Community Health Assessment Resident Survey. Completed by Sioux Falls CHA Partners February 2021

20%

30%

10%

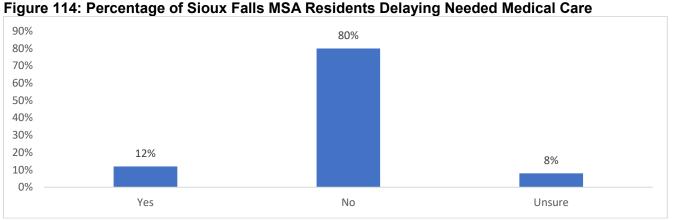
The CHA Resident Survey asked residents if, in the past year, they had a medically necessary care need but had to delay it for any reason, and 12 percent responded that they had delayed care (Figure 114). Of these, financial barriers (inability to pay or cost concerns and lack of health and lack of health insurance) were by far the most common reasons

besides COVID-19 (Figure 115). A significant proportion also reported the reasons were due to organizational-level barriers, including long wait times (17 percent), not feeling welcome or valued at the clinic (16 percent), and inconvenient clinic hours (9 percent). The factors cited in Figure 115 point to opportunities in improving patient-centered care.

50%

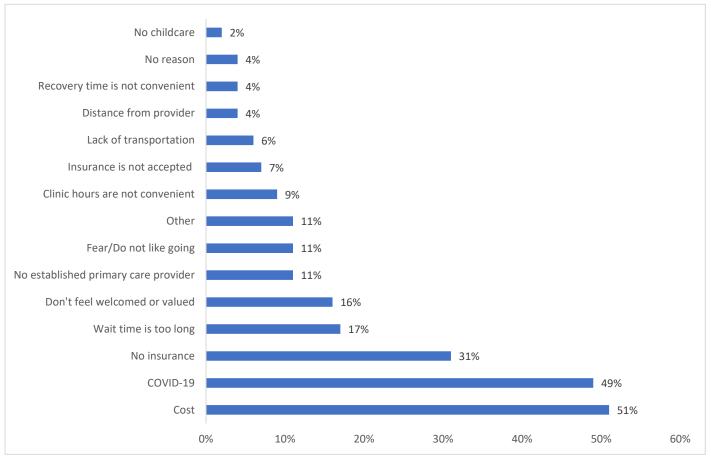
60%

40%



DATA SOURCE: 2021 Community Health Assessment Resident Survey. Completed by Sioux Falls CHA Partners February 2021

Figure 115: Reasons for Not Receiving Needed Health Care Services among Sioux Falls MSA Residents



DATA SOURCE: 2021 Community Health Assessment Resident Survey. Completed by Sioux Falls CHA Partners February 2021

In both the CHA Resident Survey and during focus group discussions, respondents expressed the following concerns related to access to care:

- Cost and access are the two most important health care issues the community faces.
- Priority populations have the most difficulty accessing services. Examples of priority populations include individuals who are lowincome or homeless, individuals with disabilities, those with severe mental health or addiction problems, or individuals who do not use English as a first language.
- The public needs more education on how to access care and prevention programming, as well as education on managing their health.

In the most recent National Community Survey, more than 70 percent of residents rated availability of affordable, good quality health care and preventive services as "excellent or good," and those rankings have remained consistent over the previous three surveys (Table 15). Availability of affordable, quality mental health care has consistently been rated lower than other services.

TABLE 15: RESIDENT RANKINGS OF HEALTH SERVICES IN SIOUX FALLS

	2015	2017	2019	2021
Availability of affordable quality health care	74%	77%	72%	73%
Availability of preventative health services	76%	80%	80%	80%
Availability of affordable quality mental health care	64%	66%	63%	63%

DATA SOURCE: Sioux Falls, SD The National Community Survey Report of Results 2021. The National Research Center. Accessed at https://www.siouxfalls.org/council/community-survey/survey-results/21-report-of-results

Overall, Sioux Falls residents generally feel that the metro area has a strong healthcare system, with 75 percent of residents stating that access to healthcare is either "excellent" or "very good." Focus group participants highlighted the robust medical community as the city's number one health-related asset. In addition to having two comprehensive health systems, the focus groups mentioned the availability of specialty clinics, integrative health clinics, and free or sliding-scale fee clinics to serve area residents.

The CHA focus groups identified some potential health gaps in need of attention, including:

Mental health, addiction, and disability care.

- · Transportation options and availability.
- Need for additional navigation and case management between health systems and other services.
- · Diversity in leadership and leadership involvement.
- Unequal access to health information and healthy lifestyle resources.
- · Dental care costs.
- · Whole person healthcare.

In a 2020 survey of Sioux Falls adults over the age of 45, residents rated several aspects of the health care system. Overall, residents gave "excellent" or "very good" ratings to factors such as convenience of emergency care centers and access to a variety of health care professionals (Table 16).

#### TABLE 16: RATING OF HEALTH CARE SERVICES BY OLDER ADULTS

	Poor	Fair	Good	Very good	Excellent	Not sure
Conveniently located emergency care centers	2%	5%	23%	38%	29%	4%
Well-maintained hospitals and health care facilities	2%	1%	8%	37%	51%	0%
Affordable home health care providers	8%	7%	18%	14%	9%	44%
A variety of health care professionals including specialists	1%	2%	8%	35%	47%	6%
Health care professionals who speak different languages	3%	6%	13%	19%	14%	44%
Conveniently located health and social services	4%	13%	30%	27%	17%	9%
A service that provides people to help seniors easily find and access health and supportive services	8%	9%	18%	24%	10%	30%

DATA SOURCE: 2020 Age-Friendly Sioux Falls Survey. Sioux Falls Health Department.

The following listing and map (Figure 116) show locations where residents can access primary care services in the community.

# Primary Care Locations in Sioux Falls

# Avera Clinics | www.avera.org

Family Health | 4011 West Benson Road Family Health | 6215 South Cliff Avenue

Family Health | 1200 South 7th Avenue

Family Health/Urgent Care | 2100 South Marion Road

Family Health/Urgent Care | 1910 West 69th Street

Family Health/Urgent Care | 1035 South Highline Place Health Care Clinic | 300 North Dakota Avenue, Suite 117

Internal Medicine | 1301 South Cliff Avenue Internal Medicine | 6100 S. Louise Avenue

Internal Medicine/Women's | 6215 South Cliff Avenue

# Sanford Clinics | www.sanfordhealth.org

Family Health | 600 N. Sycamore Avenue

Family Health | 2701 S. Kiwanis Avenue

Family Health | 3401 W. 49th Street

Family Health | 6110 S. Minnesota Avenue

Family Health/Pediatrics | 6101 S. Louise Avenue

Family Health/Pediatrics/Acute Care | 4405 E 26th Street

Family Health/Pediatrics/Acute Care/Women's Health 2601 S. Ellis Road

Pediatrics | 1205 S. Grange Avenue

Internal Medicine | 1321 W. 22nd Street

Women's Internal Medicine | 5019 S. Western Avenue

Acute Care | 136 S. Phillips Avenue

# **Other Clinics**

Center for Family Medicine | 1115 East 20th Street www.centerforfamilymed.org

Destiny Outreach/After Hours (at the Empower Campus) 1905 E. 8th Street | www.destinyclinic.com

Falls Community Health | 521 N. Main Avenue www.siouxfalls.org/fch

Falls Community Health at Hawthorne Elementary 601 N. Spring Avenue

Falls Community Health at Hayward Elementary 410 North Valley View Road Falls Community Health at Terry Redlin Elementary 1722 E 8th Street

SD Urban Indian Health Clinic | 711 N Lake Ave www.sduih.org

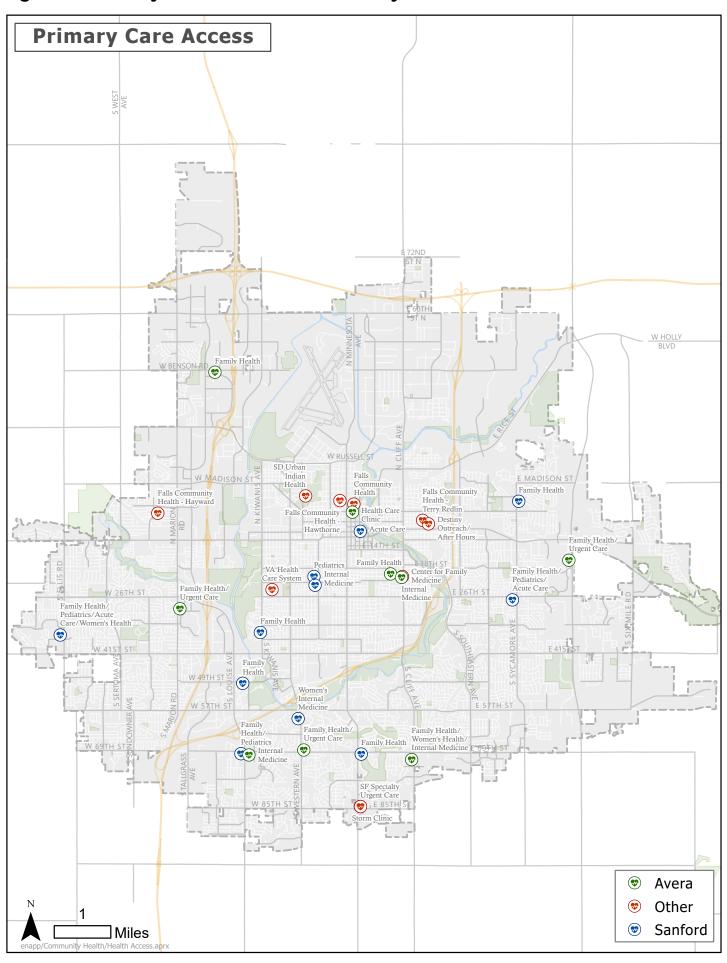
Sioux Falls Specialty Urgent Care 7600 S. Minnesota Avenue | www.sfsh.com/urgent-care

Sioux Falls VA Health Care System

2501 W. 22nd Street | www.siouxfallsva.com

Storm Clinic | 7600 South Minnesota Avenue www.stormclinic.com

Figure 116: Primary Care Access Sites in the City of Sioux Falls



DATA SOURCE: City of Sioux Falls Civic Analytics

# **Quality of Care**

It is important for individuals to be able to access care and afford needed services, but the quality of those services are just as important in helping someone achieve their best possible health and well-being. Preventive care is important to help individuals reduce their risk for disease, as well as to reduce disability and premature death. Ensuring regular checkups and screenings can help reduce health care costs and improve both longevity and quality of life.

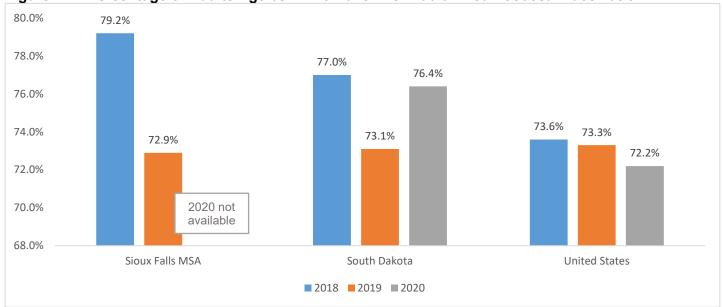
Overall, residents in the Sioux Falls MSA give high marks to the quality of care available in the area, with 73 percent of respondents to the 2021 CHA Resident Survey rating quality of health care available in the community as "excellent" or "very good." Ratings were slightly higher in the 2021 National Community Survey of Sioux Falls residents, with 85 percent of respondents rating the quality of health services in the community as "excellent" or "good." 20

#### **Preventive Care: Immunizations**

Every year in the U.S., thousands of adults become seriously ill and may be hospitalized because of diseases that vaccines can help prevent. From childhood through adulthood, following recommended vaccine guidelines can greatly reduce disease risk. Vaccines are not only important for an individual's health, but also to protect those in the community who may not be able to get vaccines due to age or health conditions.<sup>71</sup>

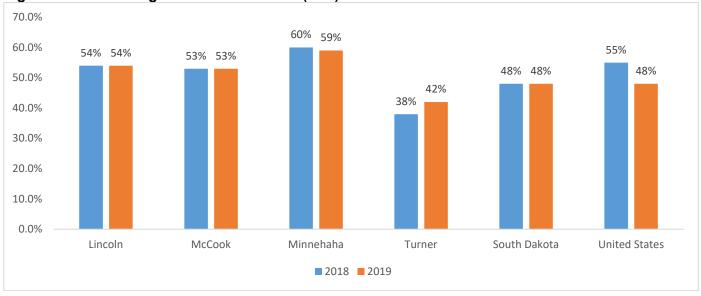
When looking at vaccination rates, there are areas where residents in the Sioux Falls MSA are doing well, such as adults over the age of 65 who have received a pneumococcal (pneumonia) vaccine (Figure 117), but there are other areas where there is room for improvement, including the number of residents who get an annual flu vaccination (Figure 118).

Figure 117: Percentage of Adults Age 65+ Who Have Ever Had a Pneumococcal Vaccination



DATA SOURCE: Centers for Disease Control and Prevention. (2019). BRFSS Prevalence & Trends Data. National Center for Chronic Disease Prevention and Health Promotion, Division of Population Health. https://www.cdc.gov/brfss/brfssprevalence/

Figure 118: Percentage of Fee-For-Service (FFS) Medicare Enrollees with Annual Flu Vaccination



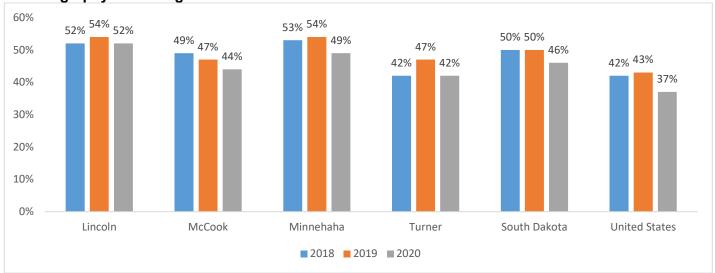
DATA SOURCE: Centers for Medicare and Medicaid Services. (2020). Mapping Medicare Disparities. Office of Minority Health. https://www.cms.gov/About-CMS/Agency-Information/OMH/OMH-Mapping-Medicare-Disparities.

#### **Preventive Care: Screenings and Examinations**

Preventive screenings can detect diseases in early stages when they are easier to treat. Cancer screenings like mammography and colonoscopy are important for adults, while other routine exams like dental checkups are important for individuals of all ages.

Breast cancer is the second most common cancer in women, and mammograms can help detect breast cancer as early as three years before it can be felt. Although mammography rates in the elderly population in the Sioux Falls MSA are slightly higher than state and national rates, only about half of women ages 65-74 received an annual mammogram (Figure 119).

Figure 119: Percentage of Female Medicare Enrollees Ages 65-74 that Received an Annual Mammography Screening.

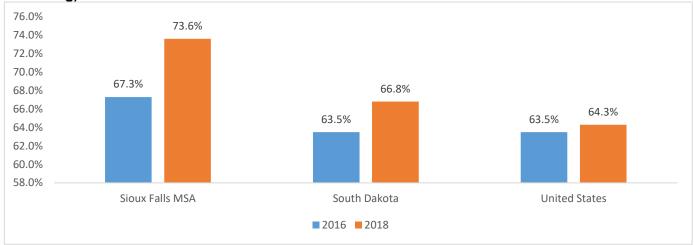


DATA SOURCE: Centers for Medicare and Medicaid Services. (2020). Mapping Medicare Disparities. Office of Minority Health. https://www.cms.gov/About-CMS/Agency-Information/OMH/OMH-Mapping-Medicare-Disparities.

Colorectal cancer (CRC) is the second leading cause of cancer-related deaths among men and women in the United States. However, many people who are at risk of CRC are not being screened according to national guidelines. An estimated 60 percent of CRC deaths could be prevented if all men and women aged 50 years or older in the United States were

regularly screened.<sup>72</sup> The Healthy People 2030 target is to reach 74.4 percent of adults getting screened according to the national guidelines.73 With an increasing trend in recent years, the Sioux Falls MSA is doing better than the state and national average and is approaching the Healthy People 2030 target (Figure 120).

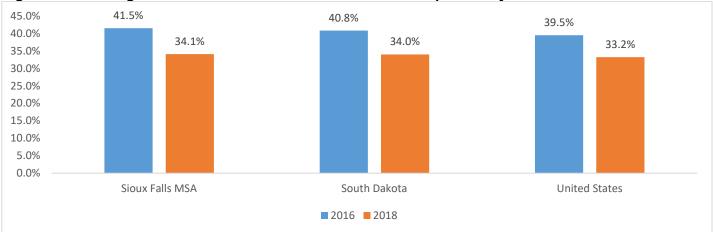
Figure 120: Percentage of Adults Age 50-75 Who Have Had a Colonoscopy (colorectal cancer screening) Within the Past 10 Years



DATA SOURCE: Centers for Disease Control and Prevention. (2018). BRFSS Prevalence & Trends Data. National Center for Chronic Disease Prevention and Health Promotion, Division of Population Health. https://www.cdc.gov/brfss/brfssprevalence/

The prostate-specific antigen (PSA) test can be used as a screening tool to detect prostate cancer. Compliance with PSA screening guidelines is poor across the board at the MSA, state, and national levels (Figure 121).

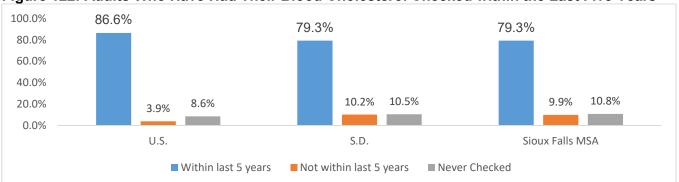
Figure 121: Men aged 40+ who have had a PSA test within the past two years



DATA SOURCE: Centers for Disease Control and Prevention. (2018). BRFSS Prevalence & Trends Data. National Center for Chronic Disease Prevention and Health Promotion, Division of Population Health. https://www.cdc.gov/brfss/brfssprevalence/

High blood cholesterol is one of the leading risk factors for heart disease.<sup>74</sup> More than three-fourths of adults in the Sioux Falls MSA have had their blood cholesterol checked within the last five years. Just under 11 percent have never had a blood cholesterol screening (Figure 122).

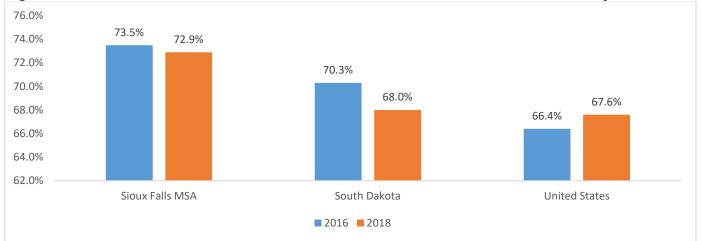
Figure 122: Adults Who Have Had Their Blood Cholesterol Checked within the Last Five Years



DATA SOURCE: Centers for Disease Control and Prevention. (2018). BRFSS Prevalence & Trends Data. National Center for Chronic Disease Prevention and Health Promotion, Division of Population Health. https://www.cdc.gov/brfss/brfssprevalence/

According to the World Health Organization, oral diseases are exceedingly prevalent, burdensome, and costly to treat.<sup>48</sup> Common oral diseases are dental caries (decay), periodontal disease (gum disease), and oral cancer. However, much of this burden of disease is preventable or easier to treat if caught early. More than one in four adults in the Sioux Falls MSA did not have a dental visit in the past year, according to 2018 data (Figure 123).

Figure 123: Adults Who Visited the Dentist or Dental Clinic within the Past Year for Any Reason



DATA SOURCE: Centers for Disease Control and Prevention. (2018). BRFSS Prevalence & Trends Data. National Center for Chronic Disease Prevention and Health Promotion, Division of Population Health. https://www.cdc.gov/brfss/brfssprevalence/

Hospital care represents the largest component of U.S. healthcare expenditures. As a result, reducing potentially preventable hospitalizations has become a priority among policymakers and public and private payers. Potentially preventable hospitalizations are inpatient stays for treating ambulatory care sensitive conditions (ACSCs) that evidence suggests may be avoidable, in part, through timely and quality primary and preventive care. Examples include complications

of diabetes or asthma. This measure may also indicate a tendency to overuse emergency departments and urgent care as a main source of care.

Preventable hospital stays can be looked at as both a quality of care and an access to care measure. The rate of hospital stays for ACSCs in Sioux Falls MSA counties are comparable to the state average, but are much higher than the national average Table 22).

The pandemic reinforces what we

already know. We can't keep people

head and food on the table.<sup>76</sup>

KAISER PERMANENTE

healthy if they don't have a roof over their

- BECHARA CHOUCAIR, M.D., SENIOR VICE

PRESIDENT AND CHIEF HEALTH OFFICER,

# TABLE 17: RATE OF HOSPITAL STAYS FOR AMBULATORY-CARE SENSITIVE CONDITIONS PER 100,000 MEDICARE ENROLLEES

Lincoln	McCook	Minnehaha	Turner	South Dakota	United States
4,927	4,743	4,361	3,970	4,189	2,565

DATA SOURCE: Centers for Medicare and Medicaid Services. (2020). Mapping Medicare Disparities. Office of Minority Health. https://www.cms.gov/About-CMS/Agency-Information/OMH/OMH-Mapping-Medicare-Disparities

#### SOCIAL AND ECONOMIC FACTORS

Social Determinants of Health, are factors related to the environments where people live, learn, work, worship, and play. These factors affect physical and mental health, as well as overall quality of life. In fact, it has been estimated that only about 20 percent of the factors that influence our health can be addressed by access to good quality medical care, while as much as 50 percent of variation in population health could be as a result of the impact of determinants<sup>32</sup> such as:

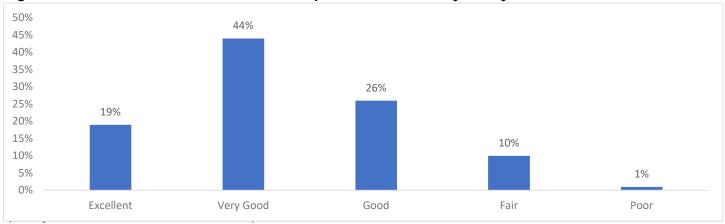
- · Education, employment, and income.
- Access to healthy foods and opportunities to be physically active.
- The physical environment, including air and water quality, and elements of the built environment such as housing, transportation, and neighborhoods.
- · Language and literacy skills.
- · Racism, discrimination, and violence.

While COVID-19 has been the prevailing health topic of 2020 and 2021, along with pandemic-related impacts on jobs, housing, and access to food, many of these social and economic factors have been impacting residents' health for decades. Income, education, employment, safety, and other factors directly impact how well and how long we live. They affect our residents' ability to make healthy choices, pay for housing, manage stress, or access medical care. This section of the CHA report focuses on many of these social determinants of health.

#### Crime and Safety

Perceptions of safety and security impacts stress levels and the ability of residents to utilize community resources such as trails and parks. In general, the majority of residents responding to the 2021 CHA Survey rated the community as a safe place to live (Figure 124).





DATA SOURCE: 2021 Community Health Assessment Resident Survey. Completed by Sioux Falls CHA Partners February 2021.

The 2021 National Community Survey asked residents more specific questions about overall feelings of safety, how safe they feel from specific types of crime, as well as how they rank various safety agencies like police, fire and emergency medical services. While

overall feelings of safety declined in the 2021 survey, residents rate safety in their neighborhoods and in the downtown area high and also give high marks to police, fire, and ambulance services in the city (Table 18).

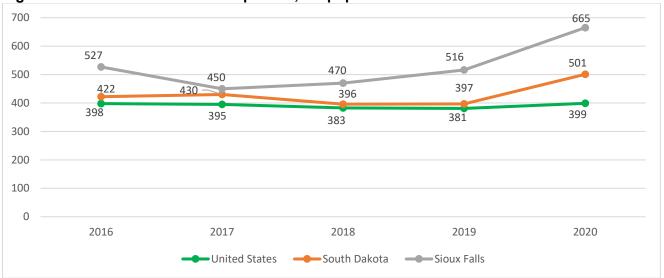
TABLE 18: RESIDENT RATINGS TO VARIOUS ASPECTS OF SAFETY IN THE CITY OF SIOUX FALLS

	2015	2017	2019	2021
Overall feeling of safety	79%	77%	80%	67%
Safe in neighborhood	93%	95%	97%	93%
Safe downtown/commercial area	85%	86%	88%	90%
Police	83%	89%	84%	83%
Fire	96%	97%	94%	94%
Ambulance or EMS services	92%	84%	83%	85%
Crime prevention	71%	71%	71%	65%
From property crime	N/A	N/A	N/A	72%
From violent crime	N/A	N/A	N/A	75%
Emergency preparedness	72%	71%	73%	69%
Traffic enforcement	64%	65%	68%	69%
Street lighting	64%	68%	68%	72%

DATA SOURCE: Sioux Falls, SD The National Community Survey Report of Results 2021. The National Research Center. Accessed at https://www.siouxfalls.org/council/community-survey/survey-results/21-report-of-results

After a period of holding steady at both state and national levels, there was a significant increase in the rate of violent crime in South Dakota between 2019 and 2020. There has also been a gradual increase in violent crime in Sioux Falls, according to data from the Sioux Falls Police Department. (Figure 125).

Figure 125: Rate of Violent Crime\* per 100,000 population



\*Violent crime includes murder (including manslaughter), rape, robbery, and aggravated assault.

DATA SOURCE: City level data from: Sioux Falls Police Department 2020 Annual Report. State and National Data from: Federal

Bureau of Investigation Uniform Crime Reporting Program (2020). Trend of Violent Crime from 2010 to 2020. Crime Data Explorer.

https://crime-data-explorer.app.cloud.gov/pages/home

Trafficking and use of illegal substances remain a concern in the Sioux Falls area. Cocaine, fentanyl, heroin, and methamphetamine are all drugs of concern in the community (Table 19). Emergency services respond to overdose calls in Sioux Falls, with the majority of overdose calls being opioid-related. Fentanyl has quickly become a major concern as it is linked with a high rate of overdose deaths.

The Sioux Falls Area Drug Task Force (SFADTF) seized over 308 grams of fentanyl and 281 grams of heroin in 2020. According to the South Dakota Vulnerability Assessment completed in 2019, Lincoln and Minnehaha Counties within the Sioux Falls MSA have been identified as "high intensity drug trafficking" areas.<sup>12</sup>

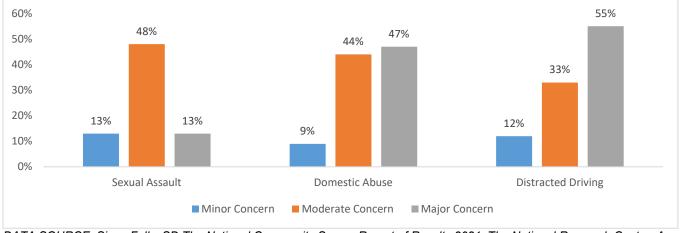
**TABLE 19: DRUG SEIZURES IN SIOUX FALLS** 

	2016	2017	2018	2019	2020
Cocaine/Crack (grams)	1406.17	839.57	541.42	2,019.66	158.74
Methamphetamine (pounds)	37.98	11.16	56.32	133.35	64.26
Heroin (grams)	91.81	139.85	3,828.85	35.63	281.44
Fentanyl (grams)	0	0	0	47.72	308.13
Synthetic Marijuana (grams)	804.04	373.44	392.39	613.01	19.73
Ecstasy (tablets)	0	2	8	44	8.5
Meth Labs	4	0	0	2	0

DATA SOURCE: Sioux Falls Police Department 2020 Annual Report

When the National Community Survey asked Sioux Falls residents to list their top concerns in the area of safety, 91 percent named domestic abuse as a major or moderate concern, 88 percent said distracted driving, and 87 percent listed sexual assault as a major or moderate concern (Figure 126).

Figure 126: Resident Ratings of Top Concerns Related to Safety



DATA SOURCE: Sioux Falls, SD The National Community Survey Report of Results 2021. The National Research Center. Accessed at https://www.siouxfalls.org/council/community-survey/survey-results/21-report-of-results

# **Digital Access**

Digital access influences several aspects of life including access to social, economic, and health care resources. Digital equity describes a state when all individuals and communities have the needed information technology resources and abilities to fully participate in society, democracy, and economy.<sup>77</sup> To achieve digital equity, three main barriers need to be remedied, including:

- Access to affordable, reliable, robust broadband Internet service;
- Access to information technology devices (e.g. tablets, desktop computers, laptops) that best meet the needs of the user; and

Digital literacy skills to comfortably navigate the internet and use technology as part of daily life activities.

In the Sioux Falls MSA, 13.7 percent of households lack internet connection at home, while 7.8 percent lack a computer (Table 20). According to the 2021 National Community Survey, 76 percent of Sioux Falls residents stated they access the internet from home several times a day, but only 64 percent rate the quality of their internet service at home as excellent or good.20

**TABLE 20: DIGITAL ACCESS IN HOUSEHOLDS** 

	Sioux Falls	Sioux Falls MSA	Lincoln	McCook	Minnehaha	Turner	South Dakota	U.S.
Households with no computer	7.7%	7.8%	4.6%	10.5%	8.1%	17.0%	11.5%	9.7%
Without Internet	13.4%	13.7%	8.7%	19.0%	14.3%	25.4%	18.9%	17.0%

DATA SOURCE: United States Census Bureau. (2019). American Community Survey Data. https://www.census.gov/programs-surveys/acs/data.html

A digital equity survey conducted by the City of Sioux Falls in 2020 found similar rates of Internet and computer penetration. However, rates varied markedly by census tract (Figure 127 and 128). The survey showed that the share of minorities, less educated, and lower earning individuals without home Internet access was roughly seven times higher compared to White, non-Hispanic residents with higher education and higher incomes.<sup>23</sup>

Sioux Falls, South Dakota No Internet Access Households oe: ACS 2015-2019 0.0% - 4.9% 115 50% - 99% 10.0% - 14.9% 115 38 15.0% - 100% PURDUE Certie to Regional DIGITAL INCLUSION ALLI

Figure 127: Households in Sioux Falls with No Internet Access by Census Tract

DATA SOURCE: Individual Digital Capital Survey: Key Findings. 2020. https://siouxfalls.org/digitalequity

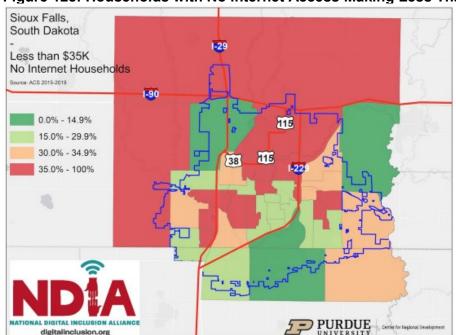


Figure 128: Households with No Internet Access Making Less Than \$35,000 per Year

DATA SOURCE: Individual Digital Capital Survey: Key Findings. 2020. https://siouxfalls.org/digitalequity

digitalinclusion.org

#### **Education**

Studies show that Americans with more education are likely to live longer, healthier lives. Someone with higher educational attainment, for example, may be more likely to be employed at a job that provides health promoting benefits such as health insurance, paid leave, and retirement. Individuals with higher levels of education may also be more likely to learn about healthy behaviors and how to advocate for their health or the health of their families.<sup>78</sup>

The Sioux Falls MSA has slightly better educational attainment rates than South Dakota and the U.S. In the MSA, 23 percent of the population ages 25 years and over have completed a four-year college degree or higher, compared with an average of 20 percent at the state and national levels. The percentage of individuals with less than high school education is also lower in the MSA compared to state and national rates (Table 21).

TABLE 21: EDUCATIONAL ATTAINMENT (PERCENT OF POPULATION 25 YEARS AND OVER)

	Sioux Falls	Sioux Falls MSA	Lincoln	McCook	Minnehaha	Turner	South Dakota	U.S.
Less than High School	7.7%	7.2%	5.2%	11.3%	7.6%	8.0%	8.3%	12%
High School or Equivalent	24.8%	26.1%	23%	35%	26.4%	33.7%	30.2%	27%
Some College, no degree	20.8%	20.6%	20.2%	16.3%	20.9%	19.9%	21.1%	20.4%
Associate's Degree	11.5%	12.7%	14.1%	13.3%	12.2%	14.6%	11.5%	8.5%
Bachelor's Degree	23.8%	23.2%	24.8%	16.6%	23.2%	17.1%	19.9%	19.8%
Graduate or Professional Degree	11.4%	10.3%	12.7%	7.6%	9.9%	6.6%	8.9%	12.4%

DATA SOURCE: United States Census Bureau. (2019). American Community Survey Data. https://www.census.gov/programs-surveys/acs/data.html

When asked about education opportunities in Sioux Falls, residents responding to the National Community Survey have consistently highlighted K-12 education and public library services as top resources. However, child care availability and affordability received lower marks (Table 22).

TABLE 22: RESIDENT RANKINGS OF EDUCATIONAL OPPORTUNITIES IN SIOUX FALLS (% RATED "EXCELLENT" OR "GOOD")

	2015	2017	2019	2021
Availability of affordable quality childcare/preschool	57%	57%	54%	60%
K-12 Education	82%	80%	83%	80%
Adult educational opportunities	73%	74%	75%	71%
Public library services	91%	87%	91%	90%

DATA SOURCE: Sioux Falls, SD The National Community Survey Report of Results 2021. The National Research Center. Accessed at https://www.siouxfalls.org/council/community-survey/survey-results/21-report-of-results

#### **Employment and Income**

Socioeconomic status has long been recognized as a factor that impacts health and mortality. In the U.S., adults with low socioeconomic status are five times as likely to report being in poor or fair health, and they have higher rates of chronic conditions such as diabetes, heart disease, and stroke compared to higher income Americans.<sup>79</sup>

On average, American adults spend more than half of their waking hours at work. Having a job provides more than just a paycheck. It can also offer benefits and the stability needed to maintain proper health.

Like most municipalities across the nation, communities in the Sioux Falls MSA experienced challenges over the past two years related to the COVID-19 pandemic. While not immune to the impacts of the pandemic on employment and income, South Dakota and the Sioux Falls MSA fared better than many other areas of the nation. A strong local economy and a long-standing commitment to fiscal discipline allowed Sioux Falls to remain resilient. These factors, combined with a lower unemployment rate compared to the national average, resulted in Sioux Falls ranking tenth on SmartAsset's top 10 Most Recession-Resistant Cities of 2020.80

Local confidence in the economy remains high, with 63 percent of Sioux Falls MSA residents responding to the 2021 CHA Survey rating employment and economic opportunities as excellent or very good. Only 14 percent gave rankings of fair or poor.<sup>19</sup>

More people participate in the labor force, and unemployment rates in the City of Sioux Falls and the Sioux Falls MSA are lower than state and national rates (Table 23). An October 2021, snapshot from the South Dakota Department of Labor showed an unemployment rate in the Sioux Falls MSA of

2.2 percent, a full percentage point lower than the same time period in 2020. That same snapshot for October 2021 showed South Dakota's unemployment rate at 2.8 percent and a national unemployment rate of 4.6 percent.<sup>81</sup>

# **TABLE 23: EMPLOYMENT STATUS, PERCENT OF POPULATION**

	Sioux Falls	Sioux Falls MSA	Lincoln	McCook	Minnehaha	Turner	South Dakota	U.S.
Civilian Labor Force (population over 16 years)	73.8%	74.2%	74.9%	70.4%	74.6%	66.4%	67.7%	63.0%
Unemployment Rate	3.0%	2.7%	2.0%	3.1%	2.9%	2.1%	3.4%	5.3%

DATA SOURCE: United States Census Bureau. (2019). American Community Survey Data. https://www.census.gov/programs-surveys/acs/data.html

# TABLE 24: INCOME IN THE PAST 12 MONTHS, 2019 INFLATION-ADJUSTED DOLLARS

	Sioux Falls	Sioux Falls MSA	Lincoln	McCook	Minnehaha	Turner	South Dakota	U.S.
Median Household Income	\$59,912	\$65,621	\$82,473	\$61,507	\$61,772	\$59,242	\$58,275	\$62,843
Median Family Income	\$79,533	\$82,404	\$95,160	\$76,328	\$80,213	\$75,043	\$75,168	\$77,263

DATA SOURCE: United States Census Bureau. (2019). American Community Survey Data. https://www.census.gov/programs-surveys/acs/data.html

While poverty rates in the Sioux Falls MSA for both adults and children are well below state and national averages, poverty remains an important community issue because of its widespread impacts on affected individuals and families (Table 25).

# TABLE 25: PERCENTAGE OF POPULATION IN POVERTY IN THE PAST 12 MONTHS

	Sioux Falls	Sioux Falls MSA	Lincoln	McCook	Minnehaha	Turner	South Dakota	U.S.
Poverty, all (%)	10.4	8.7	4.1	9.7	10.0	10.9	13.1	13.4
Children in Poverty (% under 18 years)	12.9	10.4	3.8	9.6	12.6	12.2	17.3	18.5

DATA SOURCE: United States Census Bureau. (2019). American Community Survey Data. https://www.census.gov/programs-surveys/acs/data.html

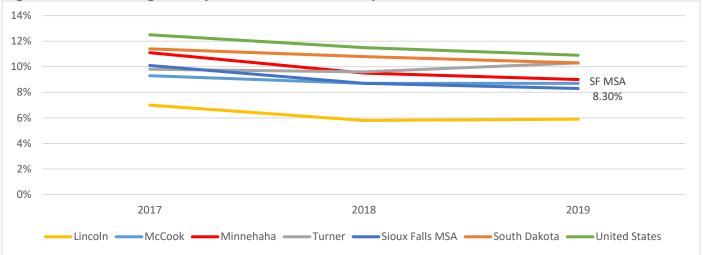
#### **Food Access**

When individuals are struggling to access healthy foods, they are at increased risk for experiencing dietrelated health conditions such as diabetes or high blood pressure. For children who do not have enough healthy food, academic achievement and even future economic prosperity are at risk.

In South Dakota, one out of every nine individuals is food insecure, and one out of every six children is at

risk of going hungry. In addition, families often need to make tradeoffs, deciding whether to purchase food or spend their income on other necessities including utilities, housing, or medical care.<sup>82</sup> Food insecurity (i.e. limited or uncertain access to adequate food), is less prevalent in the Sioux Falls MSA when compared to state and U.S. averages. Yet, more than eight percent of the population in the area are food insecure (Figure 129).

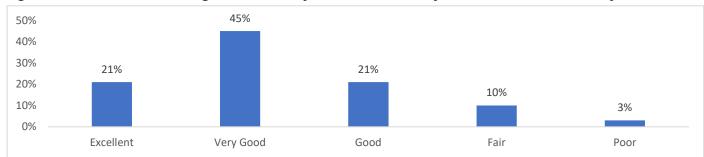
Figure 129: Percentage of Population Who Lack Adequate Access to Food.



DATA SOURCE: Map the Meal Gap, Feeding America 2018-2019. https://map.feedingamerica.org/. Sioux Falls MSA data based on Sioux Falls Metropolitan Statistical Area Calculator.

In the 2021 CHA Survey, 66 percent rated the ability of residents to access healthy and nutritional foods in the community as excellent or very good, while 13 percent rated access as fair or poor (Figure 130). Reasons for lower rankings include cost of food (16 percent) and limited access to grocery stores (10 percent) (Figure 131).

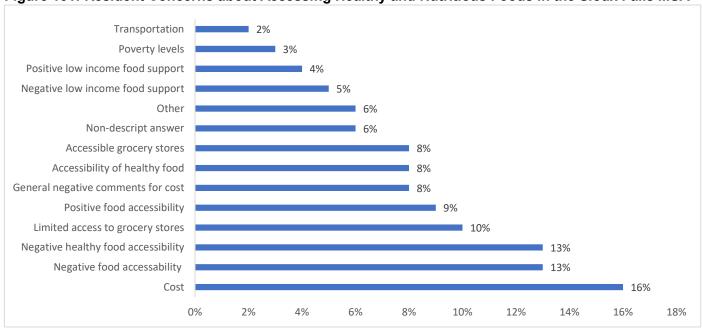
Figure 130: Resident Rankings of the Ability to Access Healthy Foods in the Community



DATA SOURCE: 2021 Community Health Assessment Resident Survey. Completed by Sioux Falls CHA Partners February 2021.

In compiling results from the 2021 CHA Survey, the researcher grouped individual responses together into the categories below (Figure 131). While some category names seem similar, such as "negative healthy food accessibility" and "negative food accessibility," there are slight variations that reflect individuals' responses about the presence of too many unhealthy options in the community, such as fast food and convenience stores, and not enough healthy options like gardens, farmers markets, and stores that offer affordable healthy foods.

Figure 131: Resident Concerns about Accessing Healthy and Nutritious Foods in the Sioux Falls MSA



DATA SOURCE: 2021 Community Health Assessment Resident Survey. Completed by Sioux Falls CHA Partners February 2021.

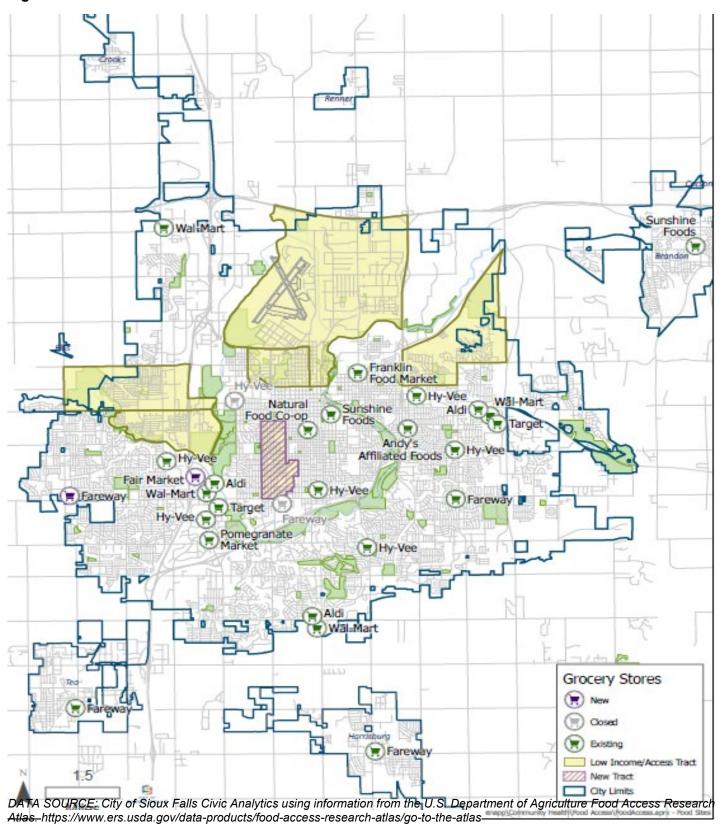
In addition to cost and affordability of healthy food, the other dimension of food access has to do with the physical environment, that is, the ability of individuals in the population to access physical locations where they can purchase healthy food options like fresh fruits and vegetables.

There are geographic areas within the Sioux Falls community where residents have no easily accessible options for purchasing affordable and healthy foods.

Food deserts are geographic areas with a certain threshold of individuals who have low income levels and low access to healthy food.<sup>18</sup>

In the following map (Figure 132), the yellow shaded areas represent low income, low access census tracts (food deserts) in the Sioux Falls area. Since the last community health assessment was completed, a new food desert appeared in the central part of the city (represented by yellow outlined in purple below).

Figure 132: Low Income Low Access Census Tracts in the Sioux Falls Area



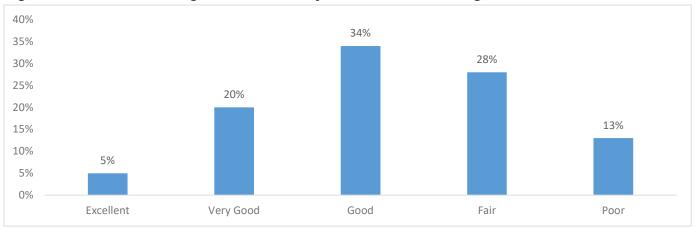
# **Housing and Homelessness**

Feedback received from the 2021 CHA Resident Survey and Focus Groups consistently pointed out housing access as one of the biggest barriers to creating a healthy community. Among MŠĂ residents, 41 percent consider availability of affordable housing in the area as fair or poor (Figure 133). Specific concerns raised by the survey respondents include general access and availability of housing, cost, availability of senior and low income housing, and cost of renting (Figure 134).

In only 5 percent of all U.S. counties can a full-time minimum-wage worker afford a one-bedroom rental home at fair market rent.<sup>69</sup>

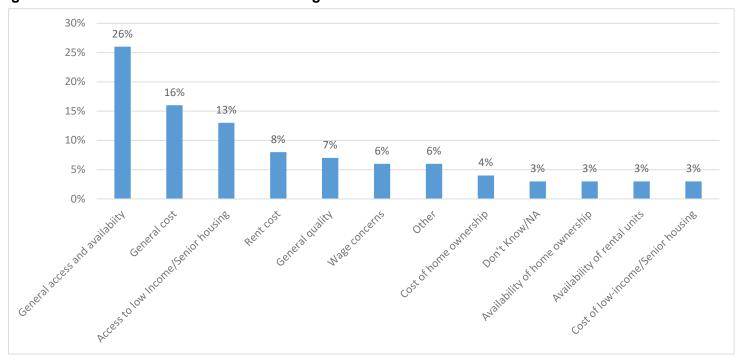
- NATIONAL LOW INCOME HOUSING COALITION, OUT OF REACH 2020

Figure 133: Resident Rating of the Availability of Affordable Housing



DATA SOURCE: 2021 Community Health Assessment Resident Survey. Completed by Sioux Falls CHA Partners February 2021.

Figure 134: Resident Concerns about Housing in the Sioux Falls MSA



DATA SOURCE: 2021 Community Health Assessment Resident Survey. Completed by Sioux Falls CHA Partners February 2021.

In the Sioux Falls MSA, the median sales price for homes is approximately \$235,000.84 Median gross rent in Sioux Falls is higher than the state of South Dakota, but lower than the U.S. (Table 26).

#### TABLE 26: MEDIAN VALUE OF OWNER-OCCUPIED HOUSING UNITS AND MEDIAN GROSS RENT

	Sioux Falls	Sioux Falls MSA	Lincoln	McCook	Minnehaha	Turner	South Dakota	U.S.
Median Value	\$189,800	\$193,300	\$228,800	\$137,800	\$186,800	\$122,400	\$167,100	\$217,500
Median Gross Rent	\$827	\$829	\$963	\$575	\$813	\$661	\$747	\$1,062

DATA SOURCE: United States Census Bureau. (2019). American Community Survey Data. https://www.census.gov/programs-surveys/acs/data.html

Affordable housing typically means a person is paying no more than 30 percent of their income toward monthly rent or mortgage.<sup>85</sup> According to a 2021 housing needs assessment completed by the Augustana Research Institute, there are an estimated 28 units affordable and available for every 100 households below 30 percent of the area median family income.<sup>22</sup> Table 27 below shows changes in

Fair Market Rent for the past four years, and Table 28 shows the annual income needed to afford various housing sizes. The data in these tables show that individuals at the minimum and other lower wage levels cannot afford any bedroom size in the area. The lowest income renters have the highest housing cost burden of any group in the city.

TABLE 27: SIOUX FALLS MSA FAIR MARKET RENTS FOR ALL BEDROOM SIZES

Year	Efficiency	One-Bedroom	Two-Bedroom	Three-Bedroom	Four-Bedroom
FY2018	\$535	\$639	\$781	\$1,045	\$1,217
FY2019	\$612	\$715	\$873	\$1,045	\$1,326
FY2020	\$599	\$685	\$839	\$1,096	\$1,302
FY2021	\$642	\$714	\$874	\$1,150	\$1,435
% Increase 2018-2021	20%	11.73%	11.9%	10%	17.9%

DATA SOURCE: U.S. Department of Housing and Urban Development (HUD). (2019). FY19 Fair Market Rents Documentation System. https://www.huduser.gov/portal/datasets/fmr/fmrs/FY2019\_code/2019summary.odn

TABLE 28: RELATIONSHIP BETWEEN INCOME AND HOUSING AFFORDABILITY

Annual Income Needed to Afford	South Dakota	Sioux Falls MSA
Zero-bedroom	\$22,662	\$25,680
One-Bedroom	\$25,167	\$28,560
Two-Bedroom	\$32,159	\$34,960
Three-Bedroom	\$43,378	\$46,000
Four-Bedroom	\$51,684	\$57,400
Minimum Wage	South Dakota	Sioux Falls MSA
Minimum Wage	\$9.45/hour	\$9.45/hour
Rent Affordable at Minimum Wage	\$491/month	\$491/month

DATA SOURCE: National Low Income Housing Coalition. (2021). Out of Reach 2021: South Dakota. https://reports.nlihc.org/oor/south-dakota

Sioux Falls is a member of the AARP Network of Age-Friendly communities, and some people find they need or want to move out of their home as they get older. In a survey specific to needs and concerns of older adults, the Sioux Falls Health Department surveyed adults over the age of 45 as part of its

age-friendly planning. Residents were asked what issues might be a factor in deciding whether to move out of their current home. As seen in Table 29, older adults are concerned about maintaining their current homes and wanting a home that will help them live independently as they age.

TABLE 29: FACTORS OLDER ADULTS WOULD CONSIDER IN MOVING OUT OF THEIR CURRENT RESIDENCE.

	A major factor	A minor factor	Not a factor at all	Not sure
Wanting a smaller size home	30%	29%	38%	3%
Wanting a larger size home	2%	6%	88%	4%
The cost of maintaining your current residence	33%	39%	25%	3%
Wanting a home that will help you live independently as you age, for example a home without stairs	60%	21%	18%	2%

DATA SOURCE: 2020 Age-Friendly Sioux Falls Survey. Sioux Falls Health Department.

#### **Homelessness**

After years of steady decline, homelessness in Sioux Falls is on the rise again. In 2021, Sioux Falls' sheltered homeless population rose by 21 percent compared to prepandemic levels in 2019. (Figure 135).

Figure 135: Sheltered Homeless Population in Sioux Falls, 2014-2021



\*Sheltered counts only for 2021 due to COVID-19 pandemic DATA SOURCE: South Dakota Housing Development Authority. (2021). Homeless Counts. Housing for the Homeless. https://www.sdhda.org/housing-for-the-homeless/public-awareness/homeless-counts

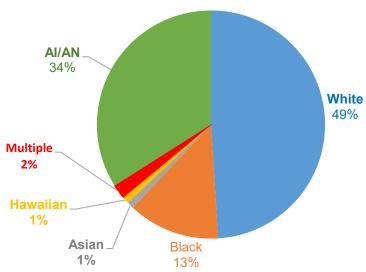
The City of Sioux Falls fair housing call-line saw an increase in the number of people identified as "at risk" for homelessness in 2021, with 326 residents who were "at risk" for homelessness during the time period of February to September 2021.86 An individual identified as being housing insecure typically lacks a source of steady income, is behind on rent, is dealing with a recent job loss, has a job but is still unable to meet financial obligations, and/or is in an eviction process.

During this timeframe, more than 2,100 residents were on the waitlist for housing choice vouchers, which provide subsidized, free or income-based housing to people struggling with homelessness, domestic violence, mental health or those with a disability.

Homelessness disproportionately affects people of color in Sioux Falls.<sup>22</sup> In 2020, American Indians were 45.6 more times likely as White residents to experience homelessness, and Black residents were

5.5 times as likely. Although American Indians make up only two percent of the population of the city of Sioux Falls, they comprised more than one-third of the population of homeless individuals in 2021 (Figure 136).

Figure 136: Sheltered Homeless Individuals in Sioux Falls (2021), by Race/Ethnicity



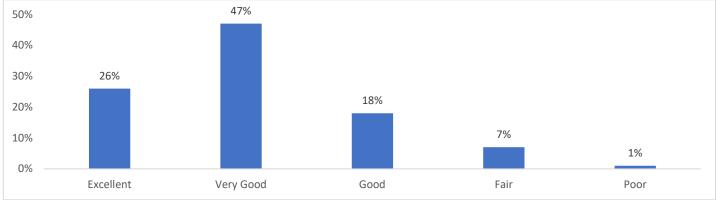
DATA SOURCE: South Dakota Housing Development Authority. (2021). Homeless Counts. Housing for the Homeless. https://www.sdhda.org/housing-for-the-homeless/public-awareness/homeless-counts

# PHYSICAL ENVIRONMENT Air and Water Quality

Among residents responding to the 2021 CHA Survey, 73 percent rate the community's environmental health as excellent or very good (Figure 137). Residents then had the opportunity to comment on factors they would either rate positively or negatively, and the survey researcher grouped responses into the

categories shown in Figure 138. Residents were able to provide multiple responses and gave positive ratings to factors such as drinking water quality and low impacts to air quality related to smog. However, residents expressed concern about pollution in the Big Sioux River and other bodies of water, as well as air quality as it relates to odors in the air.

Figure 137: Resident Ratings of the Community's Environmental Health



Data Source: 2021 Community Health Assessment Resident Survey. Completed by Sioux Falls CHA Partners February 2021.

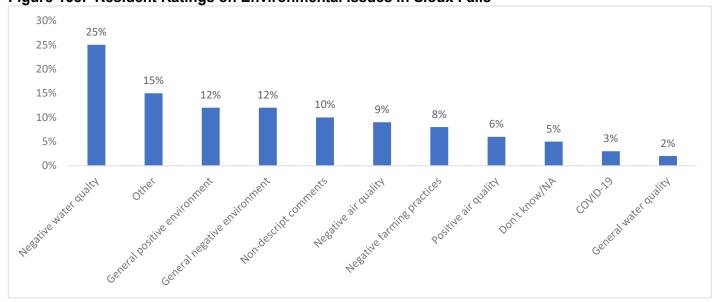


Figure 138: Resident Ratings on Environmental Issues in Sioux Falls

Data Source: 2021 Community Health Assessment Resident Survey. Completed by Sioux Falls CHA Partners February 2021.

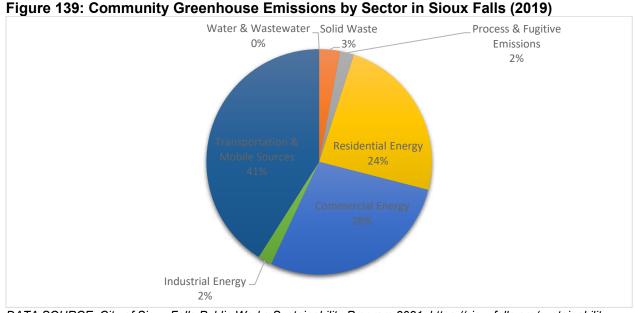
The City of Sioux Falls provides an average of 22.0 million gallons of water a day for use in homes, schools, hospitals, and businesses and ensures all required water quality standards are met. In numbers that far exceed minimum testing requirements, more than 170,000 analyses on more than 250 substances were conducted during 2020 to ensure reliable results and safe drinking water.87

#### **Greenhouse Gas Emissions**

The City of Sioux Falls Public Works Department distributed a community-wide survey in 2021 on the topic of climate and sustainability. More than 1,300 community residents responded, with 88 percent stating they were "concerned" or "very concerned" about sustainability and environmental issues, and

93 percent responding they felt it was "important" or "very important" for Sioux Falls to address sustainability and environmental issues.88 The Public Works department is currently in the process of finalizing a new Sustainability and Climate Action Plan, with plans to release the plan in Spring 2022.

One of the key areas being addressed in that plan is reducing greenhouse gas emissions. Starting in late 2020, the City of Sioux Falls began collecting data to identify greenhouse gas emissions. The findings showed that the transportation sector is the largest contributor of greenhouse emissions in the city, followed by commercial and residential energy for buildings (Figure 139).



DATA SOURCE: City of Sioux Falls Public Works Sustainability Program 2021. https://siouxfalls.org/sustainability

#### Radon

Another area of concern is radon exposure, which is the second leading cause of lung cancer in the U.S. behind smoking. As seen in the map below, all four counties in the Sioux Falls MSA are in a high-risk region with the potential for elevated indoor radon levels (Figure 140).

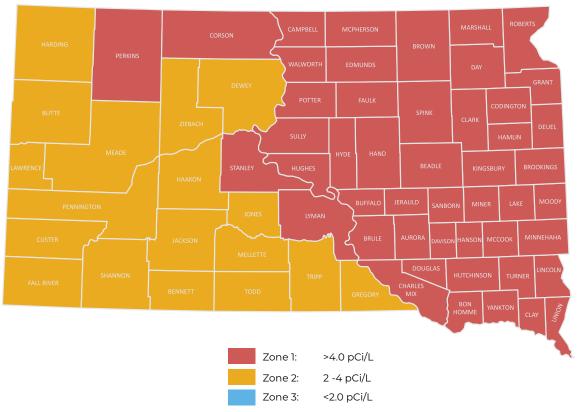


Figure 140: Radon Potential in South Dakota by County

DATA SOURCE: South Dakota Department of Agriculture & Natural Resources. EPA recommends avoiding long-term radon exposures above 4 pico couries/liter (pCi/L)Https://danr.sd.gov/Environment/AirQuality/Radon/default.aspx.

# **Physical Activity Environment**

#### Walkability

People living in neighborhoods with high walkability are more likely to be active and are more likely to have lower rates of diabetes and obesity than those living in less walkable areas.

Researchers<sup>89</sup> have found that, when compared to people living in a car-dependent area, people living in a walkable area are:

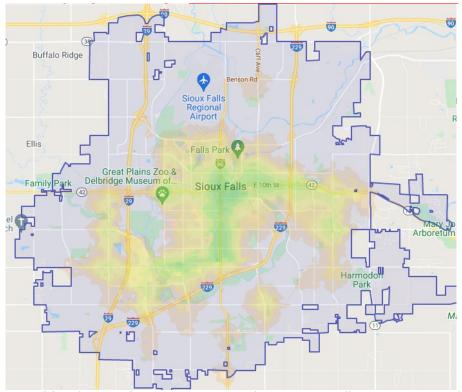
- 17 percent more likely to meet weekly recommended level of physical activity.
- · 42 percent less likely to be obese.
- · 39 percent less likely to have diabetes.
- · 14 percent less likely to have heart disease.
- · 23 percent less likely to have stressful days.
- 47 percent more likely to have a strong sense of community.

One way that walkability is represented in a community is by its Walk Score.<sup>28</sup>

This rating at the city and census tract level ranges from 0 (least walkable) to 100 (most walkable). Walk Score is calculated based on intersection density, residential density, and accessibility of amenities such as grocery stores, parks, and restaurants, which affect the ease of walking within a neighborhood. City-level and tract level values represent population-weighted aggregations of blocks. This means that areas in which people are unlikely to live, such as industrial areas or around bodies of water, do not contribute to the census tract Walk Score value.

The Walk Score for Sioux Falls is 37.4 out of 100, which indicates the city is "car-dependent" (e.g. most errands require a car). In the following image (Figure 141), green indicates better walkability, such as the downtown area of Sioux Falls that has a Walk Score of 81.

# Figure 141: Walk Score for Sioux Falls



DATA SOURCE: Walk Score. (2021). Living in Sioux Falls. https://www.walkscore.com/ strong satisfaction with the overall

# **Park and Recreation Access**

The Sioux Falls Parks and Recreation system includes more than 3,300-acres of parkland, made up of 80 parks, 13 undeveloped sites, five community centers, three enlarged gymnasiums, three golf courses, six ice rinks, five outdoor pools, and one indoor aquatic center. In addition, the City maintains a nearly 20-mile Greenway Recreation Trail and over 15 spur miles connecting to the main trail.

The Parks and Recreation department engages in park planning with a guideline of having parks within a half mile of residents' homes. The current park system plan, which extends through 2024, has a goal to "update existing neighborhood parks where needed and develop new neighborhood parks in underserved areas of the city to achieve an equitable level of service for neighborhood parks across the city."90

When asked to rate the parks and recreation programs and services in Sioux Falls, respondents to the 2021 National Community Survey expressed strong satisfaction with the overall quality of parks and trails (Table 30).

In addition, 73 percent of respondents to the 2021 CHA Survey rated the ability of residents to access physical activity and exercise opportunities as excellent or very good (Figure 142). However, areas of concern were identified through in the survey, including financial barriers (19 percent) and availability of gym/classes (13 percent).

TABLE 30: RESIDENT RATINGS OF PHYSICAL ACTIVITY ENVIRONMENT IN SIOUX FALLS (PERCENT "EXCELLENT" OR GOOD")

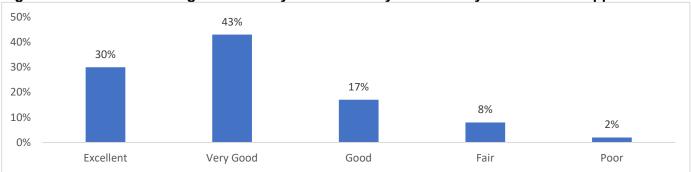
	2015	2017	2019	2021
Overall quality of parks and rec opportunities	N/A	N/A	N/A	85%
Availability of paths and walking trails	77%	79%	76%	83%
Fitness opportunities (Exercise classes, trails, etc.)	80%	84%	85%	86%
Recreational opportunities	73%	75%	78%	79%
City Parks	88%	89%	88%	88%
Recreation programs of classes	78%	80%	86%	80%
Recreation centers or facilities	76%	81%	84%	81%
Overall health and wellness opportunities	85%	88%	84%	84%

DATA SOURCE: Sioux Falls, SD The National Community Survey Report of Results 2021. The National Research Center. Accessed at https://www.siouxfalls.org/council/community-survey/survey-results/21-report-of-results



In addition, 73 percent of respondents to the 2021 CHA Survey rated the ability of residents to access physical activity and exercise opportunities as excellent or very good (Figure 142). However, areas of concern were identified through in the survey, including financial barriers (19 percent) and availability of gym/classes (13 percent).

Figure 142: Resident Rating of the Ability to Access Physical Activity and Exercise Opportunities



DATA SOURCE: 2021 Community Health Assessment Resident Survey. Completed by Sioux Falls CHA Partners February 2021.

According to data collected by the U.S. Census through its TIGER Geodatabases, the percentage of the population with adequate access to locations for physical activity varies among the four counties that comprise the Sioux Falls MSA (Table 31). The term adequate access is defined as living "reasonably close" to a park or recreational facility. Specifically, the measure looks at:

- Individuals who reside in a census block within a half mile of a park.
- Individuals who reside in an urban census block within one mile of a recreational facility.
- Individuals who reside in a rural census block that is within three miles of a recreational facility.

# TABLE 31: PERCENTAGE OF POPULATION WITH ADEQUATE ACCESS TO LOCATIONS FOR PHYSICAL ACTIVITY

Lincoln	Minnehaha	McCook	Turner	Sioux Falls MSA	SD	Top U.S. Performers*
80%	92%	28%	58%	86.9%	N/A	91%

<sup>\*</sup>Top U.S. Performers = 90th percentile.

DATA SOURCE: U.S. Census TIGER Geodatabases 2019, accessed at www.countyhealthrankings.org. Sioux Falls MSA data based on Sioux Falls Metropolitan Statistical Area Calculator.

# **Transportation**

The 2021 National Community Survey and 2021 CHA Survey asked residents to rate the transportation system. Public transportation availability was most often identified as a need. Only 42 percent of respondents positively rated the ease of travel by public transportation (Table 32).

TABLE 32: RESIDENT TRANSPORTATION RATINGS (% RATING POSITIVELY) IN SIOUX FALLS

	2008	2009	2013	2015	2017	2019	2021
Overall quality/Ease of travel	N/A	N/A	N/A	73%	77%	77%	66%
Paths and walking trails	N/A	77%	76%	77%	79%	76%	83%
Ease of walking	71%	74%	72%	66%	68%	71%	73%
Ease of travel by bicycle	68%	65%	63%	59%	59%	60%	60%
Ease of travel by public transportation	N/A	N/A	N/A	45%	42%	37%	42%
Public parking	N/A	N/A	N/A	51%	51%	49%	59%
Traffic flow	42%	41%	45%	46%	49%	52%	56%
Quality of bus or transit services	N/A	N/A	N/A	59%	56%	52%	56%

DATA SOURCE: Sioux Falls, SD The National Community Survey Report of Results 2021. The National Research Center. Accessed at https://www.siouxfalls.org/council/community-survey/survey-results/21-report-of-results

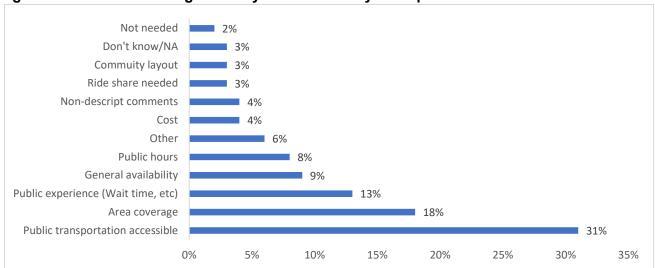
In addition, 30 percent of respondents to the resident survey believe that the ability to access daily transportation is fair or poor (Figure 143). Reasons for resident ratings about daily transportation are shown in Figure 144, where the survey researcher grouped responses into categories. Residents were able to provide multiple responses.

Figure 143: Resident Rating of Ability to Access Daily Transportation in the Sioux Falls MSA



DATA SOURCE: 2021 Community Health Assessment Resident Survey. Completed by Sioux Falls CHA Partners February 2021.

Figure 144: Resident Rating of Ability to Access Daily Transportation in the Sioux Falls MSA



DATA SOURCE: 2021 Community Health Assessment Resident Survey. Completed by Sioux Falls CHA Partners February 2021.

The Sioux Falls area is primarily car-dependent, with the majority or residents driving alone to work (Table 33).

TABLE 33: RESIDENT MODE OF TRANSPORTATION								
	Sioux Falls	Sioux Falls MSA	Lincoln	McCook	Minnehaha	Turner	South Dakota	U.S.
Mean Travel Time to Work (minutes)	16.9	18.6	19.5	26.2	17.9	25.5	17.2	26.9
Mode of Transporta	ation (perd	ent)						
Drove Alone	84.3	84.3	86.6	75.7	84.2	76.6	80.6	76.3
Carpool	8.5	8.1	7.5	10.1	8.1	10.6	8.4	9.0
Public Transportation	0.8	0.5	0.1	0.0	0.7	0.0	0.5	5.0
Walked	2.0	2.1	1.2	5.0	2.2	3.6	3.3	2.7
Other Means	1.1	1	0.3	0.7	1.1	1.9	1.2	1.8
Worked from Home	3.4	4.1	4.3	8.5	3.7	7.3	5.9	5.2

DATA SOURCE: United States Census Bureau. (2019). American Community Survey Data. https://www.census.gov/ programs-surveys/acs/data.html

The health assessment focus groups pointed out a large disconnect in transportation for the community. One of the continual issues the community faces is providing transportation for those who need it, when it is needed the most. Transportation plays an important role in ensuring that community members access health services and resources.

Additionally when miscommunication occurs between service providers, it can cause additional struggles for individuals trying to make it to multiple appointments at different locations and times. Some residents who experience the most difficult hardships with transportation include those with visible and invisible disabilities.

When asked what the City government can do to improve Sioux Falls, the top response was mobility, which includes roads, parking, public transportation,

traffic, snow removal, and walkability.<sup>20</sup> Other transportation concerns include the availability of public transportation (31 percent) and the coverage area of public transportation (18 percent).

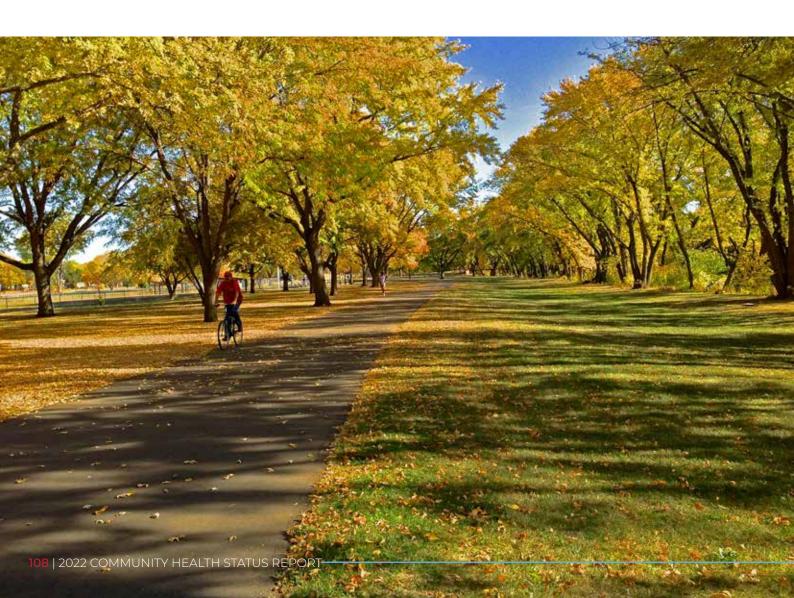
Cities are able to view walkability rankings with Walk Score<sup>28</sup>, as well as rankings of other transportation modes such as bicycling and public transit.

The table below compares Walk Score, Bike Score, and Transit Score for Sioux Falls and other South Dakota cities (Table 34). Although Sioux Falls has a significant recreational bike trail system, there are opportunities to improve infrastructure to support bicycling as a mode of transportation. The city's Bike Score of 46 (out of 100) indicates that the community is only "somewhat bikeable" and could benefit from additional infrastructure. The Transit Score of 17 (out of 100) indicates minimal transit options in the city.

TABLE 34: WALKSCORE RATINGS OF WALKABILITY, BIKEABILITY AND TRANSIT IN SOUTH DAKOTA CITIES

City	Walk Score	Transit Score	Bike Score
Sioux Falls	37	17	46
Aberdeen	35	-	66
Brookings	39	-	58
Rapid City	29	-	36
Watertown	35	-	50

DATA SOURCE: Walk Score. (2021). Living in Sioux Falls. https://www.walkscore.com/





## CONCLUSION

The public health challenges currently facing the Sioux Falls MSA are complex. The population is growing and becoming more diverse. Addressing health in an equitable way needs to be accorded a high priority.

From years of research on the social determinants of health, we know that clinical care is just a small part of what actually makes individuals healthy.3

As shown in this report, there are a number of factors driving poor health that relate more to our zip code than our genetic code. Solutions will require actions that go beyond health care, bringing together partners across several policy areas and sectors.

Strategies to improve health and well-being must address behavioral, environmental, and socioeconomic factors, as well as continue to promote better utilization of high quality health care services. Opportunities for improvement in the built environment and for addressing behavioral health determinants have been highlighted in this report.

As community partners, we will continue to promote health equity and sustainability, support crosssector collaboration, identify how a collaborative approach benefits all partners, engage stakeholders and residents, and create policy, systems, and environmental change.

Working together, we can help all residents live their healthiest life possible.

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#### **REFERENCES**

- 1. World Health Organization (WHO) Constitution. https://www.who.int/about/governance/constitution#:~:text=Health%20is%20a%20state%20of,belief%2C%20economic%20or%20social%20condition.
- United States Census Bureau. (2020). QuickFacts. https://www.census.gov/quickfacts/fact/table/US/ PST045219
- 3. United States Census Bureau. (2019). American Community Survey Data. https://www.census.gov/programs-surveys/acs/data.html
- 4. Centers for Disease Control and Prevention. (2019). BRFSS Prevalence & Trends Data. National Center for Chronic Disease Prevention and Health Promotion, Division of Population Health. https://www.cdc.gov/brfss/brfssprevalence/
- 5. South Dakota Department of Health Office of Health Statistics. Vital Statistics 2015-2019.
- South Dakota Department of Health Cancer Prevention Program. https://getscreened.sd.gov/registry/data/
- 7. South Dakota Department of Health Data Brief. June 2014. The Oral Health of South Dakota's Third Grade Children Compared to the general U.S. Third Grade Population. Accessed at https://doh.sd.gov/documents/Prevention/ oralhealth/2014survey.pdf
- Centers for Disease Control and Prevention (CDC). (2019). High School Youth Risk Behavior Survey Data. YRBSS Explorer. http://yrbs-explorer.services.cdc.gov/
- 9. Falls Community Health Data. January to November 19, 2021
- 10. Centers for Disease Control and Prevention. (2019). Injuries and Violence are Leading Causes of Death. Injury Prevention & Control. https://www.cdc.gov/injury/wisqars/animated-leading-causes.html
- 11. 2021 Community Health Assessment Focus Groups, conducted by Intersections Consulting April 2021.
- 12. South Dakota Department of Health. (2019). Vulnerability Assessment. Health Data and Statistics. Vulnerability Assessment. https://doh. sd.gov/statistics/vulnerabilityassessment.aspx
- 13. South Dakota Department of Health. (2021). South Dakota COVID-19 Dashboard. https://doh.sd.gov/COVID/Dashboard.aspx
- 14. Centers for Disease Control and Prevention. (2021). COVID Data Tracker. https://covid.cdc.gov/covid-data-tracker/#vaccinations\_vacc-total-admin-rate-total.
- 15. Centers for Disease Control and Prevention. (2019). Sexually Transmitted Disease Surveillance 2019. https://www.cdc.gov/std/statistics/2019/default. htm?s\_CID=STDSR\_21001
- 16. Life Expectancy: Could Where You Live Influence How Long You Live? Robert Wood Johnson Foundation, RWJF, 13 Nov. 2018. https://www.rwjf.org/en/library/interactives/whereyouliveaffectshowlongyoulive.html
- 17. South Dakota Department of Health (2019). Behavioral Risk Factor Surveillance System. Office of Health Statistics. https://doh.sd/gov/statistics.
- 18. U.S. Department of Agriculture Food Access Research Atlas. https://www.ers.usda.gov/dataproducts/food-access-research-atlas/go-to-the-atlas

- 19. 2021 Community Health Assessment Resident Survey. Completed by Sioux Falls CHA Partners February 2021.
- Sioux Falls, SD The National Community Survey Report of Results 2021. The National Research Center. Accessed at https://www.siouxfalls.org/ council/community-survey/survey-results/21report-of-results
- 21. Map the Meal Gap, Feeding America 2018-2019. https://map.feedingamerica.org/.
- 22. Sioux Falls Housing Needs Assessment 2021. The Augustana Research Institute. Accessed on December 10, 2021, at https://www.augie.edu/sites/default/files/documents/2021-10/Housing%202021%20-%20Final%20Report.pdf
- 23. Individual Digital Capital Survey: Key Findings. 2020. https://siouxfalls.org/digitalequity
- 24. Area Health Resource Findings 2018 (primary care and dentists); CMS, National Provider Identification 2020 (primary care other than physicians and mental health). Accessed through www.countyhealthrankings.org.
- 25. Fatality Analysis Reporting System (FARS). https://www.nhtsa.gov/research-data/fatality-analysis-reporting-system-fars. Accessed November 1, 2021, through County Health Rankings. www.countyhealthrankings.org.
- 26. 2021 Community Health Assessment. May 2021, using the South Dakota Good & Healthy Assessment Tool.
- 27. Centers for Medicare and Medicaid Services. (2020). Mapping Medicare Disparities. Office of Minority Health. https://www.cms.gov/About-CMS/Agency-Information/OMH/OMH-Mapping-Medicare-Disparities
- 28. Walk Score. 2021. Living in Sioux Falls. https://www.walkscore.com/. Accessed November 1, 2021.
- 29. South Dakota Department of Agriculture & Natural Resources. EPA recommends avoiding long-term radon exposures above 4 pico couries/liter (pCi/L)Https://danr.sd.gov/Environment/AirQuality/Radon/default.aspx.
- 30. American Public Health Association: What Is Public Health? Accessed at https://www.apha.org/what-is-public-health, September 14, 2021.
- 31. 10 Essential Public Health Services Futures Initiative Task Force. 10 Essential Public Health Services. September 9, 2020. https://phnci.org/ uploads/resource-files/EPHS-English.pdf]
- 32. County Health Rankings. www.countyhealthrankings.org
- 33. Sioux Falls land size estimate. City of Sioux Falls Planning and Development Services. 2020.
- 34. City of Sioux Falls Planning and Development Services. https://siouxfalls.org/news/2021/01/22/population
- 35. Aging & COVID-19: Vaccination, Mental and Physical Health, and Isolation. www.nihcm.org. Accessed October 10, 2021.
- 36. US Centers for Disease Control and Prevention. Health-Related Quality of Life (HRQOL) Methods and Measures. https://www.cdc.gov/hrqol/ methods.htm Accessed 12/20/2021.

- 37. National Center for Health Statistics, Vital Statistics Rapid Release. Provisional Life Expectancy Estimates for 2020 Elizabeth Arias, Ph.D., Betzaida Tejada-Vera, M.S., Farida Ahmad, M.P.H., and Kenneth D. Kochanek, M.A. Report 015. July 2021.
- 38. Centers for Disease Control and Prevention.

  Maternal and Infant Health. https://www.cdc.
  gov/reproductivehealth/maternalinfanthealth/infantmortality.htm
- 39. Pan American Health Organization https://www.paho.org/en/topics/noncommunicable-diseases
- 40. Centers for Disease Control and Prevention, Chronic Disease Resources. Arthritis. (https://www.cdc.gov/chronicdisease/resources/publications/factsheets/arthritis.htm)
- 41. WHO. Cardiovascular diseases (CVDs). 11 June 2021. https://www.who.int/news-room/fact-sheets/detail/cardiovascular-diseases-(cvds)
- 42. Centers for Disease Control and Prevention. (2021). Heart Disease Facts. Heart Disease. https://www.cdc.gov/heartdisease/facts.htm
- 43. Centers for Disease Control and Prevention. (2020). 2020 Estimates of Diabetes and Its Burden in the United States. https://www.cdc.gov/diabetes/pdfs/data/statistics/national-diabetes-statistics-report.pdf
- 44. Trust for America's Health. (2021). State of Obesity 2021: Better Policies for a Healthier America. https://www.tfah.org/report-details/state-of-obesity-2021/
- 45. American Psychological Association Stress in America Survey. February 2021. https://www.apa.org/news/press/releases/2021/03/march-weight-change
- 46. World Health Organization. (2021). *Chronic Respiratory Diseases*. https://www.who.int/healthtopics/chronic-respiratory-diseases#tab=tab\_1
- 47. Office of Disease Prevention and Health Promotion. (2020). Maternal, Infant, and Child Health. Healthy People 2020. https://www.healthypeople.gov/2020/topics-objectives/topic/maternal-infant-and-child-health
- 48. World Health Organization. (2020). Oral Health. https://www.who.int/news-room/fact-sheets/detail/oral-health.
- 49. Shillpa, N. and Uma, K. (2018). School Hours Lost Due to Acute/Unplanned Dental Care. *Health* behavior and Policy Review, 5(2), 66–73(8). https:// doi.org/10.14485/HBPR.5.2.7
- 50. Kane, S.F. (2017). The Effects of Oral Health on Systemic Health. *General Dentistry Self-Instruction*, 411, 35. https://www.agd.org/docs/default-source/self-instruction-(gendent)/gendent\_nd17\_aafp\_kane.pdf)
- 51. American Dental Association. (2015). Oral Health and Well-Being in South Dakota. https://www.ada.org/-/media/project/ada-organization/ada/ada-org/files/resources/research/hpi/oralhealthwell-being-statefacts/South-Dakota-Oral-Health-Well-Being.pdf
- 52. National Safety Council. (2019). Car Crash Deaths and Rates. Historical Fatality Trends. https://injuryfacts.nsc.org/motor-vehicle/historical-fatality-trends/deaths-and-rates/
- Centers for Disease Control and Prevention. (2015). Poisoning. Home and Recreational Safety. https://www.cdc.gov/homeandrecreationalsafety/poisoning/index.html

- 54. Centers for Disease Control and Prevention. (2017). *Important Facts about Falls*. Home and Recreational Safety. https://www.cdc.gov/homeandrecreationalsafety/falls/adultfalls.html
- 55. Brown, L. (2018). A Profile of Older South Dakotans. South Dakota State University: College of Education & Human Sciences. https://extension.sdstate.edu/sites/default/ files/2018-12/04-2003-2018.pdf
- 56. National Institute of Mental Health. (2019) Suicide. https://www.nimh.nih.gov/health/statistics/suicide
- 57. National Institute of Mental Health. (n.d.). *Mental Health Information: Statistics*. https://www.nimh.nih.gov/health/statistics
- 58. National Institute on Drug Abuse. Cost of Substance Abuse. https://archives.drugabuse.gov/trends-statistics/costs-substance-abuse#supplemental-references-for-economic-costs
- 59. Centers for Disease Control and Prevention. (2021). *Provisional Drug Overdose Death Counts*. National Center for Health Statistics. https://www.cdc.gov/nchs/nvss/vsrr/drug-overdose-data.htm
- 60. Edemekong, P.F. and Huang, B. (2021, July 23). Epidemiology of Prevention of Communicable Diseases. In: StatPearls [Internet]. Treasure Island (FL): StatPearls Publishing. https://www.ncbi.nlm. nih.gov/books/NBK470303/
- 61. Ahmad, F. B., Cisewski, J. A., Miniño, A., & Anderson, R. N. (2021, April 9). Provisional Mortality Data United States, 2020. MMWR. Morbidity and mortality weekly report, 70(14), 519–522. https://doi.org/10.15585/mmwr.mm7014e1
- 62. Centers for Disease Control and Prevention. https://www.cdc.gov/alcohol/data-stats.htm, accessed October 2021
- 63. National Highway Traffic Safety Administration. (2021). *Drunk Driving*. https://www.nhtsa.gov/risky-driving/drunk-driving
- 64. National Institute on Alcohol Abuse and Alcoholism. (2021). *Underage Drinking*. https://www.niaaa.nih.gov/publications/brochures-and-fact-sheets/underage-drinking
- 65. 65. U.S. Department of Agriculture & U.S. Department of Health and Human Services. (2021). Dietary Guidelines for Americans. https://www.dietaryguidelines.gov/about-dietaryguidelines/process
- 66. 66. Centers for Disease Control and Prevention. (2021). Get the Facts: Sugar-Sweetened Beverages and Consumption. Nutrition. https://www.cdc.gov/nutrition/data-statistics/sugar-sweetened-beverages-intake.html
- 67. U.S. Department of Health and Human Services. (2018). *Physical Activity Guidelines for Americans 2nd Edition*. Office of Disease Prevention and health Promotion. https://health.gov/sites/default/files/2019-09/Physical\_Activity\_Guidelines\_2nd\_edition.pdf
- 68. U.S. Department of Health & Human Services. (2014). The Health Consequences of Smoking—50 Years of Progress: A Report of the Surgeon General. Office of the Surgeon General, Tobacco Reports and Publications. https://www.ncbi.nlm.nih.gov/books/NBK179276/pdf/Bookshelf\_NBK179276.pdf
- 69. Campaign for Tobacco-Free Kids. (2021). *The Toll of Tobacco in South Dakota*. https://www.tobaccofreekids.org/problem/toll-us/south\_dakota

- 70. Robert Wood Johnson Foundation. https:// www.rwjf.org/en/cultureofhealth/taking-action/ strengthening-services-and-systems/access-tocare.html
- 71. Centers for Disease Control and Prevention. (2016). Why Vaccines are Important for You. Vaccine Information for Adults. https://www.cdc.gov/vaccines/adults/reasons-to-vaccinate.html
- 72. Centers for Disease Control and Prevention. (2021). Colorectal Cancer Control Program (CRCCP). https://www.cdc.gov/cancer/crccp/about.htm
- 73. Office of Disease Prevention and Health Promotion. (2021). Cancer. Healthy People 2030. https://health.gov/healthypeople/objectives-and-data/browse-objectives/cancer
- 74. Centers for Disease Control and Prevention. (2021). Heart Disease Facts. Heart Disease. https://www.cdc.gov/heartdisease/facts.htm
- 75. U.S. Centers for Medicare & Medicaid Services. (2015, August 27). CMS Initiative to Reduce Avoidable Hospitalizations among Nursing Facility Residents-Payment Model. https://www.cms.gov/newsroom/fact-sheets/cms-initiative-reduce-avoidable-hospitalizations-among-nursing-facility-residents-payment-model
- 76. B. Choucair, MD. Kaiser Permanente Accelerates Social Health Network Efforts. Healthcare Innovation. https://www.hcinnovationgroup.com/population-health-management/social-determinants-of-health/article/21160594/kaiser-permanente-accelerates-social-health-network-efforts. Accessed September 30, 2021.
- 77. National Digital Inclusion Alliance. https://www.digitalinclusion.org/definitions/
- 78. Baum, S., Ma, J., and Payea, K. (2013). Education Pays 2013: *The Benefits of Higher Education* for Individuals and Society. Trends in Higher Education. https://research.collegeboard.org/pdf/ education-pays-2013-full-report.pdf
- 79. Dhruv, K. and Chokshi, D.A. (2018, October 4). Health, Income, & Poverty: Where We Are & What Could Help. Health Affairs Health Policy Brief. https://doi.org/10.1377/hpb20180817.901935

- 80. Ahmad, N. Smartasset. (2015, March 5). *Most Recession-Resistant Cities-2020*. https://smartasset.com/checking-account/most-recession-resistant-cities-2020
- 81. Labor Market Information Center, South Dakota Department of Labor and Regulation, in cooperation with the U.S. Bureau of Labor Statistics. https://dlr.sd.gov/lmic/economic\_snapshot.aspx Accessed November 20, 2021.
- 82. Feeding South Dakota. https://feedingsouthdakota.org/about/our-work/ hunger-in-south-dakota
- 83. National Low Income Housing Coalition. (2021). *Out of Reach 2021: South Dakota*. https://reports.nlihc.org/oor/south-dakota
- 84. 2020 Realtor Association of the Sioux Empire, Inc. https://rase-inc.org/
- 85. U.S. Department of Housing and Urban Development (HUD). (2019). FY19 Fair Market Rents Documentation System. https://www.huduser.gov/portal/datasets/fmr/fmrs/FY2019\_code/2019summary.odn
- 86. Sioux Falls Planning and Development Services Housing Division, 2021
- 87. City of Sioux Falls 2020 Water Quality Report. https://siouxfalls.org/public-works/water-division/documents/2020-water-quality-report
- 88. City of Sioux Falls Public Works Sustainability Program 2021. https://siouxfalls.org/sustainability
- 89. The University of British Columbia. (2019, May 6). Where Matters: Health and Economic Impacts of Where We Live. Health & Community Design Lab: School of Population and Public Health. https://health-design.spph.ubc.ca/research/current-research/health-wellbeing-economic-benefits-study/
- 90. Sioux Falls Parks & Recreation Annual Report 2020. https://issuu.com/siouxfalls/docs/2020\_p\_r\_ annual\_report



## **Screeners**

#### WHERE YOU LIVE

## Please select the county in which you live.

(Listed in alphabetical order)

What is your current age?

Current Age:

(Use the slider below to select your current age.)

0

$\bigcirc$	Becker, MN	$\bigcirc$	Gregory, SD	$\bigcirc$	Pipestone, MN
	Beltrami, MN	$\bigcirc$	Jackson, MN	$\bigcirc$	Richland, ND
	Brown, SD	$\bigcirc$	Lincoln, SD	$\bigcirc$	Redwood, MN
	Brule, SD	$\bigcirc$	Lyman, SD	$\bigcirc$	Rock, MN
$\bigcirc$	Buffalo, SD	$\bigcirc$	Lyon, IA	$\bigcirc$	Sioux, IA
$\bigcirc$	Burleigh, ND	$\bigcirc$	Lyon, MN	$\bigcirc$	Steele, ND
$\bigcirc$	Cass, ND	$\bigcirc$	Mahnomen, MN	$\bigcirc$	Traill, ND
	Charles Mix, SD	$\bigcirc$	McCook, SD	$\bigcirc$	Traverse, MN
$\bigcirc$	Clay, MN	$\bigcirc$	Minnehaha, SD	$\bigcirc$	Tripp, SD
$\bigcirc$	Clay, SD	$\bigcirc$	Morton, ND	$\bigcirc$	Turner, SD
$\bigcirc$	Clearwater, MN	$\bigcirc$	Murray, MN	$\bigcirc$	Union, SD
$\bigcirc$	Cottonwood, MN	$\bigcirc$	Nobles, MN	$\bigcirc$	Wilkin, MN
$\bigcirc$	Day, SD	$\bigcirc$	O'Brien, IA	$\bigcirc$	Yellow Medicine, MN
	Deuel, SD	$\bigcirc$	Otter Tail, MN	$\bigcirc$	None of the above
$\bigcirc$	Edmunds, SD	$\bigcirc$	Pennington, MN		
Disa		- ا			
Piea	se enter your 5-digit zip c	oae.			

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10 20 30 40 50 60 70 80 90 100

## Community

	NITY				
verall, how wo	ould you rate the	e quality of HE	ALTH CARE avail	lable in your co	ommunity?
Poor	Fair	Good	Very Good	Excellent	Don't Know
$\bigcirc$	$\bigcirc$		$\bigcirc$	$\bigcirc$	
ı your opinion,	what is the mo	st important F	IEALTH CARE iss	sue your comm	nunity faces?
-			M CARE, NURSIN	IG HOMES & S	ENIOR
OUSING servi	ces available in	your commun	ity?		
-			-	Excellent	ENIOR  Don't Know
Poor  /hy did you rat	ces available in Fair O e LONG TERM	Good CARE, NURSIN	ity?	Excellent	Don't Know
Poor  Ahy did you rate	ces available in Fair O e LONG TERM	Good CARE, NURSIN	Very Good  G HOMES & SEN	Excellent	Don't Know

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Good

Very Good

Excellent

Don't Know

Poor

Fair

Why did you rate CHILDCARE, DAYCARE & PRE-SCHOOL in your community as \${q://QID211/ChoiceGroup/SelectedChoices}?

, , , , , , , , , , , , , , , , , , , ,		omity of All Folk	DABLE HOUSING	o iii your ooiiiii	iuiiity:
Poor	Fair	Good	Very Good	Excellent	Don't Know
	0		$\bigcirc$	0	$\bigcirc$
Vhy did you rat {q://QID199/Cl		-	our community	as	
low would you community?	rate the ability	of residents to	ACCESS DAILY	TRANSPORTA	TION in your
	rate the ability  Fair	of residents to	Very Good	TRANSPORTA  Excellent	TION in your Don't Know
community?	-				·
Poor  Poor  Why did you rat  S{q://QID200/CI	Fair  contact the ability of noiceGroup/Se	Good  residents to A( lectedChoices)	Very Good  CCESS DAILY TR	Excellent  O  ANSPORTATIO	Don't Know
Poor  Poor  Why did you rat  S{q://QID200/CI	Fair  contact the ability of noiceGroup/Se	Good  residents to A( lectedChoices)	Very Good  CCESS DAILY TRA	Excellent  O  ANSPORTATIO	Don't Know

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How would you	rate your com	munity as bein	g a SAFE place to	o live?	
Poor	Fair	Good	Very Good	Excellent	Don't Know
$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$	0	$\bigcirc$
Why did you rat \${q://QID202/Cl		-			
How would you water, etc.)	rate the ENVIR	ONMENTAL ho	ealth of your com	nmunity? (clea	n air, clean
Poor	Fair	Good	Very Good	Excellent	Don't Know
		$\bigcirc$		$\bigcirc$	
How would you	rate the ability	of recidents to	o access HEALTH	IV & NIJITDITIO	NAL EOODS in
your community	_	or residents to	decess nearing	II & NOTKITIO	MAL FOODS III
Poor	Fair	Good	Very Good	Excellent	Don't Know
$\bigcirc$	0	$\bigcirc$		0	$\bigcirc$
Why did you rat \${q://QID209/Cl		•	HEALTHY & NUT }?	RITIONAL FOO	DDS as
How would you OPPORTUNITIE	-		o access PHYSIC	AL ACTIVITY	& EXERCISE
Poor	Fair	Good	Very Good	Excellent	Don't Know

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0/2020		Qualtrics Survey	Software	
$\bigcirc$		$\circ$		$\bigcirc$
Why did you rate t	he community's acc	cess to PHYSICA	L ACTIVITY & EXER	CISE
OPPORTUNITIES a	as \${q://QID213/Ch	oiceGroup/Select	tedChoices}?	
MAIN BLOCK				
OUR HEALTH AN	D WELLNESS			
Overall, how would	d you rate YOUR cu	rrent state of hea	Ith & wellness?	
Poor	Fair	Good	Very Good	Excellent
Aro thoro any bool	th care corvious the	at van wand lika	to see OFFERED or	IMDDOVED in v
community?	til care services til	at you would like	to see of 1 Likeb of	IIVIF KOVED III y
O v				
Yes				
○ No				
Please select the	healthcare services	e vou would like to	see OFFERED or II	MPROVED in voi
community.	realtificate Services	you would like to	3 See Of I LIKED OF II	vii KOVED iii yot
select all that apply)				
Addiction Torres	···· and		anal Cumman:	
Addiction Treat	tment lth / Mental Health		eral Surgery rt Care	
Cancer Care	itii / ivieiital Healtil			
L L Callett Cale		Lab(	or and Delivery	

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11/10/2020	Qualtrics Survey Software
Chiropractic Care	Long Term Care / Nursing Homes
Dental Care	Orthopedics and Sports Medicine
Dermatology	OBGYN / Womens' Care
Emergency / Trauma	Pediatrics / Childrens' Care
Eye Services (Ophthalmology, Optometry)	Walk-in / Urgent Care
Family Medicine / Primary Care	Other (please specify)
YOUR HEALTH CARE USAGE	
Do you currently have a primary care physic issues?	cian or provider who you go to for general health
issues:	
Yes	
○ No	
How long has it been since you last visited	a physician / provider for a routine check up or
screening?	
Within the past year	
Within the past 2 years	
Within the past 5 years	
More than 5 years ago	
Never	
What has kept you from having a routine ch	neck-up?
What has kept you from having a routine ch	neck-up?
(select all that apply)	neck-up?
(select all that apply)  Cost / inability to pay	neck-up?
(select all that apply)  Cost / inability to pay  COVID -19	neck-up?
(select all that apply)  Cost / inability to pay COVID -19 Don't feel welcomed or valued	neck-up?
(select all that apply)  Cost / inability to pay COVID -19 Don't feel welcomed or valued Don't have a primary care physician	neck-up?
(select all that apply)  Cost / inability to pay COVID -19 Don't feel welcomed or valued	neck-up?

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My insurance is no		Qualtrics Survey	Software	
wiy insurance is no	ot accepted			
Lack of transporta	ation			
Distance / lack of	local providers			
Getting time off fr	om work			
No child care				
Wait time for appo	ointments are too lo	ong		
Clinic hours are no	ot convenient			
Fear / I do not like	going to the docto	r		
Nothing / I do not	need to see a doct	or		
	Other (Spe	cify)		
How would you rate	your current abi	lity to ACCESS to	healthcare services	<b>5?</b>
Poor	Fair	Good	Very Good	Excellent
Why did you rate yo	ur current ability	to ACCESS to bea	ultheare	
Why did you rate yo services as \${q://QII	•			
services as \${q://QI	D156/ChoiceGro	up/SelectedChoic	es}?	t did not receive
In the past year, did the care needed?	D156/ChoiceGro	up/SelectedChoic	es}?	t did not receive
In the past year, did the care needed?  Yes	D156/ChoiceGro	up/SelectedChoic	es}?	t did not receive
In the past year, did the care needed?  Yes No	D156/ChoiceGro	up/SelectedChoic	es}?	t did not receive
In the past year, did the care needed?  Yes	D156/ChoiceGro	up/SelectedChoic	es}?	t did not receive
In the past year, did the care needed?  Yes No	you or someone	up/SelectedChoic	es}?	

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11/10/2020	Qualtrics Survey Software
Don't feel welcomed or valued	
Don't have a primary care physician	
Don't have insurance	
My insurance is not accepted	
Lack of transportation	
Distance / lack of local providers	
Getting time off from work	
No child care	
Wait time for appointments are too long	
Clinic hours are not convenient	
Fear / I do not like going to the doctor	
Recovery time / not convenient	
Nothing / no reason	
Other (Specify)	
TRAVELING FOR CARE	
	ELED to receive health care services outside of
Have you or a member of your family TRAV your community within the past 3 years?  Yes No  Where did you travel to?	
Have you or a member of your family TRAV your community within the past 3 years?  Yes No  Where did you travel to?  (If you traveled more than once, enter the most recent place)	
Have you or a member of your family TRAV your community within the past 3 years?  Yes No  Where did you travel to?  (If you traveled more than once, enter the most recent place of the company of the co	
Have you or a member of your family TRAV your community within the past 3 years?  Yes No  Where did you travel to?  (If you traveled more than once, enter the most recent place of the company of the co	you traveled to?)

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11/10/2020	Qualtrics Survey Software
Better / higher quality of care	
Don't feel welcomed or valued by local provi	ders
Second opinion	
Medical emergency	
Immediate / faster appointment	
On vacation / traveling / snowbirds	
Cost or insurance coverage	
Military / VA	
Other (spease spe	ecify)
YOUR HEALTH INSURANCE	
Do you currently have health insurance?	
Yes	
○ No	
Please indicate the source of your health i	nsurance coverage?
(Select all that apply)	
Employer (Your employer, spouse, parent, or	
Individual (Coverage bought by you or your	• •
Federal Marketplace (Minnesota Care / Oba	macare / Affordable Care Act)
Medicare	
Medicaid	
Military (Tricare, Champus, VA)	
Indian Health Service (IHS)	
Other (pleas	se specify)

## **DEMOGRAPHICS**

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## **ABOUT YOU**

What is your biological sex?
Male Female
Do you, personally, identify as lesbian, gay, bisexual, transgender or queer?
○ Yes
○ No
How many people live in your house, including yourself?
0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20
People in household:
How many children under age 18 currently live with you in your household?
riow many children under age to currently live with you in your nousehold:
0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20
Children in household:
nousenoid.
Ave you Chanish Hispania and atima in avigin on decent?
Are you Spanish, Hispanic, or Latino in origin or decent?
Yes
○ No
Choose one or more races that you consider yourself to be.
American Indian or Alaska Native Caucasian or White
Asian Native Hawaiian or Pacific Islander
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11/10/2020	Qualtrics Survey Software
Black or African American	Other
What language is spoken most frequently in	your home?
<ul><li>English</li></ul>	
Arabic	
Chinese	
German	
○ Korean	
Native American (Dakota, Ojibwa, etc.)	
O Napali	
Spanish	
Tamil	
Vietnamese	
Other	
What is your current marital status?	
Married	
<ul> <li>Single, never married</li> </ul>	
<ul> <li>Unmarried couple living together</li> </ul>	
Divorced	
○ Widowed	
Separated	
Which of the following best describes your	current living situation?
O House (owned)	
<ul><li>Apartment or House (rental)</li></ul>	
○ Homeless	
<ul> <li>Some other arrangement</li> </ul>	

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What is your primary mode of daily transportation?
Automobile/Truck (owned or leased)
O Public Transportation (bus / subway / rail)
Online Ride Service (Uber / Lyft)
○ Taxi Service
Family, Friends or Neighbors
○ Bicycle
○ Walk
I do not have a primary mode of daily transportation
Other (specify)
What is the highest level of school you have completed or the highest degree you have received?
Less than high school degree
High school graduate (high school diploma or equivalent including GED)
Some college but no degree
Associate degree in college (2-year)
Bachelor's degree in college (4-year)
Master's degree
Octoral degree
Professional degree (JD, MD)
Your current employment status is best described as:
Employed (full-time)
Employed (part-time)
○ Self-employed
○ Furloughed
Not employed, looking for work
Not employed, not looking for work  Not employed, not looking for work
Retired

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O Disabled or unable to work

11/10/2020

## What is your total household income from all sources?

Less than \$20,000

\$20,000 - \$24,999

\$25,000 - \$29,999

\$30,000 - \$34,999

\$35,000 - \$49,999

\$50,000 - \$74,999

\$75,000 - \$99,999

\$100,000 - \$199,999

\$200,000 or more

Prefer not to answer

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# COMMUNITY ASSESSMENT **ASSETS & NEEDS**



These are the results from the Community Sector Assessment. Areas scoring 60 or better are noted as assets, and those scoring below 60 are needs. They are presented on the following pages by sector.





## **COMMUNITY**

CHRONIC DISEASE MANAGEMENT

POLICY, REGULATION, AND ENVIRONMENT	2016	2019	2021
Faith communities offering a network of health professionals trained to provide chronic disease management support for members of their congregations.			
Community-based health screenings, referral and follow-up is offered to residents which meet current clinical guidelines for measurement and addresses chronic diseases and related risk factors.			ő
A coalition is established that is focused on promoting health/preventing chronic disease.			<b>O</b>
EDUCATION AND AWARENESS			
Accessible and affordable chronic disease self-management programs (diabetes, obesity, arthritis, etc.) for all community residents.			Ğ
Reports from media outlets focus on the importance of the detection of risk factors for positive lifestyle modification.	6	6	
Strategies for providing community residents with information about high blood pressure and appropriate preparation for measurements of blood pressure and how the results should be provided and interpreted.	<b>S</b>		Ğ
Strategies for providing community residents with information about high cholesterol and appropriate preparation for measurements of blood cholesterol and how the results should be provided and interpreted.			ď
Strategies for providing community residents information about pre-diabetes and appropriate preparation for measurements of blood glucose and how the results should be provided and interpreted.			Ğ
Referral services are in place and are promoted for persons with chronic disease risk factors.			
Support groups are available for residents with chronic diseases.	<b>6</b>	<b>6</b>	Ğ
Community has an advisory group or action team working to increase and improve active living, healthy eating, tobacco-free living, chronic disease self-management, etc.		<b>6</b>	<b>S</b>

## NUTRITION

POLICY, REGULATION, AND ENVIRONMENT	2016	2019	2021
Institute strategies to increase the availability of healthier food and beverage choices in locations controlled by local, city or county government (i.e., city buildings, county parks, recreation centers).			
Institute pricing strategies that support reduced cost of healthier foods and beverages relative to the cost of less healthy foods sold in public service venues (i.e. vending machines, cafeterias, and concession stands in local city facilities).			
A policy to support an increase in the number of full-service grocery stores and supermarkets in underserved areas.			
Regulation for improved availability for purchasing food from farms (i.e. farmers markets, farm stands, community-supported agriculture (CSA), pick your own, and farm-to-school initiatives).			
Local government incentives for new and/or existing food retailers for offering healthier foods and beverages in underserved areas.			
Provide access to farmers' markets in underserved areas.			
Provide smaller portion sizes at local restaurants and food venues.			
Policy for limiting the advertising and promotion of unhealthy foods and beverages in locations controlled by local, city, or county government buildings, parks, recreation centers.			
Policy for licensed day care facilities to serve two or more vegetables per day.		Ó	
Policy for licensed day care facilities to ban sugar-sweetened beverages and limit portion size of 100 percent juice.			
Farmers' Markets and farm stands that accept Women Infant and Children (WIC) Farmer Market Nutrition Vouchers and/or Food Stamp Benefits and/or Senior Citizen Farm Market Coupons are established and promoted.			
Transportation options to supermarkets and other food outlets established for senior citizens and low-income populations.			
Institute strategies to connect locally grown foods to local restaurants and food venues.			
EDUCATION AND AWARENESS			
Promotion of point-of-purchase nutrition information (menu labeling) in local restaurants and/or retail establishments, and promotion of the South Dakota Department of Health Munch Code at recreation centers, community parks, faith-based organizations, etc.			
Promotion of locally grown foods, community gardens, and agriculture initiatives.			
Healthy nutrition practices promoted in day care facilities, government, and faith-based organizations.			Ó

## PHYSICAL ACTIVITY

FITTSICALACTIVITI				
POLICY, REGULATION, AND ENVIRONMENT	2016	2019	2021	
Create access to recreation facilities for people of all ages and abilities, such as joint-use agreements with schools.				
Access to public recreation facilities (i.e., parks, play areas, community and wellness centers) for people of all abilities.	6			
Community-wide and neighborhood specific urban/community planning and policy development interventions that increase opportunities for physical activity.				
Master plan for walking and biking in the community that enhances infrastructure to support walking and biking and encourage active transportation.				
A maintained network of parks with improved access to outdoor recreational facilities (establish a program to repair and upgrade existing parks and playgrounds).	<b>6</b>	Ğ	ő	
Trails, parks, shared paths and/or open spaces that are within walking distance of residential areas, especially public housing areas.	<b>6</b>	ő	ő	
Policy for 5-foot sidewalks to be built with street infrastructure enhancements such as lighting, traffic signals, and crosswalk counters.	of the state of th	ő	ő	
Policy for traffic-calming measures such as road narrowing, center islands, roundabouts, speed bumps, and/or crosswalk counters with timer countdowns at major intersections to make neighborhoods safer to walk and bike.		Ó	6	
Strategies to enhance infrastructure to support walking and biking (sidewalks, benches, shade, bike lanes, shared road signs, bike racks, etc.).	6			
Strategies for creating and maintaining crime prevention/safety measures for outdoor activity and recreation, such as adequate lighting, neighborhood watch associations, increased police presence, etc.	Ó	<b>S</b>		
Access to public transportation for community residents to access public facilities, parks, etc., so they can engage in physical activity.			<b>(1)</b>	
Child care facilities have a written policy for children in their care to engage in organized physical activity.				
Child care centers in the community have implemented fitCare® to address nutrition and physical activity policy and environment.				
Adopt and support "complete streets" ordinances, which ensure that streets are designed and operated to enable safe access for all users.		<b>(1)</b>	<b>6</b>	
EDUCATION AND AWARENESS				
Events used to motivate community residents to engage in physical activity (i.e., challenges, community races/walks, group hikes, etc.).				
Reports from media outlets focus on the promotion of physical activity guidelines, resources, and events in the community.				
Community-wide campaigns to encourage community residents to engage in physical activity (i.e., social support through buddy system, "contracts"; risk factor screenings; health education; address other cardiovascular risk factors, including nutrition/tobacco use).		<b>S</b>	<b>6</b>	
Promotion of places to be physically active (i.e., trails signage, maps, play areas, recreational facilities).				

## TOBACCO

POLICY, REGULATION, AND ENVIRONMENT	2016	2019	2021
Policies/programs for creating tobacco-free environments in the community, such as parks, faith-based organizations, recreation and cultural arts centers, multifamily homes, etc.		<b>S</b>	Ğ
Community enforcement of the law which prohibits the sale of tobacco products to minors.	<b>6</b>	ő	Ğ
Policies that prohibit tobacco advertisement near schools and/or places where youth gather.			Ğ
Restrict the placement of tobacco vending machines (including self-service displays).		<b>6</b>	Ğ
Enforce the ban of selling single cigarettes.		Ó	Ğ
Provide promotion and access to a referral system for tobacco cessation resources and services, such as the SD QuitLine (1-866-SD-QUITS).			
EDUCATION AND AWARENESS			
Promote a referral system to help community members to access tobacco cessation resources or services, such as the SD QuitLine (1-866-SD-QUITS).			
Community-wide intervention program(s) for restricting minors' access to tobacco products.			
Community promotes tobacco-free programs through local media outlets.		4	
South Dakota Department of Health Regional Tobacco Prevention Coordinators are utilized to support community tobacco prevention/cessation activities through the provision of technical assistance (i.e., improving local tobacco-free policy) and resources (i.e., educational materials).	Ğ	Ğ	

## **HEALTH CARE**

CHRONIC DISEASE MANAGEMENT

POLICY, REGULATION, AND ENVIRONMENT	2016	2019	2021	
Medical services provided outside of regular working hours (i.e., late evenings, weekends) to increase access to care for all community residents.				
Health care providers partner with community agencies to offer free/low-cost chronic disease health screenings (i.e., assessing body mass index, blood pressure) and education events for the public with follow-up counseling for those at-risk.	Ğ	Ğ	Ğ	
Participation in community coalitions and partnerships to address chronic diseases and associated risk factors.				
Regular counseling on the importance of lifestyle behavior changes in preventing and controlling symptoms from chronic diseases is provided at all routine office visits.		<b>S</b>		
Referral system to help patient's access community-based resources and services for chronic disease management.				
Chronic disease risk factor counseling in accordance with current clinical guidelines is provided.				
Provide screening for chronic diseases in adults with modifiable risk factors.				
Policy that adopts current emergency heart disease and stroke treatment guidelines (i.e., Joint National Committee 7, American Heart Association).		<b>6</b>		
Policy to provide access to resources and training for using a stroke rating scale.				
Policy to measure weight and height and calculate BMI for adults at each office visit and review results with patient.				
Policy to assure that adult patients receive screenings for chronic diseases at intervals recommended by the U.S. Clinical Preventive Services Task Force, (i.e., colonoscopy, mammography, LDL measurements).				
EDUCATION AND AWARENESS				
Multiple communication channels (i.e., public service announcement, print posters/brochures, social media) promote healthy lifestyle messages throughout the health care facility/system.	6	<b>S</b>		
Patients are educated on the signs and symptoms of heart attack and stroke through multiple communicate channels (i.e., email, print brochures, social media, interpersonal communication).		Ó		
Health care providers offer educational information to patients through multiple communication channels (i.e., email, print brochures, social media, interpersonal communication) regarding the importance of chronic disease prevention as determined necessary by the health care provider.	Ğ	6	Ğ	
Annual cultural competency training for all health care employees for optimal care of all patients regardless of their race/ethnicity and/or culture/background.				
Continuing educational opportunities for all health care providers on current chronic disease prevention and management guidelines.		4		

## NUTRITION

POLICY, REGULATION, AND ENVIRONMENT	2016	2019	2021
Health care providers assess patients' nutrition habits as part of a written checklist/screening at office visits.			
Health care providers counsel about the importance of good nutrition during office visits and provide ongoing reinforcements in follow-up visits on interventions involving behavior change.		Ó	Ŏ
Health care providers use a referral system to help patients access community-based resources and services for nutrition/nutrition education.			<b>6</b>
Patient access to dietitian to help assess nutrition needs, prescribe personalized meal plan, and support long-term healthy nutrition behaviors.			
Policy for healthy eating and beverage options in on-site cafeteria and food venues.			
Policy for healthy food and beverage options in vending machines.			
Policy for pricing strategies that encourage the purchase of health food and beverage options.			
Healthy food purchasing (i.e. to reduce the caloric, sodium, and fat content of foods offered) is instituted in on-site cafeteria and food venues.	Ğ	<b>L</b>	
Policy for healthy food preparation and practices (i.e., steaming, low fat, low salt, limiting frying, reduced calorie) in on-site cafeteria and food venues throughout health care facility.	Ğ		
Health care providers adopt Breastfeeding Friendly Initiative and refer mothers to the program.		Ó	<b>D</b>
EDUCATION AND AWARENESS			
Health care professionals (i.e. physicians, specialists) receive regular updates on nutrition guidelines for chronic disease management (i.e. CDC Morbidity and Mortality Weekly Report, Public Health Bulletin, American Dietary Guidelines).		Ğ	Ğ
Health care providers assess and receive current guidelines for nutrition assessment and counseling.			
Health care providers increase social support for healthy eating behaviors by including families and parents.			
Health care professionals (i.e. nurses, lactation consultants) educate mothers about Baby-Friendly Initiative regarding breastfeeding and its benefits in improving breastfeeding related outcomes.	<b>S</b>	<b>S</b>	<b>1</b>
Health care providers trained in use of <i>Obesity in South Dakota, A Clinical Toolkit for Health care Providers</i> as a resource for chronic disease management.			

## PHYSICAL ACTIVITY

POLICY, REGULATION, AND ENVIRONMENT	2016	2019	2021
Health care providers routinely assess patients' physical activity as part of a written checklist/screening at office visits.			ů.
Referral system available to help at-risk patients access community-based resources/ services for physical activity.			
Health care facility/building is physical activity friendly with sidewalks, bike racks, well-lit stairwells.		<b>S</b>	
Health care providers ensure high risk groups for chronic disease and inactivity have equal or better access to physical activity services (individual health coaching, referral to outreach programs), than the general population.		ő	Ů
EDUCATION AND AWARENESS			
Health care providers routinely counsel patients about the importance of regular physical activity and track the prevalence of physical inactivity during office visits.			
Health care providers offer educational information to patients through multiple communication channels (e.g. email, print brochures, social media, interpersonal) about interventions to encourage physical activity.		Ó	
Health care providers support community physical activity advocacy (e.g. financial support, help with planning, implementing and/or promoting events, participating in events, serving on local physical activity committees).	Ğ	Ğ	<b>S</b>
Continuing education is provided for Health care providers regarding risk factor management (i.e. physical inactivity), intervention, and treatment.			

#### TOBACCO

POLICY, REGULATION, AND ENVIRONMENT	2016	2019	2021	
Health care providers utilize EHR to identify and intervene with patients who use tobacco.	6		Ğ	
Health care providers assess patient's willingness to quit and uses the 2 A+R method (A-Ask, A-Advise and R-Refer).			Ğ	
Health care providers advocate for free or low-cost pharmacological quitting aids with insurance companies and/or the SD QuitLine.			Ğ	
Health care providers utilize secondhand smoke (i.e., environmental tobacco smoke) education for tobacco using patients who are pregnant or have families.				
A provider-reminder system is in place to assess, advise, track, and monitor tobacco use.		<b>6</b>		
Tobacco-free policy 24/7 for indoor and outdoor public places.				
Smoke-free policy 24/7 for indoor and outdoor public places.			Ů	
EDUCATION AND AWARENESS				
Professional development for health care providers regarding counseling and intervention techniques to promote tobacco cessation in patients using tobacco.		<b>6</b>		
Culturally appropriate tobacco cessation materials are provided to tobacco using patients.		6		
Promote a referral system to help employees to access tobacco cessation resources or services, such as the SD QuitLine (1-866-SD-QUITS).	ő	ő	Ğ	
South Dakota Department of Health Regional Tobacco Prevention Coordinators are utilized to support health care tobacco prevention/cessation activities through the provision of technical assistance (i.e., improving tobacco-free policy) and resources (i.e., educational materials).	ő	ő	6	

## **SCHOOLS**

## CHRONIC DISEASE MANAGEMENT

POLICY, REGULATION, AND ENVIRONMENT	2016	2019	2021
Access to a school/community nurse.	Ğ	Ğ	<b>S</b>
Students with health problems associated with sedentary lifestyle and unhealthy diet are identified and referred to appropriate medical care/community resources.	Ğ	<b>S</b>	<b>S</b>
Policy to meet the nutritional needs of students with special health care or dietary requirements (allergies, diabetes, physical disabilities) as required by the school.			
Policy to provide immediate and reliable access to student medications for chronic disease management throughout the school day.			
School management protocols (i.e., school diabetes management plans) are developed in consultation with their families, medical providers, and school staff to manage students with chronic diseases or conditions (i.e., asthma, diabetes, epilepsy).		ő	<b>6</b>
EDUCATION AND AWARENESS			
Professional development is offered to faculty and staff on chronic disease prevention and management.			
School-based educational materials provide information about the signs and symptoms of heart attack and stroke; risk factors for hypertension, high blood cholesterol, cancer, respiratory conditions, arthritis, obesity, and diabetes; and calling 911.	Å		
Rewards and/or incentives (i.e., extra free class time, field trips, gift certificate) are offered and promoted to motivate students, faculty, and staff members to practice healthy behaviors.			Ğ
Health screenings are accessible and free (or affordable), and referrals are offered to faculty and staff members at least once a year.			
Annual training is provided to all staff on CPR (Cardio-Pulmonary Resuscitation) and use of an AED.			

## NUTRITION

POLICY, REGULATION, AND ENVIRONMENT	2016	2019	2021	
Policy that requires nutrition standards for all food sold on school grounds (a la carte, school stores, concession stands, vending machines, and sporting events).				
Point-of-purchase labeling is displayed for healthy foods.				
Pricing policies for reduced prices for healthier food items.		ő		
Fundraising policy that supports healthy eating through the sale of healthy foods as well as nonfood products and services.				
Policy that supports healthy snacks for classroom celebrations.			ď	
Policy that limits the sale and distribution of less nutritional foods on school grounds.				
Regulations in place for a nutritious breakfast program that meets USDA standards and is fully accessible to all students.		Ğ	<b>6</b>	
Regulations in place for a nutritious lunch program that meets USDA standards and is fully accessible to all students.	<b>S</b>	<b>S</b>		
School food services uses healthy food preparation practices such as steaming, low-fat and low-salt preparation with on-site food venues.				
Policy that establishes recess is provided before lunch for elementary students.				
Adequate time is provided for students to eat school meals (10 minutes for breakfast/20 minutes for lunch from the time students are seated).				
Policy that encourages nonfood rewards for academic work.				
Policy that prohibits withholding food as punishment.				
Policy that limits advertising and promotion of less healthy foods and beverages on school campus.			<b>O</b>	
Local farmer partnerships and/or community gardens are used for fresh produce/fruits for student meals and snacks when available.				
Access to healthy foods is provided through increasing availability of and variety of healthy food.			<b>6</b>	
Policy that adopts the South Dakota Harvest of the Month curriculum.				
EDUCATION AND AWARENESS				
Age appropriate nutrition education is part of the district curricula.				
School food services promote healthy food and beverage purchases (i.e., highlighting healthy food in menus, displaying nutrition information about foods, taste testing opportunities, etc.).	Ğ	<b>6</b>	ő	
The cafeteria is utilized as a learning lab for good nutrition.				
Educational materials on healthy eating topics (portion control, fruits/vegetables, snacking, reading food labels, Harvest of the Month materials, etc.) are reinforced through school-based communication channels.	6	<b>6</b>	ő	
Food service managers/staff attend annual professional development/ continuing education trainings regarding nutrition, healthy food preparation and health promotion.	<b>6</b>	<b>6</b>		
School provides information on strategies that focus on families/parents as an important component of interventions for healthy eating behaviors.			<b>6</b>	

## PHYSICAL ACTIVITY

THISTOALACTIVITI			
POLICY, REGULATION, AND ENVIRONMENT	2016	2019	2021
Policy that requires all physical education classes to be taught by qualified, certified physical educators.			
Policies offering non-competitive physical activity programs before and after the school day.	<b>S</b>	<b>S</b>	
Facilities and space that support physical activity for students and staff on school grounds (bike racks, walking paths, fitness room).	ő	ő	<b>S</b>
Policy (i.e. Joint Use Agreements) for use of school grounds and facilities for physical activity outside the school day for students, school faculty & staff, parents, and community members.	ő	Ğ	ď
Daily recess breaks for elementary students.			
Policy that prohibits the use of physical education class or recess as punishment.	ő	ő	<b>6</b>
Policy that prohibits the use of excessive or physical activity as punishment.			
Policy that provides equal and appropriate opportunity for all students to participate in physical activity regardless of mental or physical disabilities.	ő	ő	<b>S</b>
Policy that requires at least 30 minutes of moderate to vigorous physical activity in physical education curricula at least three days per week during the school year.	ő	ő	Ğ
Transportation policies in place that encourage physical activity (Safe-Routes-to-School and Walking School Buses), and events to support those policies.			Ğ
EDUCATION AND AWARENESS			
Age appropriate quality, daily, evidence-based physical education is part of the district curricula.	<b>S</b>	<b>6</b>	
Physical education classes teach lifetime physical activity skills such as jogging, tennis, and basketball.	6	6	<b>6</b>
Instruction on health related fitness (i.e. cardiovascular endurance, flexibility, muscular strength, muscular endurance and body composition) is provided during physical education and health education class.	5	6	Ğ
Promotion of student participation in extracurricular physical activities (i.e. athletics, community walks/races, activity clubs).			
School environment supports and encourages physical activity throughout the day (posters, newsletters, announcements, library displays).	<b>6</b>	<b>6</b>	
Behavioral interventions (i.e. TV Turnoff challenge) are implemented to reduce out-of-school screen time (TV, video game, computer, etc.) aimed at improving children's' and parents' knowledge, attitudes, or skills.	5	5	Ğ
 Professional development is provided to school staff on incorporating physical activity into the classroom, recess, out-of-school time, and Safe Routes to School programs.	<b>6</b>	<b>6</b>	
Professional development opportunities offered for physical education and health education teachers on the National Health Education Standards, the National Physical Education Standards, and/or the Physical Activity Guidelines for Americans.	6	<b>6</b>	Ğ

## TOBACCO

POLICY, REGULATION, AND ENVIRONMENT	2016	2019	2021	
24/7 tobacco-free school policy which prohibits all tobacco use on school grounds and school-sponsored activities by everyone—staff, students, faculty, visitors and guests.	6	Ğ	<b>S</b>	
Policy for cessation/education classes such as the American Lung Association's Not on Tobacco (NOT) program offered in school setting.	Ğ	<b>S</b>	<b>S</b>	
Referral for students who use tobacco to cessation resources (i.e. NOT program, SD QuitLine).			<b>6</b>	
EDUCATION & AWARENESS				
Evidence-based tobacco prevention programs, such as LifeSkills, are part of the district's curriculum.		6		
Professional development opportunities on tobacco prevention and cessation are offered/ promoted to staff teaching tobacco prevention and cessation.		6		
Educational opportunities for smoking cessation are provided rather than punitive measures for students caught using tobacco products.				
Educational materials on the harmful consequences of tobacco use and exposure are included in school-based communication channels (e.g. email, poster, newsletters, public address system announcements, and social media).		6		
South Dakota Department of Health Regional Tobacco Prevention Coordinators are utilized to support school tobacco prevention/cessation activities through the provision of technical assistance (i.e. improving school tobacco-free policy) and resources (i.e. educational materials).				
Promote tobacco prevention and cessation through education programs, such as the American Lung Association's Not on Tobacco (NOT) program and Teens Against Tobacco Use (TATU).				

## **WORKSITES**

## CHRONIC DISEASE MANAGEMENT

POLICY, REGULATION, AND ENVIRONMENT	2016	2019	2021	
Local employers participate in Department of Health worksite wellness program, WORKWell.				
Policy to provide affordable, accessible, annual quality health screenings, including chronic disease screening, health coaching, and referral.				
Provide follow-up counseling and education for employees at high risk for developing chronic diseases and related risk factors.				
Adopt an emergency response plan (e.g., an Automatic External Defibrillator, instruction and training for CPR, choking).				
Worksite offers health care coverage for preventive services and quality medical care for employees.				
Policy that health insurance discounts are offered to employees who adopt healthier lifestyles, decrease their chronic disease risk factors, or improve their health screening score.				
Policy to provide employee access to qualified occupational health staff.			Ů	
EDUCATION AND AWARENESS				
Worksite communication channels (email, posters, newsletters, public address system announcements, social media, group educations sessions) that promote the importance of healthy lifestyle behaviors in preventing and /or managing chronic diseases.	<b>S</b>	6		
Promote affordable and accessible chronic disease self-management programs and/or community resources for employees and their families.				
Promote community resources available to employees with risk factors for chronic diseases.				
Events, classes, and incentives are offered for the prevention of and/or management of chronic diseases.				
Training for management and employees on proper response to chronic disease related emergencies (heart attack, stroke, hypoglycemia, etc.) and use of equipment to support timely response (e.g. AED).	<b>6</b>			
Support groups for employees with chronic diseases such as obesity, arthritis, and diabetes.				

## NUTRITION

POLICY, REGULATION, AND ENVIRONMENT	2016	2019	2021
Policy for healthy guidelines for all foods and beverages provided at worksite, such as vending machine products, snacks, and cafeteria food.			
Worksite-sponsored wellness committee which plans and promotes policies and environmental changes for healthy nutrition behaviors of employees.			
Policy for healthy foods and beverages to be served at employee meetings, trainings, and celebrations.			
Partnerships with community organizations for employee access to affordable fresh fruits and vegetables, (i.e. farmers' markets, community gardens, co-ops).			
Provide employee access to refrigerator, microwave, and sink.			
Opportunities are available to employees at the workplace or through outside community-based individually adapted behavior change programs (i.e. weight loss programs that offer counseling and education).	Ğ	Ğ	Ů
Policy which promotes individual behavior change through worksite-sponsored challenges (i.e. Eat 5 servings per day of fruits and/or vegetables).			
Policy for providing breastfeeding accommodations for employees that include both time and private space for breastfeeding during working hours.	6		
Policies for reduced prices for healthy food items in cafeterias and vending machines.			
Point-of- decision labeling (i.e. "low fat," "light," "heart health," "no trans fat") for healthy food items in cafeteria, break rooms, and vending areas.			
EDUCATION AND AWARENESS			
Worksite-sponsored events and incentives promote nutrition education and healthy nutrition behaviors.			
Professional development for foodservice staff on healthy food preparation techniques, portion sizes, and healthy menu choices.			
Worksite communication channels (e.g. email, posters, newsletters, public address system announcements, social media, group educations sessions) promote the importance of healthy nutrition behaviors in preventing and/or managing chronic diseases.	6	Ğ	<b>6</b>

## PHYSICAL ACTIVITY

POLICY, REGULATION, AND ENVIRONMENT	2016	2019	2021	
Free or reduced cost memberships to community physical activity/fitness centers for employees.				
Policy supporting physical activity on breaks/lunch.				
Policy providing flexible work schedule and/or break times for employees to be active during the day.				
A worksite-sponsored wellness committee plans physical activity opportunities for employees.				
Financial/benefit incentives promote/reward employee participation in regular physical activity.				
Policy which promotes individual behavior change through worksite-sponsored challenges (i.e. 10,000 Steps a day, workplace physical activity program).	6			
Policy for structuring the Built Environment to support physical activity opportunities for employees at or near worksite (i.e. bike racks, walking paths, sidewalks, fitness equipment, etc.).				
Point-of-decision prompts (i.e. motivational signs) located by stairwells, when possible.				
Policy supporting strategies to reach and motivate highly sedentary workforce.				
EDUCATION AND AWARENESS				
Worksite communication channels (i.e., email, posters, newsletters, public address system announcements, social media, group education sessions) promote the benefits of regular physical activity, the physical activity guidelines, and the opportunities for activity and recreation at or near the worksite.	ő	ő	ő	
Worksite sponsored events and incentives for increasing and maintaining physical activity for employees.				
Promotion of stairwell use (i.e. Motivational Signs, Music, Art, etc.).	À	Å	Å	

## TOBACCO

POLICY, REGULATION, AND ENVIRONMENT	2016	2019	2021
Worksite Insurance coverage of nicotine replacement therapy.	ő		
Reduced cost insurance premiums for employees who do not use tobacco.			
Tobacco-free policy 24/7 for indoor and outdoor buildings and grounds.		6	
Smoke-free policy 24/7 for indoor and outdoor buildings and grounds.			
EDUCATION AND AWARENESS			
Promote a referral system to help employees access tobacco cessation resources or services, such as the SD QuitLine (1-866-SD-QUITS).		<b>S</b>	
Worksite communication channels (email, posters, newsletters, public address system announcements, Social media, group education sessions) support a tobacco-free environment and tobacco cessation for employees.		Ó	Ğ
South Dakota Department of Health Regional Tobacco Prevention Coordinators are utilized to support tobacco prevention and/or cessation through technical assistance (i.e. improving worksite tobacco-free policy) and resources (i.e. educational materials).			

## COMMUNITY **ASSET MAP**





#### **Basic Needs**

#### **Clothing and Household Items**

- -Employment closets
- -Maternity and Kids closets
- -Thrift stores
- -Laundry assistance
- -Furniture assistance

#### **Employment**

- -Employment resource center
- -Work transportation
- -Disability employment assistance
- -Vocational training programs

#### Food

- -Food pantries and charitable food sites
- -Nutrition programs
- -Grocery stores
- -Local Farms and Co-Ops

#### **Community Gardens**

- -Supplemental assistance programs
- -Dietitian services

#### Housing

- -Local shelters for housing or crisis needs
- -Renters Assistance
- -Home buying programs
- -Low income housing
- -Local and state housing divisions
- -Legal services
- -After incarceration reintegration

#### **Transportation**

- -Sioux Area Metro
- -Bike Lanes
- -Walking paths
- -Local transportation non-profits
- -Gas, bus pass, and bike assistance
- -Paratransit services

#### **Cultural Groups**

- -Faith-based Gathering Places
- -Multicultural Center
- -Neighborhood Associations

#### **Education**

- -Local private and public school systems
- -Colleges, universities and technical schools
- -Tutoring assistance
- -GED testing services

#### Health

#### **Healthcare Access**

- -Federally qualified health center
- -Regional hospitals
- -Telehealth services
- -Prescription assistance programs
- -Community health workers
- -Veteran healthcare
- -Dental, hearing, and vision care and assistance
- -Indian Health Services

#### Mental Health and Substance Use

-Mental Health Providers



#### Mental Health and Substance Use (Cont.)

- -Residential group care
- -Substance use prevention services
- -Medication-assisted treatment
- -Residential Treatment facilities
- -Outpatient services
- -Community triage center
- -Drug and Alcohol Counselors
- -Support groups

#### **Organizations**

- -City, County and State Government Agencies
- -Private Sector Businesses
- -Chamber of Commerce/Economic Development
- -Nonprofit Service Agencies

## **Priority Populations**

#### **Older Adults**

- -Agencies on aging
- -Falls prevention services
- -Nutrition programs
- -Faith groups
- -Assisted living, long-term care, hospice care
- -Activity and Education Centers

#### Family/Childcare/Youth

- -Family planning clinics
- -Pregnancy services
- -Childcare assistance
- -Early childhood programs
- -Parental learning opportunities
- -Family and marriage counseling

- -Developmental resources
- -Visitation centers

#### **Immigration/Refugee Resources**

- -Cultural centers
- -Interpretation and translation services
- -Case management
- -Education and legal support

#### **Quality of Life**

#### **Activity**

- -Local parks and trails
- -Youth sports
- -Recreation centers
- -Gym/Studio Membership Programs

#### **Arts & Culture**

- -Arts Council
- -Art Galleries
- -Events
- -Performing Arts Venues
- -Sculpture Walk

#### Safety

- -City, county, and state Law enforcement
- -Child protection services
- -Citizen led organizations
- -Animal control

\*A comprehensive listing of specific resources related to basic needs, mental health, and substance use resources and community organizations is available at www.helplinecenter.org.

