



MyMichigan Medical Center Midland
**COMMUNITY HEALTH NEEDS
ASSESSMENT
2022**



Contents

Letter to Community..... 3

Acknowledgements to Partners 4

Executive Summary..... 5

Overview of MyMichigan Health..... 7

Overview of Community 8

Framework/Methodology..... 10

Community Survey Process 13

Demographics..... 14

Social Determinant of Health 15

Health Behaviors..... 18

Chronic Conditions..... 20

Behavioral Health..... 22

Prioritization Process..... 25

Improvement Plan..... 28

Appendix A: Partners..... 29

Appendix B: Data Table..... 30

Appendix C: Survey..... 36

Letter to Community



June 2022

Dear Community Members and Partners,

At MyMichigan Health, our Purpose Statement is: "Creating Healthy Communities – Together."

Community health improvement is a daunting challenge. In fact, it is far too great for any single organization to achieve. However, it can be achieved together with the help of community partners like you. Whether in the public health, foundation, nonprofit organization, government or the health care sector, or those with first-hand experience that live, work, play and age within our communities – all can make a difference.

The Community Health Needs Assessment (CHNA) process is one way to make a difference. The CHNA offers a valuable opportunity to listen and gain input on what health concerns matter most to those in our communities. As part of that process, we seek the most impactful, evidence-based ways to work together to improve the health of our communities. Collectively, we have worked hard to address key priorities identified in previous CHNAs to move the needle on health indicators. As a result, we have implemented programs and developed new processes to provide care and affect social determinants of health to those most in need. We are proud of what we have accomplished thus far, but also understand there is still much work to be done.

It is through our CHNA process, using data and stakeholder input, that we measure and obtain a detailed snapshot of our region's health needs and how best to address barriers to achieving a healthy life. We know that individuals and families can best achieve a healthy life when they are able to make positive health choices in settings where barriers to health are addressed and removed.

MyMichigan Health takes its role as an anchor institution, a community leader and trusted partner in our communities very seriously. We know that we serve as a major employer, purchaser, leader and participant in interconnected relationships with you, for the good of our community's health.

MyMichigan Health understands its responsibility to set standards of care not only in our clinical settings, but also in the towns, community centers and classrooms where we serve. Our efforts to strengthen and integrate our clinical and community programs, together with our community partners, is how we become successful in our challenge to improve health.

It is our pleasure to provide this 2022 MyMichigan Medical Center Midland Community health Needs Assessment. In accordance with policy, the Board of Directors reviewed and approved this report on April 29th, 2022. We invite you to explore this report and join us as we engage in addressing the critical health issues in our community.

Sincerely,

Bryan Cross
President, Midland

Sharon Mortenson
Chair, Board of Directors

Mary Greeley
Vice President of Population health

Figure 1: Letter to the community

Acknowledgements to Partners

MyMichigan Medical Center Midland is pleased to share with you the 2022 Community Health Needs Assessment. We adopted and modified the Mobilizing for Action through Planning Partnerships (MAPP) process to meet the needs of MyMichigan Health, our partners and the community. This is a health system led and community-driven strategic planning process for improving community health. This report represents our commitment to identify and address the barriers in our communities that impact their health.

MyMichigan Medical Center Midland would like to give a special thank you to all of those who have been involved in the development of the CHNA. This includes Saginaw Valley State University interns Alexis Jones and Lewis Wasek in addition to Department of Health Sciences Associate Professors, Dr. Megan Baruth, and Dr. Rebecca Schlaff for their efforts in developing, disseminating, collecting and analyzing our Midland County Health Survey. All of these partners took part in an extensive process that started with planning, collecting and analyzing data to identify the top strategic health issues that our communities face. Collecting qualitative and quantitative data through our process enabled us to have a deep understanding of the challenges that our community faces.

This understanding enables us to develop our Community Health Improvement Plan (CHIP) that will guide our efforts over the next three years to impact health outcomes in our community.

Thank you to our Community Health Needs Assessment Partners



Figure 2: Community Health Needs Assessment Partners

Executive Summary

The Community Health Team of MyMichigan Health supports the Community Health Needs assessment (CHNA) as a key component of improving population health. Our assessment and corresponding plans reflect the purpose and core values to MyMichigan Health. We truly believe that health happens where we live, learn, work and play and that all people should have the opportunity to make choices that allow them to live a long, healthy life, regardless of their income, education or ethnic background.

MyMichigan Medical Center Midland, with community partners, conducted this CHNA using a modified Mobilizing for Action through Planning Partnerships (MAPP) process that assessed the current health status of the community based on identified needs according to benchmark comparisons in secondary public health data and primary data collected through community surveying for community input, and the development of a Community Health Improvement Plan (CHIP). The process included several community partners that collected, reviewed and analyzed public health data, completed and distributed the community health survey, identified priorities and set goals for the 2022 CHIP.

Community Health Status

Midland and Bay are neighboring counties in the Mid-Eastern section of Michigan's lower peninsula. Midland county ranks in the top quartile of healthiest counties according to County Health Rankings, while Bay County ranks in the second and third quartile for health outcomes and health factors, respectively. Despite the difference in health outcomes and factors rankings, these communities share many characteristics. The percentage of the populations living in rural areas are between 30-40%, and the age of the population is increasing for both counties. Both counties also share health concerns related to chronic conditions such as increasing rates of diabetes mortality, adult and youth smoking rates and cancer incidence rates. Substance Use Disorder, Drug Overdose Deaths and Suicide remain high in Bay county and continue to rise in Midland County as well.

Community Health Survey

A community health survey was conducted in Midland County between the months of November, 2021 and March 2022, surveying members of Midland county in both the rural and in town demographics. The process of surveying, data collection and analysis identified key themes of ongoing issues of health behaviors that may lead to diabetes and obesity, risk factors for many chronic conditions. Also included in this assessment is the Midland County Youth Survey that identified increasing rates of youth substance use and suicide attempts.

Community Health Improvement Plan

Two focus areas were adopted and approved by the MyMichigan Medical Center Midland Board of Directors, at the recommendation of the advisory committees and community partners. These focus areas will have specific targets for community health impact based on the data collected and analyzed:



Figure 3: Focus areas

Overview of MyMichigan Health

MyMichigan Health, a non-profit health system headquartered in Midland, Michigan, is a leader in providing award-winning, high-quality care to the 25-county region it serves. With Medical Centers in Alma, Alpena, Clare, Gladwin, Midland, Mt. Pleasant, Sault Ste. Marie and West Branch, MyMichigan also has affiliations with Medical Centers in St. Ignace and Mackinac Island. MyMichigan Health provides a full continuum of care across a wide array of settings, including urgent care centers, home health, virtual care, as well as medical offices in more than 30 specialties and subspecialties including cardiology, family medicine, hematology/oncology, neurosciences, orthopedics, pediatrics, vascular surgery, and more. MyMichigan Health demonstrates its commitment to the future of medicine by partnering with leading institutions to offer medical education programs that train medical students, physicians, nurse practitioner and physician assistant students, nursing students, and other clinical experts from our region. Its more than 8,800 employees, volunteers, health care providers and other personnel work together to create healthy communities through solutions designed to meet the ever-changing needs of the 981,000 residents in the health system's 25-county service area. In fiscal year 2021, MyMichigan Health provided \$78 million in community benefits, as well as supported its patients and families with new equipment, services and programs with funds raised by the MyMichigan Health Foundation.



Figure 4: Five Foundational Elements

Our Communities

MyMichigan Health

- Medical Centers**
 - MyMichigan Medical Center Alma
 - MyMichigan Medical Center Alpena
 - MyMichigan Medical Center Clare
 - MyMichigan Medical Center Gladwin
 - MyMichigan Medical Center Midland
 - MyMichigan Medical Center Mt. Pleasant
 - MyMichigan Medical Center West Branch
 - Mackinac Straits Hospital**
 - Mackinac Island Medical Center**
- Medical Offices and Support Services**
 - Alma, Alpena, Ashtabula, Auburn, Bois Blanc Island**, Breckanridge, Cheboygan**, Cedarville, Clara, Drummond Island, Edmore, Farwell, Freeland, Gladwin, Harrison, Ithaca, Kinross, Lincoln, Mackinaw City**, Midland, Mt. Pleasant, Oscoda, Pigeon, Prudenville, Rogers City, St. Ignace**, Sault Ste. Marie, Sanford, Shepherd and West Branch.
- Health Parks**
 - Bay, Freeland, Gladwin, Harrison, West Branch
- Urgent Care Centers**
 - Alma, Alpena, Clare, Freeland, Gladwin, Houghton Lake, Midland, West Branch
- Walk In Care**
 - Bay, Sault Ste. Marie
- Continuing Care**
 - RehabCentre
 - MyMichigan Home Care
 - MyMichigan Hospice
 - Woodland Hospice House
- Long Term Care**
 - Sault Ste. Marie, St. Ignace**
- Other Services, Partners, Joint Ventures**
 - Advanced PET Imaging Network*
 - ConnectCare*
 - Great Lakes Bay Surgery & Endoscopy Center*
 - Michigan Community Health Services
 - Mt. Pleasant Surgery Center*
 - MyMichigan Collaborative Care Organization
 - MyMichigan Health Foundation
 - MyMichigan Health Network*
 - MyMichigan Medical Group
 - Open MRI Mt. Pleasant*
 - Wound Treatment Centers*

*Joint Ventures
**Not affiliated with University of Michigan Health

Figure 5: Our Communities

**Feedback is welcomed via
CommunityHealth@mymichigan.org**

Overview of Community

MyMichigan Medical Center Midland sits in Midland County, located in the beautiful Great Lakes Bay Region. With a population of over 80,000, Midland County is approximately 40% rural with a full array of services, including police and fire protection, planning and community development, horticulture, 72 parks and 2,700 acres of park land, a robust array of recreational activities, community affairs, transportation services via Dial-A-Ride, Jack Barstow Airport and much more. Midland is known as “The City of Modern Explorers” and has long been recognized as a leader in the health, science and chemical industry. Midland hosts the sites of MyMichigan Health, Dow, DuPont and Corteva Agriscience, state and national leaders in their respective fields. In Addition, Midland is also home to Northwood University, as well as satellite campuses for Central Michigan University, Delta College and Davenport University.



Figure 6: Image of Tridge in Midland, MI

MyMichigan Medical Center Midland is a 324 licensed-bed hospital located on 225 acres of wooded campus in beautiful Midland, Mich. A leader in providing high quality, state-of-the-art health care, the Medical Center in Midland is the flagship of the award-winning MyMichigan Health system. In fact, in 2021, Michigan Performance Excellence (MIPEX) awarded MyMichigan Health the 2021 Michigan Performance Excellence Award, the state’s highest honor for organizations that have demonstrated outstanding performance, leadership, and operational excellence. As a Michigan Performance Excellence Award recipient, MyMichigan Health is now eligible to apply to the Malcolm Baldrige National Quality Award Program. What’s more, MyMichigan Health has received CHIME HealthCare’s Most Wired Award, as well as the MHA Community Benefit Award, to name just a few. MyMichigan is the only Medical Center in the Great Lakes Bay Region to have all private rooms. Private rooms are also available at MyMichigan Health’s subsidiary, MyMichigan Medical Center Alma. MyMichigan Medical

Center Midland has an environment of superior healing, infection control and patient safety. The Medical Center offers a range of primary care services, outstanding specialty care and emergency care, with excellence in cardiovascular, cancer, neuroscience, obstetrics, orthopedics, rehabilitation, diabetes and other services. Ancillary services include CT scanning, radiation therapy, chemotherapy, laboratory, pharmacy, cardiac catheterization and magnetic resonance imaging. Accredited by The Joint Commission, MyMichigan Medical Center Midland has become a regional referral hospital for the northern and middle areas of the state. The medical staff in Midland includes more than 160 active physicians representing more than 30 specialties and subspecialties. It is also a teaching hospital, with a three-year residency program in family medicine and clinical affiliations for training medical students from Michigan State University and Central Michigan University. The Medical Center employs more than 2,800 employees, making it the largest employer in Midland County. Together, the Medical Center's workforce, health care providers, as well as hundreds of volunteers work together to create healthy communities through solutions designed to meet the ever-changing needs of the residents in its service area. To learn more about MyMichigan Medical Center Midland, visit mymichigan.org/midland.

Community Served at MyMichigan Medical Center Midland

The service area in Midland County is comprised of zip codes: 48618 (Coleman), 48620 (Edenville), 48628 (Hope), 48640 (Midland), 48641 (Midland), 48642 (Midland), 48657 (Sanford), 48667 (Midland), (48670) Midland), 48674 (Midland) and 48686 (Midland). Services for MyMichigan Medical Center Midland extends to: 48706 (Bay) 48708 (Bay), 48611 (Auburn) and 48623 (Freeland)

Framework/Methodology

The Community Health Needs Assessment (CHNA), while a requirement every three years under the Patient Protection and Affordable Care act for our tax exempt status, is an important reflection of MyMichigan Health’s mission, vision, core values and the system’s goal to become a leader in our regions to improve the health of our communities. Community is a foundational element in MyMichigan Health’s strategic plan, and we believe that all people should have the opportunity to make healthy choices for a long, prosperous life, despite an individual’s socioeconomic status, education or background. The CHNA, as a key component for identifying top health concerns in a given area, will be vital in accomplishing the four objectives of the “Quadruple Aim”: Improve health outcomes in the community, enhance patient experience, enhance provider experience and reduce the cost of care. The primary purpose for the Community Health Needs Assessment for MyMichigan Medical Center Midland is to gain an understanding of the health needs caused by disparities in social determinants of health (SDOH) as well as strengths in the given service area. We do so by analyzing a large and specific collection of data and community input in Midland County. Bay county public health data is included for evolving strategic awareness and was not included in the prioritization of focus areas. With this understanding of the needs in our communities, we are equipped to develop a three-year strategic plan to improve the health outcomes in our communities and build health improvement capacity for the future health of its residents.

2022 CHNA Process

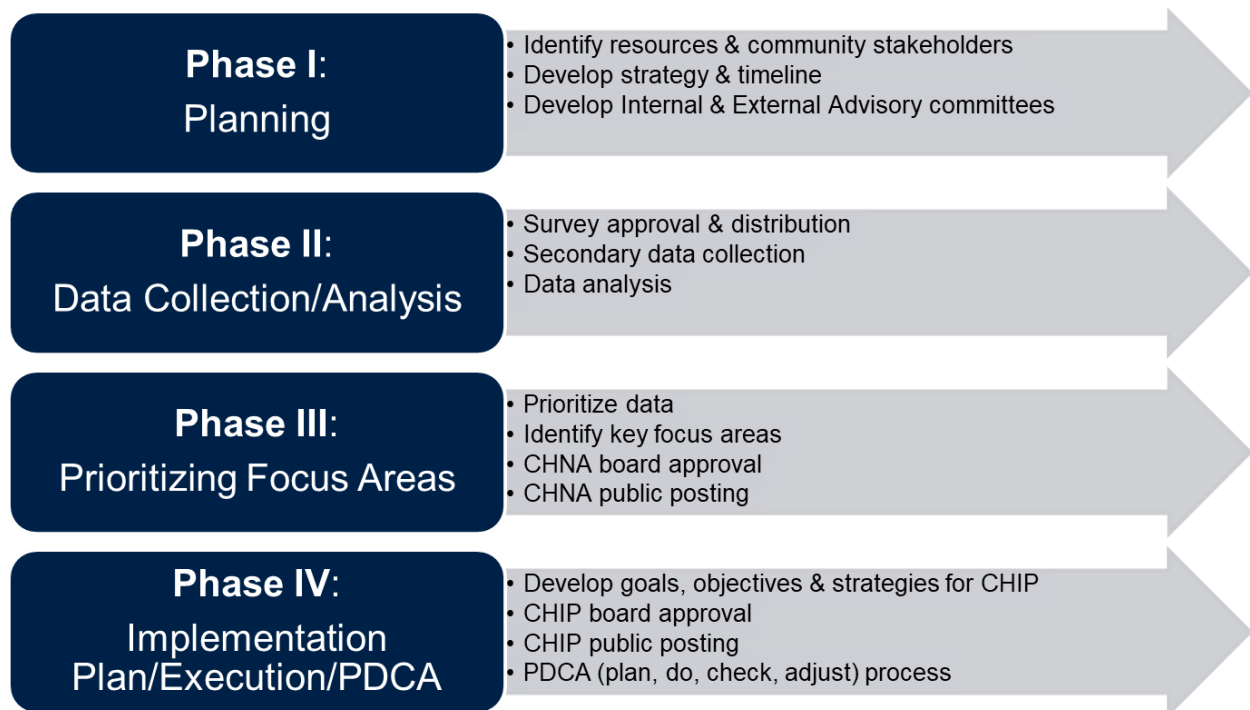


Figure 7: 2022 CHNA Process

Phase I: Planning for the CHNA strategy

Identifying resources and community stakeholders within the Medical Center’s service area is a critical component to the CHNA. The community Health team participates in community collaborative groups that are comprised of local organizations and community leaders who focus on the health of the residents. These groups include local non-profit organizations, public health agencies and health coalitions that collaborate to achieve mutual health related goals. Phase I of the CHNA process includes the development of a strategy and timeline to be approved by the MyMichigan Health Leadership Team, who is utilized as an internal advisory committee, and the president of MyMichigan Medical Center Midland.

Phase II: Data collection and analysis

Forms of primary and secondary data from the Midland service area are utilized to perform analysis. **Primary data** will include the input of those representing the local communities. This local input is provided through a survey comprised of questions that are intended to provide an overview of the perceived health needs of community members. **Secondary data** includes over 200 public health indicators that are collected to determine the demographics and health status of the community serviced by MyMichigan Medical Center Midland. This data will be compared to established benchmarks in the State of Michigan and Leading Health Indicators (LHI) selected by Healthy People 2030. LHIs are a small subset of high-priority Healthy People 2030 objectives selected to drive action toward improving health and well-being. LHIs impact major causes of death and disease in the United States and can drive collaboration between organizations and the community. Any health indicator that fails to meet the benchmarks will be identified as a need in the community. This data will then be categorized to determine areas of focus where health issues exist.

Phase III: Prioritizing Focus Areas

This phase involves using specific analytic practices to determine focus areas and decide our top priorities in order to develop an implementation plan. Each indicator from primary and secondary data will be scaled and categorized into a subset piece of data to determine where our needs are in our community and how we can address them. The community health specialist will work with internal and external sources to determine focus areas and provide a communication document that can be reviewed. This data and focus area prioritization will be presented to the Population Health Collaborative Team for input and approval. It will then be collected and presented to the Board of Directors for approval and placed on the MyMichigan Health website for public view and comment.



Figure 8: PDCA Cycle

PHASE IV: Develop Implementation plan/execution/PDCA

Once the data and focus areas are approved, the next step will be to develop a comprehensive, three-year implementation plan that outlines specific goals, objectives and strategies to improve the health outcomes of the community. Review of the focus areas and data analysis will determine what our goals will be, and objectives will be created with those goals in mind and strategies to complete.

Community Survey Process

The 2022 Midland Health Survey was conducted to understand the health and health needs of people living in Midland County. The 2019 Midland Health Survey served as the basis for the 2022 survey. The Saginaw Valley State University team worked with the Health and Human Services Council (HHSC) to adapt the survey to ensure it met the needs of the HHSC and Midland County agencies, and collected data on any health issues/factors emerging since the previous data collection.

The Saginaw Valley State University team aimed to collect data from a representative sample from the city and out county areas. The team used existing US Census data to obtain population estimates for each township/city in Midland County, to ensure appropriate representation from each location. Efforts were also made to obtain a sample that was representative of the Midland County population (age, gender, race, education, income).

Data collection occurred via online and paper surveys. Qualtrics was used to administer the online survey and the link were advertised in the local newspaper, and on HHSC agency websites and social media accounts. The face-to-face survey was administered at various locations throughout Midland County. Participants either completed the survey on site or completed it at home and returned it in a postage paid envelope. An incentive was offered to all those completing the survey (a \$10 gift card to Meijer). The sample generated a total of 745 surveys to be used for analyses (636 online surveys and 109 paper surveys). Table 1 shows the demographic profile of the survey respondents.

2022 Midland Health Survey		
Gender	Male	23.5%
	Female	75.9%
	Prefer not to answer	0.5%
	Prefer to Self-describe	0.1%
Sexualtiy	Heterosexual/Straight	93.0%
	Homosexual/Gay/Lesbian	0.5%
	Bisexual	3.0%
	Prefer to not answer	2.7%
	Prefer to self-describe	0.7%
Age	18-24	14.1%
	25-34	20.8%
	45-54	15.7%
	55-64	13.5%
	65+	20.4%
Race	White	94.9%
	Non-White	5.1%
Origin	Hispanic or Latino	3.5%
	Non-Hispanic or Latino	96.5%
Ethnicity	Middle Eastern or North African	2.2%
	Non Middle Eastern or North African	97.8%

Table 1: 2022 Midland Health Survey Demographics

Demographics

Demographics by Gender and Age (2020)

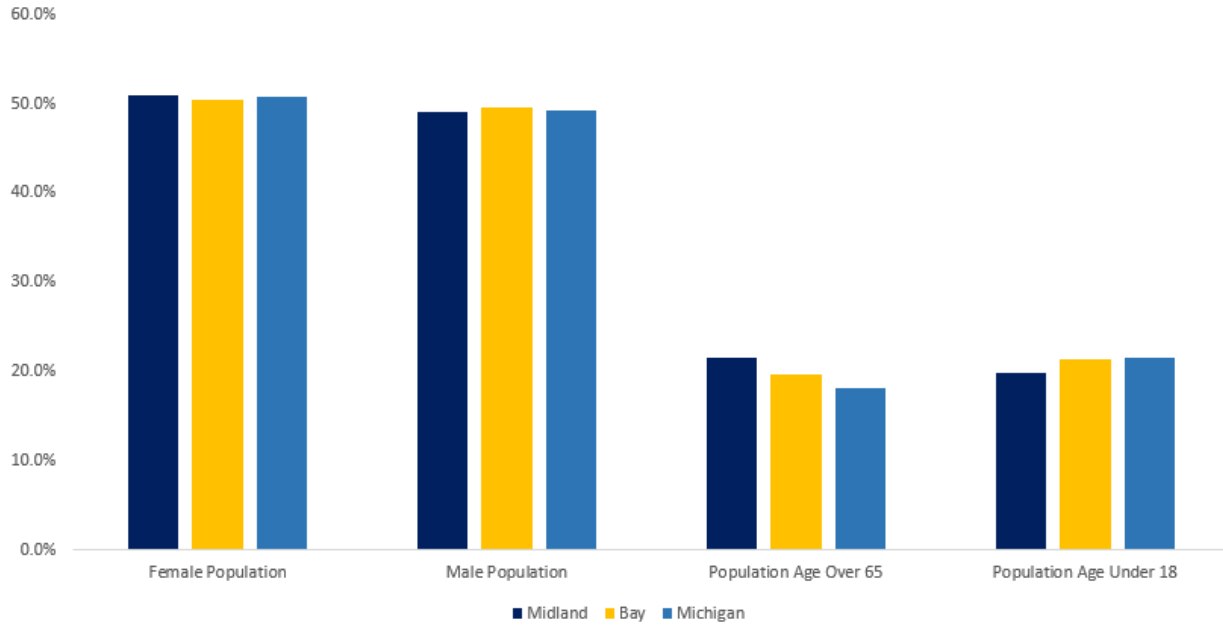


Table 2: Population by gender & age (2020)

Demographics by Race (2020)

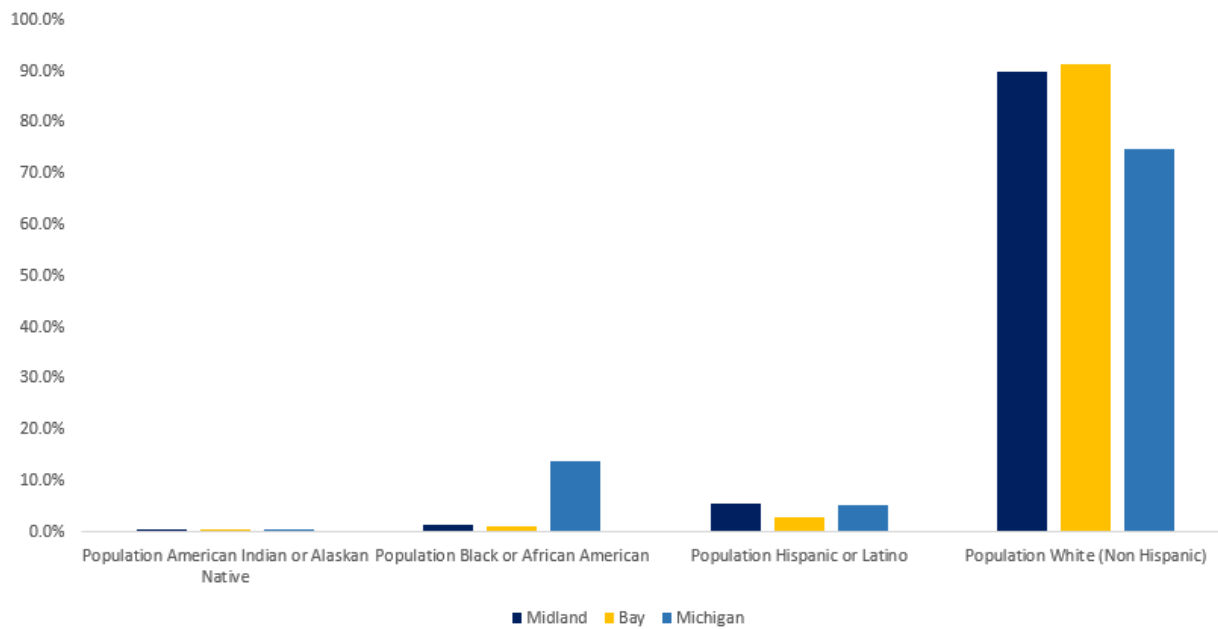


Table 3: Population by Race (2020)

Social Determinant of Health

The Social Determinants of Health (SDOH) are classified as conditions in the environment in which people are born, work, live, or play that affect their health and quality of life outcomes. Areas often included in SDOH frameworks include healthcare access and quality, education access and quality, social and community context, neighborhood and built environment, and economic stability.



Social Determinants of Health
Figure 9: Social Determinants of Health

Economic Stability

Key issues within the economic stability function of SDOH include poverty, employment, food security, housing stability, and ALICE populations. ALICE is an acronym for Asset Limited, Income Constrained, yet Employed, and describes households that earn more than the Federal Poverty Level, but less than the basic cost of living for the county (i.e., those working, yet still struggling to have their basic needs met).

Poverty/Alice (2019)

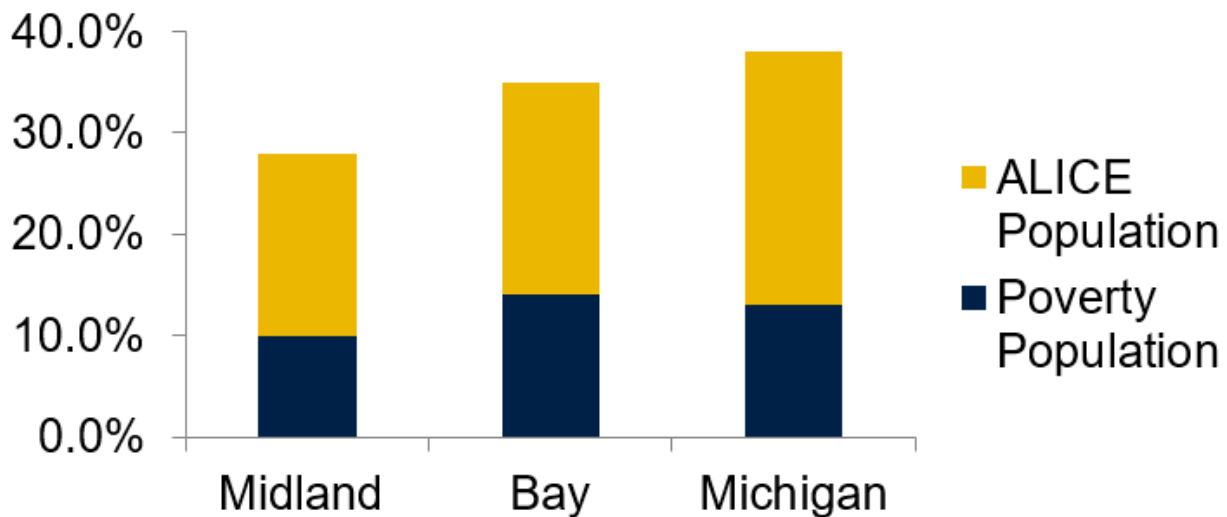


Table 4: Poverty and Alice Populations (2019)

Median Household Income			
	Bay	Midland	Michigan
Median Household Income	\$48,819	\$62,625	\$57,144

Table 5: Median Household Income (2015-2019)

Unemployment Rate			
	Bay	Midland	Michigan
Unemployment Rate	6.1%	4.9%	5.0%

Table 6: Unemployment Rate (2021)

Food Insecurity			
	Bay	Midland	Michigan
Food insecurity	14.0%	11.0%	14.0%
Child Food Insecurity	16.7%	10.4%	14.2%

Table 7: Food Insecurity (2021)

Education

Education status is a key function within the SDOH framework. Key issues such as graduation rates, enrollment in higher education, language and literacy, and early childhood education all play a vital role in the health and wellbeing of a community.

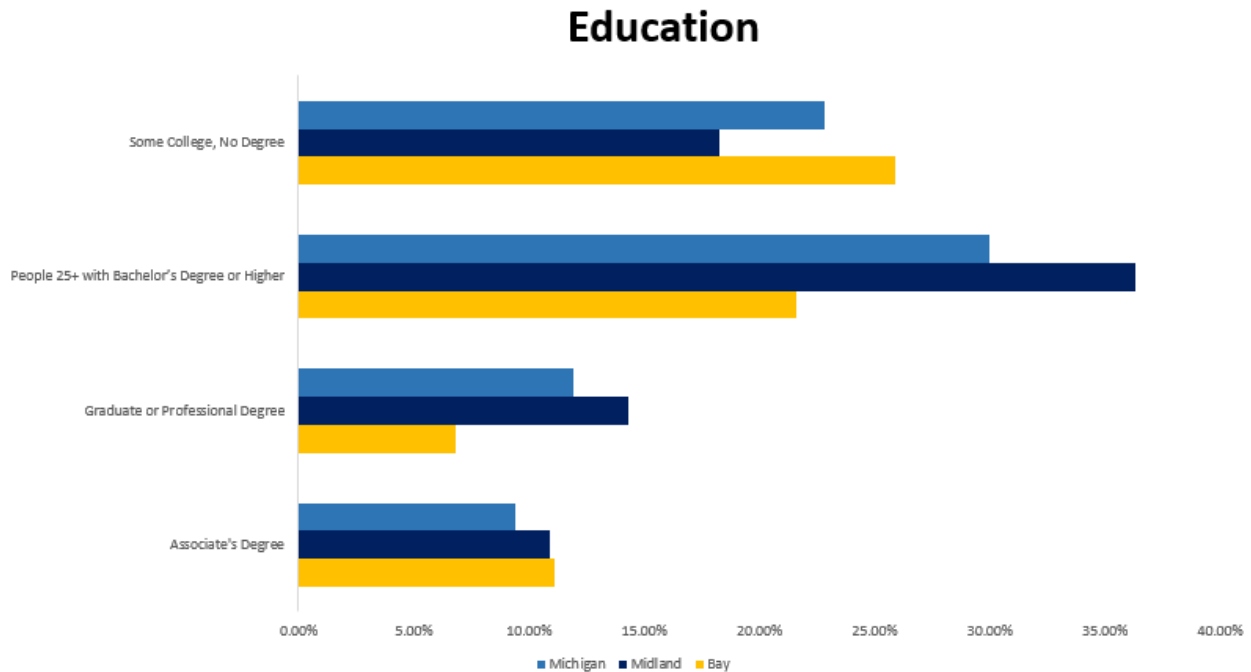


Table 8: Education (2019)

Students not proficient in Grade 3 English (M-Step)			
	Bay	Midland	Michigan
Grade 3 English Deficiency	36.6%	55.9%	42.8%

Table 9: Students not proficient in Grade 3 English (M-Step) (2018-2019)

Disconnected Youth			
	Bay	Midland	Michigan
Disconnected Youth	7.0%	6.0%	7.0%

Table 10: Disconnected Youth (2015-2019)

Neighborhood & Built Environment

There are important connections between where an individual lives and their health and wellbeing. Factors such as neighborhood safety, transportation access, housing quality and standards, and air and water quality all play an important role in determining one's health status.

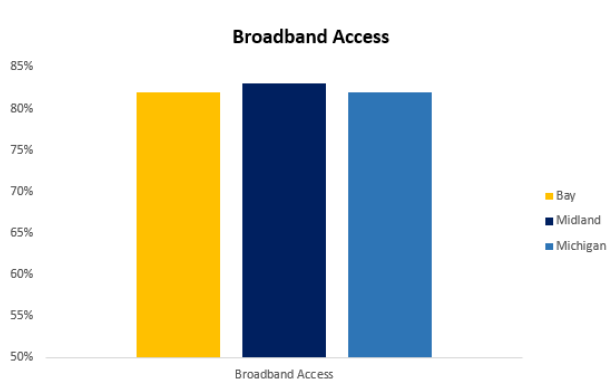


Table 11: Broadband Access (2015-2019)

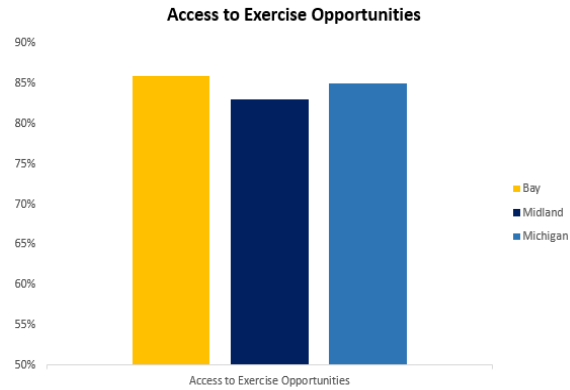


Table 12: Access to Exercise Opportunities

Violent Crime			
	Bay	Midland	Michigan
Violent Crime (per 100,000)	328	126	443

Table 13: Violent Crime Rate (per 100,000 population) (2014 & 2016)

Health Behaviors

Individual behavior plays a vital role in health outcomes. Health Behaviors are often defined as the actions that affect our health. These actions could include behaviors that lead to improvements in health, such as physical activity, healthy eating, and participating in preventive health care. Equally, actions that lead to detriments in our health are also considered health behaviors. These actions include behaviors that increase our risk of disease development, including increased alcohol intake, substance misuse, tobacco or vaping use, and delaying prenatal care.

2022 Midland Health Survey					
Alcohol Use	2022	2019	Tobacco/Vaping	2022	2019
Felt like, wanted or needed to cut back	17.2%	15.7%	Cigarettes	9.4%	6.2%
Experienced negative consequences	12.2%	8.1%	Smokeless Tobacco	3.5%	2.6%
Sought Treatment or attended a support group	3.4%	1.5%	E-cigarettes or Vape	7.7%	3.7%

Table 14: Self-Reported Midland County Alcohol, Tobacco & Vaping use (2022 Midland Health Survey)

Marijuana	2022	2019
Medical Use	6.7	1.9
Recreational Use	10.7	4.7

Marijuana more likely in:
Medical: Less education and income
Recreational: Younger, less education and income

Table 15: Self-Reported Marijuana Use (2022 Midland Health Survey)

30 Day Substance Use Middle/High School

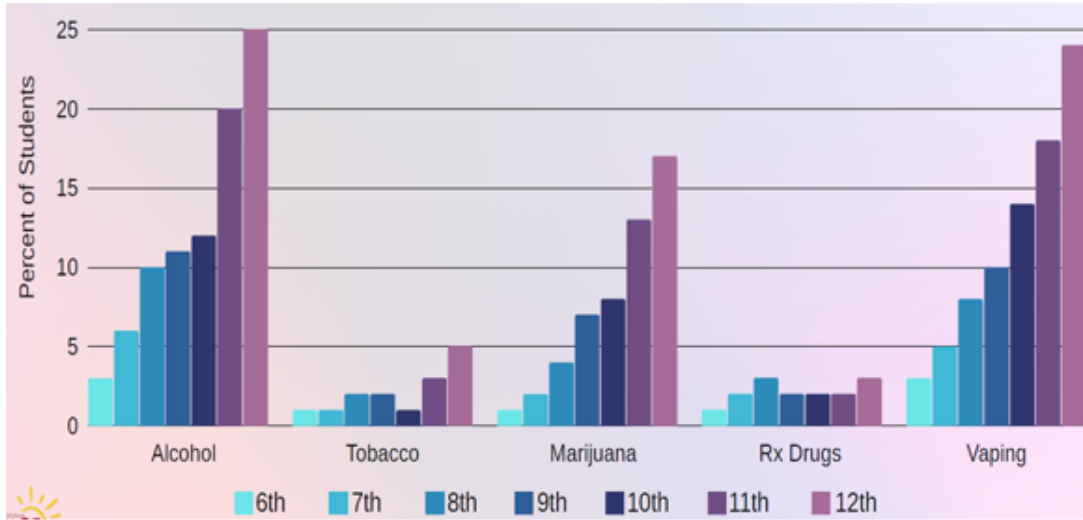


Table 16: 30 Day Substance Use Middle/Highschool (2021 Midland County Youth Study)

Midland County Adult Smoking Prevalence ★ LHI

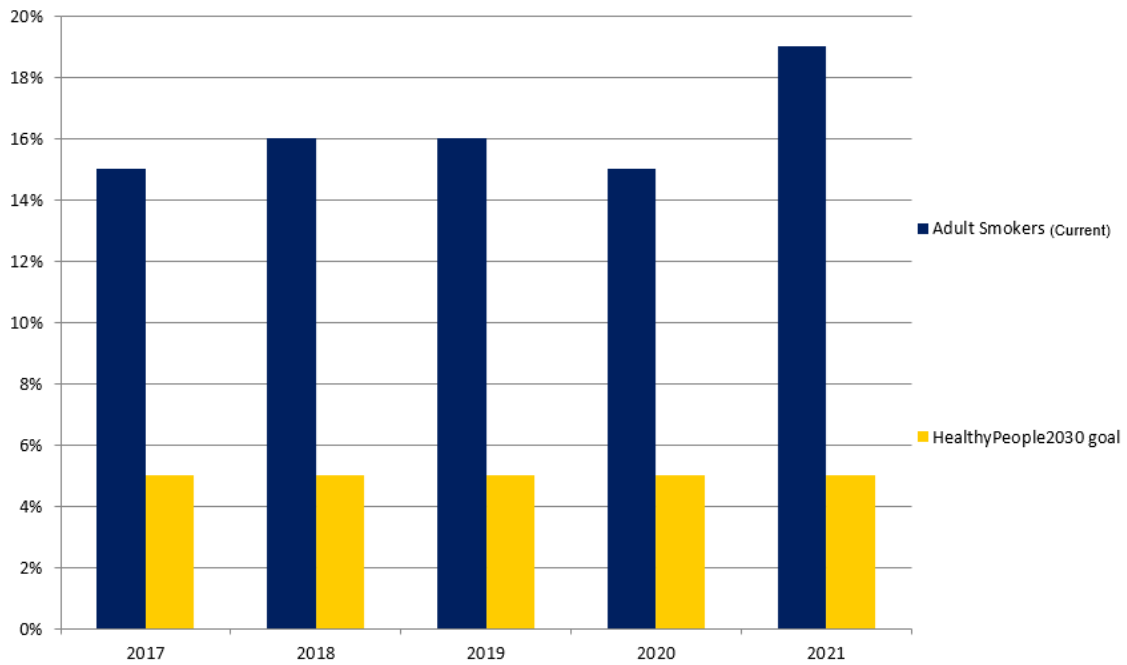


Table 17: Midland County Adult Smoking Prevalence (2017-2021)

Chronic Conditions

Leading Causes of Premature Deaths - 2020

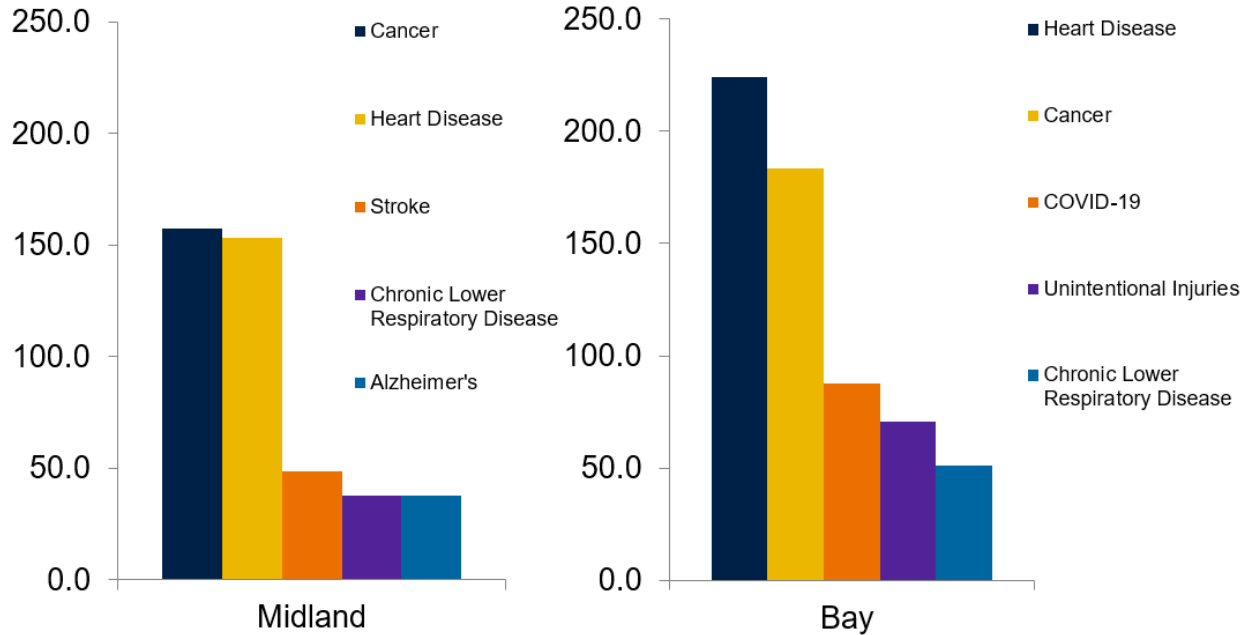


Table 18: Bay and Midland County Leading Causes of Premature Deaths, rater per 100k (2020)

Midland Lung Cancer Mortality

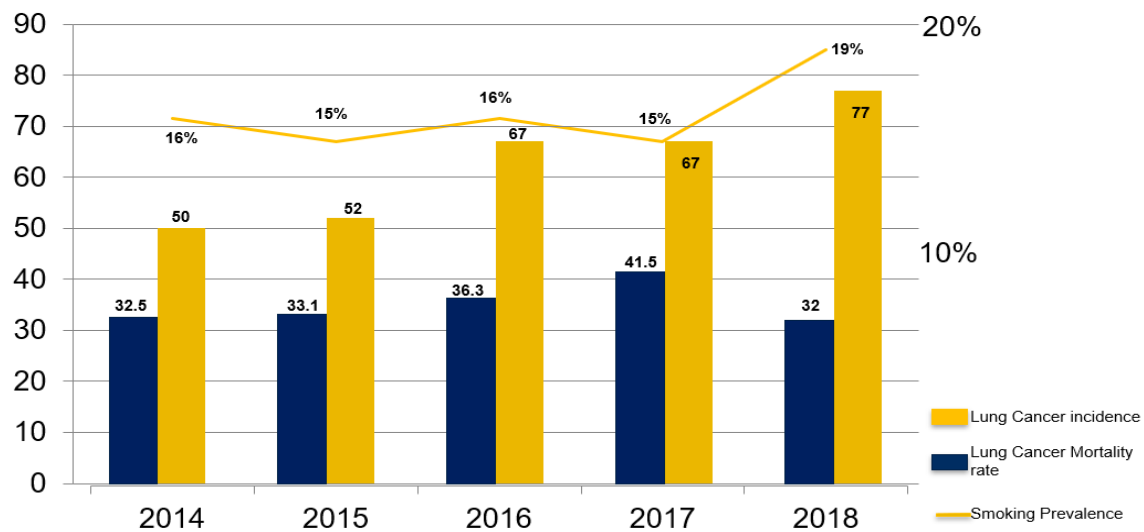


Table 19: Midland County Lung Cancer Mortality (2014-2018)

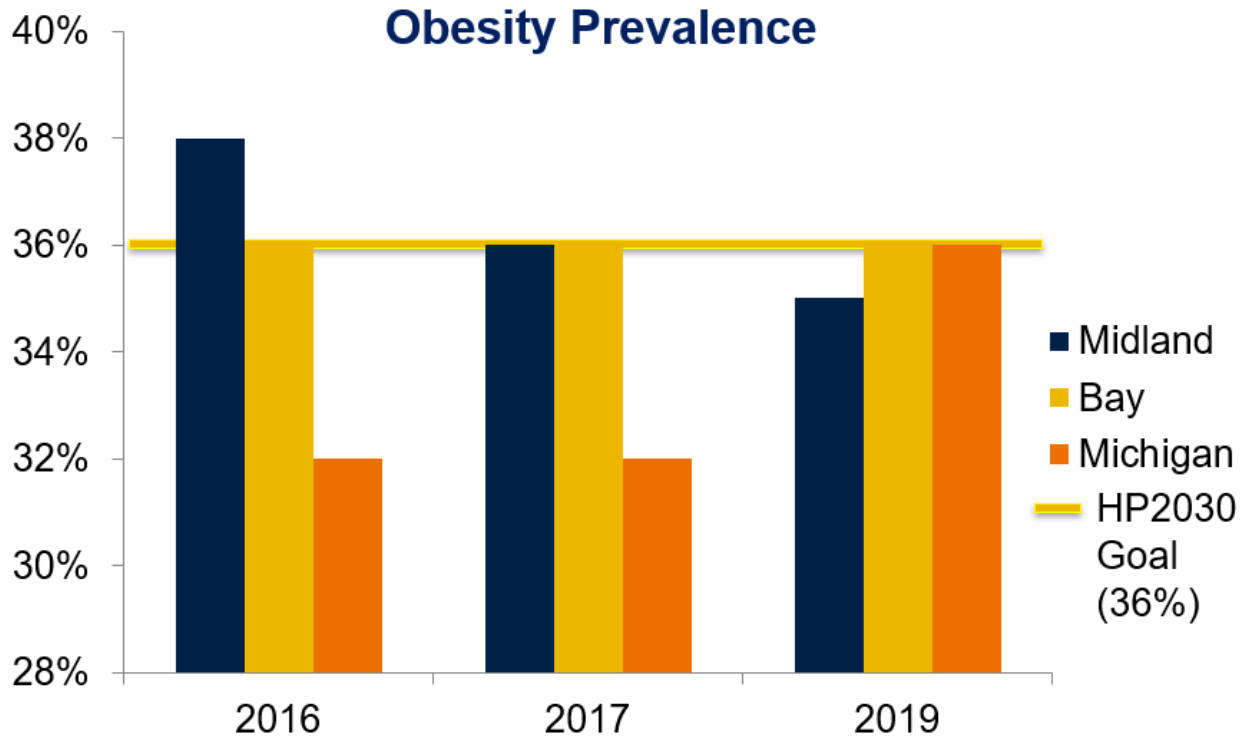


Table 20: Obesity Prevalence (2016-2019)

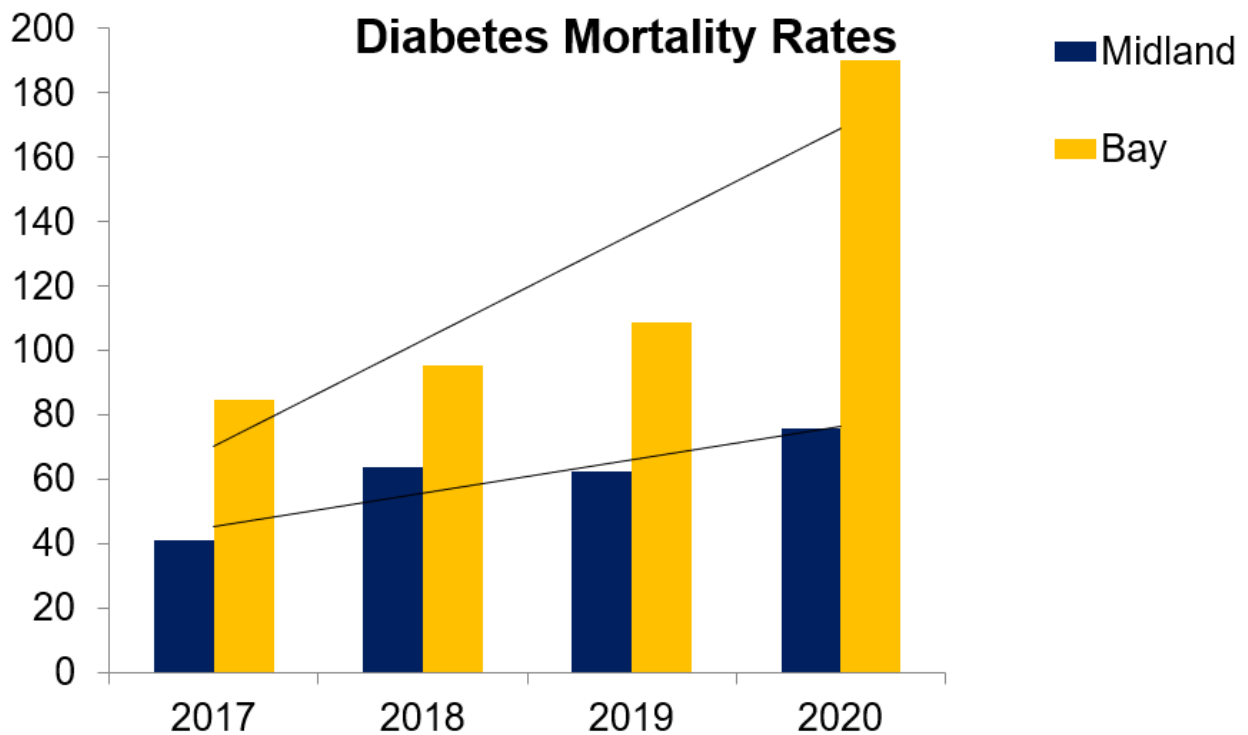


Table 21: Diabetes Mortality Rates (2017-2020)

Behavioral Health

Behavioral Health is an all-encompassing term that often includes mental health, wellbeing, and substance use disorders, treatment and recovery. These elements of the behavioral health field have long been associated with an individual’s overall health status and have an incredible impact on an individual’s everyday life. As the fields of both Mental Health and Substance Use Disorders and Treatment have developed and continue to grow within the medical profession, continued growth in awareness and support for these issues is imperative.

Death By Suicide

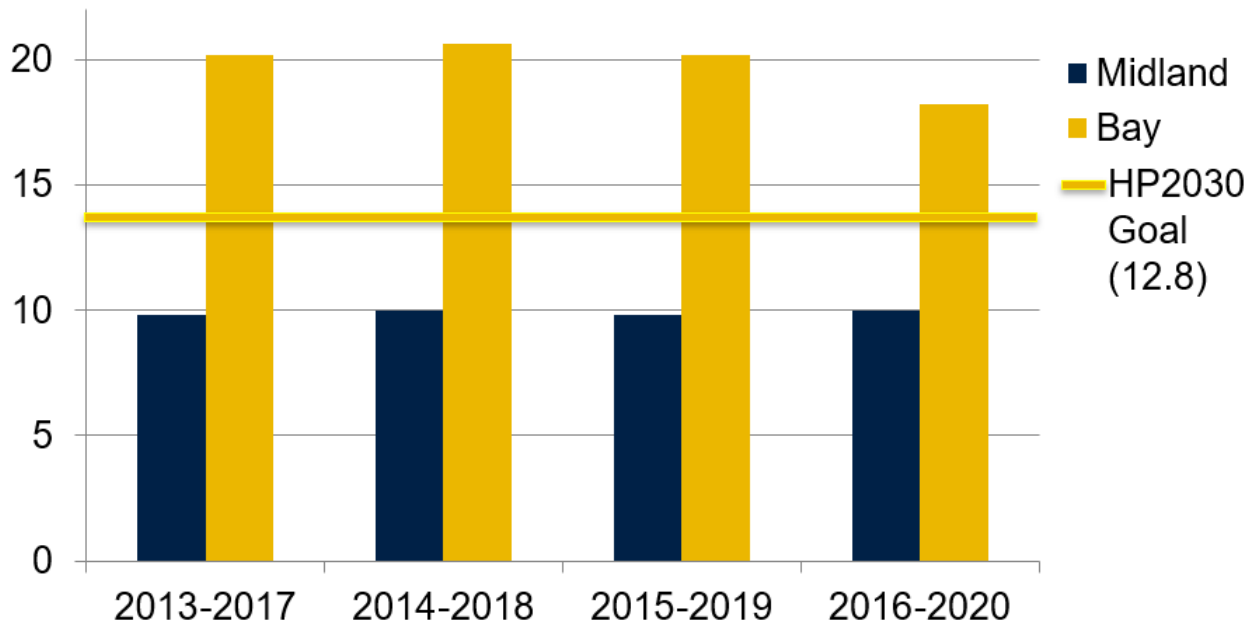


Table 22: Death by Suicide Midland and Bay County (2013-2020)

Adolescent suicide attempts rose from 14% to 19% overall from 2016-2021 in Midland County

Figure 10: Adolescent suicide attempts, Midland County

National adolescent suicide rate has increased 270% since 2017

Figure 11: National adolescent suicides

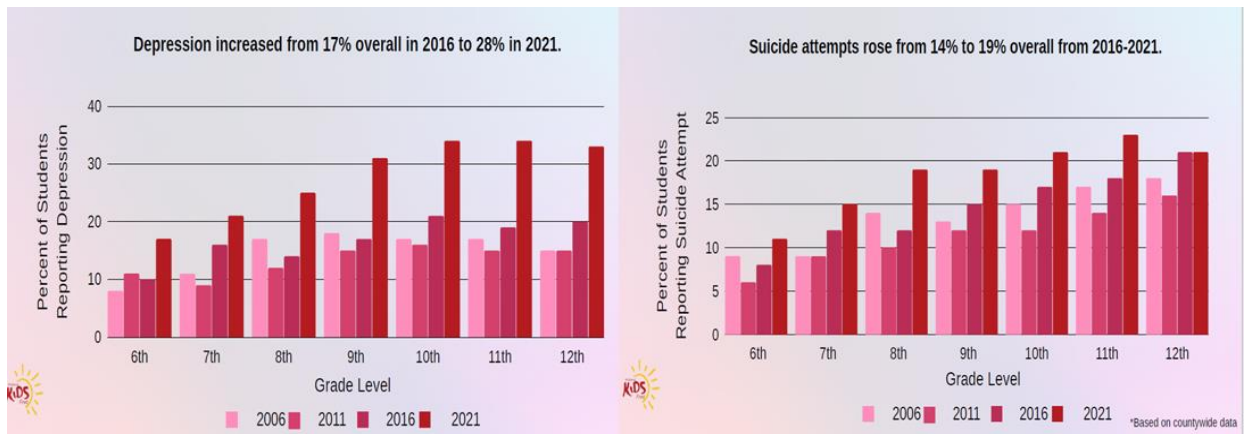


Table 23: Percent of students with Depression and suicide attempts from 2006-2021

Drug Overdose Deaths

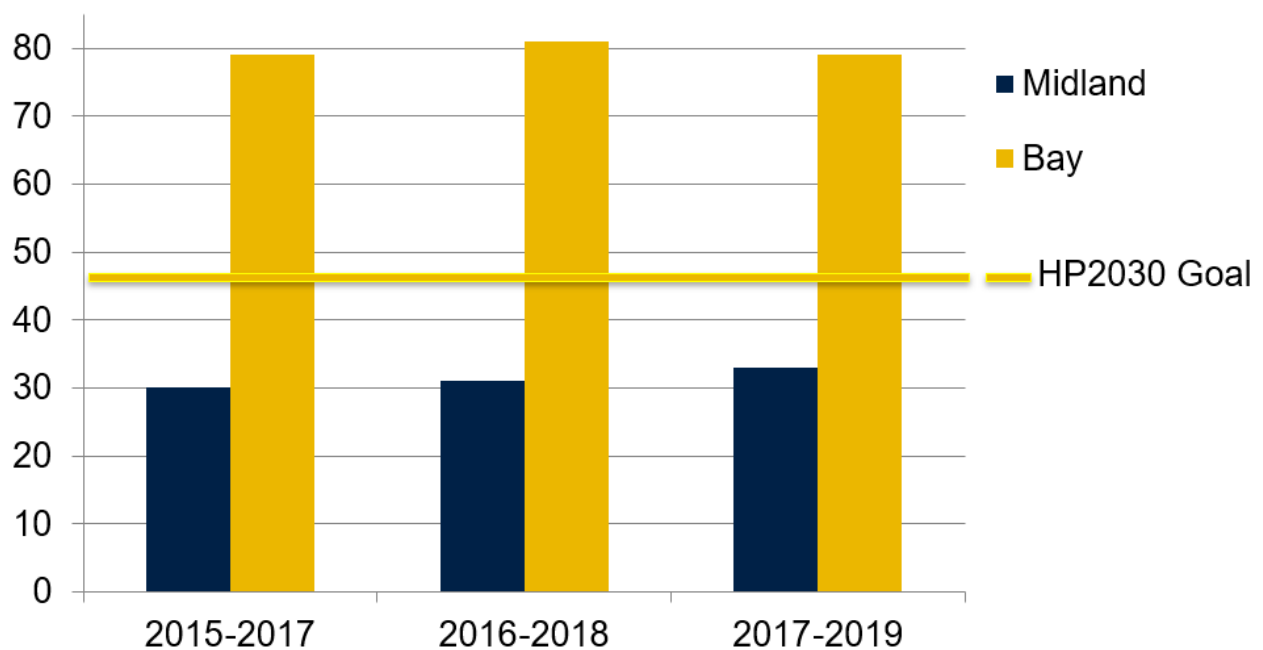


Table 24: Drug Overdose Deaths Midland and Bay County per 100,000 people (2015-2019)

2022 Midland Health Survey

Midland County Mental Health	2022	2019
Depression, % ever diagnosed	33.9	25.9
Anxiety, % ever diagnosed	40.9	29.0
Substance Use Disorder, % ever diagnosed	3.3	2.4
Recovery from past mental health issue (%)	23.2	-
Recovery from past substance use disorder (%)	5.0	-
Limited in activities due to mental or emotional problems (%)	18.5	-

Table 25: Midland County Mental Health (2022 Midland Health Survey)

Prioritization Process

Once both the primary and secondary data was collected, community health needs were determined and prioritized by reviewing qualitative and quantitative data. For Stage I, the Community Health team reviewed the collected health indicator data and identified data that demonstrated poor performance against established benchmarks (i.e., Michigan state averages or HealthyPeople 2030 goals). Once these health needs were identified, the External Advisory Committee assisted in theming and prioritizing the data points using the Hanlon Method.

Stage I: Data Prioritization

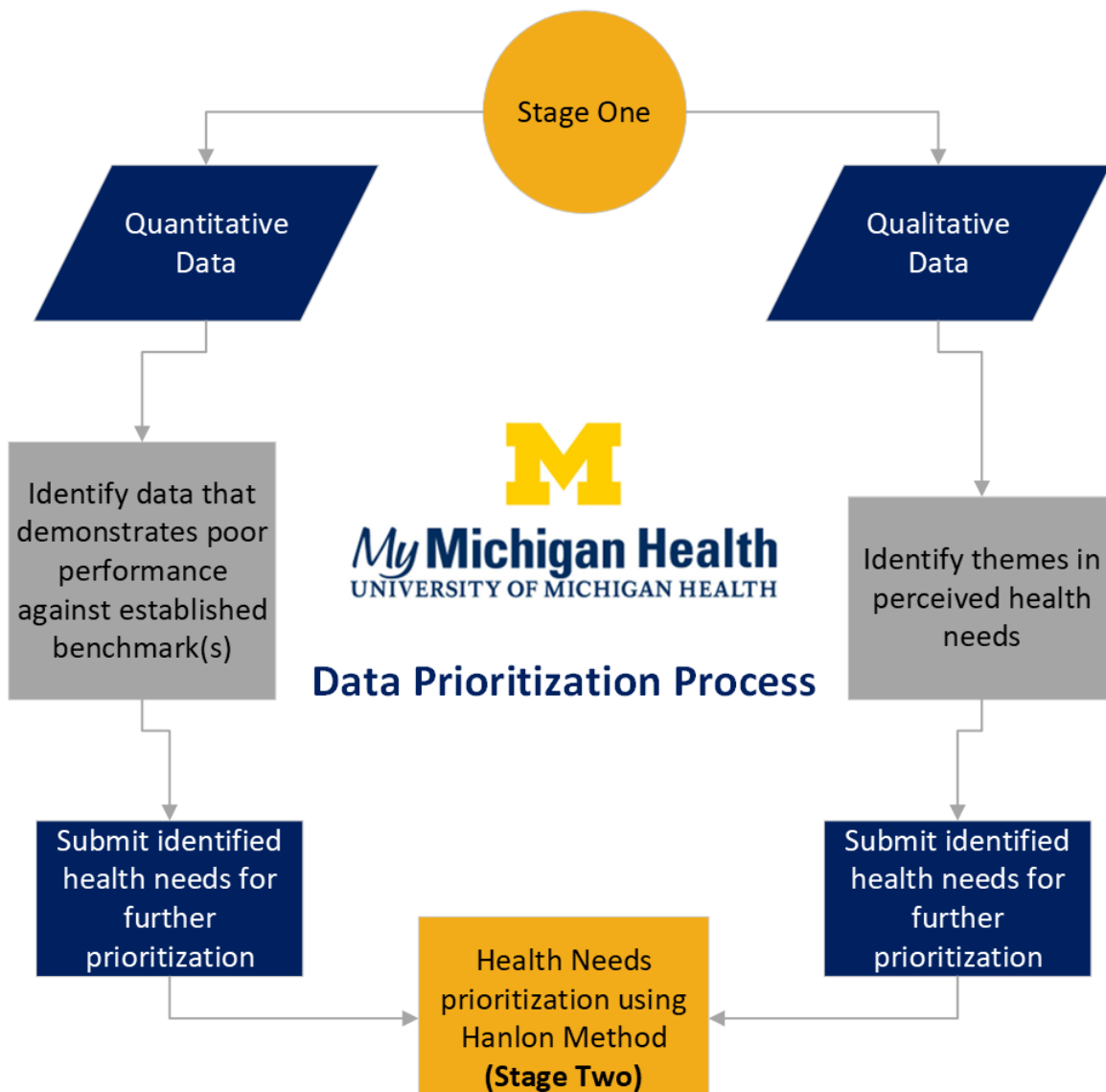


Figure 12: Data Prioritization Process

Stage II: Hanlon Method of Prioritization

Rating	Burden of Illness (% of population with health problem)	Burden of Death (seriousness of health problem)	Effectiveness of Interventions
9 or 10	>25%	Very Serious	<5% Effective
7 or 8	10% - 24.9%	Relatively Serious	5 – 19.99% Effective
5 or 6	1% - 9.9%	Serious	20 – 39.99% Effective
3 or 4	0.1% - 0.9%	Moderately Serious	40 – 59.99% Effective
1 or 2	0.01% - 0.09%	Relatively Not Serious	60 – 79.99% Effective
0	<0.01%	Not Serious	80 – 100% Effective

Priority Score Calculation Formula

$$D = [A + (2 \times B)] \times C$$

Figure 13: Hanlon Method Process

Hanlon Method Results

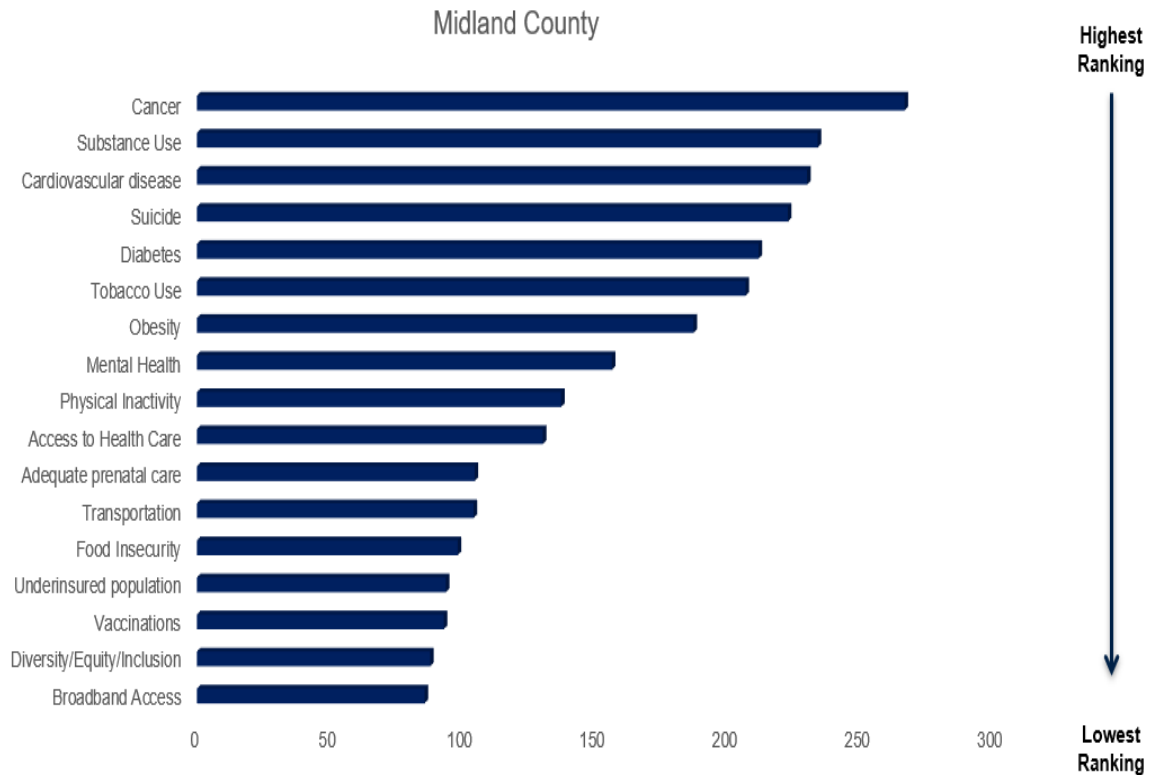


Figure 14: Hanlon Method results

CAUSES OF CHRONIC CONDITIONS

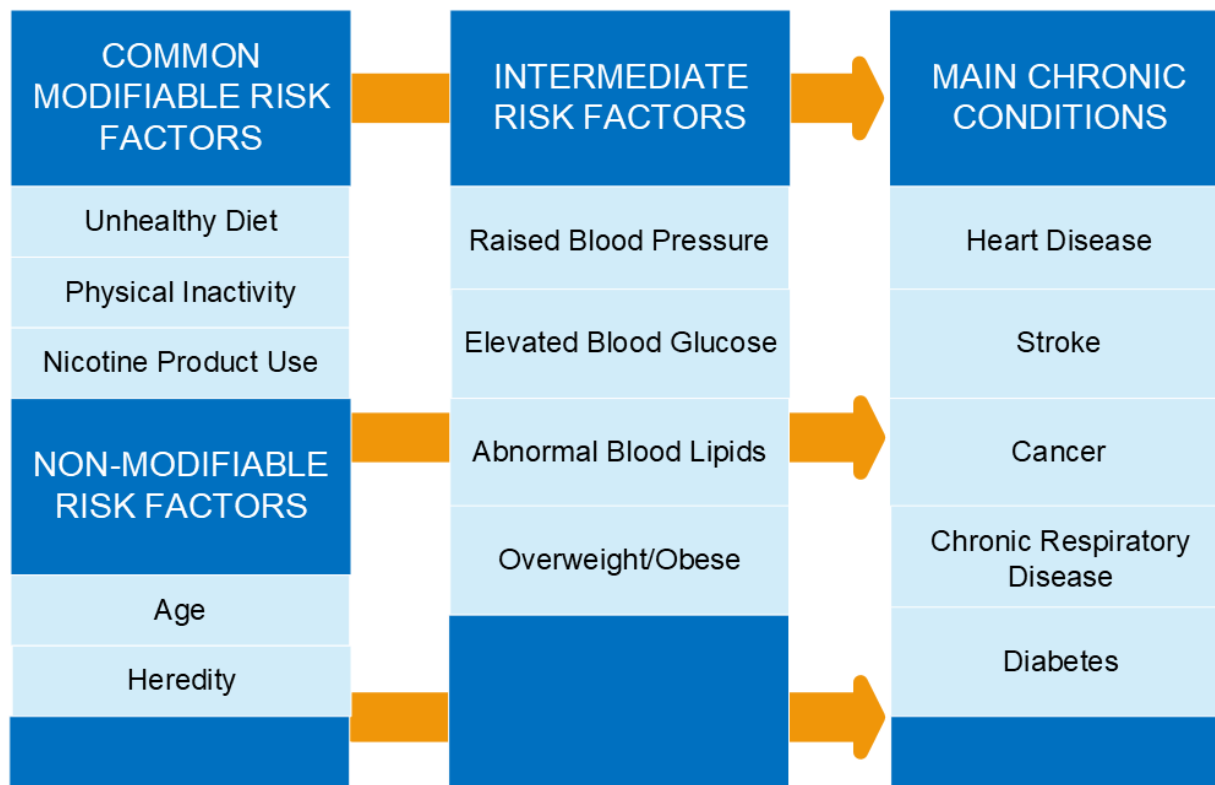


Figure 15: Causes of Chronic Conditions

Further prioritization continues in order to develop the final focus areas. Advisory committees work together to narrow down focus areas based on modifiable risk factors that health needs have in common. Midland County’s high rates of Obesity, increasing rate of diabetes mortality, heart disease and cancer incidence rates coupled with decreasing rates of cancer screenings led to Chronic Disease Prevention as an area of focus. These chronic diseases have similar modifiable risk factors that allow us to develop strategies to impact many chronic diseases together. Similarly, increasing rates of suicide and substance use disorder, particularly in the youth population, fall within the umbrella of Behavioral Health with similar risk factors in youth assets and mental health needs. Final areas of focus were determined to be Chronic Disease Prevention and Behavioral Health.

Improvement Plan

MyMichigan Medical Center Midland built upon the Improvement Plan developed in 2019 to develop a comprehensive plan to address health concerns., all while upholding MyMichigan Health’s purpose statement, “Creating Healthy Communities – Together”. The underlying premise for each MyMichigan Health member in completing the Community Health Improvement Plan is shared ownership for community health and wellbeing. While our previous Community Health Needs Assessment (2019) helped us to identify focus areas for health improvement, the IRS legislation mandating collaborative efforts provided an opportunity to revisit our needs assessment, strategic planning process, and partnerships.

2022 Community Health Needs Assessment

Focus Areas

Chronic Disease Prevention

Behavioral health

The plan that follows includes goals and evidence-based strategies for the focus areas determined by MyMichigan Health’s Community Health team, solicited input from the Midland External and Internal Advisory Committees, and approved by MyMichigan Medical Center Midland’s Board of Directors on April 29, 2022.

Appendix A: Partners

Community Health Needs Assessment Partners

Community Health Assessment & Improvement Committee

United Way of Midland County

The Legacy Center

Senior Services

Ten16

Midland Business Alliance

Shelterhouse of Midland

Community Mental Health

Great Lakes Physicians Organization

Midland's Open Door

211 of Northeast Michigan

Midland County Health Department

Saginaw Valley State University

Appendix B: Data Table

		Indicator	Bay	Midland	Michigan	Healthy People 2030	Source	Date
Economic Stability	Economic Stability - General	Adults 65+ Living Below Poverty Level	12.70%	10.10%	12.60%	*	American Community Survey	2020
		% ALICE	21%	18%	25%	*	United Way	2019
		% Poverty	14%	10%	13%	8%	United Way	2019
		ALICE Total Households	44,887	34,350	1,004,047	*	United Way	2019
		Children Living Below Poverty Level	25.90%	12.30%	17.60%	*	American Community Survey	2020
		Families Living Below Poverty Level	8.10%	8.20%	8.80%	*	American Community Survey	2019
		Households with Cash Public Assistance	2.70%	2.40%	2.20%	*	American Community Survey	2019
		Median Household Income	\$48,819	62,625	\$57,144	*	American Community Survey	2015-2019
		Per Capita Income	\$27,469	\$36,142	\$31,713	*	American Community Survey	2015-2019
		Persons in Poverty	12.70%	10.10%	13.0%	8%	U.S. Census Bureau	2020
		Unemployment Rate	6.10%	4.90%	5.00%	25%	Bureau of Labor Statistics	Jun. 2021
	Housing and Homes	Renters Spending 30% or More of Household Income on Rent	14.10%	8.30%	15.40%	0.255	American Community Survey	2019
		Severe Housing Problems	10%	11%	15%	*	County Health Rankings	2013-2017
	Nutrition and Healthy Eating	Adults 65+ with Low Access to a Grocery Store	3.80%	2.70%		*	US Department of Agriculture; Food Atlas	2015
		Child Food Insecurity Rate	16.70%	10.40%	14.20%	0%	Food Bank Council	9 ¹ pre-COVID
		Children with Low Access to a Grocery Store (per 1,000 population)	4.70%	5.10%		*	US Department of Agriculture; Food Atlas	2015
		Farmers Market Density (per 1,000 population)	0.03	0.02		*	US Department of Agriculture; Food Atlas	2018
		Fast Food Restaurant Density (per 1,000 population)	0.81	0.67		*	US Department of Agriculture; Food Atlas	2016
		Food Environment Index (0 worst to 10 best)	7.4	8	7	*	County Health Rankings	2015 & 2018
		Food Insecurity	14%	11%	14%	6%	County Health Rankings	2018
		Food Stamp/SNAP Benefits in the Past 12 Months	44,887	34,350	3,969,880	*	American Community Survey	2019
		Grocery Store Density (per 100,000 population)	0.16	0.19		*	US Department of Agriculture; Food Atlas	2016
		Limited Access to Healthy Foods	8%	6%	6%	*	County Health Rankings	2015
		Low Income and Low Access to a Grocery Store	8,345	5,071		*	US Department of Agriculture; Food Atlas	2015
		SNAP Participants (per 10,000 population)	13.80%	10.60%	11.70%	*	Community Commons	2019
		Students Eligible for Free Lunch Program	52%	39%	50%	*	County Health Rankings	2018-2019
	Workplace	Driving Alone to Work	86.50%	85.50%	81.80%	*	U.S. Census Bureau	2019
		Mean Travel Time to Work (Minutes)	24.4	24.4	25.1	*	American Community Survey	2019
		People that Use Public Transportation to Get to Work	0.60%	0.90%	1.40%	0.053	U.S. Census Bureau	2019
		People that Walk to Work	1.30%	1.30%	2.20%	0.268	U.S. Census Bureau	2019

		Indicator	Bay	Midland	Michigan	Healthy People 2030	Source	Date
Education Access and Quality	Adolescents	9th to 12th Grade, No Diploma	6%	4%	6%	*	U.S Census Bureau	2019
		Disconnected Youth	7%	6%	7%	0.101	County Health Rankings	2015-2019
		High School Dropouts	5.70%	2.80%	7.70%	*	Center for Educational Performance Information	2019-2020
		High School Graduate	90.50%	94.20%	90.80%	0.907	American Community Survey	2019
		High School Graduation Rate	90%	94%	82%	*	County Health Rankings	2017-2018
		Less than 9th Grade	19.50%	9.30%	12.70%	*	U.S Census Bureau	2019
	Adults	Students in Special Education	2,089	2,219	202,212	*	Kids Count	2020
		Associate's Degree	11.10%	10.90%	9.40%	*	U.S Census Bureau	2019
		Graduate or Professional Degree	6.80%	14.30%	11.90%	*	U.S Census Bureau	2019
		People 25+ with Bachelor's Degree or Higher	21.60%	36.30%	30%	*	American Community Survey	2019
		Some College, No Degree	25.90%	18.30%	22.80%	*	U.S Census Bureau	2019
		Children	3 and 4 Year Olds Not in Preschool	64.30%	51.30%	525	*	Kids Count
Students Not Proficient in Grade 3 English (M-Step)	36.60%		55.90%	42.80%	0.415	Michigan Department of Education	2018-2019	
Determinants	Demographics	Female Population	50.9%	50.5%	50.7%	*	County Health Rankings	2019
		Male Population	49.1%	49.5%	49.3%	*	County Health Rankings	2019
		Overall Population	103,126	83,156	9,986,857	*	County Health Rankings	2019
		Population Age Over 65	21.5%	19.6%	18.2%	*	County Health Rankings	2020
		Population Age Under 18	19.9%	21.3%	21.5%	*	County Health Rankings	2020
		Population American Indian or Alaskan Native	0.6%	0.6%	0.7%	*	County Health Rankings	2020
		Population Black or African American	1.6%	1.3%	13.8%	*	County Health Rankings	2020
		Population Hispanic or Latino	5.5%	2.9%	5.3%	*	County Health Rankings	2020
		Population White (Non Hispanic)	89.8%	91.2%	74.7%	*	County Health Rankings	2020
Health Care Access and Quality - General	Adults 65+ Living Alone	Adults 65+ Living Alone	12.00%	13.00%	12.50%	*	U.S Census Bureau	2019
		Health Factors	55	10	*	*	County Health Rankings	2021
		Health Outcomes	36	8	*	*	County Health Rankings	2021
		No Health Care Access During Past 12 Months: Could Not Get Appointment	*	21.20%	*	0.033	Behavioral Risk Factor Survey	
		No Health Care Access During Past 12 Months Due to Cost	*	14.10%	8.00%	0.349	Behavioral Risk Factor Survey	2020
		People with Dental Insurance				0.598		
		People with Health Insurance				0.921		
		People with Prescription Drug Insurance				0.706		
		Poor or Fair Health	19%	15%	18%	*	County Health Rankings	2018
		Uninsured Adults	8%	6%	8%	0.079	County Health Rankings	2018
	Uninsured Children	Uninsured Children	3%	3%	3%	*	County Health Rankings	2018
		Uninsured Seniors			1.00%	*	U.S Census Bureau	2019
		All Cancer Incident Rate (per 100,000 population)	480	424.8	448.8	*	National Cancer Institute	2015-2019
		All Cancer Medicare Population Incident Rate (per 100,000 population)				*	Centers for Medicare and Medicaid Services	
		All Cancer Mortality Rate (per 100,000 population)	174.6	144.6	162.7	122.7	National Cancer Institute	2015-2019
		Blood Stool Home Kit			11.00%	*	Behavioral Risk Factor Survey	
		Breast Cancer Incident Rate (per 100 population)	118.3	130	123.1	*	National Cancer Institute	2014-2018
Breast Cancer Mortality Rate (per 100,000 population)	16.5	20.1	20.4	15.3	National Cancer Institute	2015-2019		
Breast Cancer Screening			73.3%	0.771	National Cancer Institute	2018		

		Indicator	Bay	Midland	Michigan	Healthy People 2030	Source	Date
Health Care Access and Quality	Cancer	Colorectal Cancer Screening			76.30%	0.744	National Cancer Institute	2015-2019
		Lung Cancer Incident Rate (per 100,000 population)	61.9	53	57.1	*	National Cancer Institute	2014-2018
		Lung Cancer Mortality Rate (per 100,000 population)	39.6	33.5	36.4	25.1	National Cancer Institute	2015-2019
		Lung Cancer Screening				0.075		
		Mammogram Screening			80.00%	0.771	Behavioral Risk Factor Surveillance System	2020
		Mammogram Screening (Medicare population)	46%	49%	44%	*	County Health Rankings	2018
		Oral Cancer Detected at Earliest Stages				0.342		
		Oral Cancer Incident Rate (per 100,000 population)	9.4	6.3	7.6	*	National Cancer Institute	2014-2018
		Pap Test in Past 3 Years (Age 18+)			73.60%	0.843	National Cancer Institute	2015-2019
		Prostate Cancer Incident Rate (per 100,000 population)	91.4	99.1	107.3	*	National Cancer Institute	2015-2019
	Prostate Cancer Mortality Rate (per 100,000 population)	16	10.4	18.4	16.9	National Cancer Institute	2015-2019	
	Colonoscopy Screening			70.30%	0.744	Behavioral Risk Factor Surveillance System	2018	
	Cardiovascular	Atrial Fibrillation	9.8%	9.3%		*	Centers for Medicare and Medicaid Services	2018
		Heart Disease (3 Year average)	*	*	*	3.5 mean score	Centers for Medicare and Medicaid Services	2018
		Heart Disease Hospitalizations (per 100,000 population)	*	*	10.5%	319.7	Centers for Medicare and Medicaid Services	2018
		Heart Failure (Medicare population)	19.5%	15.5%	16.0%	*	Centers for Medicare and Medicaid Services	2018
		High Cholesterol	53.5%	41.0%	46.0%	186.4 mg/dL	Centers for Medicare and Medicaid Services	2018
		Ischemic Heart Disease (Medicare population)	40.3%	28.9%	29.0%	*	Centers for Medicare and Medicaid Services	2018
		Hypertension	60.5%	53.6%	58.0%	*	Centers for Medicare and Medicaid Services	2018
		Stroke	3.7%	2.7%	3.8%	*	Centers for Medicare and Medicaid Services	2018
	Child Abuse and Neglect	Child Abuse Neglect Rate (per 1,000)	11.8	16.1	13	8.7	Kids Count	2020
		Children in Investigated Families (Ages 0-17)	140.8	91.2	95.9	*	Kids Count	2020
		Children in Out-of-Home Care (Ages 0-17)	6.6	6.2	4.7	*	Kids Count	2020
		Confirmed Victims of Abuse or Neglect (Ages 0-17) (per 1,000)	11.8	16.1	13	8.7	Kids Count	2020
	Chronic Conditions	Adult Diabetes (medicare population)	27.4	25.4	28.2	5.6	Centers for Medicare and Medicaid Services	2018
		Adults who are Obese	36%	36%	32%	36%	County Health Rankings	2017
		Alzheimer's/Dementia	11.6	10.3	11.7	*	Centers for Medicare and Medicaid Services	
		Arthritis	41.4	32.6	36.2	*	Centers for Medicare and Medicaid Services	
		Diabetic Screening (Medicare population)	83%	87%	86%	*	County Health Rankings	2014
		Diagnosed Diabetes Prevalence (per 1,000)	10%	10%	11%	5.6	County Health Rankings	2017
		Hepatitis (Chronic Viral B&C) (per 100,000)	0.5	0.5	0.8	0.1	Centers for Medicare and Medicaid Services	
		Kidney Disease	23.5	23.2	25.9	0.128	Centers for Medicare and Medicaid Services	
	Osteoporosis	6.5	5.4	5.8	0.055	Centers for Medicare and Medicaid Services		
	Family Planning	Births with Late or No Prenatal Care	3.80%	2.30%	5.60%	0.195	Kids Count	2020
		Less than Adequate Prenatal Care	32.50%	26.00%	32.20%	0.195	Kids Count	2020
		Low Birthweight	7%	7%	9%	*	County Health Rankings	2013-2019
		Pre-Term Births	8.50%	8.60%	10.20%	0.094	Kids Count	2020
	Immunization	Fully Immunized Toddlers (Age 2)	79.00%	78.30%	70.70%	0.987	Kids Count	2020
		Influenza Vaccination Rate (Adults)	37.00%	44.30%	39%	*	MDHHS: Immunization Report Card	2021
		Influenza Vaccination Rate (Adults & Children)	68.60%	83.70%	72%	70%	Behavioral Risk Factor Survey	2021
Influenza Vaccination Rate (Children)		31.60%	39.40%	33%	*	MDHHS: Immunization Report Card	2021	
Mental Health Provider Ratio		380:1	380:1	360:1	*	County Health Rankings	2020	

		Indicator	Bay	Midland	Michigan	Healthy People 2030	Source	Date
Mortality Rate per 100,000 Population		Other Primary Care Providers Ratio	1,190:1	700:1	880:1	*	County Health Rankings	2020
		Pneumonia Vaccination (PPSV23 65+)	37.10%	55.10%	55.10%	*	Michigan Department of Health and Human Services	2021
		Population of Dentist Ratio	1,470:1	1,360:1	1,310:1	*	County Health Rankings	2019
		Preventable Hospital Stays (per 100,000 population)	6,355	3,642	4,789	*	County Health Rankings	2018
		Primary Care Provider Ratio	2,600:1	1,010:1	1,270:1	84%	County Health Rankings	2018
		Alcohol-Impaired Driving Deaths	34%	47%	29%	0.283	County Health Rankings	2015-2019
		Chronic Lower Respiratory Disease	83.4	57.7	56.5	107.2	Michigan Department of Community Health	2020
		Diabetes (per 1,000 population)	190.1	75.8	26.3	13.7	Michigan Department of Community Health	2020
		Drug Overdose Deaths (per 100,000 population)	25	13	26	20.7	County Health Rankings	2017-2019
		Drug Rate Death due to Heroin-Related Drug Poisoning	17	6	1,768	4.2	Michigan Substance Use Data Repository	2019
		Heart Disease	234.4	151.8	206	71.1	Michigan Department of Community Health	2018-2020
		Infant (per 1,000 population)	5.5	2.3	6.6	5	Michigan Department of Community Health	2017-2019
Sexually Transmitted Infections		Life Expectancy, Both Sexes	78.37	80.54	78.26	*	US Health Map	2014
		Mortality Ranking	390	290	370	*	County Health Rankings	2020
		Stroke	32.9	42.7	44.8	33.4	Michigan Department of Community Health	2018-2020
		Suicide	16.3	12.4	13.8	12.8	Michigan Department of Community Health	2016-2020
Teens		HIV Prevalence (per 100,000 population)			7.2	0.087	National HIV Surveillance System	
		HPV Vaccination (Females)	47.90%	50.50%	45.50%	80%	MDHHS: Immunization Report Card	2021
		HPV Vaccination (Males)	47.80%	48.80%	43.60%	80%	MDHHS: Immunization Report Card	2021
		Sexually Transmitted Infections (per 100,000 population)	395.2	233.8	507.8	*	County Health Rankings	2018
		Adolescents who Get Formal Sex Education Before Age 18				0.591		
		Adolescents who Never Had Sex			64.70%	0.808	MI: CDC - Youth Risk Behavior Surveillance System	2019
		Child and Teen Deaths (Ages 1-19)	19.6	19.3	25	18.4	Kids Count	2019
		Number of Births Ages 15-19 (per 1,000 females)	20	12	18	31.4	County Health Rankings	2013-2019
		Percent of High School Students who are Obese			15.30%	0.155	Michigan Profile for Healthy Youth (MI: CDC - Youth Risk Behavior Surveillance System)	2019
		Percent of High School Students who are Overweight			16.90%	*	Michigan Profile for Healthy Youth (MI: CDC - Youth Risk Behavior Surveillance System)	2019
		Percent of Middle School Students who are Obese			15.30%	0.155	Michigan Profile for Healthy Youth	2019
		Percent of Middle School Students who are Overweight			16.10%	*	Michigan Profile for Healthy Youth	2019
	Percentage of Students who Never had Sexual Intercourse			67.70%	0.808	Michigan Profile for Healthy Youth	2019	
	Percent of High School Students who Saw a Doctor for an Exam When They Were Not Sick or Injured in the Past Year					Michigan Profile for Healthy Youth		
	Repeat Teen Births (Ages 15-19)	14.80%	10.80%	16.20%	0.269	Kids Count	2019	
	Teen Pregnancy Rate (per 1,000 population)	29.8	17.5	25.8	0.701	Michigan Department of Community Health	2019	

		Indicator	Bay	Midland	Michigan	Healthy People 2030	Source	Date
Neighborhood and Built Environment	Top 10 Inpatient MS-DRGs	Sepsis, unspecified organism	*	908	*	0.269	MyMichigan Health	
		Single liveborn infant, delivered vaginally	*	839	*	*	MyMichigan Health	
		COVID-19	*	520	*	*	MyMichigan Health	
		Non-ST elevation (NSTEMI) myocardial infarction	*	509	*	*	MyMichigan Health	
		Single liveborn infant, delivered by cesarean	*	427	*	*	MyMichigan Health	
		Hypertensive heart and chronic kidney disease with heart failure and stage 1 through stage 4 chronic kidney disease, or unspecified chronic kidney disease	*	241	*	*	MyMichigan Health	
		Acute kidney failure, unspecified	*	223	*	*	MyMichigan Health	
		Paroxysmal atrial fibrillation	*	219	*	*	MyMichigan Health	
		Major depressive disorder, recurrent severe without psychotic features	*	199	*	*	MyMichigan Health	
		Hypertensive heart disease with heart failure	*	180	*	*	MyMichigan Health	
	Neighborhood and Built Environment - General	Drinking Water Violations (Yes or No)	No	No	No	0.079	County Health Rankings	2019
		Liquor Store Density	16	6	1,645	*	County Business Patterns	2021
	Injury Prevention	Firearm Fatalities (per 100,000 population)	11	8	12	10.7	County Health Rankings	2015-2019
		Premature Death (YPLL) (per 100,000 population)	8,100	5,600	7,500	*	County Health Rankings	2017-2019
		Seat Belt Usage			95.9	*	Behavioral Risk Factor Survey	2020
		Unintentional Injury Deaths (per 100,000 population)	74.7	39.7	56.2	43.2	Michigan Department of Community Health	
	People with Disabilities	People with Disability (Under Age 65)	61.80%	24.10%	29.60%	*	U.S. Census Bureau	2019
	Physical Activity	Access to Exercise Opportunities	86%	83%	85%	*	County Health Rankings	2010 & 2019
		Frequent Physical Distress	14%	12%	13%	*	County Health Rankings	2018
		Physical Inactivity	26%	21%	23%	0.212	County Health Rankings	2017
		Population with No Leisure Time Physical Activity	26%	21%	24.30%	0.212	Centers for Disease Control and Prevention	2017-2020
	Teen Physical Activity	Recreation and Fitness Facility Access (per 1,000 population)	0.05	0.08		*	US Department of Agriculture	2016
		Percentage of High School Students who Were Physically Active for at Least 60 Minutes Per Day on Five or More of the Past Seven Days			44.7	0.306	Michigan Profile for Healthy Youth	2019
	Respiratory Disease Adults	Percentage of Middle School Students who Were Physically Active for at Least 60 Minutes Per Day on Five or More of the Past Seven Days			55.3	0.306	Michigan Profile for Healthy Youth	2019
		Asthma	16.70%	13.10%	16.40%	*	Centers for Medicare and Medicaid Services	2017-2019
		Asthma Mortality (per 1,000,000)	11.2	0	9.8	8.9	Michigan Asthma Atlas	2020
		Chronic Lower Respiratory Disease Mortality (per 100,000 population)	83.4	57.7	56.5	107.2	Michigan Department of Community Health	2020
		COPD (Medicare population)	5.20%	5.10%	5.60%	*	Centers for Medicare and Medicaid Services	2018
	Substance Use	Influenza and Pneumonia Mortality (per 100,000 population)	22.1	12	18.3	*	Michigan Department of Community Health	2020
		Binge Drinking Adults	22%	22%	21%	0.254	County Health Rankings	2018
	Tobacco Use	Excessive Drinking	22%	22%	21%	*	County Health Rankings	2018
		Adult Smoking	21%	19%	20%	5%	County Health Rankings	2018
		Adult Tobacco Use	21%	19%	20%	0.162	County Health Rankings	2018
Births to Mothers who Smoked During Pregnancy		24.40%	14.40%	14.40%	0.043	Kids Count	2019	
	Current Adult Smokers	21%	19%	18.40%	5%	Behavioral Risk Factor Surveillance System	2020	

		Indicator	Bay	Midland	Michigan	Healthy People 2030	Source	Date	
Teen Substance Use	Teen Substance Use	Percentage of High School Students who Ever Drank Alcohol	*	12.5	13.6	0.063	Michigan Profile for Healthy Youth	2021	
		Percentage of High School Students who Ever Tried Marijuana	*	8.5	37.50%	0.058	Michigan Profile for Healthy Youth	2021	
		Percentage of Middle School Students who Ever Tried Marijuana	*	2.3	*	0.058	Michigan Profile for Healthy Youth	2021	
		Teens who Binge Drink (High School)	15.70%	8.80%	11.2	0.084	Michigan Profile for Healthy Youth	2021	
	Transportation	Transportation	Percentage of High School Students who Ever Tried Cigarette Smoking	*	5.3	21.2	0.034	Michigan Profile for Healthy Youth	2021
			Percentage of Middle School Students who Ever Tried Cigarette Smoking	*	3.3		0.034	Michigan Profile for Healthy Youth	2021
			Percentage of High School Students who Used an Electronic Vapor Product During the Past 30 Days	23.2		20.8	0.105	Michigan Profile for Healthy Youth	2021
			Percentage of Middle School Students who Used an Electronic Vapor Product During the Past 30 Days	10.1	10.9		0.105	Michigan Profile for Healthy Youth	2021
			Teen Tobacco Use during past 30 Days	3.90%	6.40%	4.50%	0.023	Michigan Profile for Healthy Youth	2021
			Households Without Access to a Vehicle	5.30%	5.40%	7.50%	*	American Community Survey	2019
			Adults who Reported Insufficient Sleep	39%	37%	40%	0.314	County Health Rankings	2018
Social and Community Context - General	Social and Community Context - General	Adults and Adolescents Screened for Depression				0.135			
		Chronic Conditions: Depression	25.17%	21.18%	20.87%	*	Centers for Medicare and Medicaid Services	2018	
		Chronic Conditions: Schizophrenia/Other Psychotic Disorders	4.15%	3.12%	3.64%	*	Centers for Medicare and Medicaid Services		
		Frequent Mental Distress	16%	14%	15%	0.076	County Health Rankings	2018	
		Less Than 8 Hours of Sleep per Night	39%	37%	40%	*	Behavioral Risk Factor Survey		
		Minors and Young Adults Committing Violent Crimes (per 100,000 population)				199.2			
		Poor Mental Health Days (per 30 days)	5.2	4.4	4.7	*	County Health Rankings	2018	
		Violent Crime Rate (per 100,000 population)	328	126	443	*	County Health Rankings	2014 & 2016	
		Children in Single Parent Households	28%	17%	26%	*	County Health Rankings	2015-2019	
		Time Spent Playing with Children 30+ Minutes per Day				*	Behavioral Risk Factor Survey		
Social and Community Context	Health IT	Broadband Access	82%	83%	82%	0.608	County Health Rankings	2015-2019	
		Health Supportive Services	7.0%	36.2%	*	*	211		
	Top 10 Referrals for 211 (Midland County)	Top 10 Referrals for 211 (Midland County)	Utilities	26.2%	10.4%	*	*	211	
			Food	8.9%	10.1%	*	*	211	
			Housing/Shelter	18.8%	9.6%	*	*	211	
			Health Screenings/Diagnostic Services	3.2%	5.3%	*	*	211	
			Material Goods	4.0%	3.8%	*	*	211	
			Transportation	1.6%	1.9%	*	*	211	
			Individual and Family Support Services	1.8%	1.9%	*	*	211	
			Legal Services	3.0%	1.6%	*	*	211	
			Temporary Financial Assistance	1.5%	1.5%	*	*	211	

Appendix C: Survey

Saginaw Valley State University
Departments of Health Science and Kinesiology, College of Health and Human Services

Project Title: Midland Community Health Survey

Principal Investigators: Rebecca Schlaff, PhD & Meghan Baruth, PhD

Purpose of this Study

The purpose of this research study is to understand the health and health needs of people living in Midland County. Information from this study will be used to develop programs in Midland County to address the needs of its residents. You are being asked to participate in this research study because you are at least 18 years of age and live in Midland County. In total, we hope to have 500 people fill out this survey.

Participation in this Study/Procedures

Participating in this study involves filling out an online survey that will take about 20-30 minutes. You will be asked to answer questions about your health conditions, health behaviors, and satisfaction with the quality of and access to various services and places in Midland County. Once you complete the survey, your participation in the study will end.

Possible Risks, Stresses or Discomforts

Participating in this research study may involve some risks, stresses or discomforts. The most likely discomfort is the amount of time it will take to complete the survey (20-30 minutes). You may be uncomfortable with some of the questions we ask. If you are uncomfortable, you are free to not answer those questions. If you experience any discomfort in answering these questions and would like to speak with someone please contact: <http://www.211nemichigan.org> for a full list of resources. As in all research, there may be unforeseen risks to you. If an accidental injury occurs, appropriate emergency measures will be taken; however, no compensation or additional treatment will be made available to you except as otherwise stated in this consent form.

Participant Rights

You are free to not answer any questions you choose without penalty. If you decide to participate in this study and complete the survey, you may stop at any time. Choosing not to be in this study will not result in any penalty to you. Specifically, your choice not to be in this study will not negatively affect you in any way.

Possible Benefits for Me or Others

We understand how busy you are and value your time. However, we encourage you to take this survey in order to help your community identify health needs so those concerns can be addressed. Information from this survey will be used by community leaders and organizations to develop programs that address the health concerns and needs of the community.

Anonymity and Confidentiality

Your responses in the survey are anonymous. At the end of the survey you will have the option of providing your name and mailing address to receive a \$5 Meijer gift card for taking the survey. This information will be collected in a separate survey and will not be linked to any information in the research survey.

Your responses will remain confidential. All electronic data are stored in a password protected format and will be kept for three years, then deleted; paper surveys will be shredded. It is possible that the Institutional Review Board (IRB) may view this study's collected data for auditing purposes. The IRB is responsible for the oversight of the protection of human subjects involved in research.

Confidentiality and Privacy Rights

Participation in this research study may result in a loss of privacy since persons other than the investigator(s) might view your study records. Unless required by law, only the study investigators, members of the investigator's staff, Saginaw Valley State University Institutional Review Board, and representatives from the IRB Research Compliance Office can review your study records. They are required to maintain confidentiality regarding your identity.

Any study results reported in professional journals or grant proposals will be reported at a group level (combined across people). If any findings are reported at an individual level, they will not contain any information that would identify you.

Compensation

In appreciation for your time spent completing the survey, you are eligible to receive a \$5 gift card to Meijer. You must provide your name and mailing address (when instructed) after completing the survey to receive this token of appreciation. The study staff will mail your gift card within seven business days of survey completion. If after taking the survey, you seek counseling or medical treatment, any expenses accrued will be the responsibility of the subject and not that of the research project, research team, or SVSU.

Questions or Concerns about this Research Study:

If you have any questions, problems, illness, or injury during your time on this study, call us promptly. Dr. Rebecca Schlaff (989-964-4538) and Dr. Meghan Baruth (989-964-4143) are the persons in charge of this research study. You can call us directly Monday-Friday 9am-5pm with questions. The participant may also contact the Chair, Human Subjects Institutional Review Board (989-964-7488; irbchair@svsu.edu) if questions or problems arise during the course of the study.

Consent

Subject's Permission

I have read this form and have been given the opportunity to ask questions by contacting the individuals listed in the section above. If I have additional questions, I have been told whom to contact. I agree to participate in the research study described above.

If you wish to participate, please select 'Accept' and begin the survey. You may request a copy of this consent page for your records. If you do not wish to participate in this study, please select 'Decline'.

- Accept
- Decline

Please select only one answer unless otherwise specified. Please note that this survey is double-sided.

1. Do you live in Midland County, Michigan?

- Yes No

2. Do currently live in:

- City of Midland
 Village of Sanford
 Coleman
 Township in Midland County, Please specify: _____

3. In what zip code is your home located?

- | | | |
|-----------------------------|-----------------------------|-----------------------------|
| <input type="radio"/> 48618 | <input type="radio"/> 48641 | <input type="radio"/> 48670 |
| <input type="radio"/> 48620 | <input type="radio"/> 48642 | <input type="radio"/> 48674 |
| <input type="radio"/> 48628 | <input type="radio"/> 48657 | <input type="radio"/> 48686 |
| <input type="radio"/> 48640 | <input type="radio"/> 48667 | |

4. What is your gender?

- Male Prefer to self-describe: _____
 Female Prefer not to answer

5. What is your age? (years) _____

6. What is your ethnicity?

- | | |
|--|--|
| <input type="radio"/> Asian/Pacific Islander | <input type="radio"/> Hispanic or Latino (All Races) |
| <input type="radio"/> Black/African American | <input type="radio"/> Multi-Racial |
| <input type="radio"/> American Indian/Alaska Native | <input type="radio"/> Unknown |
| <input type="radio"/> White (Not Hispanic or Latino) | <input type="radio"/> Prefer not to answer |

7. Which of the following best describes your current relationship status?

- | | |
|--------------------------------|--|
| <input type="radio"/> Married | <input type="radio"/> Separated |
| <input type="radio"/> Widowed | <input type="radio"/> Not married, but living with a significant other |
| <input type="radio"/> Divorced | <input type="radio"/> Not married |

8. What is the highest grade or level of school you have completed?

- | | |
|---|--|
| <input type="radio"/> Never attended school or only attended kindergarten | <input type="radio"/> Technical/Vocational Certificate |
| <input type="radio"/> Grades 1-8 (elementary) | <input type="radio"/> Associate Degree |
| <input type="radio"/> Grades 9-11 (some high school) | <input type="radio"/> Bachelor's Degree |
| <input type="radio"/> Grade 12 or GED (high school graduate) | <input type="radio"/> Master's Degree |
| <input type="radio"/> Some college | <input type="radio"/> Doctoral Degree or higher |

9. Which of the following categories best describes your employment status?

- Employed, working 40 or more hours per week
- Employed, working 1-39 hours per week
- Not employed, looking for work
- Not employed, NOT looking for work
- Homemaker
- Full-time student
- Retired
- Disabled, not able to work

10. What is your approximate average household income?

- Less than \$10,000
- \$10,000 to \$19,999
- \$20,000 to \$29,999
- \$30,000 to \$39,999
- \$40,000 to \$49,999
- \$50,000 to \$59,999
- \$60,000 to \$69,999
- \$70,000 to \$79,999
- \$80,000 to \$89,999
- \$90,000 to \$99,999
- \$100,000 to \$149,999
- \$150,000-\$174,999
- \$175,000-\$199,999
- \$200,000 and up

11. In the past 12 months, have there been three or more months in which you were not able to pay all of your bills or could not pay all of them on time because you did not have enough money?

- Yes
- No

12. Do you qualify for any of the following types of financial support?

	Yes	No	Don't Know	Prefer not to answer
WIC	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
SNAP/EBT	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Housing	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Daycare	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Medicaid	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

13. Which of the following best describes where you live?

- A mobile home or trailer
- A house detached from any other house (a standalone home)
- A house attached to one or more houses (duplex, triplex, townhouse)
- An apartment building
- A dormitory or similar boarding house
- Prefer not to answer

14. How many people currently live in your home? _____

15. How many children under 18 years of age live in your household? _____

16. Do you currently:

- Own your primary home
- Rent your primary home
- Other

17. In the past 12 months, has there been a time when you did not have a place to live?

- Yes
- No

18. In the past 12 months, which mode of transportation did you primarily use to get to work?
- | | |
|---|---|
| <input type="radio"/> Personal Vehicle | <input type="radio"/> Walk |
| <input type="radio"/> Carpool | <input type="radio"/> Senior Services Courtesy Cars |
| <input type="radio"/> Public Transportation | <input type="radio"/> NA |
| <input type="radio"/> Non-motorized vehicle (bicycle) | <input type="radio"/> Other: _____ |
19. In the past 12 months, which mode of transportation did you primarily use to get to recreational activities?
- | | |
|---|---|
| <input type="radio"/> Personal Vehicle | <input type="radio"/> Walk |
| <input type="radio"/> Carpool | <input type="radio"/> Senior Services Courtesy Cars |
| <input type="radio"/> Public Transportation | <input type="radio"/> NA |
| <input type="radio"/> Non-motorized vehicle (bicycle) | <input type="radio"/> Other: _____ |
20. In the past 12 months, which mode of transportation did you primarily use to get to the doctor or other medical services?
- | | |
|---|---|
| <input type="radio"/> Personal Vehicle | <input type="radio"/> Walk |
| <input type="radio"/> Carpool | <input type="radio"/> Senior Services Courtesy Cars |
| <input type="radio"/> Public Transportation | <input type="radio"/> NA |
| <input type="radio"/> Non-motorized vehicle (bicycle) | <input type="radio"/> Other: _____ |
21. What is your weight in pounds? _____
22. What is your height (in feet and inches)? Feet _____ Inches _____
23. Are you currently pregnant?
- | | |
|---------------------------|--------------------------|
| <input type="radio"/> Yes | <input type="radio"/> No |
|---------------------------|--------------------------|
24. In general, how would you rate your overall health?
- | | |
|---------------------------------|----------------------------|
| <input type="radio"/> Excellent | <input type="radio"/> Fair |
| <input type="radio"/> Very good | <input type="radio"/> Poor |
| <input type="radio"/> Good | |
25. How often do you use seat belts when you drive or ride in a car?
- | | |
|---------------------------------|------------------------------|
| <input type="radio"/> Always | <input type="radio"/> Rarely |
| <input type="radio"/> Usually | <input type="radio"/> Never |
| <input type="radio"/> Sometimes | |
26. Are you limited in any activities because of mental or emotional problems such as depression?
- | | |
|---------------------------|--------------------------|
| <input type="radio"/> Yes | <input type="radio"/> No |
|---------------------------|--------------------------|
27. Do you have any physical health problem that requires you to use special equipment, such as a cane, wheelchair, walker, Amigo, special bed, or special telephone?
- | | |
|---------------------------|--------------------------|
| <input type="radio"/> Yes | <input type="radio"/> No |
|---------------------------|--------------------------|

28. Do you rely on people for any of the following?

	Yes	No
Bathing	<input type="radio"/>	<input type="radio"/>
Dressing	<input type="radio"/>	<input type="radio"/>
Shopping	<input type="radio"/>	<input type="radio"/>
Banking	<input type="radio"/>	<input type="radio"/>
Meals	<input type="radio"/>	<input type="radio"/>

29. In the past 12 months, have you fallen?

- Yes (Go to question 30)
- No (Go to question 31)

30. Did any of these falls cause an injury? By an injury, we mean the fall caused you to limit your regular activities for at least a day or to go see a doctor

- Yes
- No

31. How often do you feel isolated from others?

- Never
- Sometimes
- Some of the time
- Always

32. Do you feel you belong at home, work, your community, or in any other group or place?

- Yes
- No

33. Do you feel that your family or the people you live with, neighborhood, community, and/or coworkers care about you?

- Yes
- No

34. Do you have any children under the age of 18?

- Yes (Go to Question 35)
- No (Go to Question 37)

35. On a usual day, about how many minutes or hours do your children spend on the following activities?

	0 min	15 min	30 min	45 min	60 min	1 hour 30 minutes	2 hours	More than 2 hours
Watching TV or videos, playing video games, or using a computer	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Engaged in organized physical activities (sports, dance, etc.)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Engaged in physical activities with friends or family	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

36. On an average day, how many minutes or hours do you actively play with your children?

- 0 minutes
 Less than 30 minutes
 30-60 minutes
 more than 1 hour

37. Please think about your personal satisfaction with the following in your community. In general, how satisfied are you with your **ACCESS** to each of the following:

	Very Dissatisfied	Not Satisfied	Neither Satisfied nor Dissatisfied	Satisfied	Very Satisfied	N/A
Recreational activities	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Public Assistance Programs	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Public transportation	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Jobs	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Adult educational services (e.g. job training)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Educational services for children	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Fresh produce and other healthy foods	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Substance Abuse Services	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Mental Health Services	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Affordable housing	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

38. Please think about your personal satisfaction with the following in your community. In general, how satisfied are you with the **QUALITY** of each of the following:

	Very Dissatisfied	Not Satisfied	Neither Satisfied nor Dissatisfied	Satisfied	Very Satisfied	N/A
Recreational activities	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Public Assistance Programs	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Neighborhood safety	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Air and water	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Schools	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Public transportation	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Jobs	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Adult educational services (e.g. job training)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Educational services for children	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Fresh produce and other healthy foods	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Substance Abuse Services	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Mental Health Services	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Affordable housing	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
211	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

39. On average, how many hours of sleep do you get in a 24-hour period?
- Less than 4 hours 7 hours 11 hours
 4 hours 8 hours 12 hours
 5 hours 9 hours More than 12 hours
 6 hours 10 hours
40. Thinking about the activities you do when you are not working, in a usual week, did you do any physical activity for at least 10 minutes at a time, such as brisk walking, running, bicycling, vacuuming, yard work, or anything else that causes some increase in breathing or heart rate?
- Yes (Go to question 41)
 No (Go to question 43)
41. How many days per week did you do these activities for at least 10 minutes at a time?
- 0 days 3 days 6 days
 1 day 4 days 7 days
 2 days 5 days
42. When you take part in these activities, how long do you usually keep at it?
- 10 minutes 40 minutes 1 hour and 30 minutes
 20 minutes 50 minutes 2 hours
 30 minutes 1 hour More than 2 hours
43. In a usual week, how many times per week do you engage in muscle strengthening activities?
- 0 days 3 days 6 days
 1 day 4 days 7 days
 2 days 5 days
44. In a usual week, how many times per week do you engage in activities to improve flexibility?
- 0 days 3 days 6 days
 1 day 4 days 7 days
 2 days 5 days
45. In a typical week, how many servings of fruit do you eat per day? Count fresh, frozen, or canned fruit; do not count dried fruit or juice.
- 0 servings 3 servings per day
 Less than 1 serving per day 4 servings per day
 1 serving per day 5 servings per day
 2 servings per day More than 5 servings per day

46. In a typical week, how many servings of vegetables do you eat per day? Count fresh, frozen, or canned vegetables.

- 0 servings
 Less than 1 serving per day
 1 serving per day
 2 servings per day
 3 servings per day
 4 servings per day
 5 servings per day
 More than 5 servings per day

47. In a typical week, how often do you drink the following beverages?

	Never	Less than 1 time per week	1-2 times per week	3-4 times per week	5-6 times per week	1-2 times per day	More than 2 times per day
Regular soda or pop	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Energy drinks	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Sugar-sweetened fruit drinks (not 100% fruit juice)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Sugar-sweetened flavored teas	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

48. How often do you purchase food from the following places:

	0 times per week	less than 1 time per week	1-2 times per week	3-4 times per week	5-6 times per week	7 or more times per week
Grocery store	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Convenience store	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Fast food restaurant	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Sit-down restaurant	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Farmers market (when open)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Co-op	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Food pantry	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Meals on Wheels	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Other	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

49. Do you currently smoke cigarettes?

- Yes, I do every day
 Yes, I do some days
 No, I do not

50. Are you currently exposed to secondhand smoke?

- Yes, I am every day
 Yes, I am some days
 No I am not

51. Do you currently use chewing tobacco, snuff, or any form of smokeless tobacco?

- Yes, I do every day.
 Yes, I do some days.
 No, I do not.

52. Do you currently use e-cigarettes?
- Yes, I do every day. Yes, I do some days. No, I do not.
53. In a typical week, how many days per week do you have at least one drink of any alcoholic beverage?
- Less than 1 day 3 days 6 days
 1 day 4 days 7 days
 2 days 5 days I do not drink
54. On the days when you drink alcoholic beverages, about how many drinks do you consume on average (one drink is equivalent to a 12-ounce beer, a 5-ounce glass of wine, or a drink with one shot of liquor)?
- 1 drink 4 drinks Over 6 drinks
 2 drinks 5 drinks I do not drink
 3 drinks 6 drinks
55. In the past 12 months, have you ever felt like you wanted or needed to cut down on your drinking?
- Yes No I do not drink
56. In the past 12 months, have you experienced any negative consequences from your alcohol use?
- Yes No I do not drink
57. In the past 12 months, have you sought treatment or attended a support group to help with your alcohol use?
- Yes No I do not drink
58. In the past 12 months, have you used prescription drugs that were not prescribed for you such as anti-depressants, pain killers, sedatives or stimulants?
- Yes No
59. In the past 12 months, have you used marijuana? (check all that apply)
- Yes, for medical use Yes, for recreational use No
60. In the past 12 months, have you used other illegal drugs, such as cocaine, crack, crystal meth, heroin, smack, PCP, LSD, uppers or downers (do not include marijuana)?
- Yes No
61. Do you suffer from chronic pain (defined as persistent or recurrent pain lasting longer than 3 months)?
- Yes No
62. In the past 12 months, have you taken opioid (narcotic) pain killers?
- Yes No

63. In the past year:

	Yes	No	I don't use drugs
I felt like I wanted or needed to cut down on my drug use.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
I experienced negative consequences from my drug use.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
I sought treatment or attended a support group to help with my drug use.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

64. If you felt you had a substance abuse problem, how likely would you be to go to the following for help:

	Very likely	Somewhat likely	Neither likely or unlikely	Somewhat unlikely	Very unlikely
Doctor	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Therapist	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

65. If you felt you had a mental health problem, how likely would you be to go to the following for help:

	Very likely	Somewhat likely	Neither likely or unlikely	Somewhat unlikely	Very unlikely
Doctor	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Therapist	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

66. Do you consider yourself in recovery from a past mental health issue?

- Yes No

67. Do you have any concerns about your (check all that apply):

- Memory Confusion when driving in familiar locations
 Concentration None of the above apply to me
 Decision making that affects how you perform familiar tasks

68. Has a doctor, nurse, or other health care provider ever told you that you have/had cancer other than skin cancer (basal cell or squamous skin cancer)?

- Yes (Go to question 69)
 No (Go to question 71)

69. At what age were you first diagnosed with cancer? _____ (age in years)

70. What type(s) of cancer were you diagnosed with (select all that apply)?

- Bladder Lung (Including Bronchus)
 Breast (Female – Male) Melanoma
 Colon and Rectal (Combined) Non-Hodgkin Lymphoma
 Endometrial Pancreatic
 Kidney (Renal Cell and Renal Pelvis) Prostate
 Leukemia (All Types) Thyroid

71. Has a doctor, nurse, or other health professional ever told you that you had any of the following?

	Yes	No
A heart attack, also called a myocardial infarction	<input type="radio"/>	<input type="radio"/>
Angina (chest pain from a heart problem) or coronary heart disease	<input type="radio"/>	<input type="radio"/>
A stroke	<input type="radio"/>	<input type="radio"/>
High blood pressure, also called hypertension	<input type="radio"/>	<input type="radio"/>
Type 1 Diabetes	<input type="radio"/>	<input type="radio"/>
Pre-diabetes or borderline diabetes	<input type="radio"/>	<input type="radio"/>
Type 2 Diabetes	<input type="radio"/>	<input type="radio"/>
Asthma	<input type="radio"/>	<input type="radio"/>
Depression	<input type="radio"/>	<input type="radio"/>
Anxiety	<input type="radio"/>	<input type="radio"/>
Substance Use Disorder	<input type="radio"/>	<input type="radio"/>

72. Have you had a test for high blood sugar or diabetes within the past three years?

- Yes No

If you identify as female, answer questions 73-75. If you identify as male, skip to question 76.

73. A mammogram is an x-ray of each breast to look for breast cancer. How long has it been since you had a mammogram?

- Less than 1 year More than 5 years
 1-2 years Never
 3-5 years

74. A clinical breast exam is when a doctor, nurse, or other health professional feels the breasts for lumps. How long has it been since you had a clinical breast exam?

- Less than 1 year More than 5 years
 1-2 years Never
 3-5 years

75. A Pap test is a test for cancer of the cervix. How long has it been since you had a Pap test?

- Less than 1 year More than 5 years
 1-2 years Never
 3-5 years

Females: skip to Question 78

76. A digital rectal exam is an exam in which a doctor, nurse, or other health professional places a gloved finger into the rectum to feel the size, shape, and hardness of the prostate gland. How long has it been since your last digital rectal exam?
- Less than 1 year
 More than 5 years
 1-2 years
 Never
 3-5 years
77. A blood stool test is a test that may use a special kit at home to determine whether the stool contains blood. How long has it been since you had your last blood stool test using a home kit?
- Less than 1 year
 More than 5 years
 1-2 years
 Never
 3-5 years
78. When is the last time you were screened for colon cancer?
- Less than 1 years
 More than 5 years
 1-2 years
 More than 10 years
 3-5 years
 Never
79. Did you receive a flu vaccination for the 2018-2019 flu season?
- Yes
 No
80. Have you been diagnosed with HIV or AIDS?
- Yes
 No
 Unsure
81. Do you currently have? (please choose your primary source of insurance)
- An employer-sponsored health insurance plan (skip to question 84)
 An individual plan purchased on the health insurance exchange (go to question 82)
 Medicaid (skip to question 85)
 Medicare (skip to question 85)
 Uninsured (skip to question 85)
82. If you purchased your plan on the health insurance exchange, do you receive premium supports under the Affordable Care Act?
- Yes
 No
83. Would you be able to afford your health insurance premiums without Affordable Care Act premium supports?
- Yes
 No
84. Do you have a high deductible plan?
- Yes
 No
85. Would you be able to pay an \$8,000 Emergency Department bill?
- Yes
 No

86. When I need medical care, I prefer to see/go to (check all that apply):

- Medical Doctor (MD)/Doctor of Osteopathy (DO)
- Physician Assistant (PA)
- Registered Nurse (RN) in a Doctor's Office
- Mental Health Professional
- Urgent Care
- Emergency Room
- Clinic
- Pharmacy
- Self-Treatment

87. About how many times in the past 12 months have you seen the following:

	Never	Once	2-5 times	6-9 times	10 or more times
Doctor	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Nurse	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Dentist	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Counselor, Social Worker, or other Behavioral Health Professional	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Other Health Professional	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

88. Was there a time in the past 12 months when you needed to see a doctor but could not because of cost?

- Yes
- No

89. Was there a time in the past 12 months when you needed to see a doctor but could not because you could not get an appointment?

- Yes
- No

90. When I need medical care, I understand what the health care professional tells me.

- Yes
- No

91. When I need medical care, I understand the handouts given to me.

- Yes
- No

Community Health Improvement Plan MyMichigan Medical Center Midland

Chronic Disease

Goal: Provide opportunity for improved health behaviors and prevent chronic conditions

Strategy	Description	Metrics	Internal Departments Involved	Community Partners
Implement and provide Chronic Disease Self-Management Program (explore various programs)	Program for adults with chronic disease, taught by trained facilitators to improve and manage chronic disease	FY23: Identify self-management program and identify facilitators	Community Health Diabetes Center MyMichigan Medical Group	Chronic Disease Self Management Program Developers Senior Services & Council on Aging
		FY24: Implement program/workshop, 4 trained facilitators, 60 participants complete		
		FY25: PDCA using FY24 results, 6 trained facilitators, 120 participants complete		
Implement and expand Lifestyle Medicine	Lifestyle Medicine is a medical specialty that uses therapeutic lifestyle interventions as a primary modality to treat chronic conditions	*System-Wide Metric*	Community Health Diabetes Center Employee Wellness MyMichigan Medical Group Rehab Services	American College of Lifestyle Medicine Lifestyle Medicine Pivvo
		FY23: Implement pilot year 1: 4 trained facilitators, 60 ConnectCare participants enrolled, 30 participants complete		
		FY24: Pilot year 2: expand to community, 4 trained facilitators, 60 participants complete		
		FY25: Continue expansion, plan developed for shared medical appointments		
Provide cancer screening opportunities	Early detection options for patients and community members that are at risk of lung, colorectal and breast cancer	FY23: Promote Colorectal Health Risk Assessment at 4 events specific to colorectal health	Ambulatory Quality Community Health MyMichigan Medical Group Oncology Center for Women's Health	Cancer Services Senior Services & Council on Aging Various Partners for Screening Locations
		FY24: Promote breast cancer awareness at 4 events specific to breast		
		FY25: Promote low dose lung scan at 4 community events		
Integrate the use of Community Health Workers	Develop a systematic approach to integrating Community Health Workers into the MyMichigan Health care team. A Community Health Worker is considered a skilled trade public health worker that serves as a liaison between community, health care and public health.	*System-Wide Metric*	Ambulatory Clinical Quality Care Management Community Health MCCO MyMichigan Medical Group	2-1-1 Northeast Everyday Life Consulting Michigan Community Health Worker Alliance Rural Community Health Worker Network
		FY23: Sustain current CHW program and integrate within health system with CHW supervisor in place		
		FY24: Hire/train 5 more Community Health Workers		
		FY25: 15 Community Health Workers on staff		

Community Health Improvement Plan MyMichigan Medical Center Midland

Behavioral Health

Goal: Ensure a comprehensive system of care to meet the behavioral health needs of all

Strategy	Description	Metrics	Internal Departments Involved	Community Partners
Implement "Blue Envelope Program" within MyMichigan Health outpatient clinics in Midland County	Design a team S.A.F.E. response protocol (Blue Envelope) for MyMichigan Health outpatient clinics. This protocol will empower staff to quickly activate a patient safety response for a patient who verbalizes thoughts of suicide.	FY23: Train and have 1 MyMichigan Health clinic in Midland County actively practicing the S.A.F.E. response protocol and the Blue Envelope program	Community Health Behavioral Health MyMichigan Medical Group Outpatient Services	Midland Public Schools The Legacy Center
		FY24: Train and have 2 Schools in the Midland County service area actively practicing the S.A.F.E. response protocol and the Blue Envelope program		
		FY25: Train and have 4 schools and all practices actively practicing the S.A.F.E. response protocol and the Blue Envelope program		
Develop a Tobacco Cessation Strategy	Implement Tobacco Cessation tactics that make it easier for patients and community members to receive counseling and support, and provide information and a channel for providers to refer patients.	FY23: Develop Tobacco Cessation Tips sheet, including resources, contacts and billing codes for tobacco cessation and counseling	Ambulatory Quality Behavioral Health Community Health Epic Team MyMichigan Medical Group	American Lung Association Midland Public Schools The Legacy Center
		FY24: Implement 3 tobacco cessation programs for patients and community members		
		FY25: Implement 5 tobacco cessation programs for patients and community members. All Midland Public Schools implementing N-O-T program with integrated Facilitators		
Implement suicide prevention training for all staff employed at MyMichigan Medical Center Clare and community members	Make suicide prevention training(s) available for all staff employed at MyMichigan Medical Center Sault and community members by utilizing the LivingWorks and QPR Institute frameworks.	FY23: Develop a plan with education services to provide training for staff	Behavioral Health Community Health Education Services and Development	Community Mental Health LivingWorks Midland Public Schools & Businesses
		FY24: 25% of staff at MyMichigan Medical Center Midland trained in SafeTalk suicide prevention and partner with 1 school to train staff		
		FY25: 50% of staff at MyMichigan Medical Center Midland trained in SafeTalk suicide prevention and partner with 3 schools and organizations to train staff		

Community Health Improvement Plan approved by the MyMichigan Medical Center Board on October 28th, 2022