

2023 Community Health Needs Assessment

Huron Lapeer Sanilac Tuscola



About Michigan Thumb Public Health Alliance (MTPHA)

The Health Departments from Huron County, Lapeer County, Sanilac County, and Tuscola County formed an Alliance to promote health, prevent disease, and promote the environment within each of the respective jurisdictions and the region as a whole. This Alliance affords more opportunities to write grants, achieve cost savings, share specialty services, and achieve cost efficiencies. The Alliance allows us to work together to collaborate on common regional needs while meeting the unique needs of each county. In 2019, the Alliance recognized that to truly impact the goals included in the Community Health Improvement Plan, additional partners were needed. A group of local health and human service leaders were invited to participate in a collaborative effort to align needs assessments and conduct regional health planning. This meeting led to a planning grant from the Federal Office of Rural Health Policy and the

formation of the Thumb **Community Health** Partnership (TCHP). Using the Mobilizing Action through Planning and Partnerships (MAPP) framework, members of the partnership analyzed existing needs assessments and identified two priorities- Behavioral Health and Chronic Disease. Through two follow-up grants for Network Development, the Alliance and Partnership are working together to align needs assessment practice, conduct regional planning, address workforce challenges, and pilot projects to address priority needs. In 2023, TCHP added Social Determinants of Health to the prioritized needs list. At the time of this report, TCHP included twenty-nine partner organizations in various sectors: public health, community mental health, hospitals and primary care, community action, human services, mental health agencies, early childhood providers, a federally qualified health center, and the 211 regional call center. Information about the **Thumb Community Health** Partnership is available at www.thumbhealth.org or by contacting Kay Balcer at thumbhealth@gmail.com.



the Thumb of Michigan through health promotion, disease prevention, and promotion of an environment that supports wellness.

TABLE OF CONTENTS

Contents	
Executive Summary: Community Health Needs Assessment	3
Section I: Introduction	4
Section II: Analysis of Health Indicators	5
Quality of Life and Well-Being	6
Access to Quality Health Services	10
Weight Status- Nutrition & Physical Activity	13
Diabetes	15
Heart Disease	17
Tobacco Use	22
Cancer	24
Mental Health	26
Substance Use Disorders	28
Older Adults	31
Injury and Violence Prevention	34
Oral Health and Dental Care	37
Maternal and Child Health	39
Family Planning and Reproductive Health	42
Education and Community Programs	44
Immunizations and Infectious Disease	45
Public Health Infrastructure	47
Section III. Regional and Local Priorities	48
Community Input	49
Acknowledgements	55

Executive Summary: Community Health Needs Assessment

This comprehensive Community Health Needs Assessment (CHNA) adopts a holistic "Whole Person Approach" to evaluate and address the health needs within our community, emphasizing the pivotal roles of behavioral health, chronic illness, and social determinants of health in influencing the quality of life across all stages of life.

Background

Our assessment focused on grassroots organizations and untapped voices within our community, encompassing a range of socio-economic statuses, ethnicities, and age groups. By integrating qualitative and quantitative methodologies, we aimed to gain an in-depth understanding of prevalent health challenges and unmet needs.



Key Findings



Behavioral Health Impact: Mental health disorders, substance misuse, and emotional well-being significantly impact our community members. Stigma and limited access to mental health services remain notable barriers. Behavioral health strongly interrelates with physical health outcomes, affecting chronic disease management and overall quality of life.



Chronic Illness Influence: Chronic diseases, such as diabetes, cardiovascular conditions, and cancer, are pervasive and exert substantial influence on individual health and societal well-being. Disproportionate impacts on underserved populations highlight the need for targeted interventions and improved access to care. Chronic conditions affect people of all ages, necessitating tailored strategies for prevention, management, and rehabilitation throughout the lifespan.



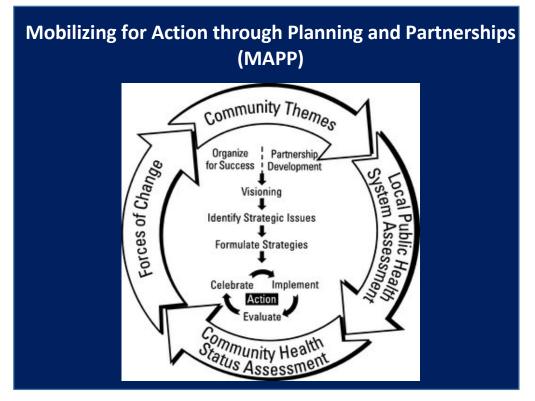
Impact on Quality of Life: The profound impact of behavioral health and chronic illnesses on the community's quality of life cannot be understated. These issues pose significant challenges to individual well-being, societal productivity, and healthcare resource allocation. A Whole Person Approach acknowledges the interconnectedness of physical, mental, and social well-being, emphasizing the need for comprehensive interventions to enhance overall quality of life.

Data Sources

All data has its limitations. The data provided in this report includes primary data collected from local residents and a secondary data compiled from reliable sources such as the U.S. Census, Center for Disease Control, and Michigan Department of Health and Human Services. It is also important to recognize that much of this data reflects the impact of the COVID 19 pandemic which should be considered when using the data. Data driven solutions are a focus of the Michigan Thumb Public Health Alliance and Thumb Community Health Partnership. This report will be used for planning and strategy development aimed at improving community health.

Section I: Introduction

There are many challenges faced by our rural communities. The Michigan Thumb Public Health Alliance and Thumb Community Health Partnership support collaboration and shared resources between communities. Alongside grassroots organizations and community members, the service providers completed the Thumb Region Community Health Needs Assessment (CHNA) using the Mobilizing for Action through Planning and Partnership (MAPP) framework. MAPP provides a systematic and community-driven approach to conducting the CHNA and subsequently addressing the identified health needs and disparities in the community. It promotes collaboration, data-driven decision-making, and the development of evidence-based strategies to improve community health.



The MAPP process has six steps. In 2024, steps 5 and 6 will be completed and presented to the community in a Community Health Improvement Plan.

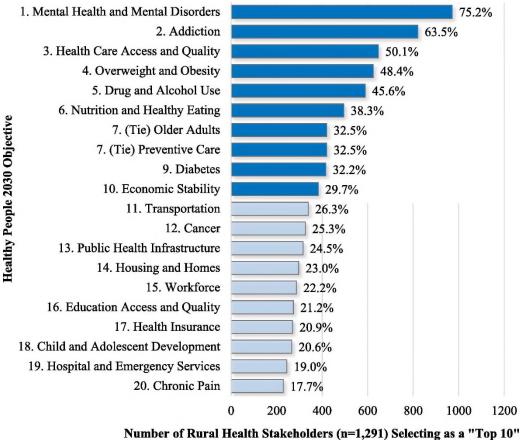
- 1. Organize for Success and Partnership Development.
- 2. Visioning
- 3. Four Assessments
 - a. Community Themes
 - b. Local Public Health System
 - c. Community Health Status
 - d. Forces of Change
- 4. Identify Strategic Issues
- 5. Formulate Goals and Strategies
- 6. Action Cycle

Section II: Analysis of Health Indicators

Rural Healthy People 2023 Priorities

The following Healthy People 2023 objectives are recognized by leaders in rural health across the nation as the top twenty rural health priorities (n=1291 leaders surveyed).

Figure 1: Top 20 Rural Health Priorities



Priority

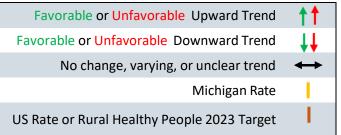
https://doi.org/10.1016/j.pmedr.2023.102176

Thumb Health Indicators and Analysis

In this section, you will find data related to the Rural Healthy People 2023 priorities. Each section provides a brief description of the scope of the problem along with data charts related to the four counties located in the thumb.

Figure 2: Data Analysis Legend

Some charts in this report illustrates whether there is a favorable or unfavorable trend. You will also find benchmark lines showing the Michigan rate and the Rural Health People target.

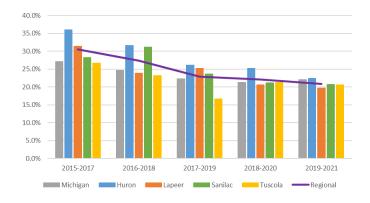


Quality of Life and Well-Being

SCOPE OF THE PROBLEM

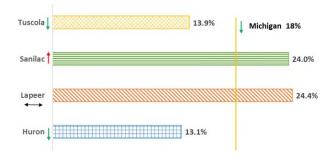
The World Health Organization (WHO) defines health as a state of complete physical, mental, and social well-being, not merely the absence of disease. Individual perspectives significantly influence wellbeing, which, when collected, impacts the overall health of a population and the community's quality of life. Social determinants of health, the built environment, geographic barriers, utilization of programs, and demographic characteristics, play a significant role in determining the quality of life and well-being in communities. Factors such as access to transportation, travel distance, and the supply of primary care providers can also limit people's ability to get primary care (Douthit, 129). For example, rural residents may need to travel long distances to get primary care and thus may be less likely to seek preventive care such as vaccinations. In addition, rural communities tend to have fewer providers than urban communities; this relative shortage of providers may make it harder for rural residents to access primary care. (Rural Healthy People 2030)

Figure 3: No Routine Health Check Up in Past Year



Michigan Department of Health and Human Services - BRFS http://www.michigan.gov/mdhhs/0,5885,7-339-71550 5104 5279 39424-134707--,00.htm

Figure 4: Health Status Rated Fair/Poor, 2019-2021



Michigan Department of Health and Human Services

http://www.michigan.gov/mdhhs/0,5885,7-339-71550 5104 5279 39424-134707--,00.html

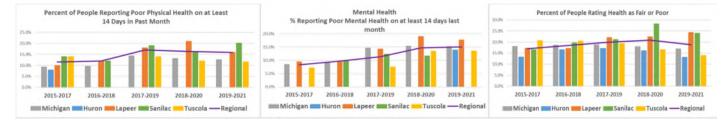


Figure 5: General Health Status

Michigan Department of Health and Human Services - BRFS - Tables 3, 2 1 http://www.michigan.gov/mdhhs/0,5885,7-339-71550 5104 5279 39424-134707--,00.html

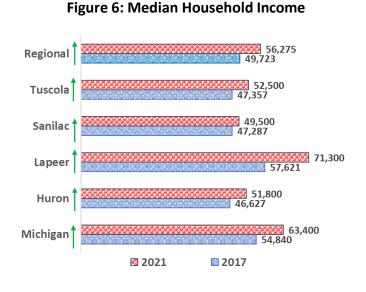
Related Healthy People 2030- Objectives

NWS-01 Reduce household food insecurity and hunger; **NWS-02** Eliminate very low food security in children; **SDOH-01** Reduce the proportion of people living in poverty; **SDOH-02** Increase employment in working-age people; **SDOH-03** Increase the proportion of children living with at least 1 parent who works full time; **SDOH-04** Reduce the proportion of families that spend more than 30% of income on housing; **SDOH-06** Increase the proportion of high school graduates in college the October after graduating



Social Determinants of Health

These charts illustrate some of the social determinants of health that impact many of the data indicators outlined in this report. Certain factors, such as employment status, neighborhood quality, food security, educational attainment, and exposure to violence, have been shown to have bearings on individual and community health.



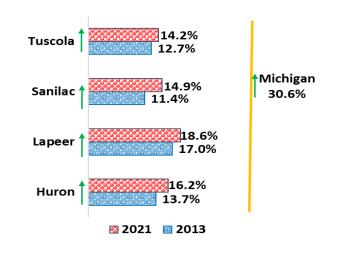
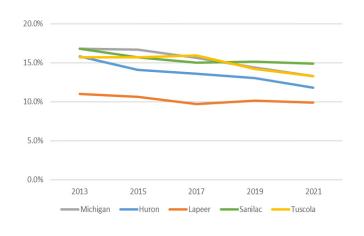


Figure 7: % of People Bachelor's Degree or Higher

US Census -S1501 - ACS 5 - Yr Estimate:2021 (Educational Attainment) – American Community Survey https://data.census.gov/table?q=S1501&g=040XX00US26 050XX00US26063,26087,26151,26157&tid=ACS ST5Y2021.S1501&moe=false

County Health Rankings – University of Wisconsin Population Health Institute www.countyhealthrankings.org

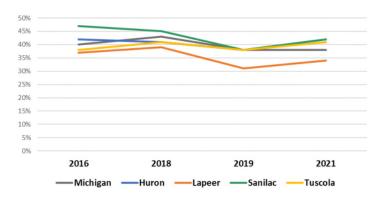
Figure 8:% of People Living Below Poverty



US Census - DP03 - ACS 5 - Yr Estimate:2021 (Income and Poverty & Employment and Labor Force Status) - American Community Survey http://discover.com/community.survey

https://data.census.gov/table?q=selected&t=Income+and+Poverty&g=050XX00US26063,26087,26151,26 157&tid=ACSDP5Y2021.DP03&moe=false

Figure 9: % of Households below ALICE Threshold (cost of living)



United Way-ALICE Report 2014, 2017 and 2021 Editions - ALICE Threshold represents the basic cost of living. https://unitedforalice.org/state-reports





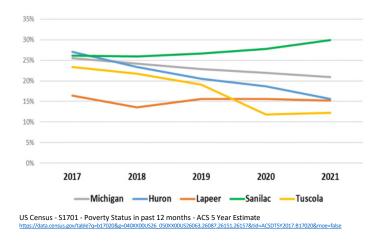


Figure 11: % of Children Under 18 in Single Parent Families

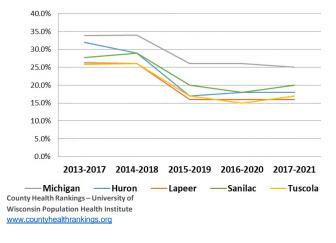
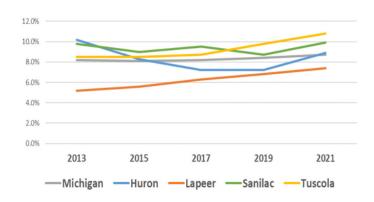
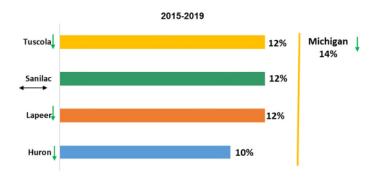


Figure 12: % of Population 65+, Below Poverty



US Census -DP03 - ACS 5 - Yr Estimate:2021 (Income and Poverty & Employment and Labor Force Status) American Community Survey https://data.census.gov/table?geslected&t=Income+and+Poverty&g=050XX00US26063.26087 _26151_26157&tid=ACSDP5Y2021.DP03&moe=false

Figure 13: % with Severe Housing Problems



*Percentage of households with at least 1 of 4 housing problems: overcrowding, high housing costs, or lack of kitchen or plumbing facilities

Comprehensive Housing Affordability Strategy-HUD www.countyhealthrankings.org

MICHIGAN THUMB Public Health Alliance

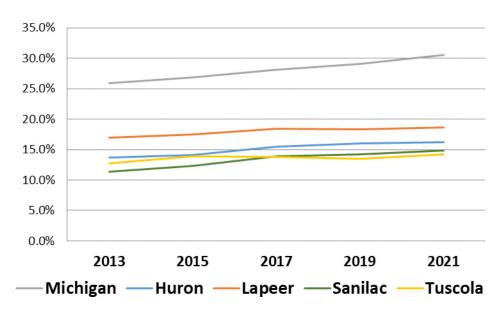
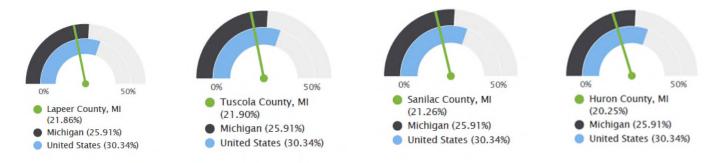


Figure 14: % of people with a Bachelor's Degree or Higher

US Census -S1501 - ACS 5 - Yr Estimate:2021 (Educational Attainment) – American Community Survey https://data.census.gov/table?q=S1501&g=040XX00US26 050XX00US26063,26087,26151,26157&tid=ACSST5Y2021.S1501&moe=false

Figure 15: Housing Insecurity: Percentage of Households where Housing Costs Exceed 30% of Income



Access to Quality Health Services

SCOPE OF THE PROBLEM

Having a strong healthcare system depends on access to services by all. A lack of available services in rural communities contributes to rural health disparities. Other barriers such as transportation or cultural differences between patients and providers can limit access to care. Lack of access to health insurance creates a financial barrier accessing services. This increases preventable hospitalizations and use of emergency rooms for non-emergency conditions. Access to primary medical care is also disproportionately impacting rural areas. Sixtyfive percent of Health Provider Shortage areas are in rural regions of the United States (Agency for Healthcare Research and Quality-2014).

Figure 18: Injury Hospitalizations and Deaths

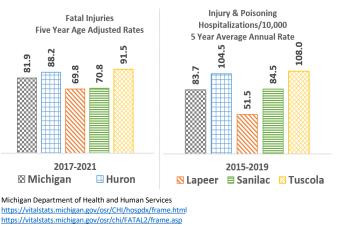
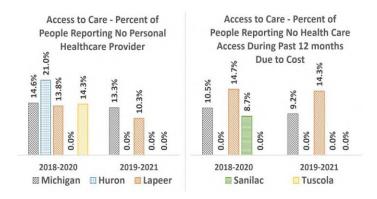
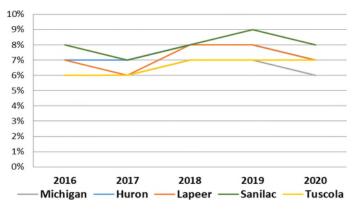


Figure 16: Access to Health Care, Michigan BRFSS



Michigan Department of Health and Human Services – BRFS – Table 8 http://www.michigan.gov/mdhhs/0,5885,7-339-71550 5104 5279 39424-134707--,00.html

Figure 17: Uninsured Rates:- % of people <65



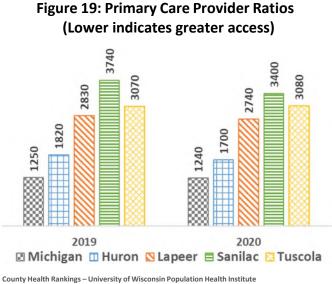
US Census Bureau's Small Area Health Insurance Estimates (SAHIE) program www.countyhealthrankings.org

Related Healthy People 2030- Objectives

AHS-1.1, 1.2 Increase persons with health insurance; medical insurance; and dental insurance; **AHS-1.3** Increase persons with prescription drug insurance; **AHS-3** Increase persons with a usual primary care provider; **AHS-04 and AHS-07** Increase the persons with specific source of ongoing care; **MICH-19** Increase children and youth aged 17 years and under who have a specific source of ongoing care; **AHS-8** Increase persons who have access to rapidly responding pre-hospital emergency medical services; **AHS-R01** Increase persons who are covered by basic life support; **AHS-8.2** Increase persons who are covered by advanced life support; **AHS-8.2** Increase persons who are covered by advanced life support; **AHS-8.2** Increase persons who are covered by advanced life support; **AHS-8.2** Increase persons who are covered by advanced life support; **AHS-8.2** Increase persons who are covered by advanced life support; **AHS-8.2** Increase persons who are covered by advanced life support; **AHS-8.2** Increase persons who are covered by advanced life support; **AHS-8.2** Increase persons who are covered by advanced life support; **AHS-8.2** Increase persons who are covered by advanced life support; **AHS-09** Reduce Level 1, 2, 3, 4, and 5 hospital emergency department visits in which the wait time to see an emergency department clinician exceeds the recommended timeframe

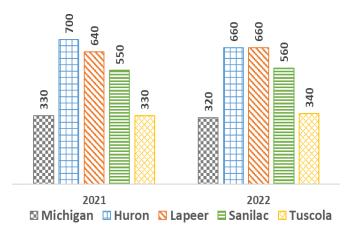
Access and Availability to Healthcare Providers

These charts illustrate the ratio of people for every provider. A higher number indicates that there are more people per provider OR fewer providers for the population.

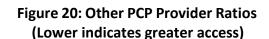


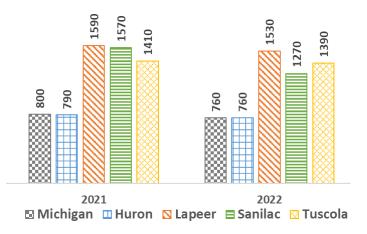
County Health Rankings – University of Wisconsin Population Health Institute www.countyhealthrankings.org

Figure 21: Mental Health Provider Ratios (Lower indicates greater access)



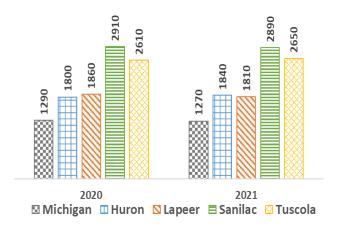
County Health Rankings – University of Wisconsin Population Health Institute www.countyhealthrankings.org





County Health Rankings – University of Wisconsin Population Health Institute www.countyhealthrankings.org

> Figure 22: Dentist Provider Ratios (Lower indicates greater access)



County Health Rankings – University of Wisconsin Population Health Institute www.countyhealthrankings.org

Figure 23: Health Professional Shortage Areas (HPSA)

HPSAs are designated by HRSA as having shortages of primary care, dental care, or mental health providers and may be geographic (e.g., county or township), population (e.g., Medicaid eligible) or facilities (e.g., rural health center).

Huron HPSAs

Primary Care-Entire County Mental Health-Entire County Dental-Entire County

Lapeer HPSAs Primary Care-Corrections

Primary Care-Corrections Primary Care- 8 Townships

Sanilac HPSAs

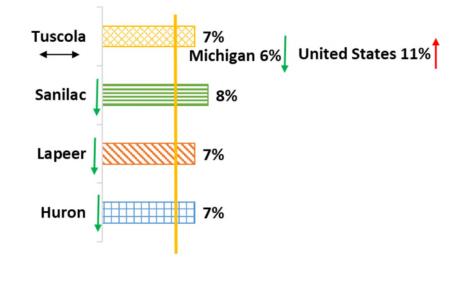
Primary Care-Entire County Mental Health- Entire County Dental-Entire County

Tuscola HPSAs

Primary Care- 26 Townships Mental Health-Entire County Dentist-Entire County



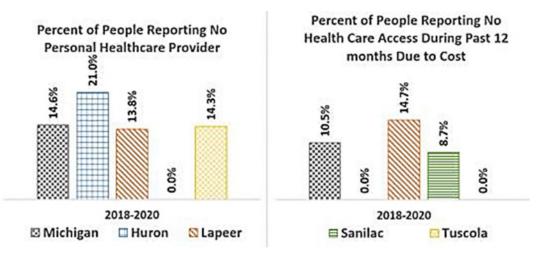
Figure 24:% of People <65 that are NOT Insured 2020



County Health Rankings – University of Wisconsin Population Health Institute www.countyhealthrankings.org



Figure 25: Access to Care- MI BRFS, 2018-2020



BRFS - Table 8

Michigan Department of Health and Human Services

http://www.michigan.gov/mdhhs/0,5885,7-339-71550 5104 5279 39424-134707--,00.html

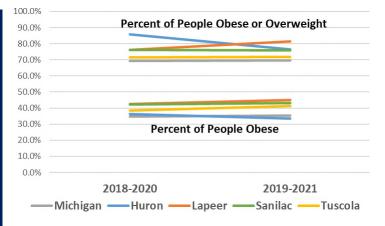


Weight Status-Nutrition & Physical Activity

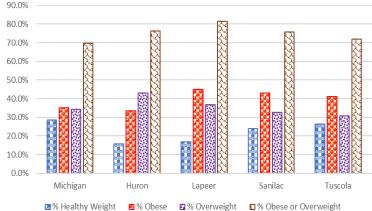
SCOPE OF THE PROBLEM

Evidence linking weight, nutrition, and physical activity to health status is strong. Studies document the correlation between food insecurity and obesity with chronic conditions such as type 2 diabetes, stroke, cardiovascular disease, and depression. Unhealthy eating combined with a sedentary lifestyle increases an individual's risk for hypertension, some cancers, sleep apnea, gall bladder disease, and osteoporosis. The onset of obesity in childhood increases the extent of this risk and the damage to the body. Most rural areas experience barriers to healthy eating and physical activity including fewer fitness and nutrition classes, cultural attitudes toward food and weight, less social support for healthy lifestyle choices, busy schedules, fewer preventive care messages, transportation, and distance to stores that sell healthy foods, higher prices for healthy foods, and skewed perceptions of weight status. (Adapted from Healthy People 2020- US Department of Health & Human Services)

Figure 26: Adult Weight Status



Michigan Department of Health and Human Services – BRFS – Table 6 http://www.michigan.gov/mdhhs/0,5885,7-339-71550 5104 5279 39424-134707--,00.html



Michigan Department of Health and Human Services - BRFS Table 6

http://www.michigan.gov/mdhhs/0,5885,7-339-71550 5104 5279 39424-134707--,00.html

Figure 28: 2019-2021 Weight Status BRFS

*Trends arrows compare 2018-2020 to 2019-2021 averages for Obesity. Michigan Department of Health and Human Services <u>http://www.michigan.gov/mdhhs/0,5885,7-339-71550</u> 5104 5279 39424-134707-,00.html

Related Healthy People 2030- Objectives

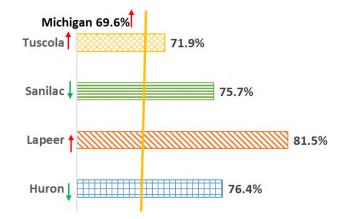
NWS-03Increase the proportion of adults who are at a healthy weight;

NWS-03 Reduce the proportion of adults who are obese;

NWS-04Reduce the proportion of children and adolescents who are considered obese



Figure 27: % Overweight or Obese, 2019-2021



Contributing Factors: Many nutrition and physical activity indicators contribute to weight status and obesity rates.

40.0% 35.0% 30.0% 25.0% 20.0% 15.0% 10.0% 5.0% 0.0% 2017-2019 2018-2020 2019-2021 Michigan Huron -Lapeer — Sanilac -Tuscola

Michigan Department of Health and Human Services -BRFS Table 9

http://www.michigan.gov/mdhhs/0,5885,7-339-71550 5104 5279 39424-134707--,00.html



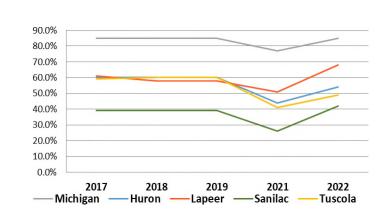
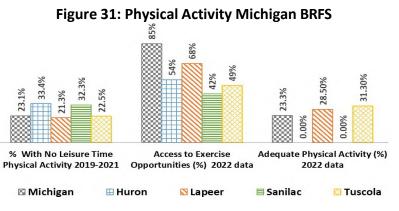


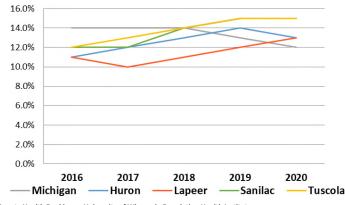
Figure 30: % with Access to Exercise Opportunities

County Health Rankings – University of Wisconsin Population Health Institute www.countyhealthrankings.org



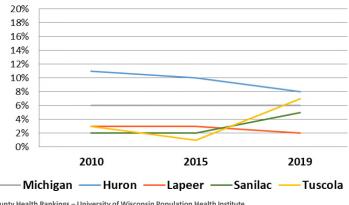
County Health Rankings – University of Wisconsin Population Health Institute, <u>www.countyhealthrankings.org</u> Michigan Department of Health and Human Services- BRFS Tables 9 & 10- <u>http://www.michigan.gov/mdhhs/0,5885,7-339-71550_5104_5279_39424-134707--,00.html</u> 2022 data for Huron and Sanilac were suppressed due to a denominator < 50 and/or a relative standard error > 30%.

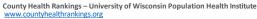




County Health Rankings – University of Wisconsin Population Health Institute www.countyhealthrankings.org

Figure 33: % with Limited Access to Healthy Foods





Diabetes

SCOPE OF THE PROBLEM

Diabetes mellitus is a metabolic disease that is caused by the body's inability to produce or respond appropriately to insulin. Insulin is a crucial hormone required for absorbing and using glucose (sugar) for fuel. If insulin is not produced or used, serious health complications can arise. There are three types of diabetes:

- Type 1: The body does not produce insulin; highly linked to genetic predisposition.
- Type 2: Caused by resistance to insulin. Prevalence is higher with patients over age 60 and is associated with diets high in sugar, obesity and overweight status, and lack of physical activity. Depression and diabetes also have a high rate of comorbidity.
- Gestational: Occurs during pregnancy and can lead to complications for the mother and baby. This type is also known to be associated with type 2 diabetes later in life.

Rural areas have an overall diabetes prevalence rate of 15 to 17 percent higher than urban areas. However, different ethnicities and geographic regions of the United States vary. In Rural communities, there are unique challenges and barriers to self-management of Type 2 diabetes. Lack of diabetes education programs, lack of knowledge regarding the importance of different types of screenings (i.e. eye exams, foot exams), financial burdens of medication and diabetes supplies, readily available fast food, lack of access to healthy food and physical activity opportunities, and cultural eating patterns all impact the prevalence of diabetes in rural areas. Additionally, those with depression face additional hurdles to accessing mental health including a lack of mental health providers and stigma. (Healthy People 2020- US Department of Health & Human Services)

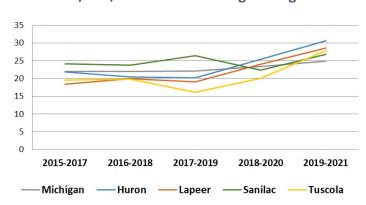
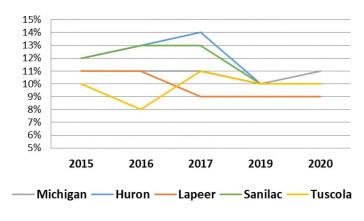


Figure 34: Diabetes Mortality Trends, Age Adjusted Rate/100,000 - 3 Year Moving Average



Figure 35: % of Adults aged 20 and Above with Diagnosed Diabetes



County Health Rankings – University of Wisconsin Population Health Institute www.countyhealthrankings.org

Related Healthy People 2030- Objectives

D-01Reduce the annual number of new cases of diagnosed diabetes; D-9 Reduce diabetes death rate;
Among person with diabetes; D-3 Improve glycemic control; D-8 Increase annual dental examination; D-8 Increase annual foot examination; D-04 and V-04Increase annual dilated eye examination; D-3 Increase glycosylated hemoglobin measurement at least twice a year; D-05 Increase annual urinary microalbumin measurement; D-07Increase self-blood glucose-monitoring daily; D-06 and D-D01 Increase formal diabetes education; D-01Increase diagnosis; D-02 Increase prevention behaviors

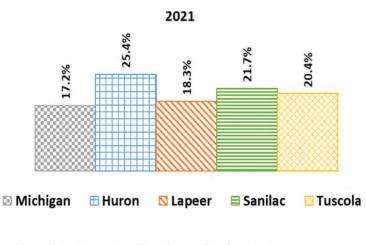
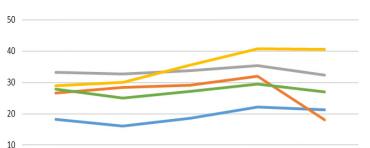


Figure 36: % of Population over age 65

US Census -S0101- ACS 1 - Yr Estimate: 2021 - ACS Demographic and Housing Estimates



2013-2017

Lapeer

-

2014-2018

-Sanilac

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2015-2019

Tuscola

Figure 37: Hospitalizations- Diabetes age 65+

Michigan Department of Health and Human Services http://www.michigan.gov/mdhhs/0,5885,7-339-71550 5104 5279 39424-134707--,00.html

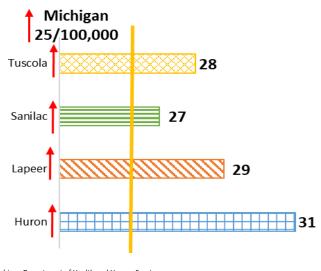
2012-2016

0

2011-2015

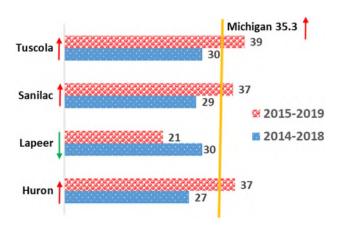
—Michigan —Huron

Figure 38: Diabetes Mortality Trends, 2019-2021



Michigan Department of Health and Human Services https://vitalstats.michigan.gov/osr/chi/cri/frame.html

Figure 39: Ambulatory Care Hospitalizations Diabetes



Michigan Department of Health and Human Services https://vitalstats.michigan.gov/osr/chi/HOSP/frame.html



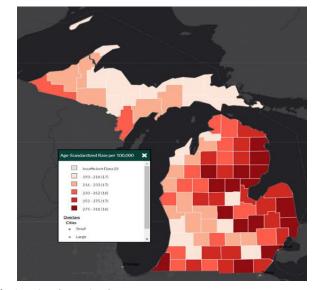
Heart Disease

SCOPE OF THE PROBLEM

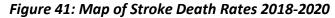
Heart Disease is the leading cause of death in Michigan and the United States. Factors such as hypertension, cholesterol levels, and obesity all play a role in the prevalence of cardiovascular disease. The after-effects of a stroke can be particularly debilitating, and the degree of after-effects are closely linked to the passage of time between the onset of a stroke and treatment. While genetics plays a role in the incidence of cardiovascular disease, many risks are modifiable such as hypertension, obesity, diabetes, high cholesterol, smoking, illegal drug use, and excessive alcohol use. The single most effective prevention therapy for stroke has been blood pressure control. The repositioning of stroke as the fourth, rather than third leading cause of mortality has been attributed to improvements in the control of hypertension (AS, Mozaffarian D, Roger VL, et al.). Diseases of the heart represent about three-fourths of all mortality from cardiovascular diseases. The most common form of heart disease is coronary heart disease, often referred to as hardening of the arteries.

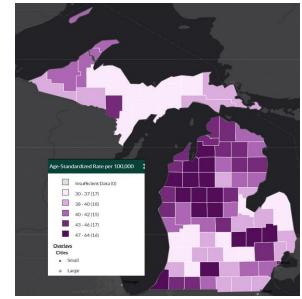
Rural disparities in healthcare related to access to emergency treatment, effective acute management of stroke, and rehabilitation therapy can contribute to decreased patient outcomes. Additionally, rural residents may not have as many opportunities to receive essential education on prevention of cardio-vascular disease (lifestyle modification or self-management of risk factors) and recognizing the signs and symptoms of heart disease and stroke. Access barriers such as cost, transportation, lack of primary care providers, and social isolation also play a role in modifying risks. (Healthy People 2020- US Department of Health & Human Services)

Figure 40: Map of Heart Disease Death Rates 2018-2020



Center for Disease Control; Interactive Atlas https://nccd.cdc.gov/DHDSPAtlas/Default.aspx





Center for Disease Control; Interactive Atlas https://nccd.cdc.gov/DHDSPAtlas/Default.aspx

Related Healthy People 2030- Objectives

HDS-6-6 Improve lipid control; HDS-4 Increase blood pressure control HDS-1 Increase overall cardiovascular health in the U.S. population; HDS-2 Reduce coronary heart disease deaths; HDS-3 Reduce stroke deaths; HDS-4 Increase the proportion of adults who have had their blood pressure measured within the preceding two years and can state whether their blood pressure was normal or high;
HDS-5 Reduce the proportion of persons in the population with hypertension; HDS-6 Increase the proportion of adults who have had their blood cholesterol checked within the preceding five years; HDS-7 Reduce the proportion of adults with high total blood cholesterol levels; HDS-8 Reduce the mean total blood cholesterol levels among adults; HDS-10 Increase the proportion of adults with hypertension who meet the recommended guidelines

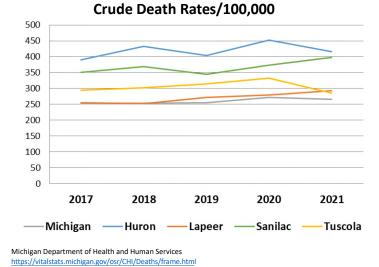
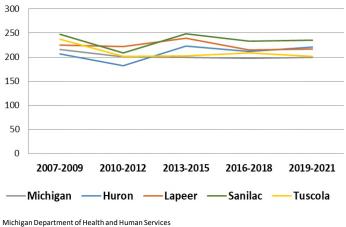


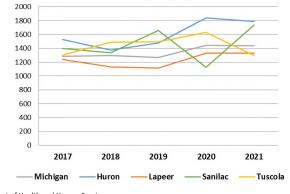
Figure 42: Heart Disease

Figure 43: Heart Disease Mortality Trends Age Adjusted Rate/100,000



https://vitalstats.michigan.gov/osr/CHI/CRI/frame.asp





Michigan Department of Health and Human Services https://vitalstats.michigan.gov/osr/CHI/Deaths/frame.html

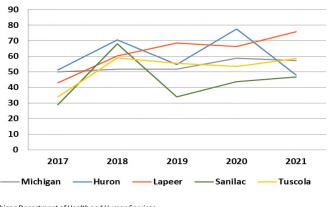
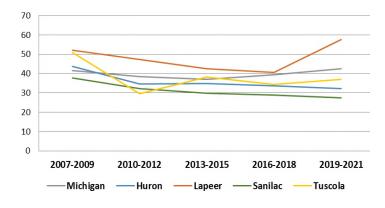


Figure 45: Stroke Crude Death Rates/100,000

Michigan Department of Health and Human Services https://vitalstats.michigan.gov/osr/CHI/Deaths/fram





Michigan Department of Health and Human Services https://vitalstats.michigan.gov/osr/CHI/CRI/frame.asp



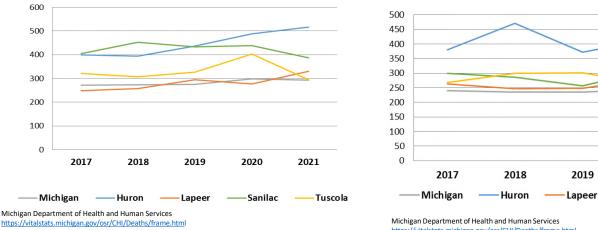


Figure 47: Heart Disease Crude Death Rates/100,000- Males

Figure 48: Heart Disease Crude Death Rates/100,000- Females

2020

Sanilac

2021

Tuscola

https://vitalstats.michigan.gov/osr/CHI/Deaths/frame.html

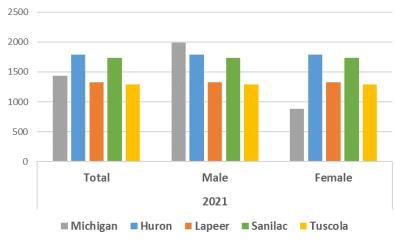
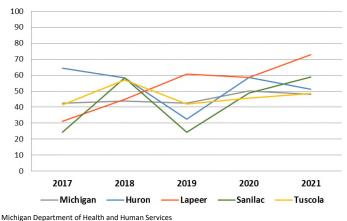


Figure 49: 2021 Heart Disease Years of Potential Life Lost Rate/100,000

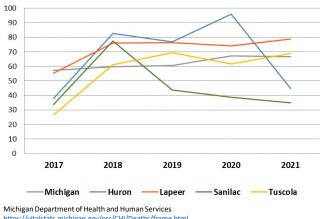
Michigan Department of Health and Human Services https://vitalstats.michigan.gov/osr/CHI/Deaths/frame.html

Figure 50: Stroke Crude Death Rates/100,000



https://vitalstats.michigan.gov/osr/CHI/Deaths/frame.htm

Figure 51: Stroke Crude Death Rates/100,000

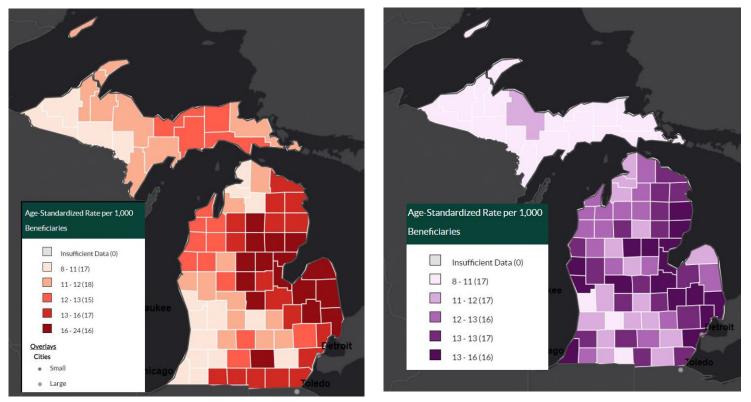


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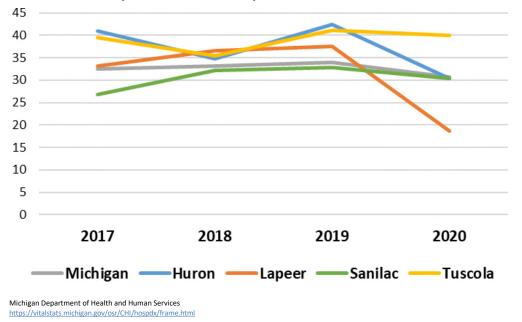


Figure 52: Medicare Hospitalization Maps for Heart Disease and Stroke

2018-2020 Heart Disease Hospitalizations Rate/1000 For Medicare, Age 65+ 2018-2020 Stroke Hospitalizations; Percentage Discharged Home for Medicare, Age 65+

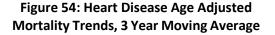


Center for Disease Control; Interactive Atlas https://nccd.cdc.gov/DHDSPAtlas/Default.aspx









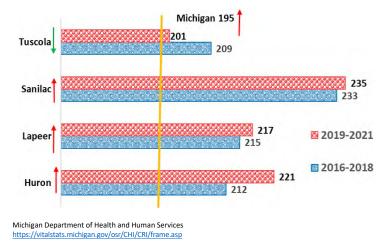
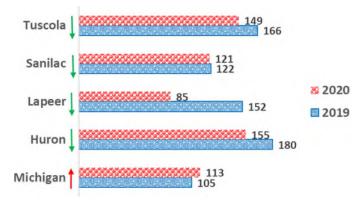


Figure 55: Hospitalizations for Heart Disease- Rate/10,000



Michigan Department of Health and Human Services https://vitalstats.michigan.gov/osr/CHI/hospdx/frame.html

Figure 56: Stroke Mortality Trends, Rate/100,000 2016-2018 to 2019-2021

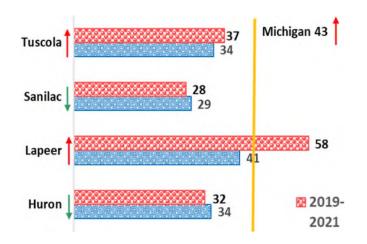
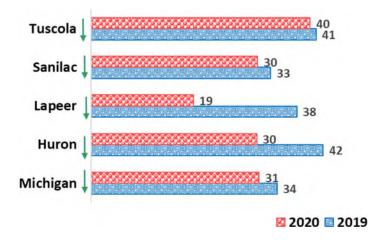


Figure 57: Hospitalizations/10,000 Cerebrovascular Disease 2019 to 2020



Michigan Department of Health and Human Services https://vitalstats.michigan.gov/osr/CHI/CRI/frame.asp Michigan Department of Health and Human Services https://vitalstats.michigan.gov/osr/CHI/hospdx/frame.html

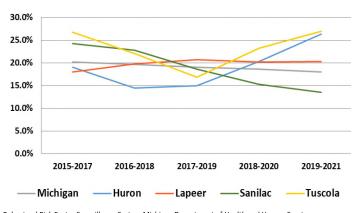


Tobacco Use

SCOPE OF THE PROBLEM

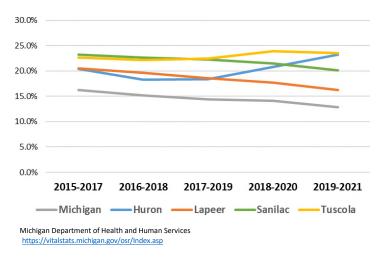
Tobacco use is significantly associated with the four main preventable causes of death in the United States: cancer, heart disease, cardiovascular disease, and pulmonary disease. Rural populations are already significantly disadvantaged by lack of access to health care generally, but when combined with tobacco addiction, rural populations significantly increase their risk for chronic conditions. In addition to being at a greater risk for tobacco-related morbidity and mortality due to their own tobacco use, rural populations are also disproportionately affected by secondhand smoke. (Vander Weg MW CC, Howren MB, Cai X., Vander Weg MW CC, Howren MB, Cai X.) While adult smoking rates have leveled off in the area and are lower than the state, two populations are of particular concern.

- Rural youth have higher rates of cigarette and smokeless tobacco use than urban counterparts. Research indicates that rural youth initiate tobacco use at an earlier age and, therefore, are more nicotine dependent, making cessation more difficult. Rural youth tobacco users may be at an increased risk for anxiety and depression because smoking and mental health issues tend to co-occur among this population. (Rural Healthy People 2020, Vol I). Vaping is also a new trend that may replace tobacco use and increase the risk of substance use disorder.
- 2) Pregnant women are almost three times more likely to smoke compared to their urban counterparts even when other factors are accounted for (American Lung Association). Recent rates have seen a slight decrease.



Behavioral Risk Factor Surveillance System Michigan Department of Health and Human Services http://www.michigan.gov/mdhhs/0,5885,7-339-71550 5104 5279 39424-134707--,00.html

Figure 59: % of Live Births to Women Who Smoked During Pregnancy – 3 Year Average



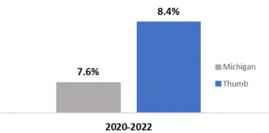
Related Healthy People 2030- Objectives

TU-1&2 Reduce tobacco use by adults; adolescents; TU-4-5-6 Increase smoking cessation attempts by adult smokers; during Pregnancy; TU-9&10 Increase tobacco screening and cessation counseling in health care settings; TU-11 Reduce the proportion of nonsmokers exposed to secondhand smoke; U-12 Increase the proportion of persons covered by indoor worksite polices that prohibit smoking; TU-13 Establish laws on smoke-free indoor air that prohibit smoking in public places and worksites

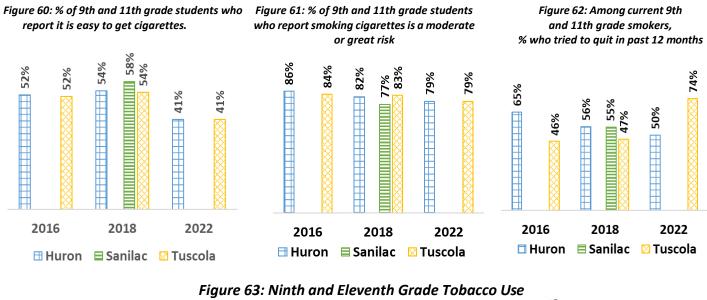


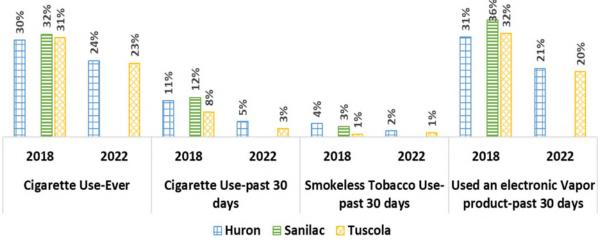
Figure 58: % of Adults who Smoke

Percent of Current E-Cigarette Use by Adults



Michigan Profile for Healthy Youth Data not available for Michigan and Lapeer https://mdoe.state.mi.us/schoolhealthsurveys/ExternalReports/CountyReportGeneration.aspx





Cancer

SCOPE OF THE PROBLEM

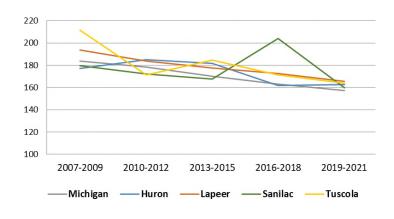
Cancer is the second leading cause of death in the United States and the local region. Cancer incidence and death rates are higher in rural communities. Many cancers are highly treatable if detected early. In rural areas, detection is not as timely and there are also differences in treatment. Breast, colorectal, and cervical cancer screenings have been shown to be less frequent in rural areas.

There are a number of barriers to prevention, screening, and treatment for cancer.

- Personal level barriers include knowledge, attitudes, and beliefs about cancer. Lack of insurance and cost barriers also play a factor alongside lack of transportation.
- System level barriers also exist including distance to a facility, inadequate physician recommendation, overall shortage of healthcare providers in rural areas, and lower participation in clinical trials.

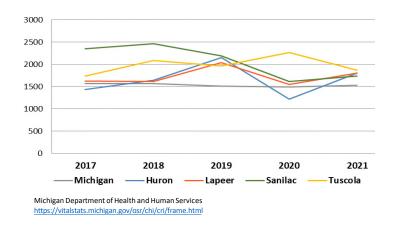
Rural residents also tend to have higher risk factors. Tobacco use is associated with higher incidence of cancer and rural areas tend to have higher rates than their urban counterparts. Studies have also shown that healthy eating and physical activity are protective factors. As discussed in other sections, rural residents have higher rates of obesity and barriers to accessing healthy foods and opportunities for physical activity. (Rural Healthy People 2020)

Figure 64: Cancer Mortality Trends Age Adjusted Rate/100,000



Michigan Department of Health and Human Services https://vitalstats.michigan.gov/osr/Cancer/cdxrecent.asp

Figure 65: Cancer Years of Potential Life Lost Rate/100,000



Related Healthy People 2030- Objectives

C-1 Reduce the overall cancer death rate; C-9 Reduce invasive colorectal cancer; C-10 Reduce invasive uterine cervical cancer; C-11 Reduce late-stage breast cancer; C-13 Increase the proportion of cancer survivors who are living five years or longer after diagnosis;
C-15 Increase the proportion of women who receive a cervical cancer screening based on the most recent guidelines; C-16 Increase the proportion of adults who receive a colorectal cancer screening based on the most recent guidelines; C-17 Increase the proportion of women who receive a breast cancer screening based on the most recent guidelines;

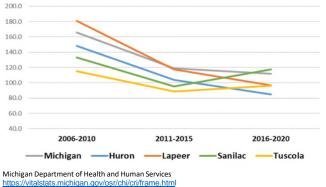
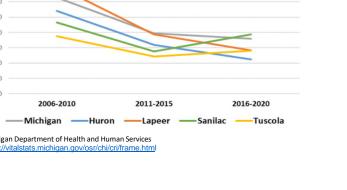
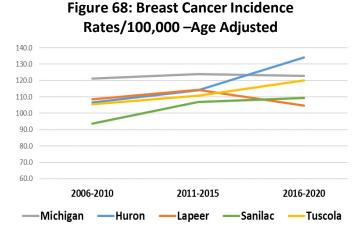


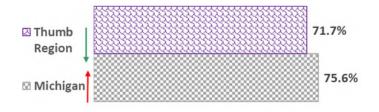
Figure 66: Prostrate Cancer Incidence Rates/100,000





Michigan Department of Health and Human Services https://vitalstats.michigan.gov/osr/chi/cri/frame.html

Figure 70: Colorectal Cancer Screening Age 50+ 2020



Michigan Department of Health and Human Services from Yan Tian

Figure 67: Lung and Bronchus Cancer Incidence Rates/100,000 – Age Adjusted

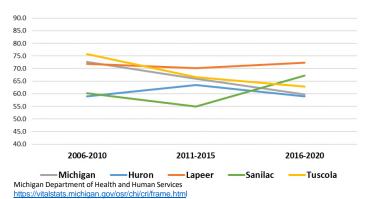
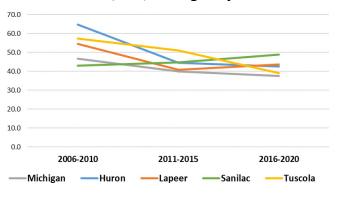
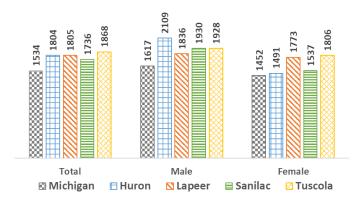


Figure 69: Colorectal Cancer Incidence Rates/100,000- Age Adjusted



Michigan Department of Health and Human Services https://vitalstats.michigan.gov/osr/chi/cri/frame.html

Figure 71: 2021 Cancer Years of Potential Life Lost Rate/100,000



Michigan Department of Health and Human Services

http://www.michigan.gov/mdhhs/0,5885,7-339-71550_5104_5279_39424-134707--,00.html



Mental Health

SCOPE OF THE PROBLEM

Mental health disorders are often associated with significant impairment and disability and result in substantial financial costs. It is estimated that mental illness costs the U.S. at least \$300 billion annually, with disability benefit payments of about \$24 billion, health care expenditures of \$100 billion, and lost earnings and wages of approximately \$193 billion (Kessler RC, Heeringa S, Lakoma MD, et al...) The impact of mental health conditions is exacerbated by lack of available services, limited specialty service, stigma association with mental health disorders, transportation to services, and cost of medications. The disability caused by mental health conditions can also interfere with selfmanagement of health leading to co-morbidities.

The shortage of mental health providers may contribute to a workforce that has a lower level of certification and is susceptible to burnout. Determining the prevalence of mental health disorders is challenging. It is estimated that over 46 percent of adults in the U.S. will develop a mental illness at some point during their lifetime (Kessler RC, Wang PS). It is estimated that 1 in 4 individuals have a mental health disorder. When substance use is included in that estimation, 1 in 3 people have a behavioral health disorder. It is estimated that among the 25% of the population with a mental health disorder, 40% experienced mild disorders, 37% experienced moderate disorders, and 22% experienced serious mental disorders (Bagalman E, Napili A.).

Under- utilization of mental health services for rural residents translates into the increased likelihood that they will enter treatment with more severe disorders (Brossart DF, Wendel ML, Elliott TR, Cook HE, Castillo LG, Burdine JN) Research also shows that children and senior citizens are at risk for having an untreated mental health disorder. (Healthy People 2020- US Department of Health & Human Services)

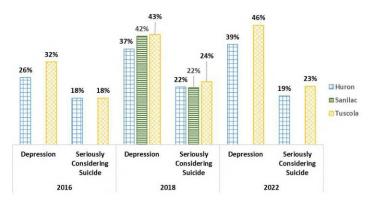
25.0 20.0 15.0 10.0 5.0 1999-2003 2002-2006 2007-2011 2012-2016 2017-2021 Michigan Huron Lapeer Sanilac Tuscola

Rate/100,000

Figure 72: Suicide Mortality Trends, Age Adjusted

Michigan Department of Health and Human Services https://vitalstats.michigan.gov/osr/CHI/CRI/frame.asp

Figure 73: 9th and 11th grade Depression and Suicidal Ideations



Data not available for Michigan and Lapeer. Sanilac only 2018 data available. "% of 9th & 11th grade students who felt so sad or hopeless almost every day for two weeks or more in a row that they stopped doing some usual activities during the past 12 months."

Percentage of students who seriously considered attempting suicide during the past 12 months. Michigan Profile for Healthy Youth

https://mdoe.state.mi.us/schoolhealthsurveys/ExternalReports/CountyReportGeneration.aspx

Related Healthy People 2030- Objectives

MHMD-1 Reduce the suicide rate; MHMD-4.1 Reduce the proportion of adolescents aged 12 to 17 years who experience major depressive episodes (MDEs); MHMD-6 Increase treatment for children with mental health problems; MHMD-9 Increase treatment for adults with mental health disorders

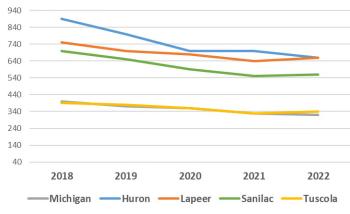
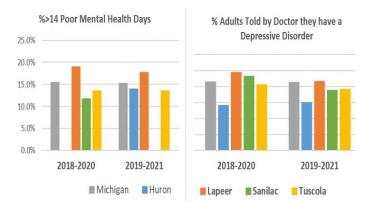


Figure 74: Mental Health Provider Rates

(Lower indicates greater access)

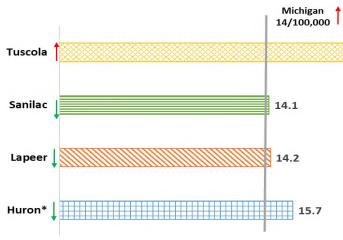
Figure 76: Mental Health Indicators



Michigan Department of Health and Human Services http://www.michigan.gov/mdhhs/0,5885,7-339-71550 5104 5279 39424-134707--,00.html

County Health Rankings – University of Wisconsin Population Health Institute www.countyhealthrankings.org

Figure 75: Suicide Mortality Trends, Age Adjusted 2017-2021



Asterisk (*) indicates that data do not meet standards of reliability or precision. Michigan Department of Health and Human Services https://vitalstats.michigan.gov/osr/CHI/CRI/frame.asp

Substance Use Disorders

SCOPE OF THE PROBLEM

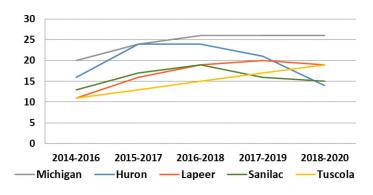
Substance Use Disorders (SUD) contribute to a variety of health problems and, for certain individuals, leads to increased incidence of violence and accidents (American Psychiatric Association). Substances can be separated into two categories:

- 1) Legal Drugs: alcohol, tobacco, caffeine, drugs as appropriately prescribed and used.
- Illegal Drugs: substances used illegally such as methamphetamines, cocaine, and prescription drugs such as opioids when used improperly.

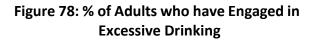
Prevalence of SUD has characteristics that reflect both rurality and geographic regions across the United States. Across the United States and especially in rural communities there is a recent trend of increased nonmedical prescription drug use. One of the most recognized and expected barriers to lowering the number of people with SUD in rural America is the lack of access to appropriate treatment and interventions, combined with the lack of resources for SUD and mental health services in rural areas. (Curran GM, Ounpraseuth ST, Allee E, Small J, Booth BM.)

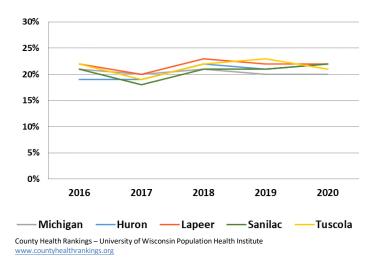
However, rural residents who have SUD have lower treatment utilization even when services are available. A study of over 700 rural drug users found that, despite high levels of recent and lifetime self-reported SUD among rural residents, available treatment services were underutilized. (Curran GM, Ounpraseuth ST, Allee E, Small J, ooth BM.) (Healthy People 2020- US Department of Health & Human Services)

Figure 77: Drug Poisoning Deaths



County Health Rankings – University of Wisconsin Population Health Institute www.countyhealthrankings.org





Related Healthy People 2030- Objectives

SA-2 Increase adolescents never using substances; SA-3 Increase adolescents who disapprove of substance abuse; SA-4 Increase the proportion of adolescents who perceive great risk associated with substance abuse; SA-7 Increase the number of admissions to substance abuse treatment for injection drug use; SA-10 Increase Level 1 and Level 2 trauma centers and primary care settings that implement evidence-based alcohol Screening and Brief Intervention (SBI); SA-12 Reduce drug-induced deaths; SA-13 Reduce pastmonth use of illicit substances; SA-14 Reduce the proportion of persons engaging in binge drinking of alcoholic beverages; SA-16 Reduce average annual alcohol Consumption; SA-17 Reduce the rate of alcohol- impaired driving (0.08+ blood alcohol content [BAC]) fatalities; SA-19 Reduce nonmedical use of prescription drugs; SA-20 Reduce the number of deaths attributed to alcohol

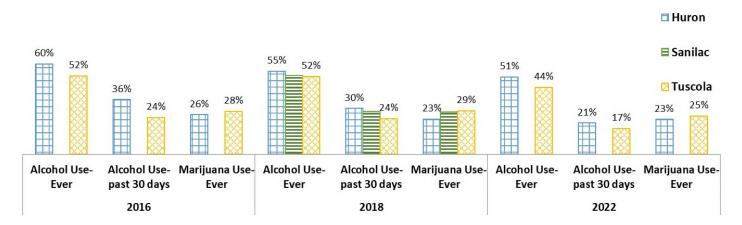
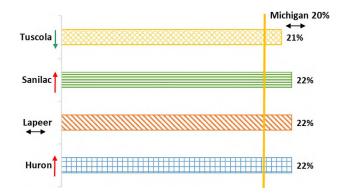


Figure 79: 9th & 11th Grade Alcohol and Marijuana Use

Data not available for Michigan and Lapeer. Sanilac is only available for 2018. Michigan Profile for Healthy Youth

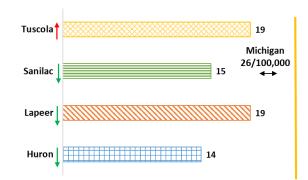
https://mdoe.state.mi.us/schoolhealthsurveys/ExternalReports/CountyReportGeneration.aspx

Figure 80: % of Adults Engaged in Excessive Drinking 2020



County Health Rankings – University of Wisconsin Population Health Institute www.countyhealthrankings.org

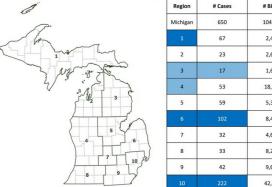
Figure 81: Drug Overdose Deaths/100,000, 2018-2020



 $\label{eq:county-balance} County Health Rankings - University of Wisconsin Population Health Institute www.county-healthrankings.org$



Figure 82: Incidence of Neonatal Abstinence Syndrome by Perinatal Region 2020



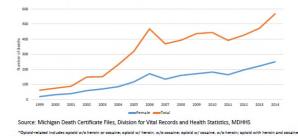
Region	# Cases	# Births	Rate per 100,000 Live Births
Michigan	650	104,149	624.1
1	67	2,489	2,691.8
2	23	2,680	858.2
3	17	1,613	1,053.9
4	53	18,104	292.8
5	59	5,333	1,106.3
		8,433	1,209.5
7	32	4,653	687.7
8	33	8,298	397.7
9	42	9,660	434.8
		42,878	517.7

Michigan Resident Live Birth Files Linked with Michigan Hospital Discharge Data, Division for Vital Records and Statistics, Michigan Department of Health and Human Services https://www.michigan.gov/mdhhs/-/media/Project/Websites/mdhhs/MCH-Epidemiology/NAS-by-Prosperity-

Region---May

2022.pdf?rev=57fc91b8634c4b1ea506d685032d2794&hash=CD5ABA386DC56816707C3457F5497B1D

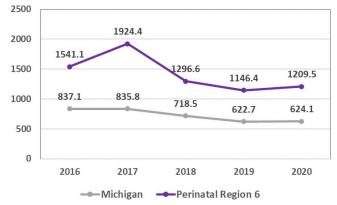
Figure 83: Number of Opioid-related Drug Poisoning Deaths, Females, Michigan (1999-2014)



Perinatal			
Region 3			
		N with Treated NA	S
	Births	(779.5)	Rate per 100,000
2010	12,107	54	446.0
2011	11,749	96	817.1
2012	11,633	96	825.2
2013	11,632	118	1014.4
2014	11,715	165	1408.5

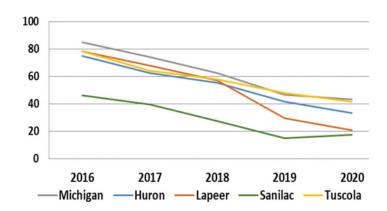
Michigan Resident Inpatient Files Michigan Health and Hospital Association Service Corporation https://www.michigan.gov/documents/mdhhs/Burden_of_Neonatal_Abstinence.Syndrome_in_Michigan_5 48268 7.pdf

Figure 84: Neonatal Abstinence Syndrome Rate per 100,000 Births Michigan -Perinatal Region 3



Michigan Resident Live Birth Files Linked with Michigan Hospital Discharge Data, Division for Vital Records and Statistics, Michigan Department of Health and Human Services https://www.michigan.gov/mdhhs/-/media/Project/Websites/mdhhs/MCH-Epidemiology/NAS-by- Prosperity-Region---May-2022.pdf?rev=57fc91b8634c4b1ea506d685032d2794&hash=C D5ABA386DC56816707C3457F5497B1D

Figure 85: Opioid Prescribing Rate/100 People



Center for Disease Control https://www.cdc.gov/drugoverdose/rxrate-maps/county2020.html



Older Adults

SCOPE OF THE PROBLEM

Older adults account for more than 20% of the population in Michigan's Thumb. In Huron County, one out of four people were over the age of 65 in 2021. (US Census)

The American generation known as the "Baby Boomers" began reaching age 65 around 2010. There is an increase in health conditions that often develop as people age. Considering the health needs of this demographic population is important to both the quality of life of individuals and the overall cost of healthcare in rural areas. Among the older adult population, upwards of 91% have at least one chronic condition, while 73% have two or more chronic conditions (Anderson G. Chronic care: making the case for ongoing care).

Increasing quality of life and decreasing the extent of disability for the elderly population is possible through evidence based prevention programs and supports for chronic care self-management. Ensuring that there are adequate resources to support these efforts in rural communities is a challenge. This challenge is exacerbated by an overall shortage in healthcare providers, a lack of providers with geriatric credentials, and access barriers such as cost and transportation. Programs that address specific health conditions in the elderly population will also help to improve health outcomes for those over age 65. Data shows that a number of rural disparities exist for colorectal cancer screening, Alzheimer's care, physical activity and healthy eating, diabetes self-management, depression and mental health, and fall risks often due to environmental factors. (Healthy People 2020- US Department of Health & Human Services)

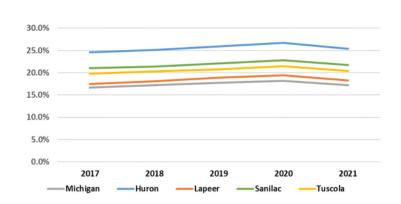
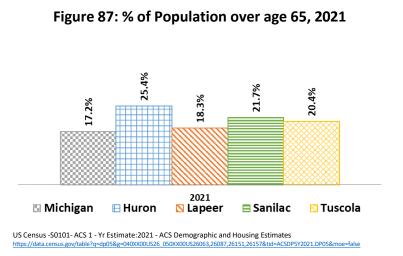


Figure 86: % of Populations over age 65

US Census -S0101- ACS 1 - Yr Estimate:2021 - ACS Demographic and Housing Estimates https://data.census.gov/table?g=dp05&g=040XX00US26_050XX00US26063,26087,26151,26157&tid=ACSDP5Y2021.DP05



Related Healthy People 2030- Objectives

OA-3 Increase the proportion of older adults with one or more chronic health conditions who report confidence in managing their conditions; OA-4 Increase the proportion of older adults who receive Diabetes Self-Management Benefits; OA-5 Reduce the proportion of older adults who have moderate to severe functional limitations; OA-6 Increase the proportion of older adults with reduced physical or cognitive function who engage in light, moderate, or vigorous leisure time physical activities; OA-7 Increase the proportion of the health care workforce with geriatric certification; OA-9 Reduce the proportion of unpaid caregivers of older adults who report an unmet need for caregiver support services; OA-10 Reduce the rate of pressure ulcer-related hospitalizations among older adults; OA-11 Reduce the rate of emergency department (ED) visits due to falls among older adults

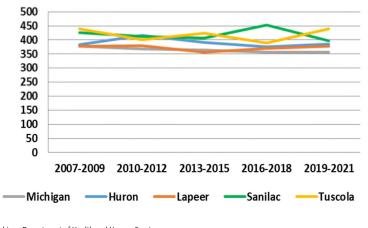
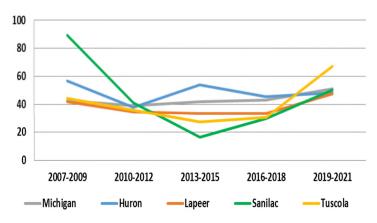


Figure 88: Cancer Death Rates/100,000 **Residents Aged 50-75**

Figure 89: Diabetes Death Rates/100,000 **Residents Aged 50-74**



Michigan Department of Health and Human Services https://vitalstats.michigan.gov/osr/CHI/CRI/frame.asp

Figure 90: Heart Disease Death Rates/100,000 **Residents Aged 50-74**

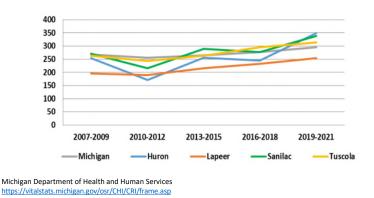
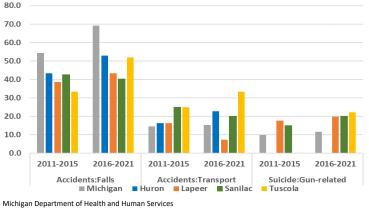


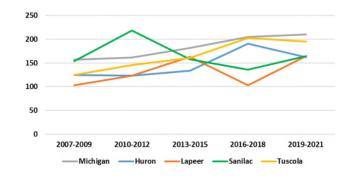
Figure 92: Top Three Causes of Fatal Injuries Michigan Rate/100,000 age 65+



https://vitalstats.michigan.gov/osr/chi/FATAL2/frame.asp

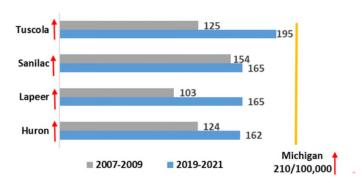
Michigan Department of Health and Human Services https://vitalstats.michigan.gov/osr/CHI/CRI/frame.asp

Figure 91: Unintentional Injuries Death Rate/100,000 Age 75+



Michigan Department of Health and Human Services https://vitalstats.michigan.gov/osr/CHI/CRI/frame.asp

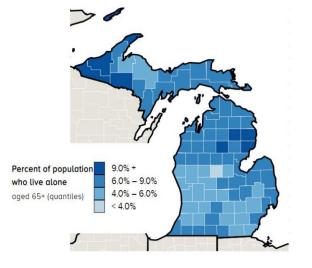




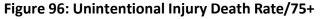
Michigan Department of Health and Human Services https://vitalstats.michigan.gov/osr/CHI/CRI/frame.asp

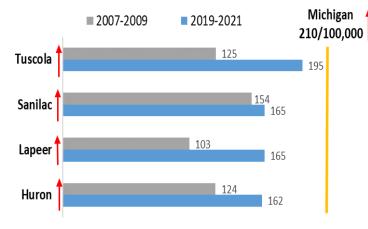


Figure 94: Map of Persons 65+ Living Alone, 2015-2019



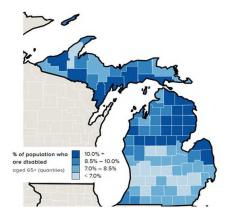
AARP Foundation Connect 2 Affect, https://connect2affect.org/isolation-map/





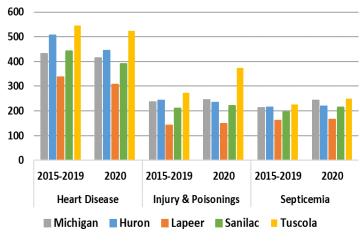
Michigan Department of Health and Human Services https://vitalstats.michigan.gov/osr/CHI/CRI/frame.asp

Figure 98: % Disabled Residents Age 65+ 2015-2019

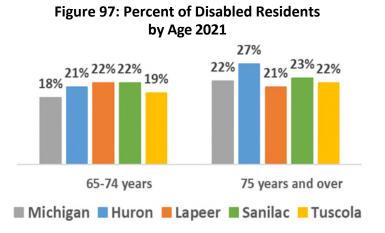


AARP Foundation Connect 2 Affect, https://connect2affect.org/isolation-map/

Figure 95: 2009-2013 Top Three Hospitalizations Rate/10,000 for those age 65+

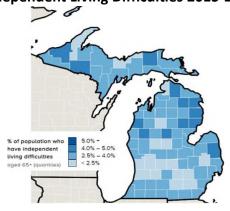


Michigan Department of Health and Human Services https://vitalstats.michigan.gov/osr/CHI/hospdx/frame.html



US Census -B18101- ACS 5 - Yr Estimate:2021 Sex by age by disability status https://data.census.gov/table?q=Disabiled&t=Disability&g=040XX00US26 050XX00US26063,26087,2 6151,26157&tid=ACSDT5Y2021.B18101&moe=false

Figure 99: % of Population Age 65+ who have Independent Living Difficulties 2015-2019



AARP Foundation Connect 2 Affect, https://connect2affect.org/isolation-map/



Injury and Violence Prevention

SCOPE OF THE PROBLEM

Injuries and violence have a significant impact on residents in rural communities. Aside from the resulting deaths, injuries account for a high cost in lost work, productivity, and quality of life. Pain from injuries can be long lasting and increase risk for opioid prescription use and addiction. Injuries among seniors can result in confinement and loss of independence. While rural communities typically see a lower rate of injuries resulting from crime and homicides, accidents and suicides are disproportionately higher in rural communities as compared to their urban counterparts.

Injuries most frequently seen in rural communities are related to four main categories:

- Domestic violence and child abuse
- Traffic Accidents
- Personal injuries such as senior falls or farm accidents
- Injuries related to mental health or substance use such as accidental overdoses, impaired driving, and suicide.

One of the major contributing factors to injuries and violence in rural communities is widespread isolation and geographic distance from social support or rescue services. Availably of services such as mental health or shelters are also lower in rural communities. Lower economic status compounds many of these issues. Many rural areas also depend on high-risk occupations such as farming or operating heavy equipment. One of the main rural industries, agriculture, has one of the highest occupational fatality rates, and injury from farm machinery is a source of injury among rural residents. This impacts both children and adults. (National Safety Council) (Healthy People 2020- US Department of Health & Human Services)

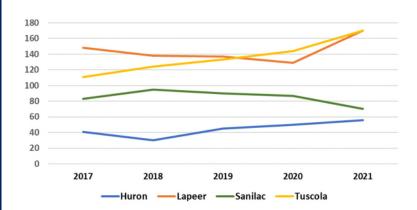


Figure 100: Violent Crime Rates

Michigan Incident Crime Reporting Annual Report https://www.michigan.gov/msp/divisions/cjic/micr/annual-reports

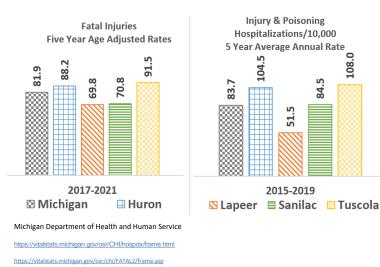
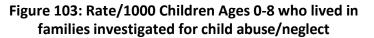


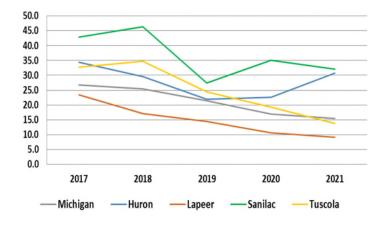
Figure 101: Injury Hospitalizations and Deaths

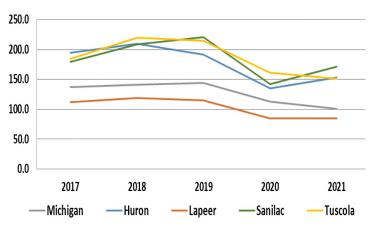
Related Healthy People 2030- Objectives

IVP-1 Reduce fatal and nonfatal injuries; IVP-11 Reduce unintentional injury deaths; IVP-12 Reduce nonfatal unintentional Injuries; IVP-13 Reduce motor vehicle crash-related deaths; IVP-30 Reduce firearm-related deaths; IVP-33 Reduce physical assaults; OSH-1 Reduce deaths from work-related injuries; OSH-2 Reduce nonfatal work-related injuries

Figure 102: Rate/1000 Children Ages 0-8 who lived in families substantiated for child abuse/neglect





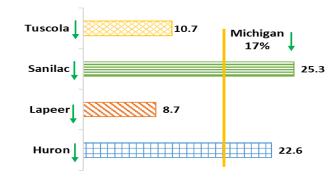


Kids Count

https://datacenter.aecf.org/data/customreports/3775,3787,3819,3822/any

Kids Count https://datacenter.aecf.org/data/customreports/3775,3787,3819,3822/any





Kids Count, https://datacenter.aecf.org/data/customreports/3775,3787,3819, 3822/any



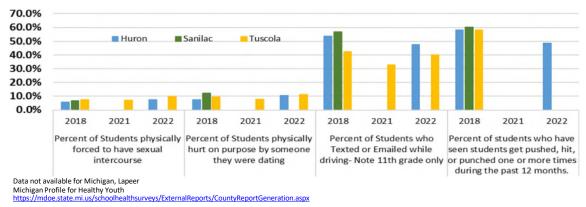
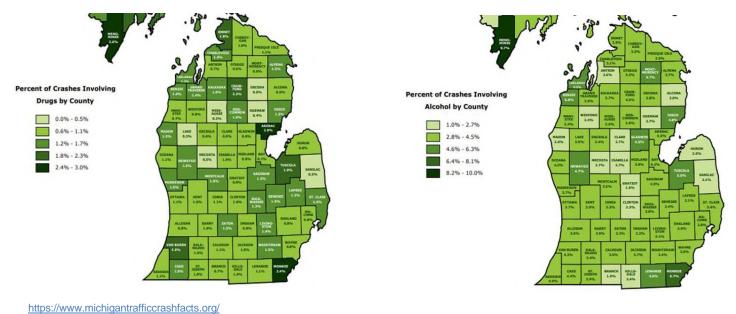




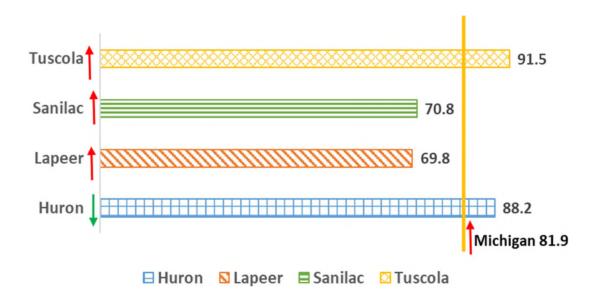
Figure 106: 2021 Rates of Crashes Involving Drugs

Figure 107: 2021 Rates of Crashes Involving Alcohol



Repel/ www.mongarkrameoraomacto.org/

Figure 108: 2017-2021 Fatal Injuries Rate/100,000 Five Year Age Adjusted Rates



Michigan Department of Health and Human Services

https://vitalstats.michigan.gov/osr/chi/FATAL2/frame.asp



Oral Health and Dental Care

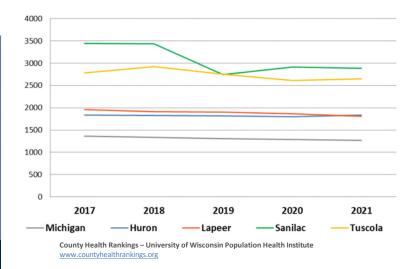
Figure 109: Dentist Provider Ratio (Lower indicates greater access)

SCOPE OF THE PROBLEM

Oral Health and overall physical health are directly linked. Acute and chronic diseases, such as acute myocardial infarction, strokes, and coronary heart disease, are increased with untreated periodontal disease. There is an established relationship between tooth-loss and other health problems, such as low functional status, cardiovascular diseases, cognitive decline, ischemic stroke, coronary heart disease, diabetes, pneumonia, nutritional deficiencies, social isolation, and mortality. Oral health issues can also interfere with the effectiveness of medications. Disparities in oral health status are associated with poverty, ethnicity, and geographic isolation. Barriers to dental health are varied. They include:

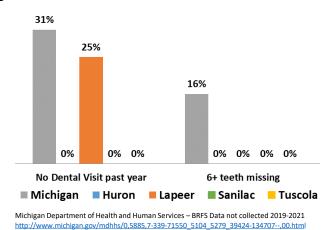
- Availability of care-especially the shortage of providers accepting Medicaid.
- Affordability of care including lack of insurance and low income.
- Access issues such as transportation, lack of time, and knowledge of services.
- Limited knowledge about importance and need for dental hygiene, dietary impact on dental health, preventive dental care, and the need to address dental issues before complications emerge.

Fear of dental care adds to these barriers. In a survey of rural residents in West Virginia, twenty-seven reported fears of seeking dental care (Frisbee SJ, Chambers CB, Frisbee JC, Goodwill AG, Crout RJ). With the scientific evidence connecting oral health to other physical health conditions, it is critical to shift mindsets around oral healthcare from an optional service to a necessary service which impacts overall health. (Summary of findings in Rural Healthy People 2020, Vol II)



Health Provider Shortage Areas- Dental Huron: Medicaid Eligible and Single County Lapeer: None Sanilac: Medicaid Eligible and Single County

Figure 110: Oral Health Indicators 2018-2020 combined

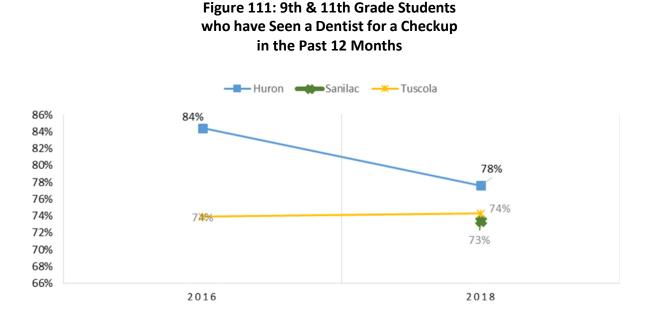


Related Healthy People 2030- Objectives

OH-1.1 and 1.2 Reduce children aged 3 to 5 years and 6-9 years with dental caries in their primary teeth; OH-3.3 Reduce adults aged 75+ years with untreated root surface caries; OH-4.1 Reduce adults aged 45 to 64 years who have ever had a permanent tooth extracted due to dental caries or periodontal disease; OH-4.2 Reduce adults aged 65 to 74 years who have lost all of their natural teeth; OH-6 Increase oral and pharyngeal cancers detected at the earliest stage; OH-7; OH-8 Reduce rate of lower extremity amputations Increase children, adolescents, and adults who used the oral health care system and received any preventive dental service during the past year; OH-9.1 thru

OH-9.3 Increase school-based health centers with an oral health component that includes dental sealants (OH-9.1), dental care (OH-9.2), and topical fluoride (OH-9.3); **OH-10.1** Increase Federally Qualified Health Centers (FQHCs) that have an oral health care program; **OH-10.2** Increase local health departments that have oral health programs; **OH-11** Increase patients who receive oral health services at FQHCs; **OH-13** Increase the U.S. population served by community water systems with optimally fluoridated water; **OH-14.2** and **14.3** Increase

adults who received an oral and pharyngeal cancer screening; referred for glycemic control from a dentist or hygienist



Data not available for Michigan, Lapeer. No new data collected on Oral Health since 2018 Michigan Profile for Healthy Youth https://mdoe.state.mi.us/schoolhealthsurveys/ExternalReports/CountyReportGeneration.aspx

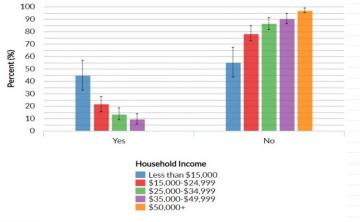
No

Figure 112: Adults Have Visited Dentist/Dental Clinic in Past Year, Michigan 2020, by Income

Age Group 18-24 25-34 25-34 35-44 45-54 55-64

65+

Figure 113: Adults age 65+ who have had all their natural teeth extracted Michigan 2020, by Income



Footnote

Prevalence estimate not available if the unweighted sample size for the denominator was < 50 or the Relative Standard Error (RSE) is > 0.3 or if the state did not collect data for that calendar year.

Behavioral Risk Factor Survey

80 70

60

50 Percent (%)

40

30

20

10

0

https://www.cdc.gov/brfss/brfssprevalence

Yes

MICHIGAN THUMB PUBLIC HEALTH ALLIANCE MICHIGAN THUMB 2023 HEALTH ASSESSMENT

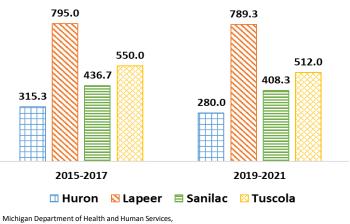
Maternal and Child Health

SCOPE OF THE PROBLEM

The health of the next generation predicts the future challenges for public health systems, as well as challenges to our society and local communities. Preventing unhealthy pregnancy outcomes allows for decreasing rates of disability and death, and provides for a population of healthier adults. (Rural Healthy People 2020, Vol I).

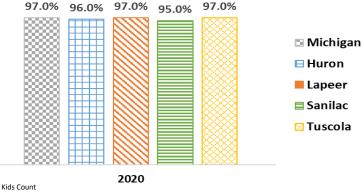
Many factors impact maternal and child health including health prior to conception, availability of prenatal and pediatric healthcare, access barriers to healthcare, poverty, and chronic stress. Smoking while pregnant, less-thanoptimal pregnancy weight (on either end of the scale), and poverty may contribute to poorer rural maternal, infant, and child health outcomes. Low birth weight is defined as birth weight of less than 2,500 grams, or five pounds and eight ounces. Low birth weight has two causes – the infant is born too small due to intrauterine growth restriction, or the infant is born at a low gestational age. The latter is described as preterm birth (PTB), which is any birth before 37 weeks gestation. Both are important predictors of infant mortality. Very rural geographic areas and urban centers with concomitant poverty and unemployment have the highest rates of infant mortality. (Kotch JB)

Figure 114: Number of Live Births (3-year average)



https://vitalstats.michigan.gov/osr/chi/IndexVer2.asp#Counties

Figure 115: % of Children 0-18 Who are Insured



https://datacenter.kidscount.org/data/customreports/3775%2C3787%2C3819%2C3822/any

Figure 116: % of Live Births to Women with Late or No Prenatal Care

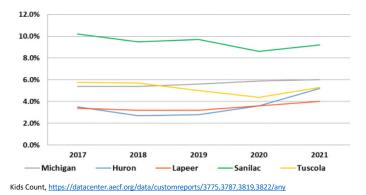
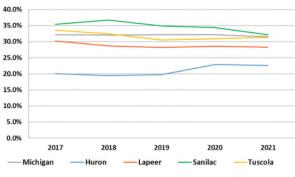


Figure 117: % of Live Births to Women with Less than Adequate Prenatal Care



Kids Count, https://datacenter.aecf.org/data/customreports/3775,3787,3819,3822/any

Related Healthy People 2030- Objectives

MICH-8 Reduce low birth weight (LBW) and very low birth weight (VLBW); MICH-9.1 Reduce total preterm births



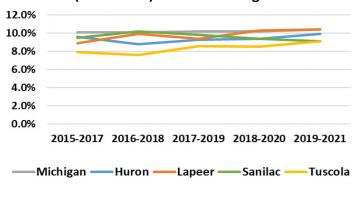


Figure 118: % of Live Births that are Preterm (<37 weeks) – 3 Year Average

Michigan Department of Health and Human Services https://vitalstats.michigan.gov/osr/CHI/births14/frameBxChar.html



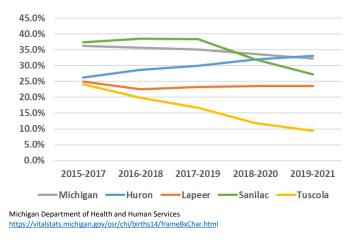
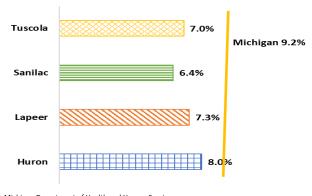
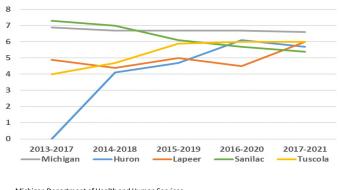


Figure 122: Low Birth Weight, 2019-2021 - 3 Year Average



Michigan Department of Health and Human Services https://vitalstats.michigan.gov/osr/chi/births14/frameBxChar.html

Figure 119: Infant Mortality 3-year Average Number of Deaths



Michigan Department of Health and Human Services https://vitalstats.michigan.gov/osr/chi/IndexVer2.asp#Counties

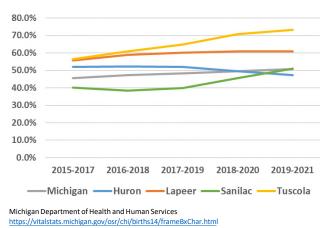
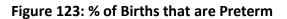
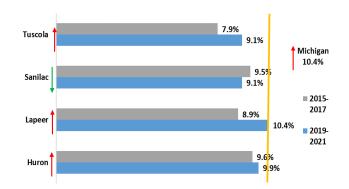


Figure 121: % of Mothers Initiated Breastfeeding

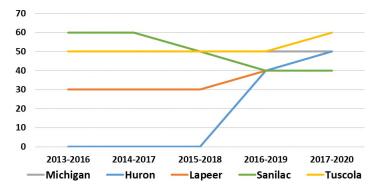




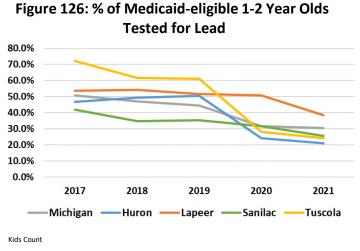
Michigan Department of Health and Human Services https://vitalstats.michigan.gov/osr/CHI/births14/frameBxChar.html



Figure 124: Child Mortality Rate/100,000 Children < age 18

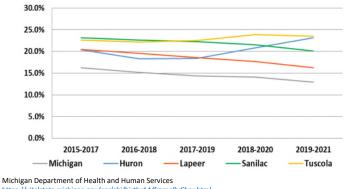


County Health Rankings – University of Wisconsin Population Health Institute www.countyhealthrankings.com



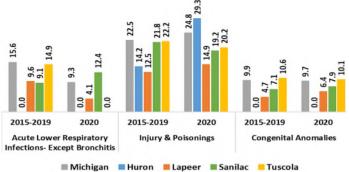
https://datacenter.aecf.org/data/customreports/3775,3787,3819,3822/any

Figure 128: % of Live Births to Women who Smoked During Pregnancy



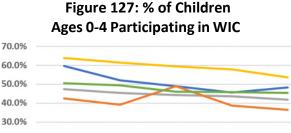
https://vitalstats.michigan.gov/osr/chi/births14/frameBxChar.html

Figure 125: Top Three Hospitalizations Rate/10,000 for those <age 18 (Excludes Newborns & Neonates less than 7 days)



Michigan Department of Health and Human Services https://vitalstats.michigan.gov/osr/CHI/HOSPDX/FRAME.HTMI

* Rate not calculated as there were less than 6 cases for the specified period



2019

2020

-Sanilac ---- Tuscola

2021

Michigan — Huron – Lapeer -Kids Count Data Center Custom Report

2018

https://datacenter.aecf.org/

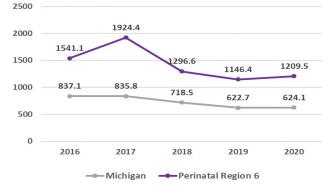
2017

20.0%

10.0%

0.0%

Figure 129: Neonatal Abstinence Syndrome Rate/100,000 Births; Michigan Perinatal Region 3



Michigan Resident Live Birth Files Linked with Michigan Hospital Discharge Data, Division for Vital Records and Statistics, Michigan Department of Health and Human Services https://www.michigan.gov/mdhhs/-/media/Project/Websites/mdhhs/MCH-Epidemiology/NAS-by-Prosperity-May-2022.pdf?rev=57fc91b8634c4b1ea506d685032d2794&hash=CD5ABA386DC56816707C3457F5497B1D

MICHIGAN THUMB

Family Planning and Reproductive Health

SCOPE OF THE PROBLEM

Sexual and reproductive health is more than simply the absence of sexual and reproductive disease and dysfunction. A healthy sexual and reproductive state encompasses physical, emotional, mental, and social well-being as it relates to sexuality (Rural Healthy People 2020, Vol II). In rural areas, leaders nationwide have identified access to reproductive health services and lack of reproductive health education and awareness of sexual risks as priorities.

Reproductive health outcomes that are often monitored include unintended pregnancies, adolescent pregnancy, sexually transmitted infections and diseases, and risk behaviors for pregnancy and disease transmission. Behavioral risks include multiple partners, not using contraception, use of drugs or alcohol, and risk associated with internet relationships. Untreated STDs can have greater consequences including low birth weight, preterm births, infection of infants during birth, infertility, and even death. Disparities in rural areas vary geographically across the nation but include access to services, later detection of disease, higher rates of pregnancy, younger and teen pregnancies, and lower utilization of contraception and testing services. Issues related to sexual orientation may be more pronounced in rural areas and can result in greater sexual risks among members of the lesbian, gay, bisexual, and transgender (LGBT) community. Fear and stigma in some rural communities may deter the LGBT community from seeking reproductive health services and result in increased emotional stress.

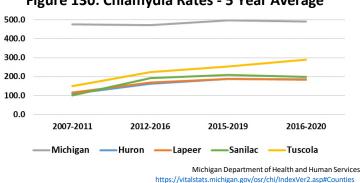
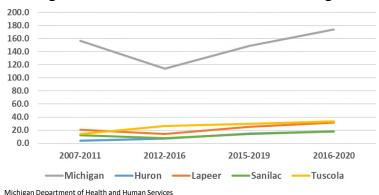


Figure 130: Chlamydia Rates - 5 Year Average





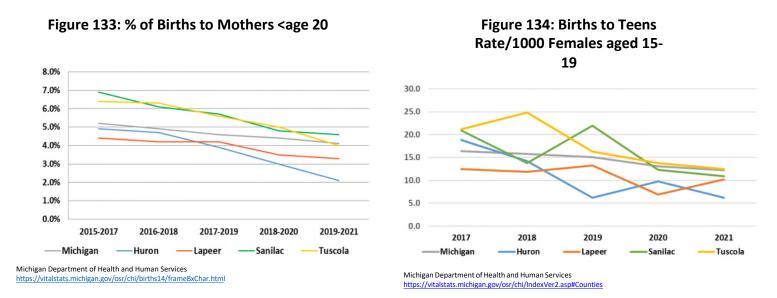
https://vitalstats.michigan.gov/osr/chi/IndexVer2.asp#Counties

Figure 132: HIV Prevalence 250 200 150 100 50 0 2015 2016 2018 2019 2020 Michigan Huron Sanilac Tuscola Lapeer

County Health Rankings – University of Wisconsin Population Health Institute

Related Healthy People 2030- Objectives

FP-3 Increase the proportion of publicly funded family planning clinics that offer the full range of Federal Drug Administrationapproved methods of contraception; FP-7 Increase the proportion of sexually experienced persons who received reproductive health services; FP-8 Reduce pregnancies among adolescent women; HIV-2 Reduce the number of new HIV infections among adolescents and adults; HIV-3 Reduce the rate of HIV transmission among adolescents and adults; HIV-14 Increase the proportion of adolescents and adults who have been tested for HIV in the past 12 months



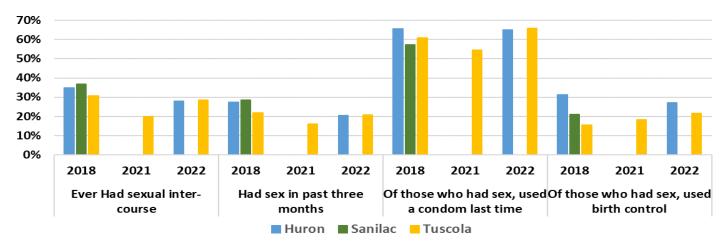


Figure 135: 9th and 11th Grade Self-Reported Sexual Activity

Michigan Profile for Healthy Youth. Data not available for Michigan, Lapeer. https://mdoe.state.mi.us/schoolhealthsurveys/ExternalReports/CountyReportGeneration.aspx

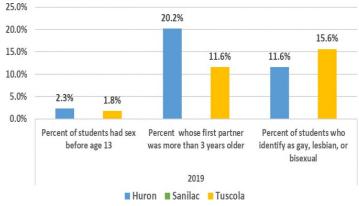
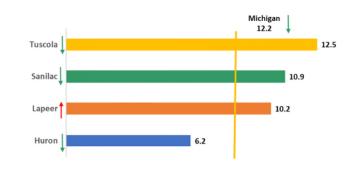


Figure 136: 9th and 11th Grade Sexual Behaviors

Michigan Profile for Healthy Youth. Data not available for Michigan, Lapeer, or Sanilac for 2019. https://mdoe.state.mi.us/schoolhealthsurveys/ExternalReports/CountyReportGeneration.aspx

Figure 137: 2021 Teen Birth Rate/1000



Michigan Department of Health and Human Services https://vitalstats.michigan.gov/osr/chi/IndexVer2.asp#Counties



Education and Community Programs

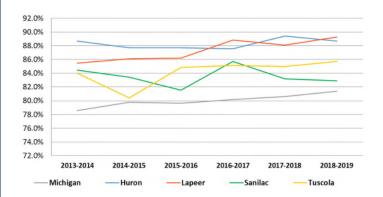
SCOPE OF THE PROBLEM

Adequate health education programs are essential to increasing healthy behaviors in rural communities. Many theories of change include requiring individuals and organizations to have access to information and skills to make necessary changes. Education in three settings is especially important to shifting the health of rural Americans: Schools, Worksites, and Communities. While objectives have been established for each of these settings, the data to measure progress is not easily accessible. The primary barrier to education and community-based programs is the general lack of resources in rural communities (Rural Healthy People 2020, Vol II). Small populations and therefore a low volume market in rural communities, means that many organizations cannot afford staff to carry out education and community-based programs. These responsibilities are often incorporated into the role of existing staff that already wear multiple hats and have limited time for assigned responsibilities.

When staff is hired or designated to provide these programs, they are often shared between multiple sites, programs, or organizations and staff often encounter significant travel time to provide programs. Socio- economic barriers also exist in rural communities that limit access to and understanding of information. Lower general education levels create a barrier for understanding health information and building necessary skills. In addition, a high middle/lowincome population that does not have access to worksite education often does not have flexibility to leave work for education programs. They may be working shifts that make it difficult for employees to attend existing education programs. Reliable transportation is also a major barrier to attending programs in rural areas. There is limited publicly accessible data related to the Healthy People 2020 Objectives on Education and Community Based Programs. Questions that could be researched to assess progress at the local level include:

- How is health education incorporated into the PreK- 12 curriculums in each school district?
- What schools have a school Registered Nurse and what is the school Nurse to student ratio?
- What is the extent to which worksites provide health promotion programs and events?
- To what extent are community organizations providing population based primary prevention programs?
- How are local public health departments providing culturally appropriate programs?
- Are there medical continuing education programs including prevention in the local area?

Figure 138: Graduations Rates: % of 9th Grade Students that Graduate in 4 years



Michigan Department of Education www.mischooldata.org

Related Healthy People 2030- Objectives

School-based objectives: Increase Early Head Start and Head Start health education programs to prevent health problems; Increase elementary, middle, and senior high schools health education programs to prevent health problems, that have health education goals or objectives, and that have registered school nurse to student ratio of 1:750; Increase high school graduation completion; increase college and university students who receive health risk behavior information

Worksite-based objectives: Increase worksites with employee health promotion programs; Increase the number of employees who participate in employer sponsored health promotion activities

Community-based organization objectives: Increase community-based organizations providing population-based primary prevention services; Increase health departments with culturally and linguistically appropriate programs

Immunizations and Infectious Disease

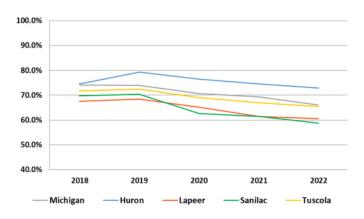
SCOPE OF THE PROBLEM

Infectious diseases are caused by organisms — such as bacteria, viruses, fungi or parasites. Vulnerable populations with underdeveloped or weakened immune systems such as the elderly, children, or those with other illnesses, have the greatest risk of complications from infectious disease. In the United States, approximately 300 children and 42,000 adults die from infectious diseases annually (Office of Disease Prevention and Health Promotion, Immunization, and Infectious Diseases). A distinguishing characteristic of infectious diseases, unlike diabetes or heart disease, is that they are passed from one person to another through direct or indirect contact. Some infectious diseases are easier to transmit than others. Foodborne illness for example can be passed through unsafe food handling and the common cold can be transmitted through casual contact. Other infectious diseases such as Hepatitis C are blood borne and can only be transmitted through contact with blood or body fluids. The control of infectious diseases has increased due to a variety of factors:

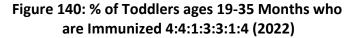
- Food handling regulations and education,
- Control of germs through handwashing and sanitation,
- Prevention of infection through immunizations,
- Universal precautions and safer sex practices to reduce exposure to blood borne infectious disease.

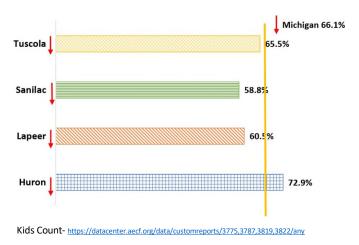
Through immunization, some diseases such as polio have been almost eradicated with 80% of the world population living in polio free regions. Even with these improvements, there are still challenges in many rural areas including mobility among certain subpopulations, poor access to care, cultural norms, impoverished communities, and a high elderly population in rural areas.

Figure 139: % of Toddlers ages 19-35 Months who are Immunized (4:4:1:3:3:1:4)



Kids Count-https://datacenter.aecf.org/data/customreports/3775,3787,3819,3822/any





Related Healthy People 2020- Objectives

IID-1 Reduce, eliminate, or maintain elimination of vaccine-preventable diseases; **IID-7** Achieve and maintain effective vaccination coverage for universally recommended vaccines amount young children; **IID-8** Increase children aged 19 to 35 months who receive the recommended doses of diphtheria-tetanus-pertussis, polio, measles-mumps-rubella, Haemophilus-influenza type B, hepatitis B, varicella, and pneumococcal conjugate vaccine; **IID-9** Decrease children in the United States who receive 0 doses of recommended vaccines by age 19 to 35 months; **IID-10** Maintain vaccination coverage levels for children kindergarten; **IID-11** Increase routine vaccination coverage for adolescents; **IID-12** Increase the percentage of children and adults who are vaccinated against seasonable influenza; **IID-16** Increase the scientific knowledge on vaccine safety and adverse events; **IID-29** Reduce tuberculosis

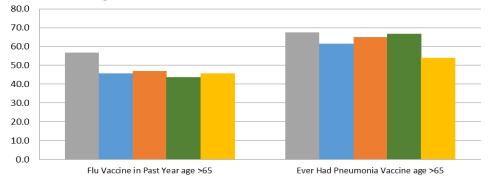


Figure 141: Adult Vaccinations, 2019-2021 from BRFS

Figure 142: County Quarterly Immunization Report Card - Data as of June 30, 2023

	Huron	Lapeer	Sanilac	Tuscola	Michigan	HP 2020 Goal
19 through 35 months	%	%	%	%	%	%
Birth Dose Hep B coverage	x	x	x	x	x	85%
4313314 coverage†	74.5	60.4	59.4	65.6	65.9	80%
43133142 coverage†	60.2	47.9	43.5	54.2	52.4	-
2+ Hep A	63	49.6	45.8	56.5	54.3	85%
4+ DTaP	77.5	70.2	63,1	69.7	68.9	90%
PCV Complete	82.5	73.2	70.4	73.6	74.4	0.9
Rota. Complete ^{††} (8-24 months)	70.6	59.7	57.9	59.6	64.4	
WIC coverage (4313314)	82.7	65.6	69.4	73.6	71.7	
Medicaid coverage (4313314)	72.4	62.1	65.4	68.1	66.4	
13 through 17 years	Huron	Lapeer	Sanilac	Tuscola	Michigan	
132321 coverage‡	79.3	75.0	76.7	79.7	72.9	
1323213 coverage‡	42.4	31.9	35.6	39.5	42.6	
1+Tdap	82.0	79.2	79.7	82.6	75.7	80%
1+ MenACWY	81.8	78.6	79.6	82.2	76.6	80%
HPV Comp-Females	45.1	32.3	38.9	40.4	45.2	80%
HPV Comp (Males)	41.7	33.0	34.6	40.4	42.9	0.80
MenACWY Completett (17 yrs)	32.1	37.0	39.5	34.8	41.9	-
MenB (16 through 18yrs)	27.9	21.4	26,4	22.9	25.7	
Adults (Census Denominators)	Huron	Lapeer	Sanilac	Tuscola	Michigan	
1+ Tdap (19-64yrs)	52.4	40.3	45.6	48.4	51.3	4
1+ PPSV23 (65+ yrs)	52.3	37.7	45.6	44.8	49.6	
Zoster (50yrs+)	35.2	28.3	28.0	32.1	32.3	
Composite Measure	9.7	5.1	5.7	6.4	8.5	0.30
2019-20 Flu Season	Huron	Lapeer	Sanilac	Tuscola	Michigan	
Flu Completett (6mos-8yrs)	20.9	10.6	9.3	13.2	23.8	70%
1+ Flu (6mos through 17yrs)	18.2	11.5	10.6	13.0	23	70%
1+ Flu (18yrs+)	34.1	24.7	27.0	28.3	32.1	0.70
School/Reports	Huron	Lapeer	Sanilac	Tuscola	Michigan	
School Completion	89.7	86.2	92.0	90.9	91.4	1
Percent Waived (K+7+O)	7.2	11.8	5.9	6.3	4.9	
Child Care Complete	82.4	79.4	87.0	87.7	85.1	
Percent Waived	4.0	7.5	5.8	3.0	3.3	

Conditional Formatting; highlight cells; based on values; 3 color

Green = Goal

Yellow=Within 5% of Goal Red=Not within % of Goal

Michigan Department of Health and Human Services https://www.michigan.gov/mdhhs/0,5885,7-339-73971_4911_4914_68361-321114--,00.html *% difference in the county since last report card; Flu data shows difference since 2021-22 mid influenza season; School and CC difference between annual reports X - Coverage was omitted because of a possible delay in electronic birth file reporting, † 4313314(2): 4 DTaP,

3 Polio, 1 MMR, 3 Hib, 3 HepB, 1 Varicella, 4 PCV, (2 HepA) ‡ 132321(3): 1 Tdap, 3 Polio, 2 MMR, 3 HepB, 2 Var, 1 MenACWY, (2 or 3 HPV doses-Males & Females) § Updated to reflect updated ACIP recommendations for adults:

https://www.cdc.gov/mmwr/volumes/71/wr/mm7104a1.htm?s_cid=mm7104a1_w **Age based assessment of adults for flu (19yrs+), tetanus (19yrs+), HPV completion (19-26yrs), HepB (19-59yrs), zoster (50yrs+), and pneumo (55yrs+) a Data from: https://www.cdc.gov/usc/inse/imv.amagagrs/coversare/https://www.cdc.gov/tas/epots/7_

https://www.cdc.gov/vaccines/imz-managers/coverage/childvaxview/data-reports/7series/trend/index.html b Data from:

https://www.cdc.gov/mmwr/volumes/70/wr/mm7035a1.htm c Data from: https://www.cdc.gov/mmwr/volumes/66/wr/mm6627a4.htm d Data from Healthy People (HP) 2030: https://health.gov/healthypeople

[■] Michigan ■ Huron ■ Lapeer ■ Sanilac ■ Tuscola Michigan Department of Health and Human Services: <u>http://www.michigan.gov/mdhhs/0.5885,7-339-71550_5104_5279_39424-134707--,00.html</u> Data for Huron and Sanilac were suppressed due to a denominator < 50 and/or a relative standard error > 30%.

Public Health Infrastructure

SCOPE OF THE PROBLEM

The public health infrastructure is responsible for protecting people's health and safety, providing credible information for better health decisions, and promoting good health through a network of partnerships (Center for Disease Control). Rural health disparities in public health infrastructure are prominent in comparison to urban settings. Several limitations exist within rural public health organizations, these include small workforces, restricted finances, inadequate data and information systems, lack of standardization in law and policy, and an absence of formalized structure in public health (NORC Walsh Center for Rural Health Analysis). Challenges to public health infrastructure include an expansion of public health responsibilities in the direction of population health outcomes while at the same time many governmental resources are shrinking. In the future, three key factors that will distinguish successful public health agencies from struggling public health agencies:

- ability to diversify funding sources,
- ability to identify community needs and advocate for resources to meet those needs, and
- ability to create collaborative linkages with other healthcare providers.

Successful public health agencies must address the challenges of maintaining an educated and skilled workforce, adequate data and information systems, and the ability to carry out the essential services of public health agencies (Rural Healthy People 2020).

Healthy People 2020 identified five primary areas of concern that related to local public health departments:

- 1) Local Health Department Community Health Improvement Plans
- 2) Disease Prevention and Surveillance
- 3) Integrated Data Management for Environmental Health
- 4) Laboratory Capacity
- 5) Emergency Preparedness

<u>Workforce</u>	Data and Information Systems	Public Health Organizations
Core	Tracking of HP 2020	State-comprehensive
Competencies	Objectives	laboratory services
Public Health		State-comprehensive
Accredited Schools	Recording of Vital Events	epidemiology
		LHD Use of National
		Performance
		Standards (as
	Application of Telehealth	applicable)
		LHD Accreditation

Figure 143: Aspects of Public Health Infrastructure



Source⁹: Public Health Functions Steering Committee, Adopted Fall 1994. Available at: http://www.cdc.gov/ nphpsp/essentialservices.html

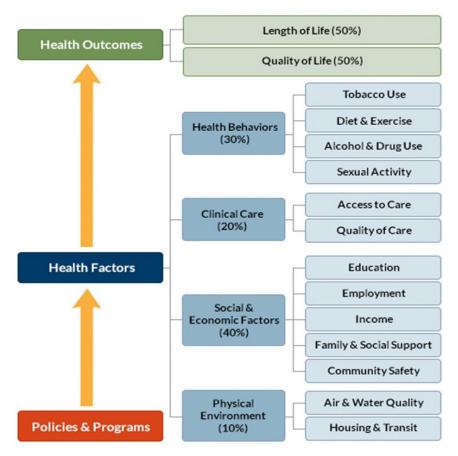
Related Healthy People 2020- Objectives (related to local public health)

PHI-1 Increase local public health agencies that incorporate Core Competencies for Public Health Professionals into job descriptions and performance evaluations; PHI-13 Increase the proportion of local public health agencies that provide or assure comprehensive epidemiology services to support essential public health services; PHI-14 Increase the proportion of local public health jurisdictions that conduct a public health system assessment using national performance standards; PHI-17 Increase the proportion of local public health agencies that are accredited

Section III. Regional and Local Priorities

Setting the Stage for Health Improvement

What impacts the health and well-being of our community²? Data is very powerful to identify factors which contribute to health in our community. A population health approach strives to improve the health outcomes of a group of individuals. In national studies of data by County Health Rankings, there are common elements that have been identified and are outlined on the illustration below. In the county health ranking model, both the length of life and quality of life are equally important. Data shows that certain health factors have a predictive value on both the length and quality of life. Social and economic factors have the highest degree or correlation closely followed by health behaviors. Clinical care accounts for approximately 20% of health outcomes and the environment 10%.



This data is important to the way resources are allocated and direction of programs. It is critically important to ensure that all residents have a healthy environment in which to live and access to high quality healthcare. However, without addressing health behaviors and the social and economic factors of a population, progress on health outcomes will be limited.



² <u>www.countyhealthrankings.org</u> The County Health Rankings & Roadmaps program is a collaboration between the Robert Wood Johnson Foundation and University of Wisconsin Population Health Institute.

Douthit, N., Kiv, S., Dwolatzky, T., & Biswas, S. (2015). Exposing some important barriers to health care access in the rural USA. Public Health, 129(6), 611–620.

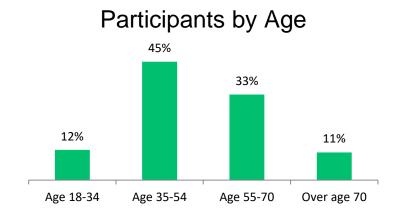
Community Input

CARE Connect Focus Groups and Survey

Securing community input stands as a crucial stage in the process of effective Community Health Improvement Planning

The Michigan Thumb Public Health Alliance formed a Task Force of people with lived experience and from grassroots organizations. A survey was co-designed and opted to concentrate collecting community input from specific populations who had limited voice. Through provider listening sessions, referral mapping, action planning, vulnerable populations focus groups and surveys, prevalent health concerns and community perspectives were extensively examined. The survey highlighted quantitative data on access barriers to healthcare, mental health challenges, and lifestyle-related ailments, while focus groups delved into qualitative insights such as cultural influences and attitudes impacting health behaviors. Across all four counties, 203 individuals participated in the focus group and/or survey.

Figure 144: Survey Participants by Age

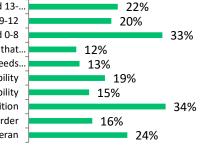


2022 CARE Connect Focus Group and Survey

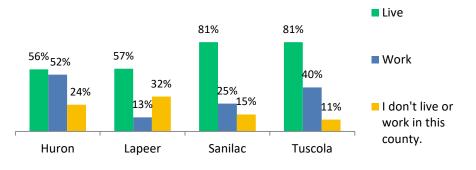
Figure 145: Participants by Vulnerable Population

Participants by Population

A family with at least one child aged 13-... A family with at least one child aged 9-12 A family with at least one child aged 0-8 A family member over age 75 that... A family member aged 65-75 that needs... Someone with a physical disability Someone with a learning disability Someone with a learning disability Someone with a substance use disorder A Veteran



2022 CARE Connect Focus Group and Survey Figure 146: Survey Participants by County



Where do you live or work?

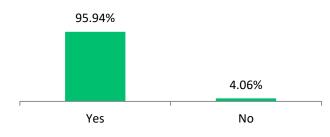
2022 CARE Connect Focus Group and Survey



Figure 147: Technology Device Access

Figure 148: Internet Access

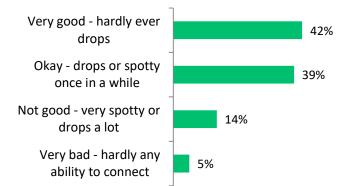
Do you have your own device (phone, tablet, laptop) to access the internet?



2022 CARE Connect Focus Group and Survey

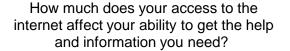
Figure 150: Internet Reliability

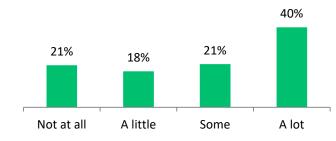
How reliable is the connection to the internet that you use the most?



2022 CARE Connect Focus Group and Survey

Some communities have a person who can help people work on their needs one at a time. They can help make appointments and figure out barriers like transportation. Sometimes they are called Community Health Workers.

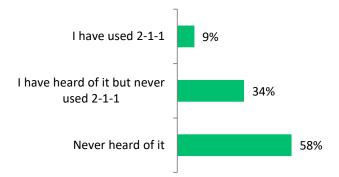




2022 CARE Connect Focus Group and Survey

Figure 152: 2-1-1 Knowledge

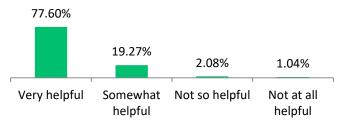
How much do you know about 2-1-1?



2022 CARE Connect Focus Group and Survey

Figure 153: Community Health Workers

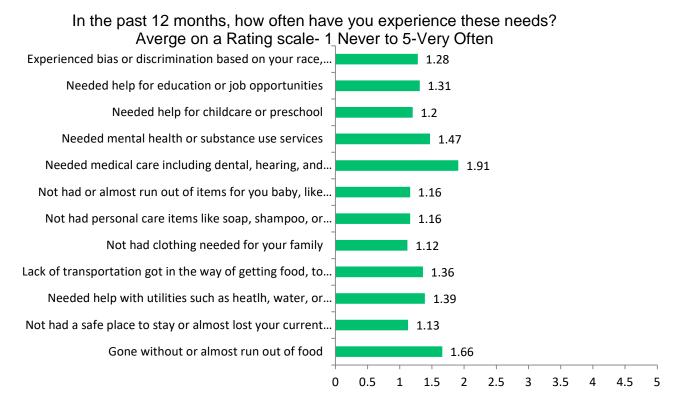
If more community health workers were available in the Thumb, how helpful do you think this would be?



2022 CARE Connect Focus Group and Survey



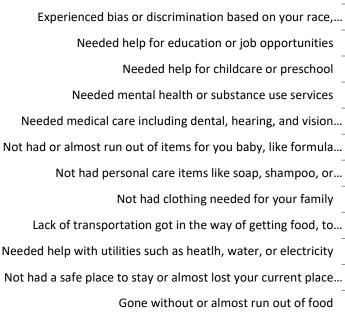
Figure 149: Needs in Past 12 Months

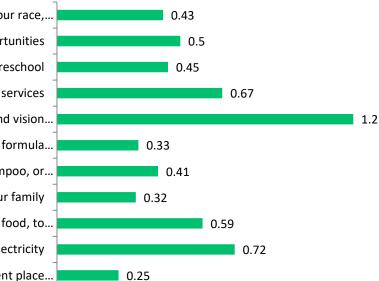


2022 CARE Connect Focus Group and Survey

Figure 151: Access to Resources

How hard was it for you to get the help you needed? Average rating on a scale- higher number the harder to get help.





2022 CARE Connect Focus Group and Survey

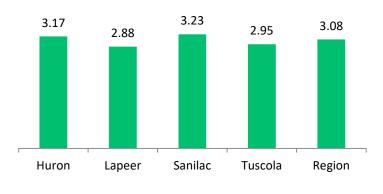
0.93

2021 Thumb Community Health Survey

In 2021, the Thumb Community Health Partnership conducted a survey involving 1173 participants within the Thumb region. The survey gathered insights on strengths and areas for improvement. Using a scale of 1 to 5, where 1 signified the weakest and 5 indicated the strongest, the results highlighted several aspects. Our community members were recognized for being friendly, helpful, and supportive—a notable strength. Concerns regarding mental health and chronic diseases emerged as primary health issues. Strengths were identified in the domains of Primary Care and the caring nature of healthcare providers. However, the availability of substance use providers was noted as an area needing improvement, alongside concerns about financial resources.

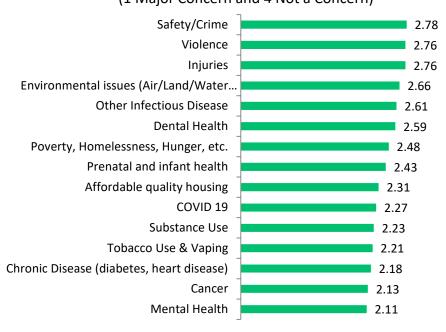
Figure 154: Supportive Community

Friendly, helpful, and supportive people



2021 Thumb Community Health Survey

Figure 155: Health Concerns



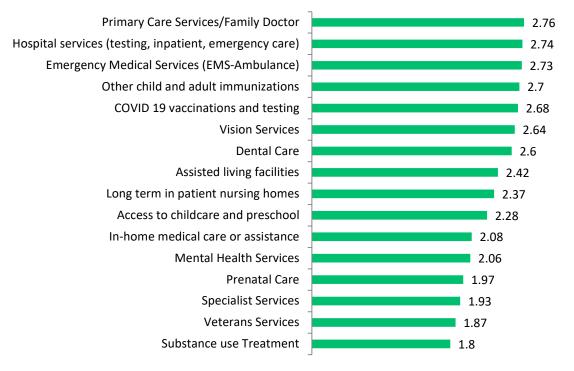
Community Concerns-Thumb Region (1 Major Concern and 4 Not a Concern)

2021 Thumb Community Health Survey



Figure 156: Strength of Service System

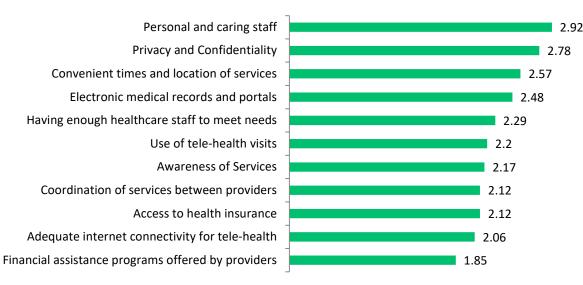
Service System Strengths and Weaknesses (1 Major Weakness & 4 Major Strength)



2021 Thumb Community Health Survey

Figure 157: Strength of Service System Providers

Service System Strengths & Weaknesses (1 Major Weakness and 4 Major Strength)



2021 Thumb Community Health Survey

2023 Chronic Disease Listening Session

Three chronic disease listening sessions were held in region 6, engaging forty-two participants. The majority, 93%, identified as white, with 64% being over 65 years old, and more than half having personal experience with chronic illness. Among the concerns raised, transportation, air quality, and access to information emerged as the most pressing issues. Strengths included walking trails, community gardens and farmers markets.

> " My mother-in-law has a Social Security Disability. She only gets \$20 a month for food stamps -\$20 doesn't cover anything in this day and age."

Food Security Concerns Food-related concerns encompassed restricted access to full-size grocery stores, a lack of healthy choices, and elevated prices. Throughout the pandemic, the availability of delivery services from stores proved immensely beneficial. Emergency food pantries were noted to have limited variety. Challenges were identified in comprehending income eligibility for state support programs and navigating complex application processes.

" I can't hold a job because I never know how I'll feel from one day or next. "

Health Security Concerns

Participants expressed frustration over the scarcity of specialty healthcare providers in the area, particularly in mental health services where the demand outweighs availability. Barriers to care were highlighted, including electronic communication issues and difficulties in using applications for accessing healthcare services.

"We don't really have anything around here for winter at all."

Built Environment

Participants expressed interest in increased opportunities for affordable physical activity, especially during winter. Transportation challenges were identified as barriers, particularly for older adults seeking housing. Inadequate sidewalks posed challenges to accessibility. Concerns were raised regarding the limited availability of recreational activities and job opportunities, potentially impacting talent retention, local economy, and community well-being.

Acknowledgements

The Michigan Thumb Public Health Alliance would like to acknowledge many people for their contributions to this report.

- Huron County Health Department Staff
- * Members Lapeer County Health Department
- Staff Members Sanilac County Health
- Department Staff Members Tuscola County Health Department Staff Members
- Michigan Department of Health and Human Services-Cross Jurisdictional Sharing Project with funding made available through grant from MDHHS Preventive Health and Health Services Block Grant.
- 2021 and 2023 Thumb Community Health Survey participants
- * Community Conversation Participants
- Everyday Life Consulting, LLC
- * CARE (Communities and Residents Empowered) Connect Taskforce
- Thumb Community Health Partnership

Thank you for taking the time to read and comment on the 2023 Thumb Community Health Assessment Report.



www.mithumbpha.org

For more information, please contact one of the following:

- Kay Balcer, Director Michigan Thumb Public Health Alliance and Thumb Community Health Partnership, 989-553-2927 or <u>thumbhealth@gmail.com</u>
- Huron County: Tip MacGuire, 989-269-9721, or tmacguire@hchd.us
- Lapeer County: Kathy Haskins, 810-667-0448 or khaskins@lapeercounty.org
- Sanilac County: Bryant Wilke, 810-648-4098 or wilkeb@sanilachealth.com
- Tuscola County: Amanda Ertman, 989-673-8114 or aertman@tchd.us