NORTH SHORE COMMUNITY HEALTH ASSESSMENT

2022-2026



TABLE OF CONTENTS

Introduction	1
Our Approach to the Community Health Assessment	2
What Influences Health?	3
Community Survey Results	4-5
Key Informant Interviews	6-8
North Shore Community Profile	9-10
Health Outcomes	
Births	11
Mortality	12
Chronic Disease	13
Communicable Disease	14
COVID-19	15
Mental Health	16
Substance Use	17
Healthy Aging	18
Social and Economic Factors	
Income & Poverty	19
Education & Employment	20
Social Vulnerability Index	21
Family & Social Supports and Community Safety	22
Structural Determinants of Health	23
Health Behaviors	
Nutrition & Physical Activity	24
Sexual & Reproductive Health	25
Substance Use	26-27
Clinical Care	28-29
Physical Environment	
Air & Water Quality	30
Climate Change & Public Health Preparedness	31
Neighborhood & Built Environment	32
Acknowledgements	33
Moving Forward	34
Sources	35-36

INTRODUCTION



The North Shore Health Department (NSHD) started the North Shore Community Health Assessment (CHA) in early 2022. This process involved collecting data on health outcomes and the factors that influence health in the seven municipalities we serve. Given that the CHA was started two years after the onset of the COVID-19 pandemic, we recognized this as a unique opportunity to evaluate the health of our communities and redefine our role according to the Public Health 3.0 model.

Public Health 3.0 calls for a new approach to public health in the 21st century and declares that "public health is what we do together as a society to ensure the conditions in which everyone can be healthy" (DeSalvo et al., 2017). This involves collaborating across sectors and with community partners to address the social and environmental determinants of health that influence the health of our community. It is a goal of Public Health 3.0 for public health leaders to serve as **Chief Health Strategists** for their communities to ensure that **equity** and the **social determinants of health** act as guiding principles in community initiatives and policies.

A key function of the Chief Health Strategist is providing **actionable data** that can be used to guide population health efforts and assess the impact of these efforts on the health of the community. This is why regularly completing a Community Health Assessment (CHA) is critical to achieve Public Health 3.0.

As a department, we are proud to present the 2022-2026 North Shore Community Health Assessment, which will serve as a foundation for the development of strategies and programs to improve health outcomes in the North Shore.



Wisconsin State Statute (Ch. 251.05) and Public Health Accreditation Board requirements call for local health departments to conduct a comprehensive community health assessment at least every five years. Additionally, since 1993, Wisconsin State Statutes have required health departments to lead the development of Community Health Improvement Plans, which address the priority community health issues based on CHA findings.

OUR APPROACH TO THE Community Health Assessment

There are three components that make up the North Shore CHA. The first two are primary data, which are data collected directly by our department.

Community Survey



When you see this graphic in the CHA, primary data from our community survey is being shared.

The Community Survey was conducted by our department from June to September 2022 with the goal of identifying the most critical health concerns and needs in the North Shore.



Key Informant Interviews



When you see this graphic in the CHA, primary data from our key informant interviews is being shared.

We interviewed a total of 57 key informants from July to September 2022. Interviewees were asked to compare the health status of the North Shore before COVID-19 to present, what they perceive to be the most critical health issues in the North Shore, and to provide insight on how to improve the health of the community.

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Secondary Data

Data taken from pre-existing online sources are included in this report to gain an understanding of the current health status of the North Shore and describe the factors that are influencing health. Any data in this report that is not from our community survey or key informant interviews is secondary data. The list of secondary data sources we utilized is included at the end of this report.

Public Health 3.0

"Public health is what we do together as a society to ensure the conditions in which everyone can be healthy."

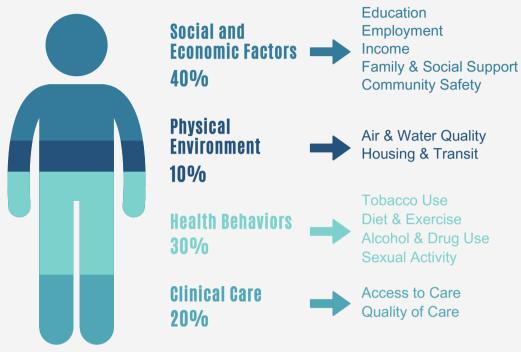
DeSalvo KB, Wang YC, Harris A, Auerbach J, Koo D, O'Carroll P. Public Health 3.0: A Call to Action for Public Health to Meet the Challenges of the 21st Century. Prev Chronic Dis 2017;14:170017.

WHAT INFLUENCES HEALTH?

The County Health Rankings Model

The factors that influence health outcomes are broken down into four categories in the *County Health Rankings Model.* Each category is given a percentage based on how much the factors within that category impact health.

About 40% of an individual's health can be attributed to Social and Economic Factors, 10% to Physical Environment, 30% to Health Behaviors, and 20% to Clinical Care.



County Health Rankings & Roadmaps (CHR&R), a program of the University of Wisconsin Population Health Institute

Social Determinants of Health Healthy People 2030

"Social determinants of health (SDOH) are the conditions in the environments where people are born, live, learn, work, play, worship, and age that affect a wide range of health, functioning, and quality-of-life outcomes and risks."

Structural Determinants of Health

Further upstream from the SDOH are the structural determinants of health. Structural determinants include the governing process, economic and social policies that affect the social determinants, including income, working conditions, housing, and education. These factors affect whether resources for good health are shared **equitably** or not among different groups, based on things like race, gender, or social class.



Healthy People 2030, U.S. Department of Health and Human Services, Office of Disease Prevention and Health Promotion. Retrieved February 1, 2023.

Solar O, Irwin A. A conceptual framework for action on the social determinants of health. Geneva, Switzerland: WHO; 2010. [September 22, 2016].

Equity means that everyone has a fair and just opportunity to access what they need to thrive.

COMMUNITY SURVEY RESULTS

Our community survey was open from June 2022 to September 2022. In the survey, we asked community members to identify their top three health concerns and top three health needs in the North Shore. We also collected demographic information, inquired about the impacts of COVID-19, and asked questions about access to health services for children.

A disproportionately small number of survey respondents were from Brown Deer or Glendale (23.8% compared to 38.2% of the population)

Shorewood	212 (27.9%)
Whitefish Bay	169 (22.2%)
Brown Deer	101 (13.3%)
Glendale	80 (10.5%)
Bayside	61 (8.0%)
Fox Point	59 (7.8%)
River Hills	14 (1.8%)
Other	65 (8.5%)

Community	% of North Shore Population
Shorewood	20.5%
Whitefish Bay	22.1%
Brown Deer	18.5%
Glendale	19.7%
Bayside	6.6%
Fox Point	10.2%
River Hills	2.4%

A disproportionately large number of survey respondents were 70 years and above (24.0% compared to 13.1% of the population)

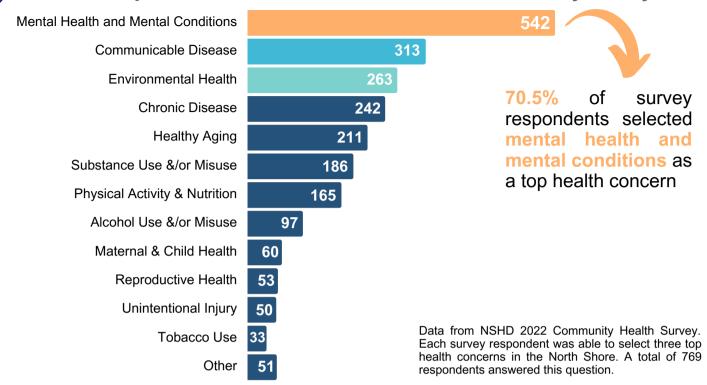
Age	Bayside	Brown Deer	Fox Point	Glendale	River Hills	Shorewood	Whitefish Bay	Other	Grand Total	%
18 to 29	<5	<5	0	<5	0	15	<5	8	35	4.5%
30 to 39	8	7	13	13	<5	25	37	13	118	15.3%
40 to 49	10	9	14	14	<5	22	45	17	133	17.3%
50 to 59	8	16	6	13	<5	39	36	11	132	17.1%
60 to 69	16	38	12	15	<5	38	27	16	163	21.1%
70+	17	27	14	23	5	71	18	10	185	24.0%
Prefer not to answer	0	<5	0	0	0	<5	<5	<5	5	0.6%

A disproportionately large number of survey respondents were White (85.7% compared to 73.2% of our population)

Race	n	%	% of North Shore Population
American Indian or Alaskan Native	<5	<1%	0.2%
Asian or Asian American	15	1.9%	5.5%
Black or African American	42	5.4%	12.8%
Native Hawaiian or other Pacific Islander	8	1.0%	0.1%
Some other race	6	0.8%	1.4%
Two or more races	11	1.4%	6.8%
White or Caucasian	661	85.7%	73.2%
Prefer not to answer	25	3.2%	

For more demographic data from the survey, see Appendix A. 4

Mental Health, Communicable Disease, and Environmental Health were the top 3 health concerns selected in the community survey



Access to affordable healthcare and access to mental health services were the top 2 community needs selected in the community survey

	,		
Access to affordable healthcare			340
Access to mental health services			302
Gun violence		177	
Access to social services		176	
Access to affordable housing		168	
Community safety		153	
Access to affordable childcare		145	44.3% and 39.3% of
Racism & discrimination	1	32	survey respondents
Access to affordable healthy foods	90		said access to
Access to community spaces for activity	80		affordable healthcare
Good schools and colleges	69		and access to mental
Clean water	68		health services were
Strong families/relationships	61		top community needs.
Good paying jobs and strong economy	59		
Support services for seniors	57		23.0% and 19.9% of
Criminal justice reform	56		survey respondents
Clean air	51		reported gun violence
Public transportation	29		and community safety
Domestic violence	24		were top needs.
Overdoses	17		
Human trafficking	8		
Other	22		

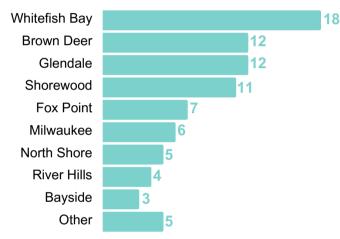
Data from NSHD 2022 Community Health Survey. Each survey respondent was able to select three top community needs in the North Shore. A total of 768 respondents answered this question.

KEY INFORMANT INTERVIEWS

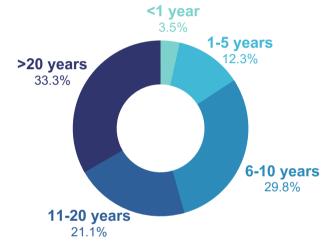
57 Key informants were interviewed

Interviewees represented: Village Managers, Village Presidents, North Shore Fire Rescue, Police Chiefs, North Shore Board of Health, School Leaders, Recreation Departments, School Nurses, Healthcare Providers, Business Owners, Faith-Based Organizations, Residents, and more.

When asked what community they feel associated or connected with the most...

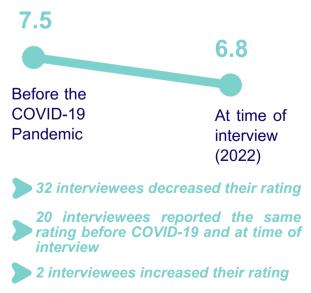


When asked how long they have been connected to the North Shore...

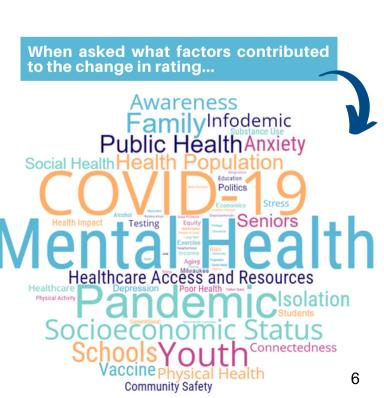


When asked on a scale of 1-10 how they would rate the overall health of North Shore residents...

Average rating, (n=56)



*2 interviewees only provided one of the two ratings. These ratings were included in the averages.



KEY THEMES IDENTIFIED IN INTERVIEWS



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> of interviewees (40/57) said mental health is the most critical health issue impacting the North Shore.

Mental health. I think it's the after effects and the impacts of COVID.

Of the 40 interviewees who said mental health...

mentioned the COVID-19 pandemic (27.5%)

- mentioned youth mental health (22.5%)
- mentioned substance use (17.5%)
- **h** mentioned anxiety (15%)

I think right now... (the most critical health issue is) the social, emotional health of the community.

2 COVID-19 28.10/0 of interviewees (16/57) said COVID-19 is the most critical health issue impacting the North Shore.

Of the 16 interviewees who said COVID-19...

- mentioned stress (25%)
- mentioned youth mental health (25%)
- **3** mentioned isolation (18.8%)

Well, for me, it's tough not to say COVID.
Yeah, I think the pandemic, I would say COVID (is the most critical health issue).

Well, we know COVID universally impacted everyone to some extent. Based on what I know and the way our students returned to school last year, I would suggest that the impact was more from a mental health standpoint.

3 Substance Use

of interviewees (11/57) said substance use is the most critical health issue impacting the North Shore.

Of the 11 interviewees who said substance use...

- mentioned alcohol (36.4%)
- R mentioned marijuana (27.3%

66 The stressors of COVID impacted... mental health in terms of ability to cope with adverse events, but also our use of substances to cope increased. So alcohol and drugs as a method of coping with stress increased.

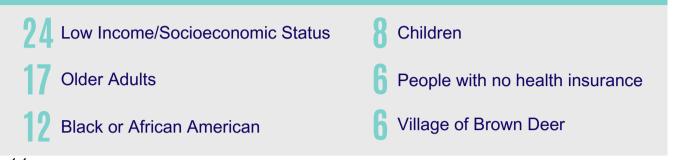
I would say mental health (is the most critical health issue), but also substance use, and really the big two around that would be alcohol use as the primary and then, you know, probably marijuana use in kids.

Many interviewees stated more than one health issue as the most critical. If more than one was stated, they were all included in the data.

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KEY THEMES IDENTIFIED IN INTERVIEWS (]

When asked if there are people, groups of people, or communities whose health may not be as good as others..



You know I mean talk about a public health concern, racism is a public health concern and if I can list that as top amongst priorities in the North Shore, it would be at or near the top.

When asked what barriers or challenges exist to improving health in the North Shore...

Access (40.4%) Interviewees expressed concern over lack of access to healthcare services, specifically timely services and mental health services.

on health-related topics.

Interviewees expressed the need for accessible, accurate, and timely information

OC

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Information (19.3.%)

Socioeconomic Status, Finances (19.3%) Interviewees voiced concern around disparities in socioeconomic status (SES) and cost of healthcare, as well as lack of municipal funding.

Transportation (14.0%) Interviewees stated that transportation to healthcare services and other community resources is a barrier.

I think for people who are less... socioeconomically resourced, transportation (is a barrier) because... to get to any kind of healthcare, or for that matter, anything, it's tough... unless you're able to use one of the main bus lines, it can be tough to get around...

When asked what strengths or assets exist to support health in the **North Shore...**



Schools (19.3%) Interviewees stated there are good schools in the area that also offer activities.

Education (17.5%) Interviewees expressed the community values education and many people are highly educated.

Economic Advantage (10.5%) **Opportunity to be Active** (10.5%)

Yeah, this is an extremely educated community. this community values education, values science, values overall health, values community and using those assets puts this area in a better position than most.

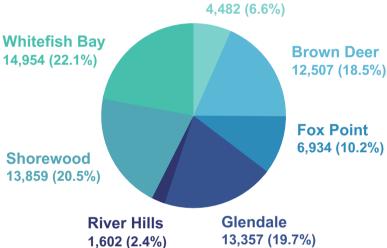
NORTH SHORE Community profile

TOTAL POPULATION, 2020

U.S. Census Bureau, 2020 Census

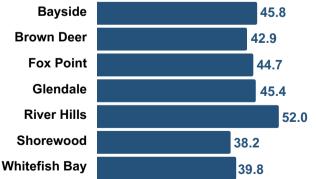
67,69





U.S. Census Bureau, 2020 Census Redistricting Data (Public Law 94-171)

MEDIAN AGE (YEARS), 2021



U.S. Census Bureau, 2021 American Community Survey, 5-year Estimates



Note: The American Community Survey (ACS) 5-year estimates uses data from 2017-2021.

MILWAUKEE COUNTY TOTAL POPULATION 939,489

U.S. Census Bureau, 2020 Census



FIVE ZIP CODES

- 3211 Shorewood, Whitefish Bay, Glendale
- 53212 Glendale
 - Bayside, Fox Point, Glendale,
 - 3217 River Hills, Whitefish Bay
 - 3223 Brown Deer

53217 includes only residents from North Shore communities. The other four zip codes cross borders and include residents from the City of Milwaukee. The 53212 zip code is primarily City of Milwaukee and is not included in North Shore zip code data throughout this report.

NORTH SHORE POPULATION BY AGE, 2021

Age Group	n	%
0 to 9	8,212	12.2%
10 to 19	8,983	13.3%
20 to 29	6,273	9.3%
30 to 39	8,367	12.4%
40 to 49	9,227	13.7%
50 to 59	8,810	13.1%
60 to 69	8,707	12.9%
70 to 79	6,056	9.0%
80+	2,753	4.1%
Total	67,388	100%

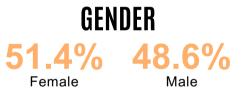
U.S. Census Bureau, 2021 American Community Survey, 5-year Estimates

POPULATION BY RACE & MUNICIPALITY, 2020

A majority of the North Shore population identifies as White, with Black or African Americans being the second most populous racial group. 82% of those who identify as Black or African American live in Brown Deer and Glendale.

	White	Black or African American	Two or more	Asian	Other	American Indian and Alaska Native	Native Hawaiian and Other Pacific Islander
Bayside	3,709	219	274	228	42	7	<5
Brown Deer	5,634	4,731	820	992	277	44	9
Fox Point	5,869	231	409	313	103	5	<5
Glendale	9,304	2,370	925	520	193	36	9
River Hills	1,252	109	117	112	12	0	0
Shorewood	11,143	582	1,074	859	169	30	<5
Whitefish Bay	12,654	418	977	725	151	21	8
North Shore	49,565	8,660	4,596	3,749	947	143	35
North Shore, %	73.2%	12.8%	6.8%	5.5%	1.4%	0.2%	0.1%

U.S. Census Bureau, 2020 Census Redistricting Data (Public Law 94-171)



US Census Bureau, 2021 ACS

ETHNICITY



of the population in the North Shore is Hispanic or Latino (of any race), compared to 7.6% state-wide. US Census Bureau, 2020 Census

LANGUAGE SPOKEN AT HOME

English	••••	87.4%
Other Indo European	••••	5.5%
Asian & Pacific Island	••••	3.5%
Spanish	•••••	2.5%
All Other Languages	•••••	1.2%

U.S. Census Bureau, 2021 American Community Survey

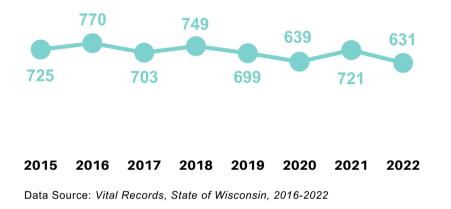
HEALTH OUTCOMES

Health outcomes refer to the overall health status of individuals or populations, including the incidence and prevalence of disease, disability, and injury, as well as measures of physical, mental, and social health. Factors such as access to healthcare, environmental conditions, lifestyle choices, and the social determinants of health can all affect health outcomes. Programs and policies implemented at the local, state, and federal levels can impact these factors and, in turn, influence health outcomes within a community.

Birth Outcomes

Number of Births

The number of births per year in the North Shore has trended down slightly from 2015 to 2022.



Maternal Mortality

A maternal death is when a woman dies while pregnant or within 42 days after giving birth due to a cause connected to or made worse by the pregnancy or its treatment, excluding accidental or unrelated causes.



1,205 people died of maternal causes in the United States in 2021.

That's compared to 861 people who died in 2020 and 754 people in 2019. Rates for Black women (69.9 per 100,000) were significantly higher than rates for White (26.6 per 100,000) and Hispanic (28.0 per 100,000) women.

Source: Hoyert DL. Maternal mortality rates in the United States, 2021. NCHS Health E-Stats

Research shows there are many factors that influence maternal mortality:

- Patient factors: socioeconomic status, race and ethnicity, gender, behaviors, beliefs, biology and genetics
- · Community and neighborhood factors: social networks, built environment and housing
- Provider factors: knowledge, implicit bias and communication
- System factors: access to high quality care, structural racism, social and political policies, and healthcare institutions (Howell E. A., 2018).

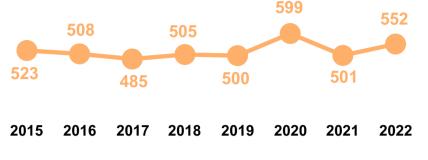
The COVID-19 pandemic adversely affected many of these factors, such as access to healthcare, employment, and living environment, which likely exacerbated maternal mortality rates (Thoma et al., 2019). The direct health effects of COVID-19 may also explain the increase in maternal mortality rates from 2019 to 2021, as pregnancy-related mortality ratios increased consistent with increasing rates of COVID-19-related deaths among women of reproductive age (Thoma et al., 2019).

Infant Mortality Rate, 2020 North Shore 6.3 per 1,000 live births Milwaukee County 9.6 per 1,000 live births Wisconsin 6.0 per 1,000 live births

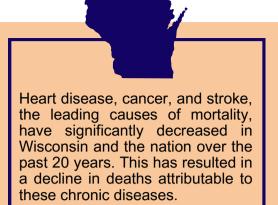
Mortality

Number of Deaths

The number of deaths per year in the North Shore has trended up slightly from 2015 to 2022, with a spike in deaths in 2020.



Vital Records, State of Wisconsin, 2015-2022



In recent years, there has been a notable increase in mortality rates among individuals in their 20s, 30s, and 40s in Wisconsin and across the country.

LEARN MORE

Cancer was the leading cause of death in the North Shore in 2022

By primary cause of death indicated on the death report	2020	2021	2022	2022 mortality rate per 10,000
Cancer	107	98	123	18.2
Heart Disease	107	91	110	16.2
Unintentional Injuries	44	43	32	4.7
Stroke (Cerebrovascular Diseases)	29	23	25	3.7
COVID-19	57	36	23	3.4
Alzheimer's Disease	22	17	20	3.0
Chronic Lower Respiratory Disease	12	18	13	1.9
Assault (Homicide)	<5	<5	11	1.6
Nephritis (Kidney Diseases)	9	7	10	1.5
Suicide	5	6	9	1.3
Chronic Liver Disease & Cirrhosis	5	6	8	1.2
Diabetes Mellitus	18	9	8	1.2
Parkinson Disease	10	<5	8	1.2
Hypertension	7	9	7	1.0
All Other	164	124	145	21.4
Total Deaths, All Causes	599	501	552	81.5

WHAT IS MORTALITY RATE?

Mortality rate, or death rate, is a measure of the number of deaths in a particular population, scaled to the size of that population, per unit of time.

DISEASE-SPECIFIC MORTALITY RATE

Disease-specific mortality rate is the number of deaths due to a particular disease, scaled to the size of the population, per unit of time. In the North Shore, there were 123 cancer deaths in 2022 in a population of 67,695. The cancer mortality rate for the North Shore was 18.2 per 10,000 in 2022.

<u>123 cancer deaths</u> × 10,000 = 18.2

Source: Vital Records, State of Wisconsin, 2021-2022 North Shore Total Population = 67,695 according to 2020 U.S. Census

*Death data are estimated from preliminary death certificates

Chronic Disease

A chronic disease is a long-term medical condition that persists for an extended period of time. They typically require ongoing medical attention and can limit activities of daily living. The most common chronic diseases in the U.S. include heart disease and stroke, cancer, and diabetes.

6 in 10 adults

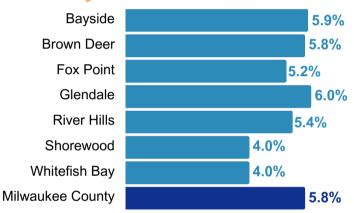
in the United States have a chronic disease

4 in 10 adults

have two or more

Centers for Disease Control (CDC), National Center for Chronic Disease Prevention and Health Promotion (NCCDPHP)

% of Adults who experienced coronary heart disease, 2020



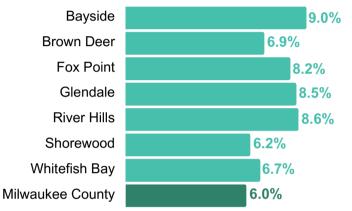
This indicator shows the percentage of adults who have ever been told by a health care provider that they had coronary heart disease.

Data Source: CDC Places

Over 60% of deaths in the North Shore in 2022 were attributable to chronic diseases.

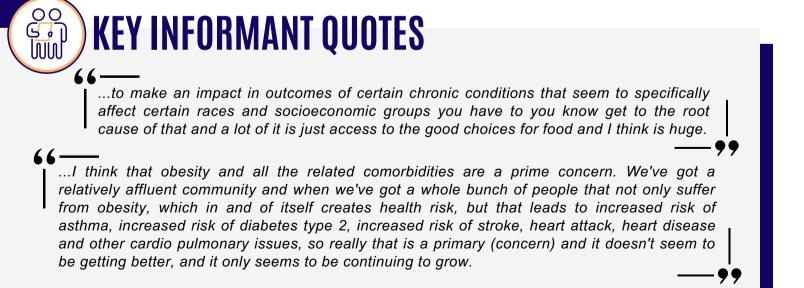
Vital Records, State of Wisconsin, 2022

% of Adults with cancer, 2020



This indicator shows the percentage of adults aged 18 and over who have ever been told by a health professional that they have any type of cancer, except skin cancer.

Data Source: CDC Places



Communicable Disease

A communicable disease is an illness caused by an infectious agent, such as a virus or bacteria, that can be spread from person to person or from animals to people. Examples of communicable diseases include the flu, COVID-19, and sexually transmitted infections like HIV/AIDS. These diseases can spread through direct or indirect contact with infected individuals or their bodily fluids, as well as through contaminated surfaces or objects.



KEY INFORMANT QUOTE ON CRITICAL HEALTH ISSUE

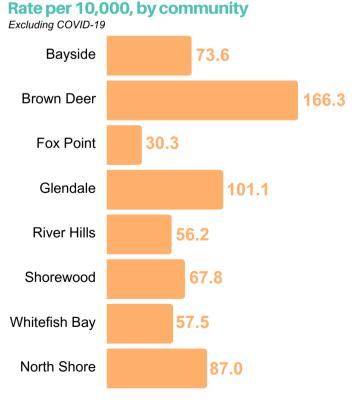
I think also like all those childhood illnesses that we weren't really seeing during COVID. My concern is that they're going to come back even stronger, or stronger flu season, hand foot mouth being more prevalent, more cold virus and things like that, chickenpox, because children are you know maybe waiting on vaccinations. So like an increase in more of those typical childhood illnesses.

Disease Cases

Confirmed and Probable cases of disease

Count of cases by disease category				
Excluding COVID-19	2021	2022		
Food or Water-borne illness	35	49		
Hepatitis - A, B, C	23	20		
Mycobacterium - non-TB	37	21		
Vaccine Preventable*	<5	5		
Sexually Transmitted Infections**	358	347		
TB - Active	0	<5		
TB - Latent	15	22		
Vector-borne (mosquito & tick)	5	6		
Influenza Hospitalization	<5	29		
Streptococcus	8	8		
Fungal	<5	<5		
Other	11	12		
Total Cases	494	522		

Disease Investigations Confirmed, Probable and Suspect cases of disease



*Pertussis, Varicella (chicken pox), Mumps, etc.

**Chlamydia, Gonorrhea, Syphilis

Wisconsin Electronic Disease Surveillance System (WEDSS)

Wisconsin Electronic Disease Surveillance System (WEDSS)

"



There were 10,206 reported COVID-19 cases in the North Shore in 2022. This is a rate of 1,507.6 cases per 10,000 population. COVID-19 cases accounted for 95% of the reported communicable disease cases in the North Shore in 2022.

116 COVID-19 deaths in the North Shore since the start of the pandemic.

Vital Records, State of Wisconsin

Wisconsin Electronic Disease Surveillance System (WEDSS)

LIFE CHANGES EXPERIENCED DURING THE COVID-19 PANDEMIC The impacts of the COVID-19 pandemic have extended beyond illness and death. In our community survey, respondents were asked what life changes they experienced due to COVID-19. The results demonstrate the far-reaching consequences of the pandemic. 411 (56.8%) 405 (55.9%) **337** (46.5%) **308** (42.5%) School closure or Myself or an immediate Stress because Friendship loss family member was diagnosed with COVIDor changes 19 and have since fully recovered 111 (15.3%) 90 (12.4%) 77 (10.6%) 265 (36.6%) Loss of a loved Financial School or work days missed due to COVID-19 one due to distress COVID-19 (for vourself or children) 61 (8.4%) 68 (9.4%) **63** (8.7%) **23** (3.2%) Myself or an immediate Loss or change(s) family member was Changes in diagnosed with COVID-19 in relationship **86** (11.9%) and still have Post-COVIDwith partner(s) 19 ("long COVID") Other symptoms

KEY INFORMANT QUOTE

If I have to pick, the (most critical health issue in the North Shore), number one obviously would be COVID, for sure. I think not just for physical health though, I think it has put such a strain on us psychologically as far as stress is concerned and socially, I mean it's really created a huge divide between people as far as, you know, what your belief is or you know whether you're going to follow the science or not. And I think right now that is of concern to me.

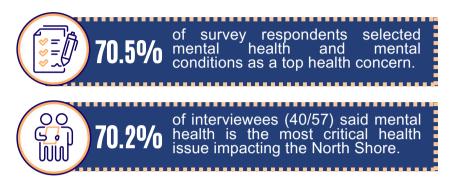
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Mental Health



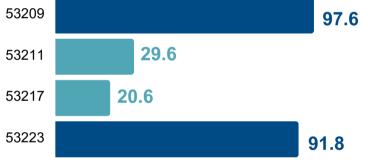
Symptoms of **anxiety and depression** increased across the U.S. during the pandemic and are more pronounced among individuals experiencing household job loss, young adults, and women.

KFF analysis of U.S. Census Bureau, Household Pulse Survey, 2023



2023 Mental Health Index

is a measure of socioeconomic and health factors correlated with self-reported poor mental health. All zip codes, counties, and county equivalents in the United States are given an index value from 0 (low need) to 100 (high need).



Calculated by Conduent Healthy Communities Institute using data from Claritas, 2023; American Community Survey, 2017-2021; and CDC PLACES Project, 2020.

New Surgeon General Advisory Raises Alarm about the Devastating Impact of the Epidemic of Loneliness and Isolation in the United States



Approximately half of U.S. adults reported experiencing measurable levels of loneliness, even before the onset of the COVID-19 pandemic.

Health consequences of poor or insufficient social connection:

- · 29% increased risk of heart disease
- 32% increased risk of stroke
- 50% increased risk of developing dementia for older adults
- 60% increased risk of premature death
- Increased risk of developing depression

KEY INFORMANT QUOTES

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I think that obviously the pandemic has impacted mental health significantly.

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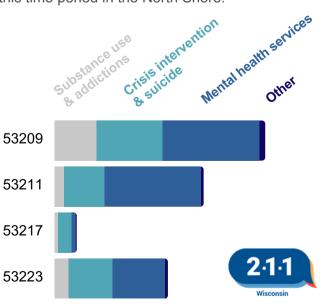
When I think about social isolation and loneliness... even though we all live so close together, I do really fear for people who are feeling a lot of isolation. I think some places do better than others, but that interconnectedness between generations and supporting our elders and even our young families and people living alone



The Suicide & Crisis Lifeline number was updated. This new, shorter phone number will make it easier for people to remember and access mental health crisis services

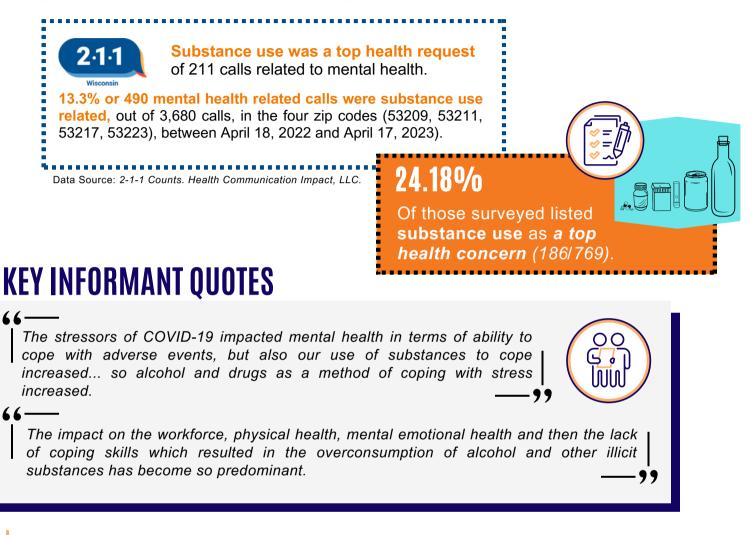
There were 3,618 requests made to 211 related to mental health

in the last year (April 18, 2022 to April 17, 2023) in the four North Shore zip codes. Calls related to mental health made up **16.6%** of all calls to 211 in this time period in the North Shore.



Substance Use

Substance use refers to the consumption of various substances, such as caffeine, tobacco, alcohol, inhalants, street drugs (illicit drugs), prescription medications (including opioids), synthetic opioids, and heroin, which can be taken orally, inhaled, injected, or absorbed into the body. Substance use can lead to dependence and other harmful effects and impacts.





29

North Shore resident **deaths from substance use poisoning** between 2020 and 2022.

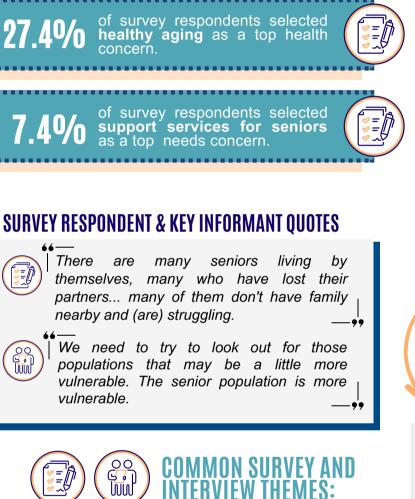
82.7%

of North Shore resident substance use poisoning deaths *involved synthetic opioids*, between 2020 and 2022.

SYNTHETIC OPIOIDS: synthesized laboratory substances that act on the same targets in the brain as natural opioids (e.g., morphine and codeine) to produce analgesic (pain relief) effects.

Healthy Aging

Healthy aging means maintaining physical, mental, and social health to preserve independence and connection in society as we age. It involves taking care of our bodies and minds, fostering social connections, and adapting to life changes. To promote healthy aging, it is important to prevent and manage chronic diseases, adopt a healthy lifestyle, and regularly access healthcare and social support.



Around healthy aging that emerged include:

Programming

ຊຸງ ໄປໄປ

- Housing
- Transportation
- Isolation
- Loss of loved ones
- Accessibility and care

88.4%

7,828 of 8,849 North Shore Fire Rescue fall-related service calls were for individuals aged 60 years and older, between 2020 and 2022.

Data source: First Watch, North Shore Fire Rescue EMS-incident Records, 2020-2022.

SECONDARY DATA

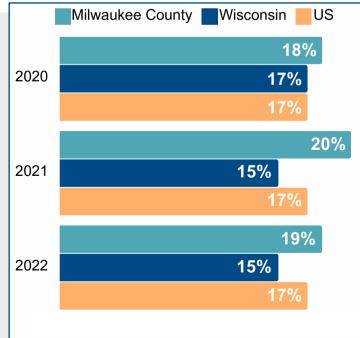
Life expectancy in Milwaukee County is 75.9. slightly lower than state (78.9) and national (78.5) expectancies (2022).

THE GOOD NEWS? According to County Health Rankings and Roadmaps the overall percentage of people who report fair or poor health status is showing a decreasing trend! Yet, in 2023, among those age 65 years and older, 15% of Milwaukee County respondents reported a fair or poor health status, compared to 12% of Wisconsinites overall, and 12% nationally.

Data source: Life Expectancy and Fair or Poor Health Status, County Health Rankings & Roadmaps, 2020-2022.

Fair or Poor Health Status, 2020-2022

Percentage by Milwaukee County, Wisconsin and US



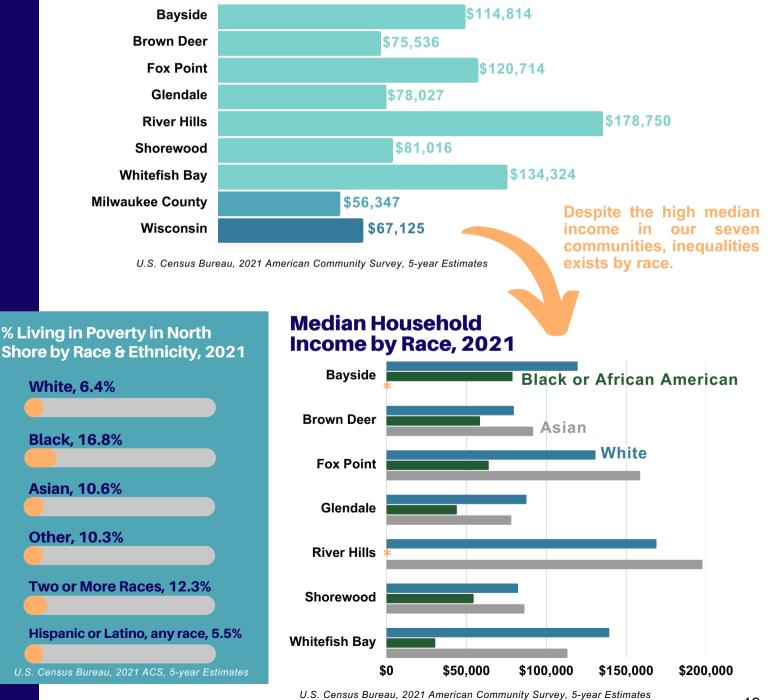
SOCIAL & ECONOMIC FACTORS

Income, education, employment, community safety, and social support are all social and economic factors that influence health. Social and economic factors can be shaped by broader structural issues like racism, poverty, and discrimination, which can contribute to health disparities and inequities.

Income & Poverty

Median Household Income by Community, 2021

All seven North Shore communities have a higher median household income than Milwaukee County and Wisconsin.

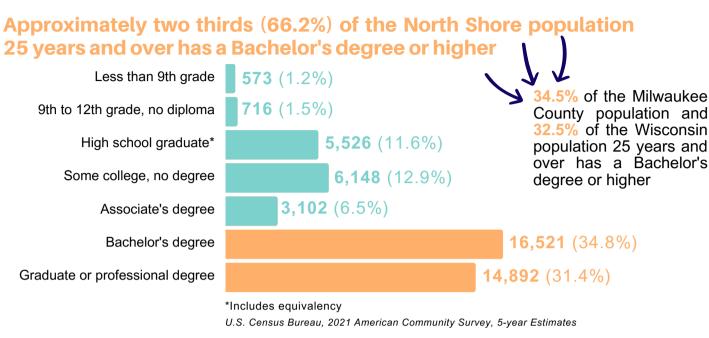


Missing Data: The estimate could not be computed by US Census because

there were an insufficient number of sample observations.

Education

Research suggests that higher levels of education are associated with better health outcomes, including longer life expectancy and fewer chronic illnesses. This is because more education is linked to higher incomes, better employment opportunities, and increased social support, which together support opportunities for healthier choices.



This is an extremely educated community. This community values education, values science, values overall health, values community and using those assets puts this area in a better position than most.

Employment

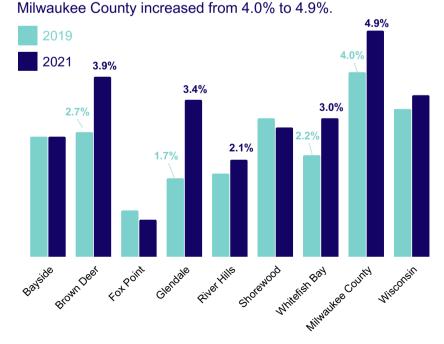
NIIN

Employment can impact health by providing individuals with financial access to resources, healthcare benefits, and social support networks. Having a job can promote a sense of purpose and social inclusion, which can improve mental health. Conversely, unemployment or job insecurity can increase stress. anxiety, and depression, which can negatively impact physical and mental health.

Education and employment also influence an individual's socioeconomic status, which can further impact health outcomes.

Unemployment Rate No. of Unemployed Persons No. of People in Labor Force

In four of the North Shore communities, the unemployment rate increased from 2019 to 2021



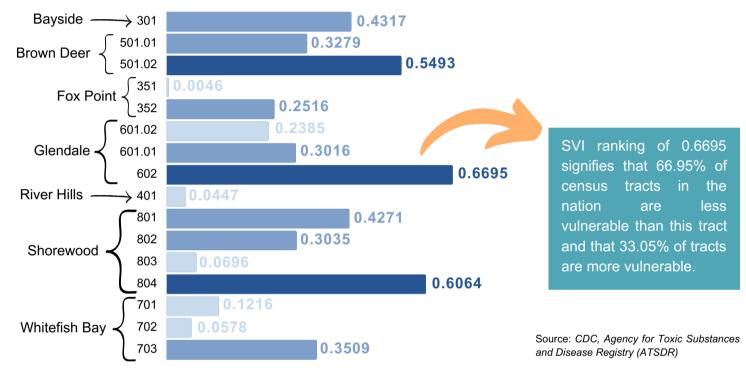
U.S. Census Bureau, 2019 and 2021 American Community Survey, 5-year Estimates. Unemployment rate defined by U.S. Census Bureau is the percentage of population ages 16 and older unemployed but seeking work.

Social Vulnerability Index (SVI)

Social vulnerability refers to the potential negative effects on communities caused by external stresses on human health. Reducing social vulnerability can decrease both human suffering and economic loss.

The CDC and Agency for Toxic Substances and Disease Registry (ATSDR) created a Social Vulnerability Index (CDC/ATSDR SVI), which uses 16 U.S. census variables to assess the vulnerability of communities and provide a score from 0 (lowest vulnerability) to 1 (highest vulnerability). This helps local officials identify communities that may need additional support before, during, or after disasters.

Brown Deer, Glendale, and Shorewood each have one census tract with a SVI in the "Medium to High" category





211 is a statewide information and referral service in Wisconsin.

The service is available 24/7 and is designed to connect individuals and families with community resources and services that can help them with their needs.

The service is free and confidential and can provide information on a wide range of topics, including healthcare, housing, food assistance, mental health, employment, and more. By dialing 211 or visiting the website, people can speak with trained specialists who can assess their needs and provide referrals to local programs and services that can help.

Data about the calls made to 211 is available by zip code. 211 data is included throughout this report because it provides a timely picture of what people's needs are in the community.

Family & Social Supports

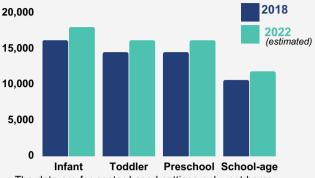
Individuals who enjoy stronger social connections, experience less isolation, and possess higher levels of trust in their interpersonal relationships tend to lead longer and healthier lives compared to those who lack social connections. Communities with greater social capital offer their residents enhanced access to support systems and valuable resources, in contrast to neighborhoods with limited social capital.



Milwaukee is one of the most segregated cities in the nation. Our segregation and decades of redlining had led to increased violence and poverty. We live in a bubble in the North Shore and could do better to make it more inclusive.

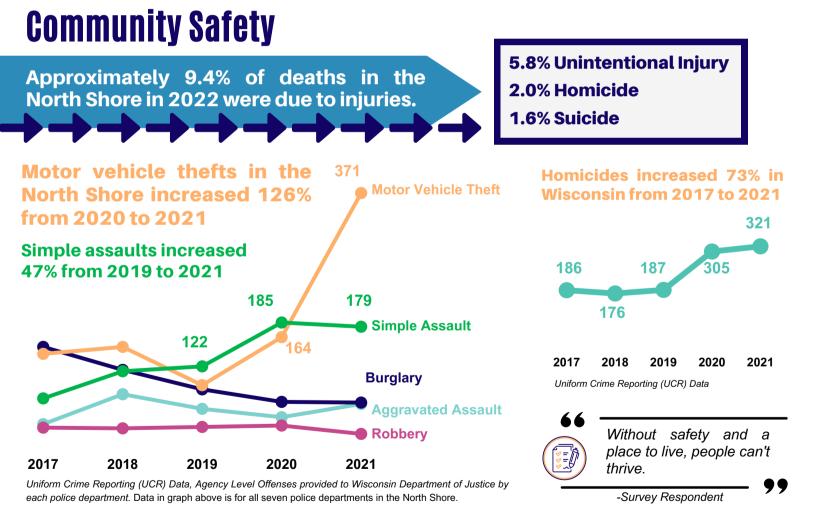
Median annual childcare cost by care setting in Milwaukee County

Childcare price as share of median family income = 26.0%



The data are for center-based settings only, not homebased childcare sites.

Data Source: National Database of Childcare Prices 2016-2018, Women's Bureau, U.S. Department of Labor





With nationwide problems with shootings it is concerning to be in the community. I don't feel safe at all times when in the community and think improved mental health services, educating people on safety would be helpful.

-Survey Respondent

Structural Determinants of Health

Factors like individual behaviors, a person's environment, and their social and economic position affect health outcomes, and it is relatively easy to understand why these things influence our health. If a person smokes, they are at a higher risk of lung cancer. If a family is living in an unsafe neighborhood, they are less likely to participate in physical activity and may be at higher risk for chronic diseases. If a person has a high level of education, they are more likely to work in a well-paying job and have access to resources that promote health. Yet, to really understand how these factors influence health, we need to go a step further and consider how policies ultimately impact behavior, environment, and social and economic factors. Local, state, and federal level policies are "upstream" factors that shape people's **socio-economic position**, which is a key factor in creating health disparities. These social, economic, and political mechanisms, and the resulting socio-economic positions, are referred to as the **structural determinants of health**.

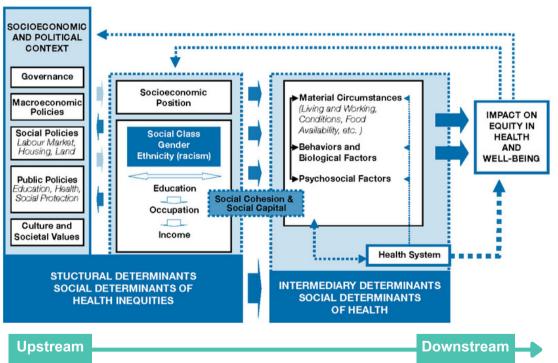
For example, the racial housing segregation in Milwaukee County can be attributed to numerous racially discriminatory housing policies that kept Black people from purchasing houses in certain neighborhoods (Lynch et al., 2021). This practice of **redlining** forced Black people to seek less suitable living conditions and these neighborhoods were continually deprived of resources, such as healthcare facilities, grocery stores, and safe outdoor spaces. Consequently, Black residents faced higher rates of chronic illnesses, including heart disease, diabetes, and obesity (Lee et al., 2022).

Approaching health as a social issue means recognizing how fairness and justice in society influence the conditions that drive health. The ultimate goal is for everyone to have equal opportunities to achieve optimal health, which requires **health equity** to be used as a guide in the creation of policies at all levels.

WHO Conceptual Framework on Social Determinants of Health

Structural determinants of health are on the left side of the framework. They work upstream and impact the downstream intermediary determinants, like material circumstances, behaviors, and psychosocial factors, which ultimately impact health equity.

Milwaukee County was the first governing board in the nation to pass a resolution declaring racism as a public health crisis in 2019.



((

Other issues selected (in the survey), such as gun violence, must be addressed at the root cause and encompass many of the other issues - such as improving economic equality and stability, affordable housing, education opportunity and affordable childcare.

Racism is a social determinant of health and impacts childhood development and inhibits people from obtaining their maximum health potential.

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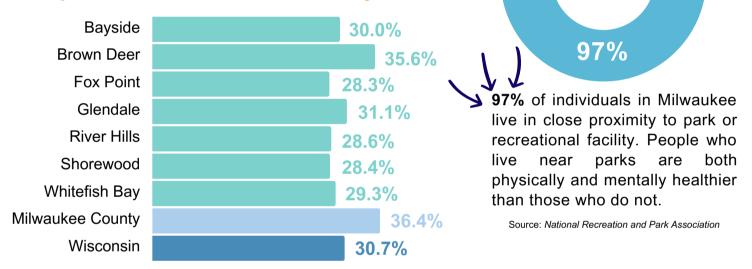
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HFAITH BEHAVIOR

Health behaviors contribute about 30% to the health of an individual, but are often seen as very influential. Health behaviors are actions individuals take that can either positively or negatively impact their health. Oftentimes, health behaviors are dictated by where an individual lives, learns, and works. A few examples of health behaviors are substance use (alcohol or drugs), sexual activity, nutrition, or physical activity.

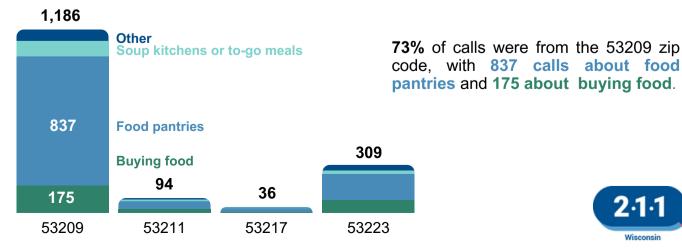
Nutrition & Physical Activity

The seven North Shore communities have a smaller proportion of adults who are obese compared to all of Milwaukee County, 2020



Source: WI Department of Health Services; CDC Places

In the 365 days from April 17, 2022 to April 18, 2023, 1,654 food-related calls were made to 211 in the North Shore zip codes (53209, 53211, 53217, 53223)

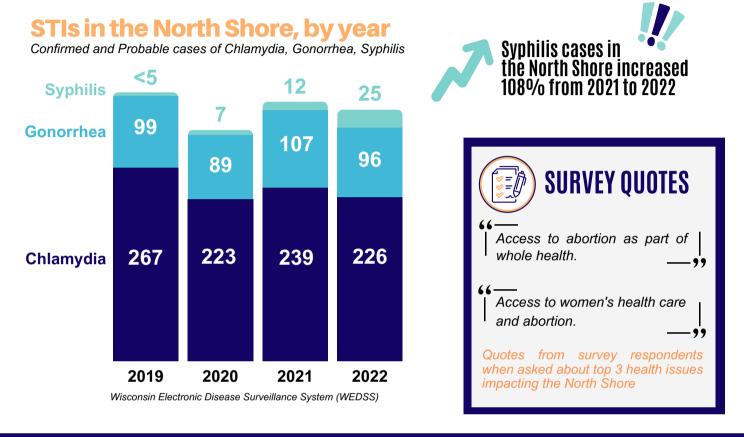


Data Source: 2-1-1 Counts. Health Communication Impact, LLC.

*Please note that the 53209, 53211, and 53223 zip codes are shared between the North Shore and the City of Milwaukee.

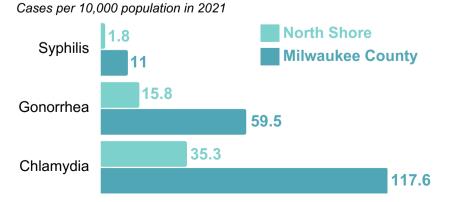
Sexual & Reproductive Health

Engaging in unprotected sex and having multiple sexual partners throughout one's lifetime are considered high-risk sexual behaviors that can result in Sexually Transmitted Infections (STIs) and unintended pregnancies. These outcomes can have both immediate and long-term impacts on an individual's health, as well as on the economic and social well-being of their families and communities.



Surveillance data show that chlamydia, gonorrhea, and syphilis increased across the U.S. in 2021, with more than 2.5 million total cases reported. Of major concern is the increase in syphilis cases, with a 74% increase in cases from 2017 (101,590) to 2021 (176,713).

The North Shore has lower STI rates compared to all of Milwaukee County



ININ Probably sexual and reproductive health would be next up at the top (of critical health issues) because most people do need that or need to access that, and there's not much in Milwaukee in general, but especially in the North Shore area.

Data Sources: *WI Department of Health Services; WEDSS* 2021 data was used for comparison because 2022 Milwaukee County data are not yet available.

Substance Use

Substance use can be reported in many ways, but two common measures of reporting use is **current** and **lifetime**. Current use is us within the 30 days prior to the survey. Lifetime, also known as ever, is during the course of one's life.

Tobacco Tobacco is c

Tobacco is changing. Traditional cigarette use is decreasing while e-cigarette or vape use is increasing.

E-vapor

also known as electronic vapor or vape, refers to the aerosol or vapor that is created by an electronic device when it heats up a liquid mixture, typically containing tobacco-derived nicotine. This aerosol or vapor is then inhaled by the user. From 2019 to 2021, surveyed Wisconsin adults reported a 2.1% decrease in current smoker status. In 2021*, 6.2% of surveyed Wisconsin adults reported current e-cigarette use.

Data source: Centers for Disease Control and Prevention. 2021. Behavioral Risk Factor Surveillance System Survey Data.

Alcohol

In 2021, Wisconsin ranked second in the nation for current alcohol use and binge drinking by adults. (District of Columbia ranked first)

64.1% of Wisconsin adults reported current alcohol use (U.S. 54.5%)

> of Wisconsin adults reported current binge drinking (U.S. 15.3%)

Compared to US adults, Wisconsin ranks 9.6% higher for alcohol use and 7% higher for binge drinking (2021).

Binge Drinking: number of drinks per occasion, for adult males, five or more drinks, and adult women, four or more drinks.

Data source: Centers for Disease Control and Prevention. 2021. Behavioral Risk Factor Surveillance System Survey Data.

Youth Substance Use



Wisconsin Youth Behavior Risk Survey responses for 2017, 2019 and 2021, show a downward trend in substance use:

- 7.3% decline in current alcohol use
- 9.3% decline in current cigarette use
- 7.8% decline in lifetime tobacco use
- 7.2% decline in current e-vapor use
- 11.3% decline in lifetime marijuana use
- 10.4% decline in lifetime prescription pain medication misuse

Data source: Centers for Disease Control and Prevention. 2017, 2019, and 2021. Youth Risk Behavior Survey Data.

Alcohol Use Binge Drinking 65.8% 64.5% 64.1% 65.9% 62.8% 23.8% 22.8% 22.7% 21.9% 21.9% 2017 2018 2019 2020 2021 Percent of current alcohol use, by Wisconsin adults, 2017-2021



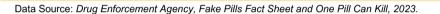
Opioids

Opioids are substances that bind to the body's opioid receptors, producing potent pain relief, sedation, and feelings of euphoria.

While they can provide benefits, they also pose serious risks. Opiates specifically refer to natural opioids, such as heroin, morphine, and codeine. Opioids, by definition, include both natural and synthetic forms of opioids, including oxycodone, hydrocodone, fentanyl, and fentanyl derivatives.

In early 2023, the DEA reported a 20% increase in seized pills containing fentanyl, with 6 out of 10 pills containing fentanyl, compared to 4 out of 10 pills in 2022.

Real vs. Fake Pills: Spotting differences between real and fake pills is difficult. Many pills that *LOOK REAL* now contain fentanyl.



In April 2023, **17** people in Milwaukee County, experienced substance use poisoning containing xylazine and fentanylin a single weekend.

Data Source: SW Healthcare Emergency Readiness Coalition, 2023. *Fentanyl:* an extremely potent synthetic opioid, with a potency of 50-100 times that of morphine.

Xylazine: is used by veterinarians as a non-opioid sedative not approved for human use, often added to illicit opioids, such as fentanyl.

Both images show a lethal dose of fentanyl; about 2mg.





REAL

FAKE

Filolo Sources. DEA, 2022 - 2023.

From 2020 to 2022*, there were 16,152 suspected non-fatal opioid poisonings and 17,021 confirmed deaths from opioid poisonings in all of Milwaukee County (*Subject to change, pending finalization of 2022 deaths). *Data Source: Milwaukee County Overdose Data, 2020-2022.*

OPIOID POISONING IS ON THE RISE, INCLUDING IN THE NORTH SHORE.



Number of opioid related calls for service across all seven North Shore communities (zip codes 53209, 53211, 53217, 53223) responded to by North Shore Fire Rescue, between 2020 and 2022*.

1.7% Of opioid related calls for service, were given naloxone, responded to by North Shore Fire Rescue, among all seven communities (zip codes 53209, 53211, 53217, 53223), between 2020 and 2022* (174/282). *Subject to change, pending finalization of 2022 deaths. Data sources: *ODMap, 2020-2022*.



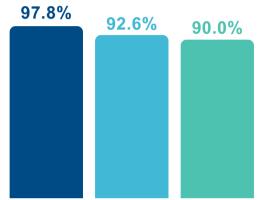
NALOXONE (also known as NARCAN) is a medication used to reverse the effects of opioids, and opioid poisoning.

CLINICAL CARE

Clinical care encompasses all aspects of direct medical treatment and diagnostic procedures conducted on patients. The availability and accessibility of affordable and high-quality healthcare services play a crucial role in disease prevention, detection, and treatment. Factors that can impact access or quality of care include insurance status, cost, and health literacy.

their

Only 2.2% of North Shore residents are uninsured



North Shore Wisconsin United States Source: United States Census Bureau, 2021; American Community Survey

> of survey respondents said access to affordable healthcare was in

the top three community needs.

of survey respondents said **access** to mental health services was in the top three community needs.

A majority of survey respondents with

children have insurance for

226 (90.4%) Employer Sponsored Insurance

children through their employer

WHAT IS HEALTH LITERACY? the degree to which individuals have the ability to find understand, and use

the ability to find, understand, and use information and services to inform health-related decisions and actions for themselves and others (CDC; Santana, S., et. al.).

RESEARCH SHOWS THAT PATIENTS WITH LOW HEALTH LITERACY...

1. Are more likely to visit an emergency room 2. Have more hospital stays

- 3. Are less likely to follow treatment plans
- 4. Have higher mortality rates

CDC Office of Readiness and Response

Health Literacy Data Map

Data from the U.S. Census was used to estimate health literacy levels at the census tract level. Most of the North Shore communities are in the proficient health literacy skills group. Some census tracts in Brown Deer and Glendale fall in the basic and intermediate groups.

Check out the map >

Percentage of adults who had a routine checkup in the last year, 2020

Bayside	78.0%
Brown Deer	76.6%
Fox Point	76.6%
Glendale	77.4%
River Hills	78.3%
Shorewood	73.5%
Whitefish Bay	74.3%
Milwaukee County	75.1%

10 (**4.0**%) Out of Pocket/Cash **9** (**3.6**%) Marketplace

00 571

19 (7.6%) Medicaid/BadgerCare

9 (3.6%) Private Insurance/Self pay <5 Other

> "To me, a big issue is just access. Not knowing who to call, not knowing where to go, not knowing if your insurance covers it.

Access to Care



of survey respondents with children reported they were able to access all necessary medical or clinical services for their children.

North Shore top 3 most inaccessible services:



Mental health services

I have had hard time finding mental health care for my children. Everywhere has a waiting list that is, at minimum, months long.





Urgent care or sick visit

The largest barriers are both access and availability of providers in the North Shore.





Dentist (cleaning or urgent care)

[People] wait until the last hour before they go to the dentist and dental health can lead to health issues too.



Top 3 reasons or challenges in accessing care:



Difficult to find or make appointments

e A large barrier is lack of available appointments.



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Wait is too long

And when I call for an appointment, because I was a first time patient, they told me the earliest they could get me in was eight months in the future.





Office has limited service hours

Clinics] only have availability for day appointments, meaning I would have to take my child out of school.



PHYSICAL ENVIRONMENT

The places people live, work, play, and pray can have a huge impact on their health.

Air Quality



Air Pollution: Particulate Matter

Average daily density of fine particulate matter in micrograms per cubic meter (PM2.5). In Milwaukee County, an annual average of 9.0 micrograms per cubic meter of fine particulate matter was measured in the air in 2019. The Environmental Protection Agency (EPA) has primary annual average standards of 12.0 micrograms per cubic meter.

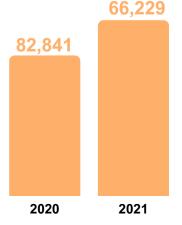


National Environmental Public Health Tracking Network Data Explorer (2022). Centers for Disease Control and Prevention (cdc.gov)



The American Lung Association (ALA) assigns grades A-F to counties (A=1; B=2; C=3; D=4; F=5), based on average annual number of days that particle pollution levels exceeded U.S. standards during the three-year measurement period. In the measuring period between 2018 and 2020, Milwaukee Country received an "A". Source: State of the Air. American Lung Association

Recognized Carcinogens Released Into the Air Annually (in pounds)



Overtime. the Milwaukee County value is increasing, but not significantly. The quantity of reported and recognized carcinogens released into the air is based on fugitive and point emissions 179 source of recognized U.S. Occupational Safety and Health Administration (OSHA) carcinogens.

Release Chemical Report, TRI Explorer. United States Environmental Protection Agency

Water Quality



No community water system in Milwaukee County reported a health-based drinking water violation in 2020.

Envirofacts Data Service API. United States Environmental Protection Agency

Climate Change

Climate change refers to long-term shifts in temperature and weather patterns resulting from human activities, primarily the emission of greenhouse gases like carbon dioxide into the atmosphere. Climate change, together with other natural and human-made health stressors, can affect human health in several direct and indirect ways, including temperature extremes, air pollution, vector-borne diseases, allergens, and food security concerns (CDC, National Center for Environmental Health, 2022).

Extreme heat events are a model-based estimate and defined by a minimum of two consecutive days in which the daily maximum temperature exceeded the 90th percentile threshold.

National Environmental Public Health Tracking Network Data Explorer (2022). Centers for Disease Control and Prevention (cdc.gov)

One Health

One Health is an approach that recognizes the interdependence of human health, animal health, and environmental health. It emphasizes the importance of understanding and addressing the complex interactions between humans, animals, and the environment to protect and improve health for all.

Centers for Disease Control and Prevention, National Center for Emerging and Zoonotic Infectious Diseases (NCEZID), 2019

Public Health Preparedness

Public health preparedness is of paramount importance for safeguarding the well-being and safety of communities in the face of various threats, including natural disasters, infectious disease outbreaks, and other emergencies. It involves developing and implementing strategies, policies, and practices to prevent, respond to, and recover from such events. Public health preparedness aims to enhance the capacity of healthcare systems, public health agencies, and communities to effectively address health-related challenges and protect populations.

Recognizing the connection between climate change, environmental health, and public health preparedness is essential for protecting communities' well-being. Climate change intensifies natural disasters, alters disease patterns, affects air quality and respiratory health, impacts food and water security, and leads to mental health challenges. **KEY INFORMANT** OUOTE There's be got to an expectation that there's gonna be something given back to reduce our carbon footprint and our concern about where environments our qoing, because that's huge. We're luckv where we are positioned... on a freshwater lake and in a place that... we're not going to get too hot, too cold right away, but we have to do things to make

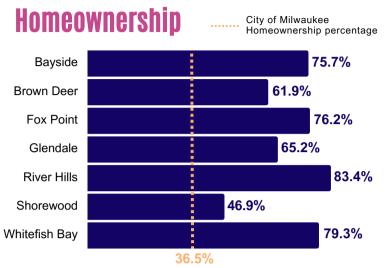
sure that that's taken care of...

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Neighborhood & Built Environment

The housing options and transit systems that shape our communities' built environment affect where we live and how we get from place to place. The choices we make about housing and transportation, and the opportunities underlying these choices, also affect our health.



U.S. Census Bureau, 2021 American Community Survey, 5-year Estimates

Severe Housing Problems

20.5%

in Milwaukee County

in Wisconsin

Severe housing problems measures the percentage of households with at least one of the following housing problems: overcrowding, high housing costs, lack of kitchen, or lack of plumbing facilities.

U.S. Census Bureau, 2021 American Community Survey

Severe Housing Cost Burden

Severe housing cost burden measures the percentage of households that spend 50% or more of their household income on housing. U.S. Census Bureau, 2021 ACS

in Milwaukee County

in Wisconsin

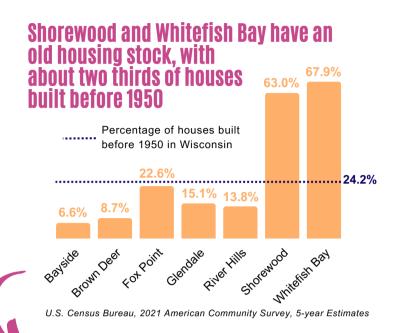
Mean Travel Time to Work



U.S. Census Bureau, 2021 American Community Survey, 5-year Estimates

72.8% Workers who drive alone to work in the North Shore

U.S. Census Bureau, 2021 American Community Survey, 5-year Estimates

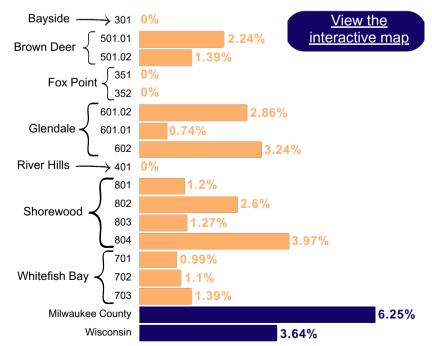


Why does old housing stock matter?

Homes built before 1978 have a higher risk of containing lead-based paint. Lead poisoning can have serious impacts on cognitive development, behavior, and overall health. Although lead can be harmful to everyone, kids under age six are most vulnerable (WI DHS).

Percent of children under 6 years old poisoned with blood lead levels of $\ge 5\mu g/dL$

The percent of children poisoned is calculated as the number of children poisoned divided by the number of children tested. Census tract data from 2018-2021.



Wisconsin Department of Health Services, Bureau of Environmental & Occupational Health, Childhood Lead Poisoning Prevention Program

ACKNOWLEDGEMENTS

We would like to express our heartfelt gratitude to the members of our community who participated in the survey that informed this report. Your feedback was invaluable in helping us understand the health needs and concerns of our community.

We would also like to extend our thanks to our community partners and stakeholders who participated in the key informant interviews. Your expertise and insights helped us to gain a deeper understanding of the health challenges and opportunities in our community.

Finally, we would like to thank all the individuals and organizations that supported us throughout this process. Your contributions have been critical in helping us to develop this report and identify strategies to improve the health and well-being of our community.

Thank you for your support and collaboration.

Thank You

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MOVING FORWARD

We are excited to move from our Community Health Assessment (CHA) to our Community Health Improvement Plan (CHIP), as we continue to work towards improving the health of our community. The insights and data gathered through the CHA process provide our department with a solid foundation for identifying priority areas to focus on to improve health conditions and outcomes in the North Shore.

We will be using the findings from the CHA to select priority areas that will be outlined in our CHIP with accompanying goals and strategies for each priority. We recognize there are many factors that contribute to community health, and are committed to working collaboratively with community members, partners, and stakeholders to develop and implement effective initiatives, programs and policies.

As we move forward with the CHIP, we remain dedicated to our mission of improving population health, with achieving health equity being our overarching goal. We look forward to working with all stakeholders to achieve this goal, and we are grateful for the support and collaboration that has made this process possible.

HOW TO GET INVOLVED

We will be hosting community conversations to get feedback from residents as we select priority areas. If you are interested in attending a future community conversation, <u>take this survey</u> or scan the accompanying QR code and you will be added to our communication list.



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APPENDICES

Appendix A: Community Survey Materials

Community Survey Questions Community Survey Results

Appendix B: Key Informant Interview Materials

Key Informant Interview Questions