

2022 Maine Shared  
Community Health Needs Assessment

# York County



**Northern Light Health**<sup>SM</sup>

# COVID-19 AND OUR HEALTH

While our quantitative data pre-dates the COVID-19 pandemic, the 2021 community health needs assessment outreach took place during the pandemic, and participants noted its impacts in deep and meaningful ways. It was impossible not to recognize the pandemic's impacts on healthcare, health outcomes, behavioral health, and social support systems, especially for those who experience systemic disadvantages.

Challenges in accessing care have impacted chronic disease management and caused delays in non-emergency procedures. Rates of those seeking medical care for even acute health events such as heart attack, stroke, and uncontrolled high blood sugar were low during the early phase of the pandemic due to COVID-19 concerns. This occurred even while the use of telemedicine increased (Kendzerska, et al., 2021). Later in the pandemic, health care usage data from July 2020 through July 2021 show that increases in ICU bed occupancy were followed weeks later by a higher number of deaths not caused by COVID than typically seen before the pandemic. ICU bed occupancy had exceeded 75% of capacity nationwide for at least 12 weeks as of October 25, 2021 (French G., et al., 2021).

Previous disasters have shown that the secondary impacts on population health are long-lasting. For instance, 10 years after Hurricane Katrina, Tulane University Health Sciences Center saw a significant increase in heart disease and related risk factors such as increases in A1C levels, blood pressure, and LDL cholesterol (Fonseca, et al., 2009). The after-effects of disasters such as the Iraqi occupation in Kuwait in 1990, the London bombings in 2005, and the tidal waves and the nuclear meltdown in Fukushima, Japan in 2011 have revealed the need for immediate as well as long-term mental health care (McFarlane & Williams, 2012).

Emerging concerns on the lasting impacts of this pandemic also include the long-term effects of COVID infection as our newest chronic disease. A recent systematic review estimates that more than half of COVID-19 survivors worldwide continue to have COVID-related health problems six months after recovery from acute COVID-19 infection (Groff, et al., 2021). New evidence shows increases in adult diagnoses of diabetes, the risk for diabetes among children, and worsening diabetes among those who already had diabetes after COVID-19 infection (Barrett, et al, 2022).

There are some concerns that the pandemic has had negative impacts on health behaviors. However, the evidence is not yet clear. In Maine, newly available 2020 Maine Behavioral Risk Factors Surveillance System (BRFSS) data on a few key measures give us an early snapshot of the health of Maine adults in the first year of the pandemic. These data do not show any evidence of adverse impacts on trends in smoking, alcohol use, overweight, obesity, or physical activity. Self-reported alcohol use, binge drinking, and current smoking in 2020 were at the lowest levels since 2011 (Maine CDC, unpublished analysis). Drug overdose deaths increased by 33% in 2020 and by another estimated 23% in 2021 according to preliminary findings (Maine Attorney General's Office); it is not clear whether this is a continuation of previous trends, other factors, or due to the pandemic.

The pandemic is affecting different segments of the population more than others. The August 2021/COVID Resilience Survey showed that younger people, people of color, and those with lower incomes all had elevated stress (American Psychological Association). In Maine, Black or African Americans experience a disproportionate share of the COVID-19 burden as they are only 1.4% of Maine's total population yet, as of January 19, 2022, makeup 3.1% of cases and hospitalizations (Maine DHHS).

Thus, the findings in the 2022 Maine Shared CHNA Reports which show the most often identified priorities such as mental health, substance and alcohol use, access to care, and social determinants of health take on new meaning and an increased sense of urgency.

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## INTRODUCTION

The **Maine Shared Community Health Needs Assessment (Maine Shared CHNA)** is a collaboration between Central Maine Healthcare (CMHC), Maine Center for Disease Control and Prevention (Maine CDC), MaineGeneral Health (MGH), MaineHealth (MH), and Northern Light Health (NLH). The vision of the Maine Shared CHNA is to turn health data into action so that Maine will become the healthiest state in the U.S.

The mission of the Maine Shared CHNA is to:

- Create Shared CHNA Reports,
- Engage and activate communities, and
- Support data-driven health improvements for Maine people.

This is the fourth Maine Shared CHNA and the third conducted on a triennial basis. The Collaboration began with the One Maine initiative published in 2010. The project was renamed to the Shared Health Needs Assessment and Planning Process in 2015 which informed the 2016 final reports, and renamed to the Maine Shared CHNA in 2018, which informed the 2019 final reports. The 2021 community engagement cycle has informed the 2022 final reports.

New this cycle is an expanded effort to reach those who may experience systemic disadvantages and therefore experience a greater rate of health disparities. Two types of outreach were piloted in this effort. One effort included nine community sponsored events hosted by organizations representing the following communities: Black or African Americans; people who are deaf or hard of hearing; people with a mental health diagnosis; people with a disability; people who define themselves or identify as lesbian, gay, bisexual, transgender, and queer and/or questioning (LGBTQ+); people with low income; older adults; people who are homeless or formerly homeless; and youth. In addition to these events, 1,000 oral surveys were conducted in collaboration with eight ethnic-based community organizations’ community health workers to better reach Maine’s immigrant population. A complete description of how these efforts were deployed, as well as a listing of those who provided input, is provided in the Methodology section on page 18.

All of the County, District, and State reports and additional information and data can be found on our web page: [www.mainechna.org](http://www.mainechna.org).

# EXECUTIVE SUMMARY

## LEADING CAUSES OF DEATH

One way to view the top health priorities is to consider their contributions to Maine's morbidity, mortality, and overall quality of life issues. It is important to note Maine's leading causes of death to put the community-identified health priorities into perspective. This includes underlying causes of death such as tobacco use, substance and alcohol use, and obesity.

Table 1. Leading Causes of Death

RANK	MAINE	YORK COUNTY
1	Cancer	Cancer
2	Heart Disease	Heart Disease
3	Unintentional Injury	Unintentional Injury
4	Chronic Lower Respiratory Disease	Chronic Lower Respiratory Disease
5	Stroke	Stroke

## TOP HEALTH PRIORITIES

York County forum participants identified the following health priorities.

Table 2. Top Health Priorities for York County

PRIORITIES	% OF VOTES
Mental Health	72%
Social Determinants of Health	61%
Substance and Alcohol Use	58%
Access to Care	40%

Statewide, participants identified similar top four priorities in the 2021 engagement process as was in 2018.

Table 3. Top Health Priorities for County/State

PRIORITIES	2018	2021
Mental Health	✓ ●	✓ ●
Social Determinants of Health	✓ ●	✓ ●
Substance and Alcohol Use	✓ ●	✓ ●
Access to Care	✓ ●	✓ ●
Older Adult Health		●
Physical Activity, Nutrition, and Weight		●

✓ County Priority ● State Priority

Common themes identified by participants in 2021 include an emerging mental health crisis; challenges in access to healthcare, including mental health

providers; issues related to poverty, transportation, and other social determinants of health in a rural state; and increasing rates of substance and alcohol use.

The following pages describe each of these priorities in more detail including the **major health concerns** identified by participants in the community engagement process. There is a description of community-identified resources available to address those concerns as well as any related gaps or needs. Where available, there is also information for certain groups that are at higher risk due to systemic disadvantages. Finally, following the sections that discuss each of the health priorities is a listing of other health issues that were raised by community members but were not identified as priorities.

## DEMOGRAPHICS

York is the second-largest county in the state by population. It has a higher income and educational attainment than the state average. Residents have a longer median life expectancy than Mainers overall

Table 4. Selected Demographics

	COUNTY	MAINE
Population numbers	204,316	1.34M
Median household income	\$67,830	\$57,918
Unemployment rate	5.4%	5.4%
Individuals living in poverty	7.4%	11.8%
Children living in poverty	9.9%	13.8%

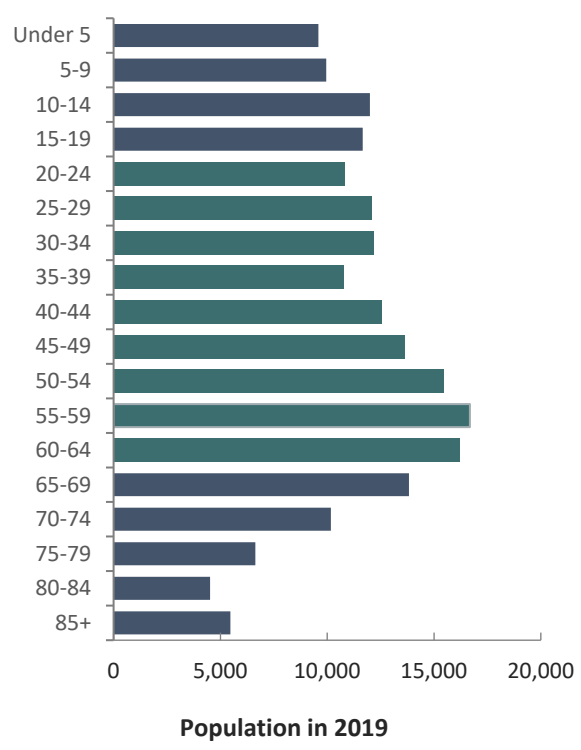
Table 4. Selected Demographics (continued)

	COUNTY	MAINE
65+ living alone	26.6%	29.0%
Associate's degree or higher (age 25+)	43%	41.9%
Gay, lesbian, and bisexual (adults)	3.6%	3.5%
Persons with a disability	15.0%	16.0%
Veterans	10.2%	9.6%

Table 5. Race/Ethnicity in York County

	PERCENT	NUMBER
American Indian/Alaskan Native	0.4%	903
Asian	1.3%	2,580
Black/African American	0.9%	1,778
Native Hawaiian or other Pacific Islander	-	-
White	95.5%	195,143
Some other race	0.2%	456
Two or more races	1.7%	3,403
Hispanic	1.7%	3,507
Non-Hispanic	98.3%	200,913

Figure 1. Age distribution for York County



## HEALTH EQUITY

There is significant agreement between the priorities chosen during county forums and those identified through community-sponsored events and oral surveys. The underlying root causes for those who may experience systemic disadvantages differ depending on local resources and unique characteristics and cultural norms for each sub-population. These differences are best identified through further collaboration at the community level.

For a detailed look at what each community identified as priority health topics, as well as any gaps or barriers and resources or assets, please see the State Report, found on the Maine Shared CHNA website, [www.mainechna.org](http://www.mainechna.org).

For a quantitative look at how these differences affect health outcomes, see the Health Equity Data Sheets, also found on the Maine Shared CHNA website, [www.mainechna.org](http://www.mainechna.org).

## NEXT STEPS

This assessment report will be used to fulfill the Internal Revenue Service (IRS) requirements for non-profit hospitals as well as the Public Health Accreditation Board (PHAB) requirements for state and local public health departments. The next steps include:

- For hospitals, create an informed implementation strategy designed to address the identified needs.
- For District Coordinating Councils, create District Health Improvement Plans.
- For the Maine CDC, create an informed State Health Improvement Plan.

This report will also be used by policymakers, non-profits, businesses, academics, and countless community partners to support strategic planning, coalition building, and grant writing. Taken together, these steps can lead to Maine becoming the healthiest state in the nation.

# PRIORITY: MENTAL HEALTH

## KEY TAKEAWAYS FOR YORK COUNTY

Mental health was the top priority identified in York County. It was also identified as a top health concern in all other counties in the state. Mental health includes emotional, psychological, and social well-being. It affects how we think, feel, and act. It also helps determine how we handle stress, relate to others, and make healthy choices.<sup>1</sup>

Participants in the event hosted for those with a mental health diagnosis noted extremely long waitlists for services, highlighting a need for more high-quality mental health services. Participants also suggested the need for more case management, supportive, and wrap-around services, as those with a mental health diagnosis required varied and nuanced care and treatment.

Forum participants and those who participated in community-sponsored events voiced significant concerns about the mental health of youth and substance and alcohol use in particular.

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*“There needs to be more access to mental health needs, providers, treatment, and residential services.”*

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**Availability of mental health providers** in York County was the most frequently mentioned indicator related to mental health. Community members noted the low availability of providers in the area and the long distances people must travel to receive care. Additional **telehealth services** were identified as the top need in York County to help address mental health issues.

**Mental health emergency department usage** was the second most frequently identified health indicator related to mental health. The mental health emergency department rate per 10,000 population in York County from 2016-2018 was 152.7. This rate is

significantly lower than the state (181.5) over that same period.

**Mental health issues among youth** were concerning to those in the community, particularly the rate at which youth experience anxiety and thoughts of suicide. In 2019, 32.2% of high school students and 24.0% of middle school students in York County reported feeling **sad or hopeless** for two or more weeks in a row, while 16.8% of high school students and 18.8% of middle school students **seriously considered suicide**. These rates are similar to Maine overall. There were concerns about the impact of the COVID-19 pandemic on youth, including potential increases in adverse childhood experiences (ACEs) resulting from the pandemic which forced homeschooling in potentially unsafe situations while decreasing access to school-based supports.

**Youth with disabilities** who experience mental health issues are a particularly vulnerable population. They require access to providers who can connect and communicate in ways to meet their unique needs.

Recent data shows that 17.5% of adults in York County received **outpatient mental health** treatment between 2015-2017 time period. This is similar to Maine overall (18.0%).

Community resources mentioned by participants include Maine 211, clinician and law enforcement education programs, Therapy-Psychiatry Care (MST) and Functional Family Therapy and York County Crisis Services.

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*For more information about how those who may experience systemic disadvantages are impacted by this priority health topic area, please see the State CHNA Report.*

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<sup>1</sup> Centers for Disease Control and Prevention. Available from: <https://www.cdc.gov/mentalhealth/index.htm>

## MAJOR HEALTH CONCERNS FOR YORK COUNTY

INDICATOR	YORK COUNTY			BENCHMARKS			
	POINT 1	POINT 2	CHANGE	MAINE	+/-	U.S.	+/-
<b>MENTAL HEALTH</b>							
Mental health emergency department rate per 10,000 population	—	2016-2018 <b>152.7</b>	N/A	2016-2018 <b>181.5</b>	★	—	N/A
Depression, current symptoms (adults)	2012-2014 <b>8.9%</b>	2015-2017 <b>9.3%</b>	○	2015-2017 <b>9.5%</b>	○	—	N/A
Depression, lifetime	2012-2014 <b>22.1%</b>	2015-2017 <b>22.8%</b>	○	2015-2017 <b>23.7%</b>	○	2017 <b>19.1%</b>	N/A
Anxiety, lifetime	2012-2014 <b>18.8%</b>	2015-2017 <b>20.1%</b>	○	2015-2017 <b>21.4%</b>	○	—	N/A
Sad/hopeless for two weeks in a row (high school students)	2017 <b>26.5%</b>	2019 <b>32.2%</b>	○	2019 <b>32.1%</b>	○	—	N/A
Sad/hopeless for two weeks in a row (middle school students)	2017 <b>21.6%</b>	2019 <b>24.0%</b>	○	2019 <b>24.8%</b>	○	—	N/A
Seriously considered suicide (high school students)	2017 <b>14.0%</b>	2019 <b>16.8%</b>	○	2019 <b>16.4%</b>	○	—	N/A
Seriously considered suicide (middle school students)	2017 <b>15.9%</b>	2019 <b>18.8%</b>	○	2019 <b>19.8%</b>	○	—	N/A
Chronic disease among persons with depression	—	2011-2017 <b>34.6%</b>	N/A	2011-2017 <b>30.8%</b>	○	—	N/A
Ratio of population to psychiatrists	—	2019 <b>20,812.0</b>	N/A	2019 <b>12,985.0</b>	N/A	—	N/A
Currently receiving outpatient mental health treatment (adults)	2012-2014 <b>17.7%</b>	2015-2017 <b>17.5%</b>	N/A	2015-2017 <b>18.0%</b>	N/A	—	N/A

CHANGE columns shows statistically significant changes in the indicator over time.

★	means the health issue or problem is getting better over time.
!	means the health issue or problem is getting worse over time.
○	means the change was not statistically significant.
N/A	means there is not enough data to make a comparison.

BENCHMARK columns compare the county data to the state and national data.

★	means the county is doing significantly better than the state or national average.
!	means the county is doing significantly worse than the state or national average.
○	means there is no statistically significant difference between the data points.
N/A	means there is not enough data to make a comparison.

ADDITIONAL SYMBOLS

*	means results may be statistically unreliable due to small numbers, use caution when interpreting.
—	means data is unavailable because of lack of data or suppressed data due to a small number of respondents.



## COMMUNITY RESOURCES TO ADDRESS MENTAL HEALTH

Community members identified multiple available treatment options and the expansion of MaineCare as assets available for the York County community. The community also identified barriers to care, including a lack of mental health providers, a need for additional youth mental health services, a lack of focus on prevention, and the potentially serious consequences of untreated mental health issues as ongoing challenges York County will need to overcome.

The following information was gathered from participants during a group activity. Participants were asked to share their knowledge of the gaps and needs or resources and assets in their communities regarding the identified health priorities. The numbers in parentheses indicate the number of times community members mentioned or concurred with what was listed.

Table 6. Gaps/Needs and Available Resources (Mental Health)

AVAILABLE RESOURCES	GAPS/NEEDS
<p><b>Treatment</b>                      Community health services focused on Multisystemic Therapy-Psychiatry Care (MST) and Functional Family Therapy (FFT) (2)                      Telehealth and the internet (2)                      Inpatient and outpatient services-including at Sanford (2)                      Harm reduction practices                      Expansion of behavioral health care unit (3)</p> <p><b>Training</b>                      Clinician and law enforcement education (4)</p> <p><b>Other Services</b>                      211 Maine                      Funding for support for teens and families                      Expansion of MaineCare (2)</p>	<p><b>Inadequate Services</b>                      Lack of support services (4)                      Lack of wrap-around services                      Not enough inpatient rooms/beds (4)</p> <p><b>Barriers to Treatment</b>                      Lack of support services (4)                      COVID makes social interactions challenging (3)                      Stigma seeking help (3)                      Lack of education around different levels of care (4)                      Access to services</p> <p><b>Youth</b>                      Lack of treatment for youth mental health and addiction (7)                      Lack of inpatient pediatric behavioral health care beds</p> <p><b>Providers</b>                      Not enough providers (22)</p> <p><b>Funding/resources</b>                      Lack of insurance/inability to pay for mental health resources (3)                      Lack of funding (2)                      Lack of resources between crisis and hospitalization (2)</p>

# PRIORITY: SOCIAL DETERMINANTS OF HEALTH

## KEY TAKEAWAYS FOR YORK COUNTY

Social determinants of health were selected as a top priority in York County. It was also identified as one of the top health concerns in 14 other counties in the state.

Social determinants of health are the conditions in which people live, learn, work, play, worship, and age. Domains include education, economic stability, health care access and quality, the environment, and social connectedness. Examples include access to healthy food, housing, water, air, and relationships<sup>2</sup>. Differences in social determinants can create disparities that impact vulnerable populations and rural residents like those in parts of York County.

**Poverty** was the most frequently mentioned indicator. As of 2019, 7.4% of individuals and 9.9% of children in York County live in poverty. This is significantly lower than the state overall for both individuals (11.8%) and children (13.8%). However, this still equates to 1 in 10 individuals and children experiencing the effects of not having enough resources for daily expenses. Forum participants noted there are several local programs available that provide food and meals to those experiencing food insecurity.

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*“There are concerns about food insecurity, housing costs, ACEs, and transportation.”*

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**Adverse childhood experiences (ACEs)** are potentially traumatic events that occur during childhood and increase the likelihood of negative health and behavioral outcomes later in life. In 2019, 21.1% of high school students in York County reported having experienced four or more adverse childhood experiences.

According to 2021 data, 28.8% of children in York County were eligible for **free or reduced lunch**. The National School Lunch Program (NSLP) was expanded by the Department of Education in 2020 in response to the pandemic and was later made Maine law. This program provides access to free lunch to all students regardless of family income.

**Unemployment** was the fourth most frequently mentioned health indicator. As of 2020, 5.4% of adults were unemployed. This is an increase from 3.0% in 2018. It is also the same as the rate for Maine overall. This is likely related to the impact of COVID-19.

**Broadband access** was also identified as a concern. The percentage of residents with access to broadband internet was 99.3% in York County in 2017. This is higher than Maine overall (88.6%).

Community members facing systemic disadvantages can be impacted by social determinants of health. Individuals with disabilities are impacted by a lack of transportation and face issues of discrimination. Black or African American participants noted poverty, unemployment, and food insecurity issues. Older adults often live on limited incomes and must rely on the support of others as well as face barriers related to transportation and food insecurity.

Resources mentioned by participants include findhelp (Aunt Bertha), York County Community Action Corp, WIC, and public transportation.

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*For more information about how those who may experience systemic disadvantages are impacted by this priority health topic area, please see the State CHNA Report.*

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<sup>2</sup> Healthy People 2030, Office of Disease Prevention and Health Promotion, U.S. Department of Health and Human Services. Available from: <https://health.gov/healthypeople/objectives-and-data/social-determinants-health>

## MAJOR HEALTH CONCERNS FOR YORK COUNTY

INDICATOR	YORK COUNTY			BENCHMARKS			
	POINT 1	POINT 2	CHANGE	MAINE	+/-	U.S.	+/-
<b>SOCIAL DETERMINANTS OF HEALTH</b>							
Individuals living in poverty	2009-2011 8.8%	2015-2019 7.4%	○	2015-2019 11.8%	★	2019 12.3%	N/A
Children living in poverty	2018 10.5%	2019 9.9%	○	2019 13.8%	★	2019 16.8%	★
Children eligible for free or reduced lunch	2020 32.3%	2021 28.8%	N/A	2021 38.2%	N/A	2017 15.6%	N/A
Median household income	2007-2011 \$56,552	2015-2019 \$67,830	★	2015-2019 \$57,918	★	2019 \$65,712	N/A
Unemployment	2018 3.0%	2020 5.4%	N/A	2020 5.4%	N/A	2020 8.1%	N/A
High school student graduation	2019 89.8%	2020 90.5%	N/A	2020 87.4%	N/A	2019 87.1%	N/A
People living in rural areas	—	2019 53.9%	N/A	2019 66.2%	N/A	—	N/A
Access to broadband	2015 99.2%	2017 99.3%	N/A	2017 88.6%	N/A	2017 90.4%	N/A
No vehicle for the household	2007-2011 1.3%	2015-2019 1.8%	○	2015-2019 2.1%	○	2019 4.3%	N/A
Persons 65 years and older living alone	2011-2015 28.5%	2015-2019 26.6%	N/A	2015-2019 29.0%	N/A	2019 26.6%	N/A
Households that spend more than 50% of income toward housing	—	2015-2019 12.3%	N/A	2015-2019 12.0%	○	—	N/A
Housing insecure (high school students)	2017 3.3%	2019 3.0%	○	2019 3.3%	○	—	N/A
Adverse childhood experiences (high school students)	—	2019 21.1%	N/A	2019 21.3%	○	—	N/A
Associate's degree or higher among those age 25 and older	2007-2011 37.6%	2015-2019 43.0%	N/A	2015-2019 41.9%	N/A	2019 41.7%	N/A
Commute of greater than 30 minutes driving alone	—	2015-2019 41.9%	N/A	2015-2019 32.9%	N/A	2019 37.9%	N/A

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ADDITIONAL SYMBOLS

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## COMMUNITY RESOURCES TO ADDRESS SOCIAL DETERMINANTS OF HEALTH

York County community members point to several resources available that improve social determinants of health. These include many resources available to assist residents with accessing healthy foods, community cohesion and new revenue streams becoming available. However, community members also identified several challenges related to social determinants of health a lack of resources for housing and transportation, high levels of food insecurity, and a lack of childcare resources.

The following information was gathered from participants during a group activity. Participants were asked to share their knowledge of the gaps and needs or resources and assets in their communities regarding the identified health priorities. The numbers in parentheses indicate the number of times community members mentioned or concurred with what was listed.

Table 7. Gaps/Needs and Available Resources (Social Determinants of Health)

AVAILABLE RESOURCES	GAPS/NEEDS
<p><b>Community Cohesion</b> Community leadership and participation Numerous community health coalitions and organizations addressing needs (10) findhelp (Aunt Bertha) (3) Professional resources around cultural competence</p> <p><b>Food</b> Increase in Supplemental Nutrition Assistance Program (SNAP) benefits and free school meals (2) Food access Food distribution at the hospital at inpatient level (2) Food distribution events WIC program</p> <p><b>Transportation</b> Public transportation, York County Community Action Corp. continuously seeks ways to increase access to transportation</p> <p><b>Jobs</b> Emerging opportunities for work Affordable community college</p> <p><b>Funding</b> COVID relief funds</p>	<p><b>Transportation</b> Lack of reliable transportation, public and private (7)</p> <p><b>Housing</b> Cost and availability of housing (17)</p> <p><b>Food</b> Food insecurity (2)</p> <p><b>Equity</b> Lack of data around race impacts</p> <p><b>Youth</b> Low levels of public preschool and ability to receive childcare (3)</p> <p><b>Barriers to Care</b> Lack of resources for wraparound behavioral health services (4) No access to good dental services No resources for those without insurance No access to medications Lack of appropriate care</p> <p><b>Coordination</b> Collaboration amongst all services/need for more community health coalitions (5)</p>

# PRIORITY: SUBSTANCE & ALCOHOL USE

## KEY TAKEAWAYS FOR YORK COUNTY

Substance and alcohol use was selected as a top priority in York County. It was also identified as one of the top health concerns in all other counties in the state. Recurring use of alcohol and/or drugs can have significant negative impacts, including health problems, disability, and failure to meet major responsibilities at work, school, or home. Substance and alcohol use has also been linked to co-occurring mental health issues such as anxiety, depression, and attention-deficit/hyperactivity disorder (ADHD), among others.<sup>3</sup>

**Overdose deaths** were the most frequently mentioned health indicator for substance use in York County. In 2020, the rate of overdose deaths per 100,000 population in York County was 35.4. The rate in Maine overall was 37.3 in 2020. **Opiate poisoning emergency department usage** rate per 10,000 was 12.1 between 2016-2018, which was significantly higher than the state over the same time period (9.9).

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*“We’re seeing a lot of substance use disorder in the emergency department. There are better places suited for this type of care.”*

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**Misuse of prescription drugs** was the second most frequently mentioned health indicator. Recent data shows that 0.8% of adults in York County misused prescription drugs. This was similar to the state overall (1.0%). **Narcotic doses dispensed per capita** was 10.5 in 2020, which is significantly lower to the state overall (12.1).

**Drug-affected infants** were the third most frequently mentioned health indicator for substance and alcohol use. The rate of drug-affected infant reports per 1,000 births in York County was 41.0 in 2018-2019. This is significantly lower than in the state overall (73.7).

**Hospital utilization** was the fourth most frequently mentioned health indicator for substance and alcohol use. In 2016-2018, the rate of opiate poisoning hospitalizations per 10,000 population in York County was 1.3. This is similar to Maine (1.4).

Community forum participants expressed concerns about multiple drug and alcohol use health indicators. **Alcohol-induced deaths** have increased significantly in York County, from 6.7 per 100,000 in 2007-2011 to 10.9 in 2015-2019. The percentage of adults who engage in **chronic heavy drinking** is also a concern among forum participants (mentioned by 26% of participants). Between the years 2015-2017, 9.5% of adults identified as chronic heavy drinkers in York County. Rates of alcohol and drug health indicators in York County were similar to Maine overall.

Community members facing systemic disadvantages, including the formerly homeless or homeless, low-income adults, and the LGBTQ+ community mentioned a lack of treatment and recovery resources in the state. They noted a lack of harm-reduction programming, a need for supportive living environments, and skill-building programs for independent living.

A common barrier to addressing substance and alcohol use in York County is a lack of substance and alcohol use treatment providers and programs, including those that offer Medication-Assisted Treatment (MAT). Community resources mentioned by participants include recovery coaches, federal funds to address opioid use, Rotary Club, and community-based prevention programs.

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*For more information about how those who may experience systemic disadvantages are impacted by this priority health topic area, please see the State CHNA Report.*

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<sup>3</sup> Mental Health and Substance Use Disorders. Substance Abuse and Mental Health Services Administration (SAMHSA). Available from: <https://www.samhsa.gov/find-help/disorders>

## MAJOR HEALTH CONCERNS FOR YORK COUNTY

INDICATOR	YORK COUNTY			BENCHMARKS			
	POINT 1	POINT 2	CHANGE	MAINE	+/-	U.S.	+/-
<b>SUBSTANCE USE</b>							
Overdose deaths per 100,000 population	2019 27.5	2020 35.4	○	2020 37.3	○	2019 21.5	N/A
Drug-induced deaths per 100,000 population	2007-2011 12.8	2015-2019 35.2	!	2015-2019 29.5	!	2019 22.8	N/A
Alcohol-induced deaths per 100,000 population	2007-2011 6.7	2015-2019 10.9	!	2015-2019 11.6	○	2019 10.4	N/A
Alcohol-impaired driving deaths per 100,000 population	2018 3.4	2019 1.4	N/A	2019 3.8	N/A	2019 3.1	N/A
Drug-affected infant reports per 1,000 births	2017 40.7	2018-2019 41.0	○	2018-2019 73.7	★	—	N/A
Chronic heavy drinking (adults)	2012-2014 8.2%	2015-2017 9.5%	○	2015-2017 8.5%	○	2017 6.2%	N/A
Binge drinking (adults)	2012-2014 17.9%	2015-2017 18.7%	○	2015-2017 17.9%	○	2017 17.4%	N/A
Past-30-day marijuana use (adults)	2013-2016 10.0%	2017 13.4%	○	2017 16.3%	○	—	N/A
Past-30-day misuse of prescription drugs (adult)	2012-2016 1.1%	2013-2017 0.8%*	N/A	2013-2017 1.0%	○	—	N/A
Past-30-day alcohol use (high school students)	2017 23.4%	2019 24.0%	○	2019 22.9%	○	—	N/A
Past-30-day alcohol use (middle school students)	2017 3.3%	2019 3.5%	○	2019 4.0%	○	—	N/A
Binge drinking (high school students)	2017 7.5%	2019 8.2%	○	2019 8.2%	○	—	N/A
Binge drinking (middle school students)	2017 0.9%	2019 1.1%	○	2019 1.3%	○	—	N/A
Past-30-day marijuana use (high school students)	2017 18.4%	2019 21.7%	○	2019 22.1%	○	—	N/A
Past-30-day marijuana use (middle school students)	2017 3.1%	2019 3.3%	○	2019 4.1%	○	—	N/A
Past-30-day misuse of prescription drugs (high school students)	2017 6.1%	2019 4.9%	○	2019 5.0%	○	—	N/A
Past-30-day misuse of prescription drugs (middle school students)	2017 1.4%	2019 2.7%	○	2019 3.0%	○	—	N/A
Narcotic doses dispensed per capita by retail pharmacies	2019 11.1	2020 10.5	N/A	2020 12.1	N/A	—	N/A
Overdose emergency medical service responses per 10,000 population	2019 70.5	2020 72.9	○	2020 76.7	○	—	N/A
Opiate poisoning emergency department rate per 10,000 population	—	2016-2018 12.1	N/A	2016-2018 9.9	!	—	N/A
Opiate poisoning hospitalizations per 10,000 population	—	2016-2018 1.3	N/A	2016-2018 1.4	○	—	N/A

CHANGE columns shows statistically significant changes in the indicator over time.	
★	means the health issue or problem is getting better over time.
!	means the health issue or problem is getting worse over time.
○	means the change was not statistically significant.
N/A	means there is not enough data to make a comparison.
BENCHMARK columns compare the county data to the state and national data.	
★	means the county is doing significantly better than the state or national average.
!	means the county is doing significantly worse than the state or national average.
○	means there is no statistically significant difference between the data points.
N/A	means there is not enough data to make a comparison.
ADDITIONAL SYMBOLS	
*	means results may be statistically unreliable due to small numbers, use caution when interpreting.
—	means data is unavailable because of lack of data or suppressed data due to a small number of respondents.

## COMMUNITY RESOURCES TO ADDRESS SUBSTANCE & ALCOHOL USE

Community members in York County identified peer recovery and treatment resources available as potential strengths to address substance and alcohol use in their county, along with harm reduction strategies and funding sources. Additionally, barriers to substance and alcohol use issues were identified by community members, including a lack of available treatment programs, a need for additional recovery supports widely available addictive substances, and a lack of youth resources.

The following information was gathered from participants during a group activity. Participants were asked to share their knowledge of the gaps and needs or resources and assets in their communities regarding the identified health priorities. The numbers in parentheses indicate the number of times community members mentioned or concurred with what was listed.

Table 8. Gaps/Needs and Available Resources (Substance & Alcohol Use)

AVAILABLE RESOURCES	GAPS/NEEDS
<p><b>Collaboration</b> Community engagement specialists Prevention Educational programs within schools and universities (6) Community-based prevention programs Coalitions that have funding for SUD prevention (3) Anti-tobacco and vaping prevention/education (3)</p> <p><b>Recovery/ Maintenance</b> Recovery coaches Programs to help people recovering to find employment</p> <p><b>Awareness</b> Programs like Rotary to expand awareness and support of the business community Increased number of people speaking out about their personal experience</p> <p><b>Pre- &amp; Post-natal</b> Good prenatal and parent support at York Hospital for parents with SUD</p> <p><b>Funding</b> Governor’s opioid response funding</p> <p>Lack of coordination of services and assistance navigation services</p>	<p><b>Other Services</b> Lack of reliable transportation (5)</p> <p><b>Recovery</b> Lack of employment reintegration services/recovery-friendly employment (2) Not enough recovery housing Lack of sober living</p> <p><b>Prevention</b> Lack of prevention-focused funds Lack of education (2) Providers need more education on the harms of over-prescription of opioids</p> <p><b>Stigma</b> The stigma around seeking help or having a conversation (4)</p> <p><b>Youth Substance Use</b> No youth intensive outpatient programs (5) Substance use and prevention may not be a top priority for schools Schools are overwhelmed by COVID protocols</p> <p><b>Treatment</b> Not enough treatment sites/lack of access (e.g., detox) (13) Cost of treatment of SUD (4) Inpatient SUD treatment (4) Lack of quality of programs (3) Lack of hybrid healthcare-e.g., in-person and remote engagement for group sessions (2) Lack of understanding medical and nonmedical detox</p> <p><b>Coordination</b> Lack of coordination of services and assistance navigation services</p>



# PRIORITY: ACCESS TO CARE

## KEY TAKEAWAYS FOR YORK COUNTY

Access to care was identified as the fourth top priority in York County. It was also identified as a top health concern in all other counties in the state. Access to care means having the timely use of health services to achieve the best possible health outcomes. It consists of four main components: availability of insurance coverage, availability of services, timeliness of access, and the health care workforce.<sup>4</sup>

**Cost barriers to care** was the most frequently identified health indicator related to access to care. In 2015-2017, 8.6% of adults in York County reported that there was a time during the last 12 months when they needed to see a doctor but could not because of the cost. This is similar to the state overall (10.6%).

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*“Many of the access to care issues center around access to mental health care and readmission rates due to poor discharge planning.”*

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A lack of health insurance was another health indicator mentioned by community members. From 2015-2019, the percentage of **uninsured individuals** in York County was 6.7%. This is significantly lower than the percentage in the state overall (7.9%) over that same period. This rate has improved significantly within the county. In 2009-2011, 9.1% of York County residents were uninsured.

A lack of **availability of primary care providers** in York County was the third most frequently mentioned health indicator related to access to care. It was also identified as the largest gap in access by community forum participants (mentioned by 16% of forum participants).

The lack of providers in the area and the rural nature of parts of the county creates long travel distances to receive care as well as lengthy delays to establish care. Data shows 18.8% of **primary care visits in York County were more than 30 miles from the patient's home** in 2019. This compares to 20.0% of all primary care visits in Maine.

The percentage of adults who saw **any primary care provider** in the past year was 73.1% in 2015-2017. This means a quarter (26.9%) of York County residents did not receive any primary care or preventative health care services in the prior year. Overall, 72.0% of Mainers were seen by a care provider during the same period.

Disparate communities experience barriers related to access differently. Black or African American community members expressed concerns about representation and culturally competent care, as well as issues with health literacy. Similarly, individuals with disabilities noted a lack of provider training in care and communication with the population. Additionally, the LGBTQ+ community identified a need for primary care, behavioral health, and other providers who offer affirming care for the LGBTQ+ population.

Despite the challenges that York County faces with access to care, community forum participants noted the area has CarePartners/MaineHealth, American Rescue Plan funds and York Community Action Transportation.

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*For more information about how those who may experience systemic disadvantages are impacted by this priority health topic area, please see the State CHNA Report.*

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<sup>4</sup> Chartbook on Access to Health Care, Agency for Healthcare Research and Quality. Available from: <https://www.ahrq.gov/research/findings/nhqdr/chartbooks/access/elements.html>

## MAJOR HEALTH CONCERNS FOR YORK COUNTY

INDICATOR	YORK COUNTY			BENCHMARKS			
	POINT 1	POINT 2	CHANGE	MAINE	+/-	U.S.	+/-
<b>ACCESS</b>							
Uninsured	2009-2011 9.1%	2015-2019 6.7%	★	2015-2019 7.9%	★	2019 9.2%	N/A
MaineCare enrollment (all ages)	2019 18.7%	2020 22.0%	N/A	2020 29.1%	N/A	2020 24.1%	N/A
MaineCare enrollment (ages 0-19)	2019 30.5%	2020 34.7%	N/A	2020 43.8%	N/A	—	N/A
Ratio of population to primary care physicians	—	2019 1,704.0	N/A	2019 1,332.0	N/A	—	N/A
Usual primary care provider (adults)	2012-2014 90.4%	2015-2017 90.4%	○	2015-2017 87.9%	★	2017 76.8%	N/A
Primary care visit to any primary care provider in the past year	2012-2014 72.5%	2015-2017 73.1%	○	2015-2017 72.0%	○	2017 70.4%	N/A
Cost barriers to health care	2011-2013 11.3%	2015-2017 8.6%	○	2015-2017 10.6%	○	2016 12.0%	N/A
Primary care visits that were more than 30 miles from the patient's home	—	2019 18.8%	N/A	2019 20.0%	N/A	—	N/A

CHANGE columns shows statistically significant changes in the indicator over time.

★ means the health issue or problem is getting better over time.

! means the health issue or problem is getting worse over time.

○ means the change was not statistically significant.

N/A means there is not enough data to make a comparison.

BENCHMARK columns compare the county data to the state and national data.

★ means the county is doing significantly better than the state or national average.

! means the county is doing significantly worse than the state or national average.

○ means there is no statistically significant difference between the data points.

N/A means there is not enough data to make a comparison.

ADDITIONAL SYMBOLS

\* means results may be statistically unreliable due to small numbers, use caution when interpreting.

— means data is unavailable because of lack of data or suppressed data due to a small number of respondents.

# COMMUNITY RESOURCES TO ADDRESS ACCESS TO CARE

Available resources in York County to address issues related to access include cohesion of the community, the presence of community organizations that increase access to care, emerging technologies, alternatives to in-office care, health care education, and additional funding sources. Community members were also able to identify potential barriers to care. These included limited numbers of healthcare providers, a lack of specialist services, the need for transportation resources in a rural area, and a lack of education about service options.

The following information was gathered from participants during a group activity. Participants were asked to share their knowledge of the gaps and needs or resources and assets in their communities regarding the identified health priorities. The numbers in parentheses indicate the number of times community members mentioned or concurred with what was listed.

Table 9. Gaps/Needs and Available Resources (Access to Care)

AVAILABLE RESOURCES	GAPS/NEEDS
<p><b>Community Cohesion</b> Assessments such as CHNA (2)</p> <p><b>Organizations</b> CarePartners (MaineHealth) (2) Improvement in capacity and resources (2)</p> <p><b>Technology</b> Telehealth/telemedicine (6) 211 Maine National Digital Equity Center training for seniors</p> <p><b>Access alternatives</b> Transportation – Public transport, York County Community Action Transportation provides 1 free ride to any medical-related appointment ACA/Medicare expansion (2)</p> <p><b>Equity</b> More work is being done with minority populations (2)</p> <p><b>Funding</b> American Rescue Act Plan funding (2)</p>	<p><b>Transportation</b> Lack of reliable transportation - public and private (14) Lack of transportation in rural communities (2)</p> <p><b>Barriers to Care</b> A long waitlist of services (5) No shared medical record system Health insurance deductibles and co-pay (3)</p> <p><b>Providers</b> Provider shortage Lack of facilities and providers (3) Lack of psychiatrists, Primary Care Physicians, and other providers (3) Inability to attract out of state employees due to housing shortage</p> <p><b>Education</b> Education about non-ER options for free or low-cost care (3) Health literacy and education</p> <p><b>Funding</b> Need ongoing funding (2) Rural communities overlooked in general (2)</p>

# OTHER IDENTIFIED NEEDS

The following is a list of all health priorities identified in the York County forum. Each participant was allowed to vote for up to 4 priorities from a list of twenty-four priorities. The first column is the name of the priority, the second column is the total number of votes that priority received, and the final column is the percentage of participants who voted for that priority.

Table 10. All Priority Health Topic Areas for York County

PRIORITIES	# OF VOTES	% OF PARTICIPANTS
Mental Health	41	72%
Social Determinants of Health	35	61%
Substance and Alcohol Use	33	58%
Access to Care	23	40%
Older Adult Health	18	32%
Physical Activity, Nutrition, and Weight	10	18%
Children with Special Needs	7	12%
Health Care Quality	6	11%
Tobacco	5	9%
Diabetes	4	7%
Cancer	3	5%
Infectious Disease	3	5%
Intentional Injury	3	5%
Other (not specified)	3	5%
Immunizations	2	4%
Oral Health	2	4%
Unintentional Injury	2	4%
Cardiovascular Disease	1	2%
Environmental Health	1	2%
Pregnancy and Birth Outcomes	1	2%

# APPENDIX: METHODOLOGY

The Maine Shared CHNA is a public-private collaboration governed by a Steering Committee, which is made up of representatives of each member organization (CMHC, MGH, MH, NLH, and Maine CDC). The Steering Committee sets fiscal and operational goals that are then implemented by the Maine Shared CHNA Program Manager. Input is provided by key stakeholder groups including the Metrics Committee and the Health Equity/Community Engagement Committee.

The **Metrics Committee** is charged with creating and reviewing a common set of population/community health indicators and measures every three years. Before the 2018-2019 Maine Shared CHNA, the Metrics Committee conducted an extensive review of the data using the following criteria as a guide: 1.] describes an emerging health issue; 2.] describes one or more social determinants of health; 3.] measures an actionable issue; 4.] the issue is known to have high health and social costs; 5.] rounds out our description of population health; 6.] aligns with national health assessments (e.g.: County Health Rankings, American Health Rankings, Healthy People); 7.] data is less than 2 years old; 8.] data was included in the previous data set, or 9.] the Maine CDC analyzes the indicator in a current program. This review process was carried into the 2021-2022 Maine Shared CHNA, where the Metrics Committee also reviewed the previous data set to check for changes in data sources, potential new sources of data to round out certain topics, and to deepen Social Determinants of Health data which many of our partners have included in their work.

The **Health Equity/Community Engagement Committee** is charged with updating outreach methodology to ensure a collection of broad, diverse, and representative qualitative data from groups that are more likely to experience health disparities. To ensure these methods reflect the needs and cultural expectations this committee included representatives from a variety of Maine's ethnic-based and community-based organizations, along with representatives from public health and healthcare, and a variety of additional partners.

The 2021-2022 Maine Shared CHNA process involved three phases.

## Data Analysis

The first phase of the project involved the analysis of more than 220 health indicators for the state, counties, public health districts, selected cities, and by specific demographics when available.

Data analysis was conducted by the Maine CDC and its epidemiology contractor, the University of Southern Maine with additional support from the contracted vendor, Market Decisions Research.

## Community Outreach and Engagement

Community outreach and engagement for the Maine Shared CHNA included the following efforts:

- 17 County Forums (Maine)
- 9 Community Sponsored Events
- 1,000 Oral Surveys

County Forums were held in each of Maine's 16 counties, with one county, Cumberland, hosting one event in western Cumberland and one in eastern Cumberland in recognition of the differences between Greater Portland (Maine's most densely populated area) and the Lakes Region, (a more rural area). Local planning teams led by local healthcare and public health district liaisons organized and promoted these events. Participants were shown a PowerPoint presentation with relevant county data and were led through guided discussions to identify indicators of concern. Participants then voted to identify their top four health priorities. They were then asked to share their knowledge on gaps and assets available in their communities to address each of the top priorities identified.

New this cycle was an expanded effort to reach those who experience systemic disadvantages and therefore experience a greater rate of health disparities. Two types of outreach were piloted. One effort included nine community-sponsored events. The hosts were chosen for their statewide reach.

The communities included:

- Black or African American
- Homeless or formerly homeless
- LGBTQ+ community
- Older adults
- People who are deaf or hard of hearing
- People who live with a disability
- People with low income
- People with a mental health diagnosis
- Youth

These events followed the same methodology as county forums with hosts providing input on the data presentation and leading the effort to recruit participants

Oral surveys were conducted in collaboration with eight ethnic-based community organizations' (ECBO's) community health workers to better reach Maine's immigrant population. There were 1,000 surveys were conducted in either English (32%), Somali, (24%), Arabic (23%), French (8%), Spanish (5%), Lingala (3%), and other languages including Swahili, Maay Maay, Portuguese, Oromo, Eretria, Kirundi, and Amara. When asked for their countries of origin, respondents most commonly cited the United States (212), Iraq (205), Somalia (157), The Democratic Republic of Congo (81), Djibouti (70), Kenya (30), and Mexico (29).

Other countries of origin mentioned included Rwanda, Ethiopia, Angola, Syria, Guatemala, South Africa, Palestine, Puerto Rico, Morocco, Afghanistan, El Salvador, Nigeria, Canada, Burundi, Eritrea, France, Honduras, Uganda, Jamaica, Mali, Gabon, Sudan, Nicaragua, Peru, and Brazil

The survey was an adaptation of the City of Portland's Minority Health Program Survey conducted in 2009, 2011, 2014, and 2018. In 2021, a small group of stakeholders convened to adapt

this survey to meet the needs of the Maine Shared CHNA. This group included those who deployed the survey as well as other interested parties.

Groups that piloted these new outreach methods were offered stipends for their time.

Due to concerns related to COVID-19, community engagements efforts were conducted virtually except the event for the deaf or hard of hearing, which was held in a gymnasium at the Governor Baxter School for the Deaf on Mackworth Island. Oral surveys were conducted telephonically or by following current U.S. CDC COVID-19 protocols.

Community engagement was supported by John Snow, Inc. (JSI), who also conducted the initial qualitative analysis. All support materials including Data Profiles and PowerPoints were produced by Market Decisions Research.

## Reporting

Initial analysis for each event and the oral surveys were reviewed by local hosts for accuracy and to ensure the information the community may find sensitive was flagged. Final CHNA reports for the state, each county, and districts were developed in the spring of 2022. Final Reports were written and produced by Market Decisions Research.

In addition to Urban, County, and Health District reports, the County, District, and State level data are also available on an [Interactive Data Portal](#). The data in the portal is arranged by health topic and provides demographic comparisons, trends over time, definitions, and information on the data sources. Visit [www.mainechna.org](http://www.mainechna.org) and click on **Interactive Data** in the menu to the left. The Maine Shared CHNA website is hosted by the Maine DHHS. ([www.mainechna.org](http://www.mainechna.org)).

One virtual community forum was held in York County on September 27, 2021, with 64 attendees. Persons from the following organizations representing broad interests of the community who were consulted during the engagement process: Key Informant Interviews

Biddeford Police Department  
Choose to be Healthy Coalition  
City of Biddeford  
City of Sanford  
Coastal Healthy Communities Coalition/Project Alliance Coalition  
Drug Enforcement Agency 360 Maine  
Healthcare Coalition of Maine  
Kennebunk Police Department  
Let's Go!  
Maine Behavioral Healthcare  
Maine Center for Disease Control and Prevention  
Maine Children's Alliance  
Maine Department of Corrections  
MaineHealth  
MedHelp Maine  
Nasson Health Care  
Northern Light Home Care and Hospice  
Partners for Healthier Communities/Southern Maine Healthcare  
Sanford Springvale YMCA  
Seeds of Hope Neighborhood Center  
Senator Angus King's Office  
Senator Susan Collins' office  
Southern Maine Agency on Aging  
Southern Maine Community College  
Southern Maine Health Care  
Spurwink  
Town of Kennebunk  
Town of Sanford Housing Authority  
United Way of Southern Maine  
University of New England  
York Community Service Association  
York County Community Action Corporation  
York County Elder Abuse Task Force  
York County Emergency Management Agency  
York Hospital

For a complete listing of organizations consulted for each of the 10 health equity outreach efforts, please see the Acknowledgements, page 21. The State Report, found on the Maine Shared CHNA website, [www.mainechna.org](http://www.mainechna.org), provides a full description of findings by each community-sponsored event.

# ACKNOWLEDGMENTS

Funding for the Maine Shared CHNA is provided by the partnering healthcare systems with generous support from the Maine CDC and countless community partners and stakeholder groups. Additional funding was provided by the Maine Health Access Foundation and the Maine CDC to conduct additional outreach to engage those whose voices would not otherwise be distinctly heard. The Maine Shared CHNA is also supported in part by the U.S. Centers for Disease Control and Prevention (U.S. CDC) of the U.S. Department of Health and Human Services (U.S. DHHS) as part of the Preventive Health and Health Services Block Grant (awards NB01OT009343-01 & NB01OT009413-01). The contents are those of the author(s) and do not necessarily represent the official views of, nor an endorsement, by the U.S. CDC/HHS, or the U.S. Government.

The infrastructure for community-led efforts is gaining strength. We are grateful to those who put their trust in the Maine Shared Community Health Needs Assessment process. Together, the MSCHNA and each of our community hosts have strived to ensure their voices are reflected herein.

## Oral Survey Sponsors

Capital Area New Mainers Project  
City of Portland's Minority Health Program  
Gateway Community Services  
Maine Access Immigrant Network  
Maine Community Integration  
Maine Department of Health and Human Services\*  
Maine Immigrant and Refugee Services  
Mano en Mano  
New England Arab American Organization  
New Mainers Public Health Initiative

## Community Event Sponsors

Consumer Council System of Maine  
Disability Rights Maine  
Green A.M.E. Zion Church  
Health Equity Alliance  
Maine Continuum of Care  
Maine Council on Aging  
Maine Primary Care Association  
Maine Youth Action Network

\*Includes the Manager of Diversity, Equity, and Inclusion and the Maine CDC.

Months of planning were conducted by stakeholder groups including the Metrics Committee, Data Analysis Team, Community Engagement Committee, Health Equity Committee, and Local Planning teams. For a complete listing please visit the Maine Shared CHNA website [About Us](#) page. Significant analysis was conducted by epidemiologists at the Maine CDC and the University of Southern Maine's Muskie School of Public Service. Market Decisions Research provided quantitative and qualitative analysis and design and production support. John Snow, Inc. (JSI) provided methodology, community engagement, and qualitative analysis expertise and support. The oral survey was adapted from the City of Portland's Minority Health Program's survey. Special thanks to the Partnership for Children's Oral Health for their data contribution.





