



**Community Health Needs Assessment** 

FY 2023-2025

# **Table of Contents**

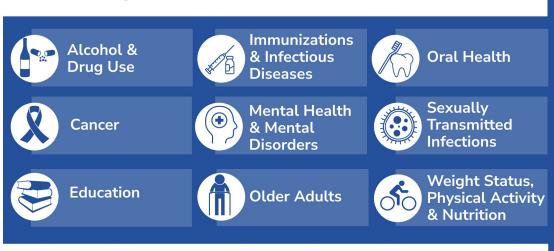
CHNA at a Glance	3
Executive Summary	5
Introduction & Purpose	9
Look Back: Evaluation of Progress Since Prior CHNA	12
Defining the Community	13
Demographic Profile	15
Social & Economic Determinants of Health	20
Disparities and Health Equity	26
Primary and Secondary Data Methodology and Key Findings	30
Identification of Significant Health Needs	35
Data Synthesis	36
Prioritization	39
Prioritized Significant Health Needs Prioritized Health Topic #1: Alcohol, Tobacco and Drug Use Prioritized Health Topic #2: Mental Health and Mental Disorders Prioritized Health Topic #3: Weight Status, Physical Activity & Nutrition	42 46
Non-Prioritized Significant Health Needs	54
Barriers to Care	58
Conclusion	62
Appendices Summary	63
Adoption/Approval	64



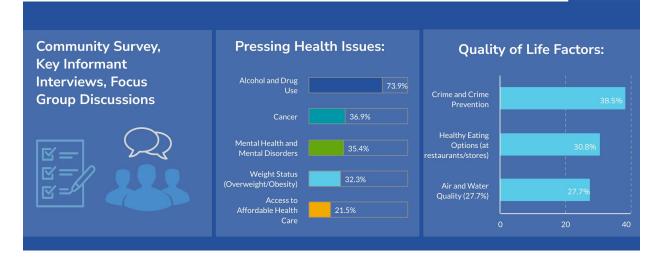


# **COMMUNITY HEALTH NEEDS ASSESSMENT** At a Glance

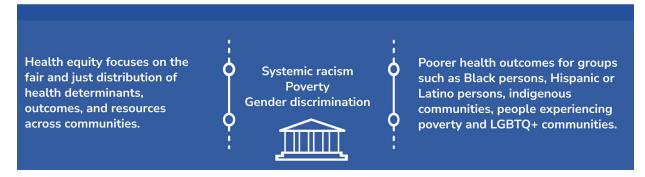
# **Secondary Data**



# **Primary Data/Community Input**



# **Health Equity**





**Nelson County** 

# PRIORITY HEALTH NEEDS

# Alcohol, Tobacco & Drug Use



# Themes from Community Input:



- Ranked by survey respondents as the most pressing health problem (73.9%)
- Cultural issues, adverse childhood experiences, lack of education and lack of reliable income cited as factors for substance use

Warning Indicators:



- Drug Arrest Rate
- Liquor Store Density
- Adults who Binge Drink
- Death Rate due to Drug Poisoning

### Mental Health & Mental Disorders



# Themes from Community Input:



- Ranked by survey respondents as the third most pressing health problem (35.4%)
- Abuse and neglect among youth cited as contributing factors to poor mental health
- Need for more mental health services

Warning Indicators:



- Age-Adjusted Death Rate due to Alzheimer's Disease
- Age-Adjusted Death Rate due to Suicide
- Depression: Medicare Population
- Poor Mental Health: 14+ Days

# Weight Status, Physical Activity & Nutrition



# Themes from Community Input:



- Ranked by survey respondents as the fourth most pressing health problem (32.3%)
- Healthy eating options at restaurants, stores, and markets a top quality of life issue among survey respondents (30.8%)
- Lack of exercise, busy lifestyles, lack of nutritional foods and learned behaviors through multiple generations cited as key contributors to obesity

**Warning Indicators:** 



- Adults who are Sedentary
- Fast Food Restaurant Density
- Grocery Store Density
- Adults who are Obese
- Access to Exercise Opportunities
- Children with Low Access to a Grocery Store



# **Executive Summary**

### **Introduction & Purpose**

The purpose of this Community Health Needs Assessment (CHNA) is to identify and prioritize significant health needs of the community served by Flaget Memorial Hospital (FMH). The priorities identified in this report help to guide the hospital's community health improvement programs and community benefit activities, as well as its collaborative efforts with other organizations that share a mission to improve health. This CHNA report meets requirements of the Patient Protection and Affordable Care Act that nonprofit hospitals conduct a community health needs assessment at least once every three years.

### **CommonSpirit Health Commitment and Mission Statement**

The hospital's dedication to engaging with the community, assessing priority needs, and helping to address them with community health program activities is in keeping with its mission: "As CommonSpirit Health, we make the healing presence of God known in our world by improving the health of the people we serve, especially those who are vulnerable, while we advance social justice for all."

### **CHNA Collaborators**

CHI Saint Joseph Health commissioned Conduent Healthy Communities Institute (HCI) to conduct the 2023-2025 Community Health Needs Assessment for Flaget Memorial Hospital.

### **Community Definition**

The community served by Flaget Memorial Hospital, also known as the hospital's primary service area (PSA), was defined based on zip codes representing 75% of all inpatient discharges. The primary service area consists of five zip codes (40004, 40013, 40069, 40008, 40051), and is primarily based in Nelson County, but also extends into neighboring Washington County.

### **Methods for Identifying Community Needs**

Secondary data used in this assessment consisted of community health indicators, while primary data consisted of key informant interviews, a focus group discussion, and an online community survey. Findings from all these data sources were analyzed to identify the significant health needs for the community served by Flaget Memorial Hospital.

### **Secondary Data**

The secondary data used in this assessment were obtained and analyzed from a community indicator database developed by Conduent Healthy Communities Institute. The database includes over 150 community health and quality of life indicators, spanning at least 24 topics, that are primarily derived from state and national public data sources. Indicator values for Nelson County were compared to other





counties in Kentucky and the U.S., trends over time and Healthy People 2030 targets to assess relative areas of need. HCl's Data Scoring Tool systematically summarizes these comparisons, ranking indicators based on highest need. Each indicator is assigned a score from 0 to 3, where 0 indicates the best outcome and 3 indicates the worst outcome. Indicators are grouped into broader topic areas for a higher-level ranking of community health needs. Topic scores also range from 0 to 3, with 0 indicating the best outcome and 3 indicating the worst outcome. Topics receiving a secondary data score of 1.50 or higher were identified as a significant health need.

### **Primary Data**

The primary data used in this assessment included an online community survey and qualitative data in the form of key informant interviews and a focus group discussion. Key informants invited to participate in these interviews were recognized as having expertise in public health, special knowledge of community health needs, representing the broad interests of the community served by the hospital, and/or being able to speak to the needs of medically underserved or vulnerable populations.

### **Summary of Findings**

Health needs were determined to be significant if they met the following criteria:

- Secondary data analysis: topic score of 1.50 or higher
- Survey analysis: identified by 20% or more of respondents as a priority issue
- Qualitative analysis: frequency topic was discussed within/across interviews and the focus group

Through this criteria, thirteen needs emerged as significant. Figure 1 illustrates the final 13 significant health needs, listed in alphabetical order, that were included for prioritization based on the findings of all forms of data collected for the Flaget Memorial Hospital 2023-2025 CHNA.

### Air and Water Quality: Mental Health & Mental Disorders Alcohol & Drug Use Older Adults Cancer Oral Health Crime & Crime Sexually Prevention **Transmitted** Infections Education Tobacco Use Health Care Access Weight Status, Physical Activity & Quality & Nutrition **Immunizations**

& Infectious Diseases

FIGURE 1. SIGNIFICANT HEALTH NEEDS

### **Prioritization**

Flaget Memorial Hospital convened a group of community leaders to participate in a presentation of data on the 13 significant health needs. Following the presentation, participants engaged in a discussion and were asked to complete an online prioritization activity.

### **Process and Criteria**

The online prioritization activity included two criteria for prioritization:

- Magnitude of the Issue
- Ability to Impact





Participants assigned a score of 1-3 to each health topic and criterion, with a higher score indicating a greater likelihood for that topic to be prioritized. Numerical scores for the two criteria were then combined and averaged to produce an aggregate score and ranking for each health topic.

FIGURE 2. RANKED ORDER OF HEALTH NEEDS

- **1.** Cancer (2.67)
- 2. Mental Health & Mental Disorders (2.67)
- 3. Weight Status, Physical Activity & Nutrition (2.56)
- 4. Health Care Access & Quality (2.50)
- 5. Immunizations & Infectious Diseases (2.50)
- 6. Alcohol & Drug Use (2.44)
- **7.** Older Adults (2.39)
- **8.** Sexually Transmitted Infections (2.28)
- **9. Tobacco Use** (2.06)
- **10. Oral Health** (1.83)
- **11. Education** (1.61)
- **12.** Air & Water Quality (1.56)
- 13. Crime & Crime Prevention (1.50)

### **Prioritization Results**

The list of significant health needs in Figure 2 is provided in the rank order that resulted from the prioritization process, alongside the average score assigned to each topic. The needs are listed in order of highest priority to lowest priority. For those topics with identical scores, the health needs are listed in alphabetical order.

### **Prioritized Areas**

The prioritized list of significant health needs was presented to hospital leadership. The hospital's Healthy Communities / Community Benefit Committee reviewed the scoring results of the online prioritization activity in conjunction with the full list of health needs that were identified as significant across all seven hospitals in the CHI Saint Joseph Health system. A decision was made to combine the prioritized health areas of Alcohol & Drug Use and Tobacco Use and move forward with the significant health needs that were trending across all seven hospitals. This process resulted in a final selection of three priority health areas that will be considered for subsequent implementation planning. The three priority health needs are shown in Table 1.

TABLE 1. PRIORITIZED HEALTH NEEDS

Alcohol, Tobacco & Drug Use

Mental Health & Mental Disorders

Weight Status, Physical Activity & Nutrition

### **Report Adoption, Availability and Comments**

This CHNA report was adopted by the CHI Saint Joseph Health Board of Directors in May 2022. The report is widely available to the public on the hospital's website:

https://www.chisaintjosephhealth.org/healthycommunities. Paper copies are also available for inspection upon request at Flaget Memorial Hospital. Written comments on this report can be submitted through the online Assessment Feedback form:

https://www.chisaintjosephhealth.org/healthy-community-chna-feedback.

### **Conclusion**

This report describes the process and findings of a comprehensive Community Health Needs Assessment (CHNA) for the community served by Flaget Memorial Hospital. The prioritization of the identified significant health needs will guide the community health improvement efforts of the hospital.





Following this process, Flaget Memorial Hospital will outline how it plans to address the prioritized health needs.





# **Introduction & Purpose**

Flaget Memorial Hospital is pleased to present its fiscal year 2023-2025 Community Health Needs Assessment (CHNA).

### **CHNA Purpose**

The purpose of this CHNA report is to identify and prioritize significant health needs of the community served by Flaget Memorial Hospital (FMH). The priorities identified in this report help to guide the hospital's community health improvement programs and community benefit activities, as well as its collaborative efforts with other organizations that share a mission to improve health. This CHNA report meets requirements of the Patient Protection and Affordable Care Act that nonprofit hospitals conduct a community health needs assessment at least once every three years.

### This report includes a description of:

- The community demographics and population served;
- The process and methods used to obtain, analyze and synthesize primary and secondary data;
- The significant health needs in the community, taking into account the needs of uninsured, low-income, and marginalized groups;
- The process and criteria used in identifying certain health needs as significant and prioritizing those significant community needs.

### **CHI Saint Joseph Health**

CHI Saint Joseph Health is one of the largest and most comprehensive health systems in the Commonwealth of Kentucky. We consist of 100 locations in 20 counties, including hospitals, physician groups, clinics, primary care centers, specialty institutes and home health agencies. In total, the health system serves patients in 35 Kentucky counties.

At CHI Saint Joseph Health, we are dedicated to building healthier communities by elevating patient care. We are guided by our strong mission and faith-based heritage and work through local partnerships to expand access to care in the communities we serve.

CHI Saint Joseph Health is part of CommonSpirit Health, a nonprofit, Catholic health system dedicated to advancing health for all people. It was created in February 2019 through the alignment of Catholic Health Initiatives and Dignity Health. CommonSpirit Health is committed to creating healthier communities, delivering exceptional patient care, and ensuring every person has access to quality health care. With its national office in Chicago and a team of approximately 150,000 employees and 25,000 physicians and advanced practice clinicians, CommonSpirit Health operates 142 hospitals and more than 700 care sites across 21 states.





### **Flaget Memorial Hospital**

Flaget Memorial Hospital, a part of CHI Saint Joseph Health, is a 52-bed facility located in Bardstown, Kentucky. We provide care for patients from Nelson, Hardin, Marion, Washington, Spencer, Bullitt and LaRue counties. Founded in 1951 by the Sisters of Charity of Nazareth, Flaget Memorial Hospital is nationally recognized for orthopedic care, surgical care and inpatient satisfaction. We offer a complete array of services, including cancer care, heart care, outpatient rehabilitation, skilled nursing, weight loss surgery, pain management, general surgery, obstetrics and gynecology, maternity care, and sports medicine. The CHI Saint Joseph Health – Cancer Care Center at Flaget is proud to provide full support and cancer care to patients through its medical and radiation oncology programs, and through its affiliation with Cleveland Clinic Cancer Center.

### **Community Benefit Leadership and Team**

The Healthy Communities / Community Benefit Committee at CHI Saint Joseph Health plays a vital role in the CHNA process. The committee includes representation from community health, mission services, nursing services, violence prevention, and other hospital leadership. Committee members were invited to participate in several meetings throughout the CHNA process, including multiple presentations of data findings, virtual discussions, and an online prioritization activity. The members participating in this committee, including names, titles, and associated facilities, are provided in Appendix H.

### **Resources Potentially Available to Address Needs**

The availability of health care resources is critical to the health of a county's residents and addressing health needs, including those identified in this assessment. A limited supply of health resources, especially providers, results in poorer health status of the community. Appendix I provides a list and description of potentially available resources to address the health needs of Flaget Memorial Hospital's community. The Kentucky Cabinet for Health and Family Services updates the list of these resources monthly in their report "Inventory of Kentucky Health Facilities, Health Services and Major Medical Equipment" at this link: <a href="https://chfs.ky.gov/agencies/os/oig/dcn/Pages/inventory.aspx">https://chfs.ky.gov/agencies/os/oig/dcn/Pages/inventory.aspx</a>

### **Acknowledgements**

### Consultant

CHI Saint Joseph Health commissioned Conduent Healthy Communities Institute (HCI) to support report development for Flaget Memorial Hospital's 2023-2025 Community Health Needs Assessment. HCI works with clients across the nation to drive community health outcomes by assessing needs, developing focused strategies, identifying appropriate intervention programs, establishing monitoring systems, and implementing performance evaluation processes. Report authors from HCI include Cassandra Miller, MPH, Public Health Consultant; Era Chaudhry, MBA, MPH, Public Health Senior Analyst; and George Nguyen, Research Assistant. To learn more about Conduent Healthy Communities Institute, please visit <a href="https://www.conduent.com/community-health/">https://www.conduent.com/community-health/</a>.





### **External Stakeholders**

Flaget Memorial Hospital gratefully acknowledges the participation of a dedicated group of external stakeholders that gave generously of their time and expertise to help guide this CHNA report (Table 2).

TABLE 2. EXTERNAL STAKEHOLDERS

Bardstown City Schools
City of Bardstown Fire Department
Guthrie Opportunity Center
Lincoln Trail District Health Department
Nelson County Community Clinic
Nelson County Drug Coalition
Nelson County EMS
Nelson County Schools
Talbott Tavern
The Kentucky Standard





# **Look Back: Evaluation of Progress Since Prior CHNA**

Flaget Memorial Hospital completes its CHNA every three years. An important piece of this three-year cycle includes the ongoing review of progress made on priority health topics set forth in the preceding CHNA and Implementation Strategy (Figure 3). By reviewing the actions taken to address priority health issues and evaluating the impact those actions have made in the community, it is possible to better target resources and efforts during the next assessment.

# **Priority Health Needs from Preceding CHNA**

Flaget Memorial Hospital's priority health areas for fiscal year 2020-2022 were:

- Behavioral Health, including Mental Health and Substance Abuse
- Obesity and Diabetes, including Wellness & Exercise
- Education about Resources

A detailed impact report outlining the goals, objectives and status of each strategy is provided in Appendix G.

# Analyze Data & Community Input Evaluate Actions Taken Prioritize Health Needs CHNA Report

FIGURE 3. THE CHNA CYCLE

### **Community Feedback**

The 2020-2022 Community Health Needs Assessment and Implementation Strategy were made available to the public via the website <a href="https://www.chisaintjosephhealth.org/healthycommunities">https://www.chisaintjosephhealth.org/healthycommunities</a>. Flaget Memorial Hospital invited written comments on the most recent CHNA and Implementation Strategy on the website where they are widely available to the public: <a href="https://www.chisaintjosephhealth.org/healthy-community-chna-feedback">https://www.chisaintjosephhealth.org/healthy-community-chna-feedback</a>. No written comments had been received on the preceding CHNA at the time this report was written.



# **Defining the Community**

Defining the community is a key component of the CHNA process as it determines the scope of the assessment and implementation strategy.

### **Process for Identifying the Community**

For the 2023-2025 Community Health Needs Assessment, the community served by Flaget Memorial Hospital, also known as the hospital's primary service area (PSA), was defined based on zip codes representing 75% of all inpatient discharges. To identify those zip codes, inpatient discharge data from July 2020 – June 2021 (fiscal year 2021) were obtained and analyzed by the patient's zip code of residence. This process identified five zip codes that define Flaget Memorial Hospital's Primary Service Area.

### **Flaget Memorial Hospital Primary Service Area**

The community served by Flaget Memorial Hospital is located about 35 miles south of Louisville, Kentucky. The geographical boundary of the hospital's primary service area is defined by five zip codes and is primarily based in Nelson County, but also extends into neighboring Washington County. The service area is home to an estimated 54,366 residents. The five zip codes that define the Flaget Memorial Hospital Primary Service Area (PSA) are colored in blue in the map below (Figure 4). The zip codes and corresponding city/county names that comprise the hospital's PSA are listed in Table 3.

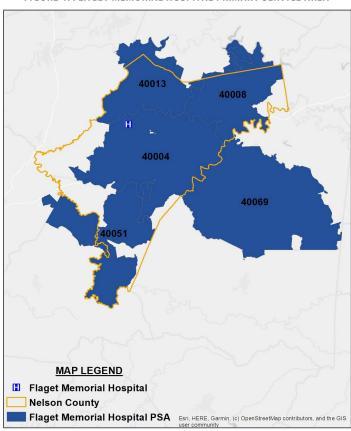


FIGURE 4. FLAGET MEMORIAL HOSPITAL PRIMARY SERVICE AREA





TABLE 3. ZIP CODES COMPRISING FMH PRIMARY SERVICE AREA, BY INPATIENT DISCHARGES

Zip Code	City	County	State	Inpatient Discharges	Percent of Total
40004	Bardstown	Nelson	KY	1060	52.6%
40013	Coxs Creek	Nelson	KY	135	6.7%
40069	Springfield	Washington	KY	112	5.6%
40008	Bloomfield	Nelson	KY	109	5.4%
40051	New Haven	Nelson	KY	103	5.1%
Other			495	24.6%	
Fiscal Year 2021 Total Discharges			2014	100%	

### **Health Professional Shortage Areas & Medically Underserved Areas**

Two medically underserved communities have been designated within the hospital's primary service area by the Health Resources and Services Administration (HRSA), including Nelson Service Area (MUA/P: 01280) and Washington County (MUA/P: 1217547666).

HRSA has also designated Spring View Clinic as a health professional shortage area for primary care, dental health, and mental health discipline professionals.

### **Geographic Levels of Data**

Due to variability in the geographic level in which public health data sets are available, data within this report may be presented at various geographic levels:

- Flaget Memorial Hospital Primary Service Area (FMH PSA) an aggregate of the five zip codes defined in Table 3
- Nelson County the county representing the greatest proportion of inpatient discharges at Flaget Memorial Hospital





# **Demographic Profile**

The demographics of a community significantly impact its health profile. Different racial, ethnic, age and socioeconomic groups may have unique needs and require varied approaches to health improvement efforts. The following section explores the demographic profile of the community served by Flaget Memorial Hospital.

### **Geography and Data Sources**

Data are presented in this section at the geographic level of the hospital's primary service area, an aggregate of the five zip codes defined earlier in this report (see <u>Flaget Memorial Hospital Primary Service Area</u>, Table 3). Comparisons to the county, state, and national value are also provided when available. All demographic estimates are sourced from Claritas Pop-Facts® (2021 population estimates) and American Community Survey one-year (2019) or five-year (2015-2019) estimates unless otherwise indicated.

### **Population**

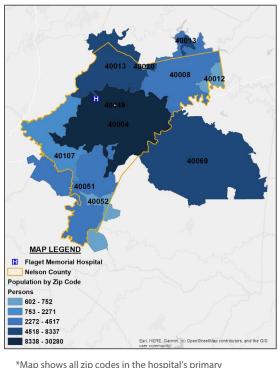
According to the 2021 Claritas Pop-Facts® population estimates, Flaget Memorial Hospital's Primary Service Area has an estimated population of 54,366 persons. Figure 5 shows the population size by each zip code, with the darkest blue representing the zip codes with the largest population. Table 4 provides the actual population estimates for each zip code. The most populated zip code area within the hospital's primary service area is zip code 40004 (Bardstown) with a population of 30,280 (Table 4). This

zip code also represents the greatest portion of inpatient discharges, at 52.6% (see Flaget Memorial Hospital Primary Service Area, Table 3). The second most populated area is zip code 40069 (Springfield), with a population of 8,337 (Table 4). Together these two zip codes comprise 71.0% of the total population in the FMH PSA. All five zip codes in the hospital's primary service area have been designated rural, according to the Federal Office of Rural Health Policy. This designation is important for government functions related to policymaking, regulation, and program administration.<sup>1</sup>

**TABLE 4. POPULATION BY ZIP CODE** 

Zip Code	City	Population
40004	Bardstown	30,280
40069	Springfield	8,337
40013	Coxs Creek	7,150
40051	New Haven	4,517
40008	Bloomfield	4,082

FIGURE 5. POPULATION BY ZIP CODE\*



<sup>\*</sup>Map shows all zip codes in the hospital's primary service area and Nelson County

<sup>&</sup>lt;sup>1</sup> Rural Health Information Hub <a href="https://www.ruralhealthinfo.org/">https://www.ruralhealthinfo.org/</a>



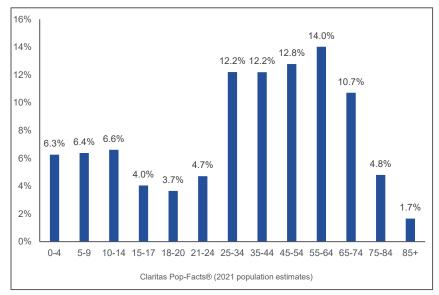


### FIGURE 6. POPULATION BY AGE, FMH PRIMARY SERVICE AREA

### Age

Figure 6 shows the population of the hospital's primary service area by age group.

The age distribution of the population in the FMH PSA is relatively similar to the age distribution of the population in Kentucky and the U.S. (Figure 7).



### FIGURE 7. POPULATION BY AGE: COUNTY, STATE AND U.S. COMPARISONS

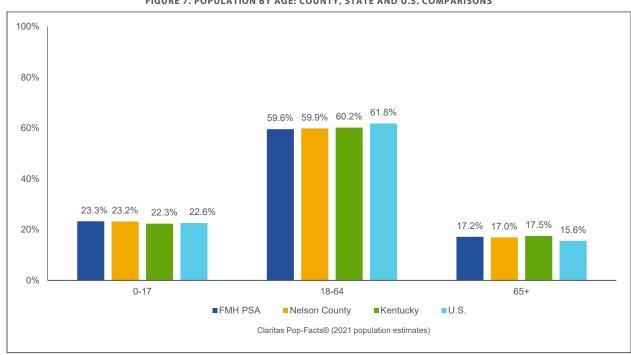
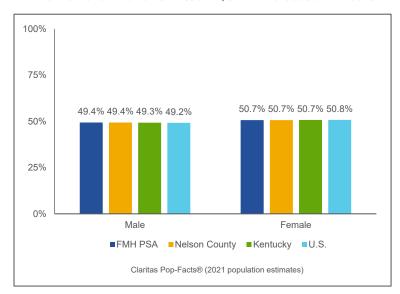




FIGURE 8. POPULATION BY SEX: COUNTY, STATE AND U.S. COMPARISONS



### Sex

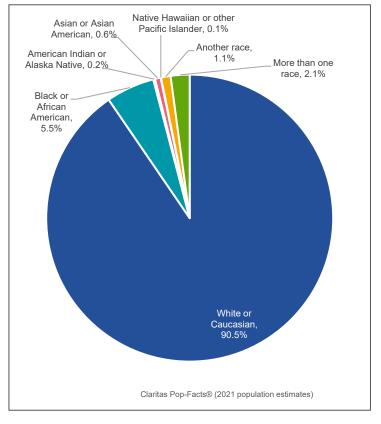
Figure 8 shows the population of the hospital's primary service area by sex. Males comprise 49.4% of the population, whereas females comprise 50.7% of the population in the FMH PSA.

### **Race and Ethnicity**

The racial and ethnic composition of a population is important in planning for future community needs, particularly for schools, businesses, community centers, health care, and childcare. Analysis of health and social determinants of health data by race/ethnicity can also help identify disparities in housing, employment, income, and poverty.

The racial makeup of the hospital's primary service area shows 90.5% of the population identifying as White, as indicated in Figure 9. The proportion of Black/African American community members is the second largest of all races in the FMH PSA at 5.5% and is the only other race that makes up more than 5% of the population.

FIGURE 9. POPULATION BY RACE, FMH PRIMARY SERVICE AREA







### FIGURE 10. POPULATION BY RACE: COUNTY, STATE AND U.S. COMPARISONS

White community members represent a higher proportion of the population in the FMH PSA when compared to Kentucky and the U.S., while Black/African American community members represent a lower proportion of the population when compared to Kentucky and the U.S. (Figure 10).

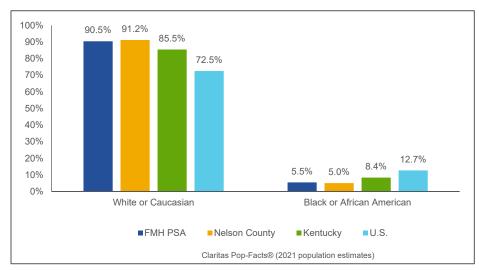
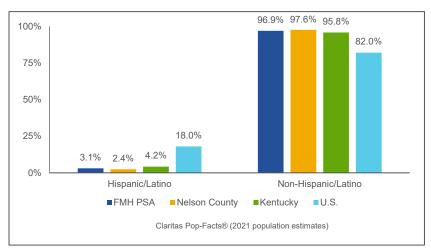


FIGURE 11. POPULATION BY ETHNICITY: COUNTY, STATE AND U.S. COMPARISONS



As shown in Figure 11, 3.1% of the population in the FMH PSA identify as Hispanic/Latino. This is a smaller proportion of the population when compared to Kentucky and the U.S.





### Language and Immigration

Understanding countries of origin and language spoken at home can help inform the cultural and linguistic context for the health and public health system. According to the American Community Survey, 1.0% of residents in Nelson County are born outside the U.S., which is lower than the state value of 3.9% and the national value of 13.6%.<sup>2</sup>

In the hospital's primary service area, 94.4% of the population age five and older speak only English at home, which is higher than both the state value of 91.9% and the national value of 78.4% (Figure 12). This data indicates that 5.6% of the population in the hospital's primary service area speak a language other than English at home.

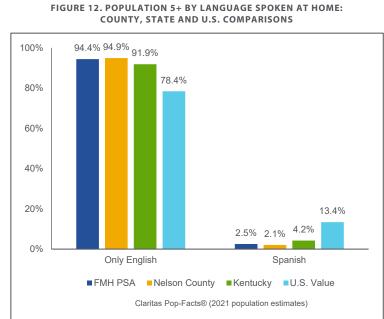
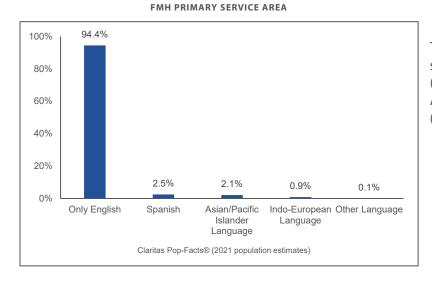


FIGURE 13. POPULATION AGE 5+ BY LANGUAGE SPOKEN AT HOME,



The most common languages spoken at home are English (94.4%), Spanish (2.5%), and Asian/Pacific Islander languages (2.1%). (Figure 13).

<sup>&</sup>lt;sup>2</sup> American Community Survey, 2015-2019





# **Social & Economic Determinants of Health**

This section explores the economic, environmental, and social determinants of health impacting the community served by Flaget Memorial Hospital. Social determinants are the conditions in which people are born, grow, work, live, and age, and the wider set of forces and systems shaping the conditions of daily life.

### **Geography and Data Sources**

Data in this section are presented at various geographic levels (zip code, primary service area, and/or county) depending on data availability. When available, comparisons to county, state and/or national values are provided. It should be noted that hospital service area or county level data can sometimes mask what could be going on at the zip code level in many communities. While indicators may be strong when examined at a higher level, zip code level analysis can reveal disparities.

All demographic estimates are sourced from Claritas Pop-Facts® (2021 population estimates) and American Community Survey one-year (2019) or five-year (2015-2019) estimates unless otherwise indicated.

### Income

Income has been shown to be strongly associated with morbidity and mortality, influencing health through various clinical, behavioral, social, and environmental factors. Those with greater wealth are more likely to have higher life expectancy and reduced risk of a range of health conditions including heart disease, diabetes, obesity, and stroke. Poor health can also contribute to reduced income by limiting one's ability to work.<sup>3</sup>

Figure 14 provides a breakdown of households by income in the hospital's primary service area. A household income of \$50,000 - \$74,999 is shared by the largest proportion of households in the FMH PSA (19.5%), followed by a household income of \$75,000 - \$99,999 (14.4% of households). Households with an income of less than \$15,000 make up 8.4% of households in the FMH PSA.

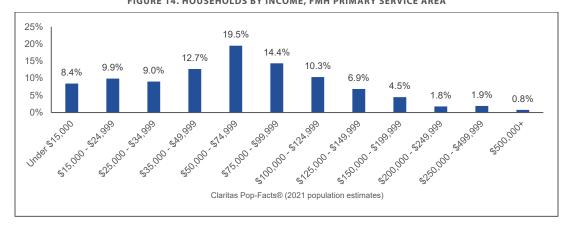


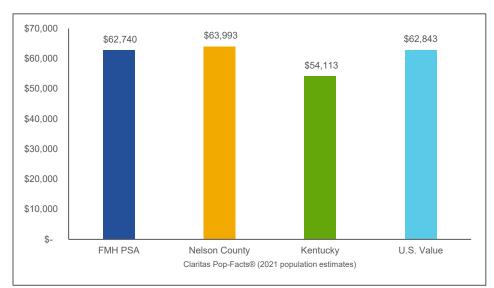
FIGURE 14. HOUSEHOLDS BY INCOME, FMH PRIMARY SERVICE AREA

<sup>&</sup>lt;sup>3</sup> Robert Wood Johnson Foundation. Health, Income, and Poverty. <a href="https://www.rwjf.org/en/library/research/2018/10/health--income-and-poverty-where-we-are-and-what-could-help.html">https://www.rwjf.org/en/library/research/2018/10/health--income-and-poverty-where-we-are-and-what-could-help.html</a>





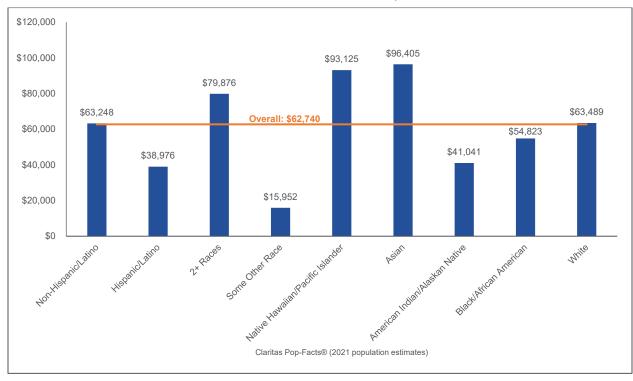
FIGURE 15. MEDIAN HOUSEHOLD INCOME: COUNTY, STATE AND U.S. COMPARISONS



The median household income for the FMH PSA is \$62,740, which is higher than the state value of \$54,113, but similar to the national value of \$62,843 (Figure 15).

Figure 16 shows the median household income by race and ethnicity. Five racial/ethnic groups – White, Asian, Native Hawaiian/Pacific Islander, Non-Hispanic/Latino, and 2+ Races – have median household incomes above the overall median value. All other races have incomes below the overall value, with the Hispanic/Latino population and Some Other Race having the lowest median household incomes at \$38,976 and \$15,952, respectively.

FIGURE 16. MEDIAN HOUSEHOLD INCOME BY RACE/ETHNICITY, FMH PRIMARY SERVICE AREA



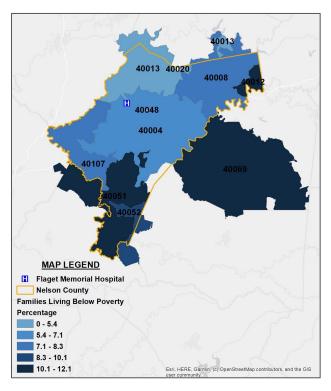


### **Poverty**

Federal poverty thresholds are set every year by the Census Bureau and vary by size of family and ages of family members. People living in poverty are less likely to have access to health care, healthy food, stable housing, and opportunities for physical activity. These disparities mean people living in poverty are more likely to experience poorer health outcomes and premature death from preventable diseases.<sup>4</sup>

Figure 17 shows the percentage of families living below the poverty level by zip code. The darker blue colors represent a higher percentage of families living below the poverty level, with zip codes 40051 (New Haven), 40069 (Springfield), and 40008 (Bloomfield) having the highest percentages at 12.2%, 11.5% and 8.3%, respectively. Overall, 8.1% of families in the FMH PSA live below the poverty level, which is lower than both the state value of 12.9% and the national value of 9.5%. The percentage of families living below poverty for each zip code in the FMH PSA is provided in Table 5.





\*Map shows all zip codes in the hospital's primary service area and Nelson County

TABLE 5. FAMILIES LIVING BELOW POVERTY LEVEL
BY ZIP CODE

Zip Code	City	Families Below Poverty Level (%)
40051	New Haven	12.2%
40069	Springfield	11.5%
40008	Bloomfield	8.3%
40004	Bardstown	7.2%
40013	Coxs Creek	5.4%
	FMH PSA	8.1%
	Nelson County	7.7%
	Kentucky	12.9%
	U.S.	9.5%

<sup>&</sup>lt;sup>4</sup> U.S. Department of Health and Human Services, Healthy People 2030. <a href="https://health.gov/healthypeople/objectives-and-data/browse-objectives/economic-stability/reduce-proportion-people-living-poverty-sdoh-01">https://health.gov/healthypeople/objectives-and-data/browse-objectives/economic-stability/reduce-proportion-people-living-poverty-sdoh-01</a>





### **Employment**

A community's employment rate is a key indicator of the local economy. An individual's type and level of employment impacts access to health care, work environment, health behaviors and health outcomes. Stable employment can help provide benefits and conditions for maintaining good health. In contrast, poor or unstable work and working conditions are linked to poor physical and mental health outcomes. <sup>5</sup>

Unemployment and underemployment can limit access to health insurance coverage and preventive care services. Underemployment is described as involuntary part-time employment, poverty-wage employment, and insecure employment.<sup>5</sup>

Type of employment and working conditions can also have significant impacts on health. Work-related stress, injury, and exposure to harmful chemicals are examples of ways employment can lead to poorer health.<sup>5</sup>

Figure 18 shows the population aged 16 and over who are unemployed. The unemployment rate for the hospital's primary service area is 5.3%, which is similar to the state value of 5.4% and the national value of 5.3%.

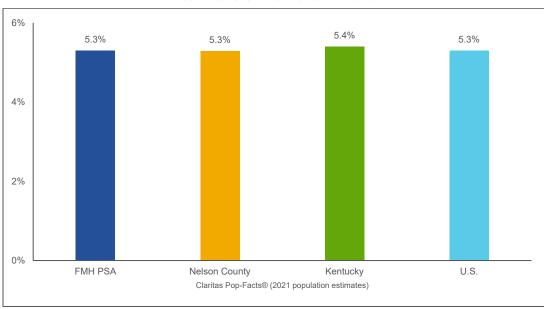


FIGURE 18. POPULATION 16+ UNEMPLOYED

<sup>&</sup>lt;sup>5</sup> U.S. Department of Health and Human Services, Healthy People 2030. <a href="https://health.gov/healthypeople/objectives-and-data/social-determinants-health/literature-summaries/employment">https://health.gov/healthypeople/objectives-and-data/social-determinants-health/literature-summaries/employment</a>



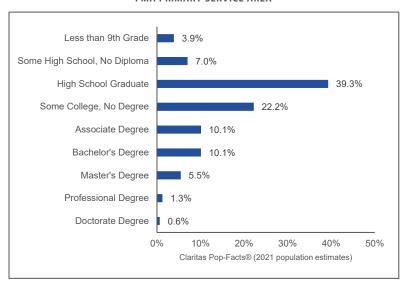


### Education

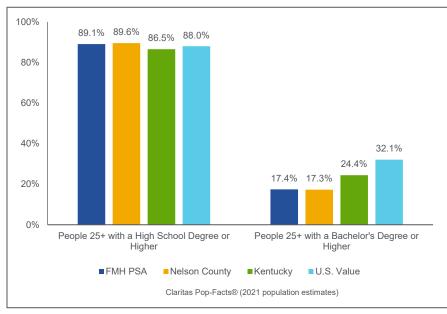
Education is an important indicator for health and wellbeing across the lifespan. Education can lead to improved health by increasing health knowledge, providing better job opportunities and higher income, and improving social and psychological factors linked to health. People with higher levels of education are likely to live longer, to experience better health outcomes, and practice health-promoting behaviors.<sup>6</sup>

Figure 19 shows the percentage of the population 25 years or older by educational attainment.

FIGURE 19. POPULATION 25+ BY EDUCATIONAL ATTAINMENT,
FMH PRIMARY SERVICE AREA



### FIGURE 20. POPULATION 25+ BY EDUCATIONAL ATTAINMENT: COUNTY, STATE AND U.S. COMPARISONS



Another indicator related to education is on-time high school graduation. A high school diploma is requirement for many employment opportunities and for higher education. Not graduating high school is linked to a variety of negative health impacts, including limited employment prospects, low wages, and poverty.<sup>7</sup>

Figure 20 shows that the hospital's primary service area has a higher percentage of residents with a high school degree

than in Kentucky and the U.S.; however, the percentage of residents with a bachelor's degree is markedly lower in both Nelson County and the FMH PSA when compared to Kentucky and the U.S.

<sup>&</sup>lt;sup>7</sup> U.S. Department of Health and Human Services, Healthy People 2030. <a href="https://health.gov/healthypeople/objectives-and-data/social-determinants-health/literature-summaries/high-school-graduation">https://health.gov/healthypeople/objectives-and-data/social-determinants-health/literature-summaries/high-school-graduation</a>





<sup>&</sup>lt;sup>6</sup> Robert Wood Johnson Foundation, Education and Health. <u>https://www.rwjf.org/en/library/research/2011/05/education-matters-for-health.html</u>

### Housing

Safe, stable, and affordable housing provides a critical foundation for health and wellbeing. Exposure to health hazards and toxins in the home can cause significant damage to an individual or family's health.<sup>8</sup>

Figure 21 shows the percentage of houses with severe housing problems. This indicator measures the percentage of households with at least one of the following problems: overcrowding, high housing costs, lack of kitchen, or lack of plumbing facilities. In Nelson County, 10.3% of households were found to have at least one of those problems, which is lower than both the state value (13.7%) and national value (16.0%).

FIGURE 21. HOUSEHOLDS WITH SEVERE HOUSING PROBLEMS

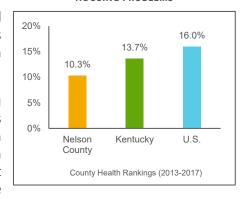
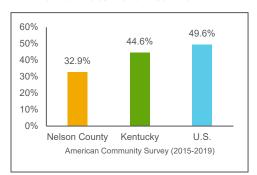


FIGURE 22. RENTERS SPENDING 30% OR MORE OF HOUSEHOLD INCOME ON RENT



When families must spend a large portion of their income on housing, they may not have enough money to pay for things like healthy foods or health care. This is linked to increased stress, mental health problems, and an increased risk of disease.<sup>9</sup>

Figure 22 shows the percentage of renters who are spending 30% or more of their household income on rent. The value in Nelson County, 32.9%, is lower than both the state value (44.6%) and national value (49.6%).

### Neighborhood and Built Environment

Access to the internet is an important indicator for health and wellbeing. Internet access is essential for basic health care access, including making appointments with providers, getting test results, and accessing medical records. Access to the internet is also increasingly essential for obtaining home-based telemedicine services.<sup>10</sup>

Internet access may also help individuals seek employment opportunities, conduct remote work, and participate in online educational activities.<sup>10</sup>

FIGURE 23. HOUSEHOLDS WITH AN INTERNET SUBSCRIPTION

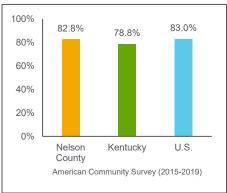


Figure 23 shows the percentage of households that have an internet subscription. The rate in Nelson County, 82.8%, is higher than the state value (78.8%), but slightly lower than the national value (83.0%).

<sup>&</sup>lt;sup>9</sup> U.S. Department of Health and Human Services, Healthy People 2030. <a href="https://health.gov/healthypeople/objectives-and-data/browse-objectives/housing-and-homes/reduce-proportion-families-spend-more-30-percent-income-housing-sdoh-04">https://health.gov/healthypeople/objectives-and-data/browse-objectives/health and Human Services, Healthy People 2030. <a href="https://health.gov/healthypeople/objectives-and-data/browse-objectives/neighborhood-and-built-environment/increase-proportion-adults-broadband-internet-hchit-05">https://health.gov/healthypeople/objectives-and-data/browse-objectives/neighborhood-and-built-environment/increase-proportion-adults-broadband-internet-hchit-05</a>





<sup>&</sup>lt;sup>8</sup> County Health Rankings, Housing and Transit. <a href="https://www.countyhealthrankings.org/explore-health-rankings/measures-data-sources/county-health-rankings-model/health-factors/physical-environment/housing-and-transit">https://www.countyhealth-rankings/measures-data-sources/county-health-rankings-model/health-factors/physical-environment/housing-and-transit</a>

# **Disparities and Health Equity**

Identifying disparities by population groups and geography helps to inform and focus priorities and strategies. Understanding disparities also helps us better understand root causes that impact health in a community and inform action towards health equity.

### **Health Equity**

Health equity focuses on the fair distribution of health determinants, outcomes, and resources across communities. <sup>11</sup> National trends have shown that systemic racism, poverty, and gender discrimination have led to poorer health outcomes for groups such as Black/African American persons, Hispanic/Latino persons, indigenous communities, people with incomes below the federal poverty level, and LGBTQ+communities.

### Race, Ethnicity, Age & Gender Disparities

Primary and secondary data revealed significant community health disparities by race, ethnicity, gender, and age. It is important to note that while much of the data is presented to show differences and disparities of data by population groups, differences within each population group can be as great as differences between different groups. For instance, Asian or Asian and Pacific Islander persons encompasses individuals from over 40 different countries with very different languages, cultures, and histories in the U.S. Information and themes captured through key informant interviews, a focus group discussion, and an online community survey have been shared to provide a more comprehensive and nuanced understanding of each community's experiences.

### **Secondary Data**

Community health disparities were assessed in the secondary data using the Index of Disparity <sup>12</sup> analysis, which identifies disparities based on how far each subgroup (by race, ethnicity or gender) is from the overall county value. For more detailed methodology related to the Index of Disparity, see Appendix B.

Table 6 below identifies secondary data indicators with a statistically significant race, ethnicity, or gender disparity for Nelson County, based on the Index of Disparity.

<sup>&</sup>lt;sup>12</sup> Pearcy, J. & Keppel, K. (2002). A Summary Measure of Health Disparity. Public Health Reports, 117, 273-280.





<sup>&</sup>lt;sup>11</sup> Klein R, Huang D. Defining and measuring disparities, inequities, and inequalities in the Healthy People initiative. National Center for Health Statistics. Center for Disease Control and Prevention. https://www.cdc.gov/nchs/ppt/nchs2010/41\_klein.pdf

TABLE 6. INDICATORS WITH SIGNIFICANT RACE, ETHNICITY OR GENDER DISPARITIES

Health Indicator	Group Negatively Impacted
Age-Adjusted Death Rate due to Cerebrovascular Disease (Stroke)	Male
Age-Adjusted Death Rate due to Coronary Heart Disease	Male
Age-Adjusted Death Rate due to Lung Cancer	Male
Children Living Below Poverty Level	Multiple Races, Other Race, Hispanic/Latino, Female
Families Living Below Poverty Level	Other Race, Hispanic/Latino
Lung and Bronchus Cancer Incidence Rate	Male
People Living Below Poverty Level	American Indian/Alaska Native, Multiple Races, Other Race, Hispanic/Latino
Workers who Walk to Work	Black/African American, White, Asian, Multiple Races
Youth not in School or Working	Male

The Index of Disparity analysis for Nelson County reveals that the male population is disproportionately impacted for several chronic diseases, including stroke, coronary heart disease and lung cancer. Further, the male population is disproportionately impacted for youth aged 16 to 19 who are not enrolled in school and not working (Table 6).

Multiple racial and ethnic groups are disproportionately impacted across various measures of poverty, which is often associated with poorer health outcomes. These groups include the Hispanic/Latino population, those identifying as More than One Race, and those identifying as Some Other Race (Table 6).

### **Primary Data**

Key informants and focus group participants mentioned that people with lower incomes and financial challenges tend to struggle the most. One key informant added that the Black/African American and Hispanic/Latino communities are more likely to be negatively impacted by poverty, which contributes to poor health outcomes. Distrust and fear were also mentioned as concerns within the Hispanic/Latino community, and one key informant pointed to language barriers impacting both the Hispanic/Latino community and those who do not speak English as their primary language. Additionally, key informants emphasized that older adults experience more barriers to accessing health care and services when compared to younger populations. Primary concerns affecting the older adult population include high rates of chronic disease and financial instability. Those with lower educational attainment were also cited as struggling more than others when it comes to accessing services. Many of these challenges are documented further in Barriers to Care.



### **Geographic Disparities**

In addition to disparities by race, ethnicity, gender, and age, this assessment also identified specific zip codes/municipalities with differences in outcomes related to health and social determinants of health. Geographic disparities were identified using the SocioNeeds Index and Food Insecurity Index. These indices have been developed by Conduent Healthy Communities Institute to easily identify areas of high socioeconomic need or food insecurity. Conduent's SocioNeeds Index estimates areas of highest socioeconomic need correlated with poor health outcomes. Conduent's Food Insecurity Index estimates areas of low food accessibility correlated with social and economic hardship. For both indices, counties, zip codes, and census tracts with a population over 300 are assigned index values ranging from 0 to 100, with higher values indicating greater need. Understanding where there are communities with higher need is critical to targeting prevention and outreach activities.

### SocioNeeds Index

Conduent's SocioNeeds Index (SNI) estimates areas of high socioeconomic need, which are correlated with poor health outcomes. Zip codes are ranked based on their index value to identify relative levels of need, as illustrated by the map in Figure 24. The following zip codes in the FMH PSA had the highest level of socioeconomic need (as indicated by the darkest shades of blue): 40051 (New Haven), 40069 (Springfield), and 40008 (Bloomfield) with index values of 74.2, 69.0 and 61.1, respectively. Table 7 provides the index values for each zip code.

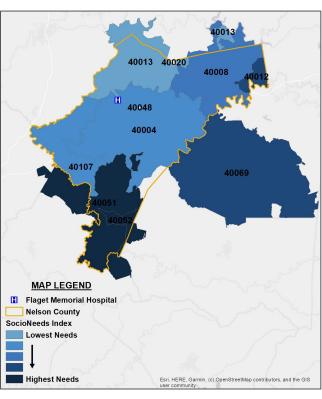


FIGURE 24. SOCIONEEDS INDEX\*

\*Map shows all zip codes in the hospital's primary service area and Nelson County

TABLE 7. SOCIONEEDS INDEX VALUES BY ZIP CODE

Zip Code	City	Index Value
40051	New Haven	74.2
40069	Springfield	69.0
40008	Bloomfield	61.1
40004	Bardstown	50.1
40013	Coxs Creek	38.2
	Nelson County	41.2*

\*County index values are calculated separately from zip code index values, and the two should not be compared to each other. While index values range from 0-100 at both the county and zip code level, zip code index values represent the percentile of each zip code among all U.S. zip codes, while county index values represent the percentile of each county among all U.S. counties.



### Food Insecurity Index

Conduent's Food Insecurity Index estimates areas of low food accessibility correlated with social and economic hardship. Zip codes are ranked based on their index value to identify relative levels of need, as illustrated by the map in Figure 25. The following zip codes had the highest level of food insecurity (as indicated by the darkest shades of green): 40004 (Bardstown), 40051 (New Haven), and 40069 (Springfield), with index values of 71.6, 69.8 and 66.1, respectively. Table 8 provides the index values for each zip code.

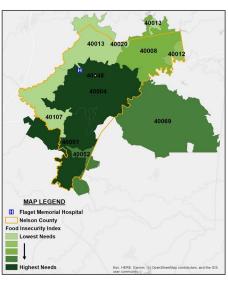


FIGURE 25, FOOD INSECURITY INDEX\*

\*Map shows all zip codes in the hospital's primary service area and Nelson County

TABLE 8. FOOD INSECURITY INDEX VALUES
BY ZIP CODE

Zip Code	City	Index Value
40004	Bardstown	71.6
40051	New Haven	69.8
40069	Springfield	66.1
40008	Bloomfield	56.1
40013	Coxs Creek	36.5
	Nelson County	54.1*

\*County index values are calculated separately from zip code index values, and the two should not be compared to each other. While index values range from 0-100 at both the county and zip code level, zip code index values represent the percentile of each zip code among all U.S. zip codes, while county index values represent the percentile of each county among all U.S. counties.

### **Primary Data**

The southern part of Nelson County was mentioned frequently by key informants as a geographic area of greater need. Key informants noted a higher concentration of poverty, lack of transportation, and less access to resources as ongoing concerns for residents in the southern part of the county, and specifically named New Haven, New Hope and Boston as areas with more challenges. Fairfield and Bloomfield, in the northern part of the county, were also cited as geographic areas of greater need. While several key informants also pointed to low-income housing areas within Bardstown, one key informant mentioned that residents living in Bardstown have access to services and programs that are not easily accessible to residents in the more rural areas.

### **Future Considerations**

While disparities in health outcomes by race, ethnicity, gender, age, and geography are critical components in assessing the needs of a community, it is equally important to understand the social determinants of health and other upstream factors that influence a community's health. The challenges and barriers faced by a community must be balanced by identifying practical, community-driven solutions. Together, these factors come together to inform and focus strategies to positively impact a community's health and mitigate the disparities faced along gender, racial, ethnic, or geographic lines in the community served by Flaget Memorial Hospital.



# Primary and Secondary Data Methodology and Key Findings

### **Overview**

Multiple types of data were collected and analyzed to inform this Community Health Needs Assessment. Primary data consisted of key informant interviews, a focus group discussion and a community survey, while secondary data included indicators spanning health outcomes, health behaviors and social determinants of health. The methods used to analyze each type of data are outlined below. The findings from each data source were then synthesized and organized by health topic to present a comprehensive overview of the health needs in Nelson County.

### **Secondary Data Sources & Analysis**

Secondary data used for this assessment were collected and analyzed from a community indicator database developed by Conduent Healthy Communities Institute (HCI). The database, maintained by researchers and analysts at HCI, includes over 150 community indicators, spanning at least 24 topics in the areas of health, determinants of health, and quality of life. The data are primarily derived from state and national public secondary data sources. The value for each of these indicators is compared to other communities, national targets, and to previous time periods.

HCl's Data Scoring Tool systematically summarizes multiple comparisons and ranks indicators based on highest need. For each indicator, the Nelson County value

was compared to a distribution of Kentucky and U.S. counties, state and national values, Healthy People 2030 targets, and significant trends, as shown in Figure 26. Each indicator was then given a score based on the

U.S. Counties

Kentucky State Value

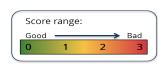
U.S. Value

HP2030

Trend

Trend

FIGURE 26. SECONDARY DATA SCORING



available comparisons. These scores range from 0 to 3, where 0 indicates the best outcome and 3 indicates the worst outcome. Availability of each type of comparison varies by indicator and is dependent upon the data source, comparability with data collected from other communities, and changes in methodology over time. These indicators were grouped into topic areas for a higher-level ranking of community health needs.

Due to the limited availability of zip code, census tract, or other sub-county health data, the data scoring technique is only available at the county level. The data scoring results for Flaget Memorial Hospital are therefore presented in the context of Nelson County.



Table 9 shows the health and quality of life topic scoring results for Nelson County, with Sexually Transmitted Infections as the poorest performing topic area with a score of 1.84, followed by Mental Health & Mental Disorders with a score of 1.81. Topics that received a score of 1.50 or higher were considered a significant health need. Eleven topics scored at or above the threshold. Topic areas with fewer than three indicators were considered a data gap.

Table 9 shows only those topic areas that met the threshold of 1.50 to be considered a significant health need. Please see Appendix A for the full list of health and quality of life topics, including the list of national and state indicators that are categorized into and included in the secondary data analysis for each topic area. Further details on the quantitative data scoring methodology are also available in Appendix A.

**TABLE 9. TOPIC SCORING RESULTS** 

Topic Area	Score
Sexually Transmitted Infections	1.84
Mental Health & Mental Disorders	1.81
Education	1.77
Other Conditions	1.74
Mortality Data	1.73
Cancer	1.66
Alcohol & Drug Use	1.62
Oral Health	1.61
Older Adults	1.54
Physical Activity	1.53
Immunizations & Infectious Diseases	1.53

### **Primary Data Collection & Analysis**

To ensure the perspectives of community members were considered, input was collected from residents of the community served by Flaget Memorial Hospital. Primary data used in this assessment consisted of key informant interviews, a focus group discussion, and an online community survey. These findings expanded upon information gathered from the secondary data analysis to inform this Community Health Needs Assessment.

### **Community Survey**

Flaget Memorial Hospital gathered community input from an online survey to inform its Community Health Needs Assessment. The survey was promoted across the five primary counties served by the seven CHI Saint Joseph Health hospital facilities: Fayette, Laurel, Madison, Montgomery, and Nelson counties in Kentucky. Responses were collected from September 2, 2021, to October 20, 2021. Both an English and Spanish version of the survey were made available. A paper survey was also developed, but its distribution was limited due to health concerns and the challenge of many distribution sites operating at limited capacity during the COVID-19 pandemic. The survey consisted of 47 questions related to top health needs in the community, individuals' perception of their overall health, individuals' access to health care services, as well as social and economic determinants of health. The list of survey questions is available in Appendix E.

Survey marketing and outreach efforts included email invitations, social media and other marketing efforts through CHI Saint Joseph Health and its partner organizations. A total of 870 responses were collected for the entire survey target area, which included all 7 hospital facilities spanning Fayette, Laurel, Madison, Montgomery and Nelson counties in Kentucky. Out of those survey responses, 74 (8.5%) were from community members residing in Nelson County. For purposes of this CHNA, the survey data that follows is based on an analysis of responses from community members residing in Nelson County.





### **Demographic Profile of Survey Respondents**

Nelson County survey respondents were more likely to be educated, have a higher income, identify as female, identify as Non-Hispanic/Latino, and skew older when compared to the actual population estimates reflected in the demographic data for Nelson County. Survey responses also indicate that the percentage of both White respondents and Black/African American respondents was slightly lower than the proportions reflected in the actual population estimates for Nelson County. See Appendix C for additional details on the demographic profile of survey respondents.

### **Community Survey Analysis Results**

Survey participants were asked about the most important health issues and which quality of life issues they would most like to see addressed in the community. The top responses for these questions are shown in Figures 27 and 28 below.

FIGURE 27. MOST IMPORTANT COMMUNITY HEALTH ISSUES
AMONG SURVEY RESPONDENTS

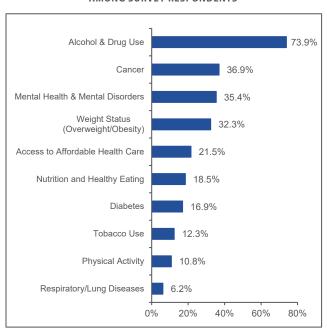
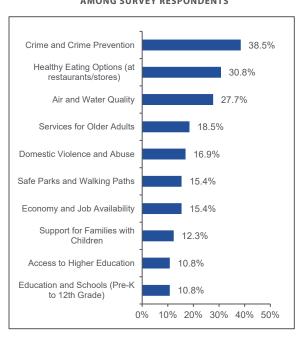


FIGURE 28. MOST IMPORTANT QUALITY OF LIFE ISSUES
AMONG SURVEY RESPONDENTS



As shown in Figure 27, the most important community health issues identified by survey respondents were Alcohol & Drug Use (73.9% of respondents), Cancer (36.9% of respondents), Mental Health & Mental Disorders (35.4%), Weight Status (32.3%) and Access to Affordable Health Care (21.5%). A health topic was considered to be a significant need if at least 20% of survey respondents identified it as a top health issue.

As shown in Figure 28, Crime and Crime Prevention was identified by survey respondents as the most pressing quality of life issue (38.5% of respondents), followed by Healthy Eating Options at restaurants, stores and markets (30.8%), and Air and Water Quality (27.7%). Similar to the health topics, a quality of life topic was considered to be a significant need if at least 20% of survey respondents identified it as a pressing issue.





### Qualitative Data: Key Informant Interviews & Focus Group Discussion

Five key informant interviews and one focus group discussion were conducted to gain deeper understanding of health issues impacting the residents of the community served by Flaget Memorial Hospital. Community members invited to participate were recognized as having expertise in public health, special knowledge of community health needs, representing the broad interests of the community served by the hospital, and/or being able to speak to the needs of medically underserved or vulnerable populations.

A total of 11 different organizations participated in the process, including the local health department, social service organizations, local businesses, and representatives from the education sector. Table 10 lists the organizations that participated in these discussions.

These discussions took place between August 2021 and October 2021. Due to the ongoing COVID-19 pandemic, each discussion was conducted virtually by phone and/or webinar. A questionnaire was developed to guide each interview and the focus group discussion. Discussion topics included (1) biggest perceived health needs in the community, (2) barriers of concern, and (3) the impact of health issues on vulnerable populations. Interviewees were also asked about their knowledge around health topics where there were data gaps in the

Bardstown City Schools
City of Bardstown Fire Department
Flaget Memorial Hospital
Guthrie Opportunity Center
Lincoln Trail District Health Department
Nelson County Community Clinic
Nelson County Drug Coalition
Nelson County EMS
Nelson County Schools
Talbott Tavern
The Kentucky Standard

secondary data. Additionally, questions were included to get feedback about the impact of COVID-19 on the community (see COVID-19 Impact Snapshot in Appendix D). The list of questions included in the key informant interviews and focus group discussion can be found in Appendix E.

### **Key Informant & Focus Group Analysis Results**

The project team captured detailed transcripts of the key informant interviews and focus group discussion. The text from these transcripts were analyzed using the qualitative analysis tool Dedoose<sup>®13</sup>. Text was coded using a pre-designed codebook, organized by themes and analyzed for significant observations. Figure 29 summarizes the main themes and topics that emerged from these discussions.

<sup>&</sup>lt;sup>13</sup> Dedoose Version 8.0.35, web application for managing, analyzing, and presenting qualitative and mixed method research data (2018). Los Angeles, CA: Sociocultural Research Consultants, LLC www.dedoose.com





### **Top Health Concerns/Issues**

- Air Quality
- Alcohol & Drug Use
- Mental Health & Mental Disorders
- Obesity
- Tobacco Use

### **Barriers to Care**

- Awareness
- Cost / Lack of Insurance / Underinsurance
- Fear or stigma
- Navigating the health care system
- Transportation

# Most Negatively Impacted Populations

- Low Income
- Minorities
- Older Adults
- Geographic: southern end of county, New Haven, Bloomfield

The findings from the qualitative analysis were combined with findings from the secondary data and survey analysis, and are incorporated throughout this report in more detail (see <u>Prioritized Health Needs</u>, <u>Barriers to Care</u> and Appendix D: COVID-19 Impact Snapshot sections of this report).

### **Data Considerations**

A key part of any data collection and analysis process is recognizing potential limitations within the data considered. Each data source used in this assessment was evaluated based on its strengths and limitations during data synthesis and should be kept in mind when reviewing this report.

For both primary and secondary data, immense efforts were made to include as wide a range of community health indicators, key informant experts, focus group participants and survey respondents as possible. Although the topics by which data are organized cover a wide range of health and quality of life areas, within each topic there is a varying scope and depth of secondary data indicators and primary data findings.

Secondary data were limited by the availability of data, with some health topics having a robust set of indicators, while others were more limited. Population health and demographic data are often delayed in their release, so data is presented for the most recent years available for any given data source. There is also variability in the geographic level at which data sets are available, ranging from census tract or zip code to statewide or national geographies. Whenever possible, the most relevant localized data is reported. Due to variations in geographic boundaries, population sizes, and data collection techniques for different locations (hospital service areas, zip codes, and counties), some datasets are not available for the same time spans or at the same level of localization. The Index of Disparity<sup>14</sup>, used to analyze disparities for the secondary data, is also limited by data availability – some secondary data sources do not include subpopulation data and others only display values for a select number of race/ethnic groups. Finally, persistent gaps in data systems exist for certain community health issues.

For the primary data, the breadth of findings is dependent upon who was selected to be a key informant or who self-selected to participate in the focus group discussion. Additionally, the community survey was a convenience sample, which means results may be vulnerable to selection bias and make the findings less generalizable.

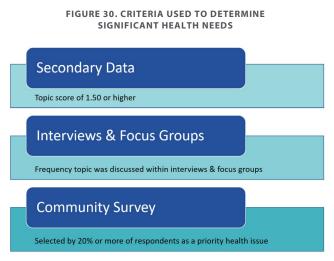
<sup>&</sup>lt;sup>14</sup> Pearcy, J. & Keppel, K. (2002). A Summary Measure of Health Disparity. Public Health Reports, 117, 273-280.





# **Identification of Significant Health Needs**

Secondary data used in this assessment consisted of community health indicators, while primary data consisted of key informant interviews, a focus group discussion, and an online community survey. Findings from all these data sources were analyzed and combined to identify the significant health needs for the community served by Flaget Memorial Hospital.



# **Criteria for Significant Health Needs**

Health needs were determined to be significant if they met certain criteria in at least one of the three data sources: a secondary data score of 1.50 or higher, frequency by which the topic was discussed within/across interviews and the focus group, and identification as a priority issue by 20% or more of survey respondents. Figure 30 summarizes these criteria.

### **Significant Health Needs**

Based on the criteria shown in Figure 30, thirteen needs emerged as significant. Figure 31 illustrates the final 13 significant health needs, listed in alphabetical order, that were included for prioritization based on the findings of all forms of data collected for the Flaget Memorial Hospital 2023-2025 CHNA.

### FIGURE 31. SIGNIFICANT HEALTH NEEDS

Air and Water Quality	Mental Health & Mental Disorders	
Alcohol & Drug Use	Older Adults	
Cancer	Oral Health	
Crime & Crime Prevention	Sexually Transmitted Infections	
Education	Tobacco Use	
Health Care Access & Quality	Weight Status, Physical Activity & Nutrition	(\$C)
Immunizations & Infectious Diseases		





# **Data Synthesis**

To gain a comprehensive understanding of the significant health needs, the findings from all three data sources were analyzed for areas of overlap.

### **Overlapping Evidence of Need**

Table 11 outlines the 13 significant health needs (in alphabetical order) alongside the corresponding data sets that identified the need as significant. Secondary data identified nine needs as significant. Discussions with key informants and focus group participants identified five topic areas of greater need, and the community survey identified eight needs as significant.

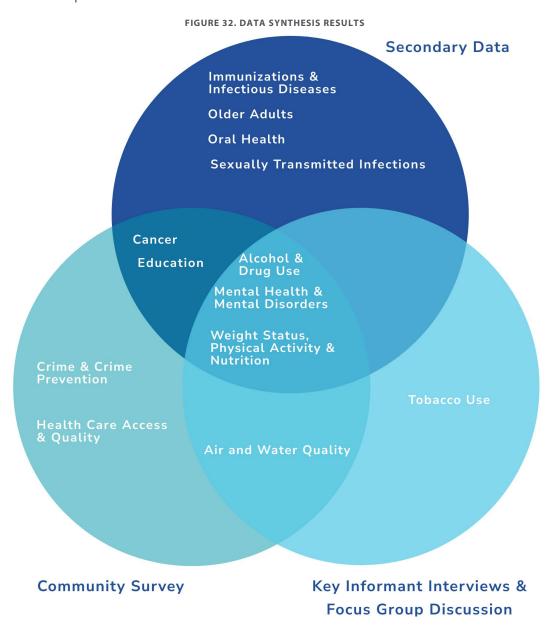
TABLE 11. OVERLAPPING EVIDENCE OF NEED

Topic	Data Source(s)
Air and Water Quality	Community Survey, Qualitative Data
Alcohol & Drug Use	Community Survey, Secondary Data, Qualitative Data
Cancer	Community Survey, Secondary Data
Crime & Crime Prevention	Community Survey
Education	Community Survey, Secondary Data
Health Care Access & Quality	Community Survey
Immunizations & Infectious Diseases	Secondary Data
Mental Health & Mental Disorders	Community Survey, Secondary Data, Qualitative Data
Older Adults	Secondary Data
Oral Health	Secondary Data
Sexually Transmitted Infections	Secondary Data
Tobacco Use	Qualitative Data
Weight Status, Physical Activity & Nutrition	Community Survey, Secondary Data, Qualitative Data



#### Venn Diagram

The Venn Diagram in Figure 32 visually displays the results of the primary and secondary data synthesis. Three topics were considered significant across all 3 data sources – Alcohol & Drug Use, Mental Health & Mental Disorders, and Weight Status, Physical Activity & Nutrition. An additional three topics were considered significant across two data sources. These topics include Air and Water Quality, Cancer and Education. For all other topic areas, the evidence was present in just one source of data. It should be noted, however, that this may be reflective of the strength and limitations of each type of data that was considered in this process.





### **Significant Needs Identified Across CHI Saint Joseph Health**

In reviewing the significant health needs identified for the community served by Flaget Memorial Hospital, it's also important to consider the significant health needs identified systemwide. While each facility has the authority to prioritize and select which health areas it will ultimately consider for subsequent implementation planning, there are obvious benefits to prioritizing those health areas that overlap with other hospitals in the system, including consistency, resource sharing and most importantly, the ability to have a larger impact.

The seven facilities that make up CHI Saint Joseph Health and are required to conduct a CHNA include Saint Joseph Hospital, Saint Joseph East, Continuing Care Hospital, Saint Joseph Berea, Saint Joseph London, Saint Joseph Mount Sterling, and Flaget Memorial Hospital. These seven facilities are primarily based in Fayette, Laurel, Madison, Montgomery, and Nelson counties in Kentucky.

Across all seven facilities, a total of 24 needs emerged as significant. Figure 33 shows how the 13 significant health topics that were identified for Flaget Memorial Hospital and Nelson County overlap with the other four counties and six facilities comprising the CHI Saint Joseph Health system.

FIGURE 33. SIGNIFICANT HEALTH NEEDS IDENTIFIED ACROSS CHI SAINT JOSEPH HEALTH SYSTEM

Nelson County	Fayette County	Laurel County	Madison County	Montgomery County
(Flaget Memorial Hospital)	(Saint Joseph Hospital, Saint Joseph East, Continuing Care Hospital)	(Saint Joseph London)	(Saint Joseph Berea)	(Saint Joseph Mount Sterling)
Air & Water Quality				
Alcohol & Drug Use	Alcohol & Drug Use	Alcohol & Drug Use	Alcohol & Drug Use	Alcohol & Drug Use
Cancer		Cancer		Cancer
Crime & Crime Prevention	Crime & Crime Prevention	Crime & Crime Prevention	Crime & Crime Prevention	
Education				Education
Health Care Access & Quality	Health Care Access & Quality			Health Care Access & Quality
Immunizations & Infectious Diseases	Immunizations & Infectious Diseases			
Mental Health & Mental Disorders	Mental Health & Mental Disorders	Mental Health & Mental Disorders	Mental Health & Mental Disorders	Mental Health & Mental Disorders
Older Adults		Older Adults	Older Adults	Older Adults
Oral Health		Oral Health		Oral Health
Sexually Transmitted Infections	Sexually Transmitted Infections		Sexually Transmitted Infections	Sexually Transmitted Infections
Tobacco Use	Tobacco Use	Tobacco Use	Tobacco Use	Tobacco Use
Weight Status, Physical Activity & Nutrition	Weight Status, Physical Activity & Nutrition	Weight Status, Physical Activity & Nutrition	Weight Status, Physical Activity & Nutrition	Weight Status, Physical Activity & Nutrition

As seen in Figure 33, four topics emerged as a significant need across all five counties: (1) Alcohol & Drug Use (2) Mental Health & Mental Disorders (3) Tobacco Use and (4) Weight Status, Physical Activity & Nutrition.





### **Prioritization**

To better target activities to address the most pressing health needs in the community, Flaget Memorial Hospital convened a group of community leaders to participate in a presentation of data on significant health needs facilitated by HCI. Following the presentation and question session, participants were given access to an online link to complete a scoring exercise to assign a score to each significant health need based on a set of criteria. The process was conducted virtually to maintain social distancing and safety guidelines related to the COVID-19 pandemic.

Leadership at CHI Saint Joseph Health and Flaget Memorial Hospital, including the hospital's Healthy Communities / Community Benefit Committee, reviewed the scoring results of the significant community needs alongside additional supporting evidence and identified three priority areas to be considered for subsequent implementation planning.

#### **Process**

An invitation to participate in the Flaget Memorial Hospital CHNA data synthesis presentation and virtual prioritization activity was sent out in the weeks preceding the meeting held on November 4, 2021. A total of 16 individuals representing local hospital systems, the health department, educational institutions as well as community-based organizations and nonprofits attended the virtual presentation and of these, nine completed the online prioritization activity.

During the November 4<sup>th</sup> meeting, the group reviewed and discussed the results of HCl's primary and secondary data analyses leading to the significant health needs shown in <u>Figure 31</u>. A one-page handout called a "Prioritization Cheat Sheet" (see Appendix F) was provided to participants to support the virtual prioritization activity. From there, participants were given one day to access an online link and assign a score to each of the significant health needs based on how well they met the criteria set forth by the hospital. The group also agreed that root causes, disparities, and social determinants of health would be considered for all prioritized health topics resulting from the online prioritization activity.

The criteria for prioritization included:

- 1. Magnitude of the Issue
  - o How many people in the community are or will be impacted?
  - How does the identified need impact health and quality of life?
  - Has the need changed over time?

#### 2. Ability to Impact

- Can actionable and measurable goals be defined to address the health need? Are those goals achievable in a reasonable time frame?
- Does the hospital or health system have the expertise or resources to address the identified health need?
- Can the need be addressed in collaboration with community partners? Are organizations already addressing the health issue?

Participants assigned a score of 1-3 to each health topic and criterion, with a higher score indicating a greater likelihood for that topic to be prioritized. For example, participants assigned a score of 1-3 to each topic based on whether the magnitude was (1) least concerning, (2) somewhat concerning or (3)





most concerning. Along a similar line, participants assigned a score of 1-3 to each topic based on (1) least ability to impact (2) some ability to impact or (3) most ability to impact. In addition to considering the data presented by HCI in the presentation and on the prioritization cheat sheet, participants were encouraged to use their own judgment and knowledge of the community in considering how well a health topic met the criteria.

Completion of the online exercise resulted in a numerical score for each health topic and criterion. Numerical scores for the two criteria were equally weighted and averaged to produce an aggregate score and overall ranking for each health topic. The aggregate ranking can be seen in Figure 34 below. For those topics with identical scores, the health needs are listed in alphabetical order.

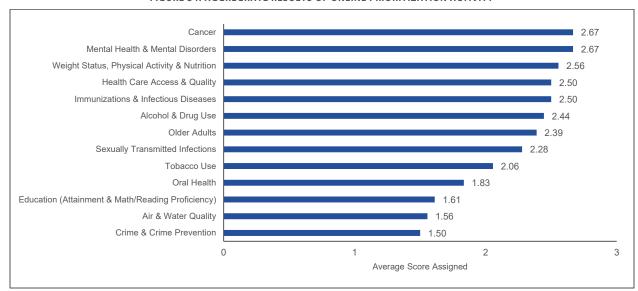


FIGURE 34. AGGREGRATE RESULTS OF ONLINE PRIORITIZATION ACTIVITY

### **Prioritized Significant Health Needs**

The ranked order of significant health needs that resulted from the prioritization process were presented to leadership at CHI Saint Joseph Health and Flaget Memorial Hospital, including the hospital's Healthy Communities / Community Benefit Committee. The committee reviewed the scoring results of the online prioritization activity for Flaget Memorial Hospital, in conjunction with the trending health needs that were identified as significant across all seven facilities in the CHI Saint Joseph Health

system (Figure 33). While Tobacco Use and Alcohol & Drug Use did not score as high as Mental Health & Mental Disorders and Weight Status, Physical Activity & Nutrition in the online prioritization activity for Flaget Memorial Hospital (Figure 34), the committee ultimately decided to prioritize the four health needs that were identified as significant across all seven hospital facilities: Alcohol & Drug Use, Mental Health & Mental Disorders, Tobacco Use, and Weight Status, Physical Activity & Nutrition (Figure 33).

Alcohol, Tobacco & Drug Use

Mental Health & Mental Disorders

Weight Status, Physical Activity & Nutrition

A decision was made to combine the prioritized health areas of Alcohol & Drug Use and Tobacco Use, resulting in a final selection of three priority health areas that will be considered for subsequent implementation planning (Table 12). The three health needs shown in Table 12 were identified as a priority not only for Flaget Memorial Hospital, but across all seven facilities comprising CHI Saint Joseph





Health: Saint Joseph Hospital, Saint Joseph East, Continuing Care Hospital, Saint Joseph Berea, Saint Joseph London, Saint Joseph Mount Sterling, and Flaget Memorial Hospital.

Many of these health topics are consistent with the priority areas that emerged from the previous CHNA process, not only for Flaget Memorial Hospital, but for other facilities as well. The committee strategically selected the topics shown in Table 12 as the final prioritized health needs for all seven facilities to allow for consistency across the system, resulting in a larger footprint and more substantial impact. By selecting these overlapping health needs, CHI Saint Joseph Health has positioned itself to achieve greater collective impact through means of a common agenda, shared goals/objectives, and mutually reinforcing activities, all of which will be outlined in each hospital's upcoming implementation plan. Flaget Memorial Hospital plans to build upon efforts that emerged from its previous CHNA process, collaborating with other facilities and community partners, to address the three priority health needs outlined in Table 12.

A deeper dive into the primary and secondary data for each of these priority health topics is provided in the next section of the report. This information highlights how each topic became a high priority health need for Flaget Memorial Hospital.



### **Prioritized Significant Health Needs**

The following section provides a detailed description of each prioritized health need. An overview is provided for each health topic, followed by a table highlighting the poorest performing indicators and a description of key themes that emerged from primary data. The three prioritized health needs are presented in alphabetical order.

### **Geographic Level of Analysis**

As discussed previously in the <u>Methodology</u> section, the data scoring technique is only available at the county level. The data scoring results for Flaget Memorial Hospital are therefore presented in the context of Nelson County.

### Prioritized Health Topic #1: Alcohol, Tobacco and Drug Use

# Alcohol & Drug Use -

Secondary
Data Score:

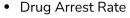
1.62



# **Key Themes from Community Input**



Indicators



**Warning** 

- Liquor Store Density
- Adults who Binge Drink
- Death Rate due to Drug Poisoning
- Ranked by survey respondents as the most pressing health problem (73.9%)
- Cultural issues, adverse childhood experiences, lack of education and lack of reliable income cited as factors for substance use

### **Tobacco Use**





- 12.3% of survey respondents rated tobacco use as a top health issue (ranked 8th out of 26 issues)
- High rates of vaping, especially among youth
- Education and cultural issues cited as contributing factors for tobacco use











#### Overview

Alcohol & Drug Use was identified as a significant health need through all three data sources: secondary data, the community survey, and qualitative data, while Tobacco Use was identified as a significant health need through just one data source, qualitative data (see <u>Data Synthesis</u>, Table 11 and Figure 32).

#### **Secondary Data**

From the secondary data scoring results, Alcohol & Drug Use had the seventh highest data score of all topic areas, with a score of 1.62. Further analysis was done to identify specific indicators of concern. Those indicators with high data scores (scoring at or above the threshold of 1.50) were categorized as indicators of concern and are listed in Table 13 below. See Appendix A for the full list of indicators categorized within this topic, including the source from which each indicator was derived.

TABLE 13. DATA SCORING RESULTS FOR ALCOHOL & DRUG USE

SCORE	ALCOHOL & DRUG USE	Nelson County	Kentucky	U.S.	Kentucky Counties	U.S. Counties	Trend
2.08	Drug Arrest Rate (2019) arrests/100,000 population	2273.3	1803.4	464.8		_	=
1.83	Liquor Store Density (2019) stores/100,000 population	21.6	12.6	10.5			1
1.81	Adults who Binge Drink (2017-2019) percent	16	15	_		_	<b>1</b>
1.81	Death Rate due to Drug Poisoning (2017-2019) deaths/100,000 population	28.3	31.8	21			

From the secondary data results, there are several indicators within this topic that raise concern for Nelson County. The worst performing indicator is the Drug Arrest Rate, which shows the number of arrests per 100,000 people. The value for Nelson County is higher than both the state and national value and is in the worst 50% of counties in Kentucky. Another indicator related to drug use is the Death Rate due to Drug Poisoning. The value for Nelson County, 28.3 deaths per 100,000 people, is higher than the national value of 21 deaths per 100,000 people and is in the worst 25% of counties in the U.S. Further, the rate has increased in recent years, although not significantly. Other indicators of concern are related to alcohol use and include both behavioral and environmental measures. Nelson County performs in the worst 25% of counties in Kentucky and the U.S. for Liquor Store Density, which measures the number of liquor stores per 100,000 people. On a positive note, the density of alcohol outlets has decreased

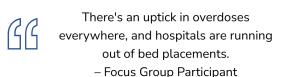


significantly in recent years. Finally, the percentage of adults in the county who binge drink (16%) is higher than the Kentucky value (15%), within the worst 50% of counties in Kentucky and is also increasing, although not significantly.

#### **Primary Data**

#### Alcohol & Drug Use

Alcohol & Drug Use ranked as the most pressing health problem among survey respondents, with 73.9% of respondents identifying Alcohol & Drug Use as a top priority in Nelson County (Figure 27). The high rate of deaths due to drug poisoning reported in the secondary data for Nelson



99

County is supported with findings from the qualitative data. Nearly every key informant and focus group participant emphasized concern with the growing drug problem. Key informants pointed to heroin, increased fentanyl use and methamphetamine as devastating a large portion of the population. Several focus group participants noted rising overdose rates and increased substance use with the onset of the COVID-19 pandemic, citing increased isolation, lack of in-person treatment options and lack of technology to access virtual appointments as contributing factors. Another key informant stated that the use of drugs has led to increased crime, adding that "a good percentage of the jail logs are drug-related." Other informants pointed out the number of grandparents and older adults raising young children due to addiction issues within the family. One focus group participant described how this affects all generations, stating that "aging adult kids (in the 50-60 age range) are unable to take care of their older parents (in the 70-80 age range) due to substance use and mental health issues." Stigma was identified as a major barrier to care, while lack of education, family dynamics and childhood trauma were cited as some of the major factors for substance use. One key informant noted the negative impacts of adverse childhood experiences (ACEs), stating that "children experiencing ACEs often develop behavioral issues and unhealthy coping mechanisms as adults." Several key informants suggested the need for more education / prevention programs and more behavioral health services to help curb the growing drug epidemic. One key informant stated that there's a need for a higher level of care at the hospital, explaining that certain services require patients to seek care outside of the county. A focus group participant stated the need for education programs within schools that focus on both

GG

Most insurances only cover 28-30 days of substance treatment, and we all know it takes much longer than that.

– Focus Group Participant



substance use and domestic violence, while another focus group participant suggested that EMS and law enforcement agencies hire social workers to join their staff to assist with patients struggling with substance use and mental health issues.

#### Tobacco Use

Tobacco Use was ranked as the eighth most pressing health issue among survey respondents, with 12.3% of respondents identifying Tobacco Use as a top priority in the community (Figure 27). Key informants and focus group participants discussed the high rates of vaping, particularly among youth. Education, cultural issues, and lifestyle choices were cited as major factors for tobacco use. One key informant explained that smoking, drinking and drug use can stem from adverse childhood experiences, adding that Kentucky experiences a high rate of ACEs. Another key informant described it as "a cultural thing, seeing family smoke or vape." This key informant added that "we don't provide





enough early intervention," describing it as "reactive rather than proactive." To address tobacco use, key informants and focus group participants stressed that education and prevention are crucial, for both students and parents.





### **Prioritized Health Topic #2: Mental Health and Mental Disorders**

# Mental Health & Mental Disorders

Secondary
Data Score:

1.81



## **Key Themes from Community Input**



- Ranked by survey respondents as the third most pressing health problem (35.4%)
- 9.4% of survey respondents reported the inability to access necessary mental health services in the past year
- Abuse and neglect among youth cited as contributing factors

### Warning Indicators



- Age-Adjusted Death Rate due to Alzheimer's Disease
- Age-Adjusted Death Rate due to Suicide
- Poor Mental Health: 14+ Days

#### Overview

Mental Health & Mental Disorders was identified as a significant health need through all three data sources: secondary data, the community survey, and qualitative data (see <u>Data Synthesis</u>, Table 11 and Figure 32).

#### **Secondary Data**

From the secondary data scoring results, Mental Health & Mental Disorders had the second highest data score of all topic areas, with a score of 1.81. Further analysis was done to identify specific indicators of concern. Those indicators with high data scores (scoring at or above the threshold of 1.50) were categorized as indicators of concern and are listed in Table 14 below. See Appendix A for the full list of indicators categorized within this topic, including the source from which each indicator was derived.

TABLE 14. DATA SCORING RESULTS FOR MENTAL HEALTH & MENTAL DISORDERS

SCORE	MENTAL HEALTH & MENTAL DISORDERS	Nelson County	Kentucky	U.S.	Kentucky Counties	U.S. Counties	Trend
2.58	Age-Adjusted Death Rate due to Alzheimer's Disease (2017-2019) deaths/100,000 population	40	33.2	30.5			<b>&gt;</b>



2.31	Age-Adjusted Death Rate due to Suicide (2017-2019) deaths/100,000 population	21	17	14.1 <b>HP2030*</b> 12.8	_	<b>1</b>
1.64	Depression: Medicare Population (2018) percent	19.8	21.5	18.4		1
1.58	Alzheimer's Disease or Dementia: Medicare Population (2018) percent	9.8	10.3	10.8		<b>1</b>
1.58	Poor Mental Health: 14+ Days (2018) percent	15.8	_	12.7		_

<sup>\*</sup>HP2030 - Healthy People provides science-based, 10-year national objectives for improving the health of all Americans. HP2030 represents a Healthy People target to be met by 2030.

Death rates due to Alzheimer's disease and suicide, poor self-reported mental health, and depression are all areas of concern related to Mental Health & Mental Disorders. The worst performing indicator is the Age-Adjusted Death Rate due to Alzheimer's Disease. The value for Nelson County, 40 deaths per 100,000 people, is in the worst 50% of counties in Kentucky and the U.S. Even more concerning, the rate has increased significantly over recent years. Another indicator of concern is the Age-Adjusted Death Rate due to Suicide. The value for Nelson County, 21 deaths per 100,000 people, is higher than both the state and national values, and has not met the Healthy People 2030 target of 12.8 deaths per 100,000 people. Within the Medicare population, rates of depression and Alzheimer's disease are also a concern. In Nelson County, 19.8% of Medicare beneficiaries were treated for depression, which is in the worst 50% of counties in the U.S. Another 9.8% of Medicare beneficiaries were treated for Alzheimer's disease or dementia. Although this value is lower than the state and national values, the rate has increased significantly in recent years. Finally, the indicator Poor Mental Health: 14+ Days shows the percentage of adults who stated that their mental health was not good 14 or more days in the past month. The value for Nelson County, 15.8%, is higher than the national value of 12.7% and in the worst 50% of counties in the nation.

### **Primary Data**

Mental Health & Mental Disorders was ranked as the third most pressing health problem among survey respondents, with 35.4% of respondents identifying Mental Health & Mental Disorders as a top priority





ßß

We've had a fair amount of depression, but COVID has made it even worse due to the lockdowns and unrest with our country everyone is at odds with each other! - Key Informant



in Nelson County (Figure 27). Just over 16% of survey respondents reported that children in their home have experienced behavioral or mental health challenges. While mental health has always been a concern, key informants pointed out that the COVID-19 pandemic has instilled even more fear, stress, and anxiety within community members due to economic

duress and social isolation. A focus group participant mentioned that while there are more resources available now, the virtual appointment format is not ideal for substance use and mental health patients, who often benefit from in-person connections.

Access to mental health services was a common theme among key informants and survey respondents, with 9.4% of survey respondents reporting that they did not receive necessary mental health services in the past year. The top reasons cited for not receiving mental health services/treatment included long wait times and not knowing where to go. Stigma was cited as a major barrier to care among key informants and focus group participants.

Another key informant pointed to a lack of mental health services, stating that providers are "busting at the seams – we cannot hire therapists fast enough to deal with the mental health needs!" Several key informants also emphasized the relationship between drugs/addiction and mental health, with one focus group participant stating, "if you've got substance use issues, then you've got mental health

issues." Stress, anxiety and childhood trauma were cited as some of the major factors for mental health issues.

We've had issues where we need to refer someone to mental health services, but the resources are just not there!

- Key Informant





### Prioritized Health Topic #3: Weight Status, Physical Activity & Nutrition

### Weight Status, Physical Activity & Nutrition

Secondary
Data Score:

1.53



## Key Themes from Community Input



- Weight status (overweight/obesity) was ranked by survey respondents as the fourth most pressing health problem (32.3%)
- 30.8% of survey respondents rated "healthy eating options at restaurants, stores and markets" as a top quality of life issue

## Warning Indicators



- Workers who Walk to Work
- Adults who are Sedentary
- Fast Food Restaurant Density
- Adults Who Are Obese

#### Overview

Weight Status, Physical Activity & Nutrition was identified as a significant health need through all three data sources: secondary data, the community survey, and qualitative data (see <u>Data Synthesis</u>, Table 11 and Figure 32).

#### Secondary Data

From the secondary data scoring results, Weight Status, Physical Activity & Nutrition had the tenth highest data score of all topic areas, with a score of 1.53. Further analysis was done to identify specific indicators of concern. Those indicators with high data scores (scoring at or above the threshold of 1.50) were categorized as indicators of concern and are listed in Table 15 below. See Appendix A for the full list of indicators categorized within this topic, including the source from which each indicator was derived.

TABLE 15. DATA SCORING RESULTS FOR WEIGHT STATUS, PHYSICAL ACTIVITY & NUTRITION

SCORE	WEIGHT STATUS, PHYSICAL ACTIVITY & NUTRITION	Nelson County	Kentucky	U.S.	Kentucky Counties	U.S. Counties	Trend
2.47	Workers who Walk to Work (2015-2019) percent	1.0	2.2	2.7			1



	Adults who are			-			
2.06	Sedentary (2017-2019) percent	39	33	<b>HP2030*</b> 21.2		_	
1.97	SNAP Certified Stores (2017) stores/1,000 population	0.8	_	_			1
1.67	Farmers Market Density (2018) markets/1,000 population	0.02	_	_	_	_	=
1.67	Fast Food Restaurant Density (2016) restaurants/1,000 population	0.62	_	_			<b>1</b>
1.67	Grocery Store Density (2016) stores/1,000 population	0.13	_	_			
1.64	Adults Who Are Obese (2017-2019) percent	37	36	_		_	1
1.50	Access to Exercise Opportunities (2020) percent	75	71.1	84			_
1.50	Children with Low Access to a Grocery Store (2015) percent	3.0	_	_			_
1.50	Households with No Car and Low Access to a Grocery Store (2015) percent	2.8	_	_			_
1.50	People 65+ with Low Access to a Grocery Store (2015) percent	1.9	_	_			_





\*HP2030 - Healthy People provides science-based, 10-year national objectives for improving the health of all Americans. HP2030 represents a Healthy People target to be met by 2030.

The percentage of obese adults is an indicator of the overall health and lifestyle of a community. Obesity increases the risk of many diseases and health conditions, including heart disease, type 2 diabetes, stroke, and cancer. In Nelson County, 37% of adults are obese. This is higher than the state value of 36% and has increased in recent years, although not significantly.

Some of the worst performing indicators within this topic include health behaviors and the role of the built environment in promoting physical activity. Walking to work is a great way to incorporate exercise into a daily routine. When compared to Kentucky and the U.S., Nelson County has a lower proportion of workers aged 16 years and over who get to work by walking. In Nelson County, 39% of adults are sedentary, which is higher than the state value of 33% and far from the Healthy People 2030 target of 21.2%. Studies have shown that sedentary lifestyles can increase the risk of many chronic diseases, including obesity, heart disease and type 2 diabetes. Proximity to exercise opportunities, such as parks and recreation facilities, has been linked to an increase in physical activity among residents. The percentage of individuals who live reasonably close to a park or recreational facility in Nelson County is 75%. Although this is higher than the state value of 71.1%, Nelson County fares worse when compared to the U.S., where 84% of individuals live reasonably close to a park or recreational facility.

Other poorly performing indicators within this topic are related to the built environment and food access. The indicator SNAP Certified Stores shows the number of stores per 1,000 population certified to accept Supplemental Nutrition Assistance Program benefits, including supermarkets, convenience stores, warehouse club stores and specialized food stores. Nelson County performs in the worst 50% of counties in the state and nation for this indicator; further, the value has decreased in recent years, although not significantly. Fast Food Restaurant Density shows the number of fast food restaurants per 1,000 population. The value for Nelson County, 0.62 fast food restaurants per 1,000 people, is in the worst 50% of counties in Kentucky and is trending in an undesirable direction, although not significantly. Further, the number of supermarkets and grocery stores per 1,000 people is in the worst 50% of counties when compared to Kentucky and the U.S., while the number of farmers markets per 1,000 people is another indicator of concern. Other poorly performing indicators that are measures of food access include Children with Low Access to a Grocery Store, Households with No Car and Low Access to a Grocery Store, People 65+ with Low Access to a Grocery Store, and People with Low Access to a Grocery Store. HCl's Food Insecurity Index, discussed earlier in this report, can be used to help identify geographic areas of low food accessibility within the community served by Flaget Memorial Hospital.

<sup>&</sup>lt;sup>16</sup> U.S. Department of Health and Human Services, Healthy People 2030. <a href="https://health.gov/healthypeople/objectives-and-data/browse-objectives/physical-activity">https://health.gov/healthypeople/objectives-and-data/browse-objectives/physical-activity</a>





<sup>&</sup>lt;sup>15</sup> U.S. Department of Health and Human Services, Healthy People 2030. <a href="https://health.gov/healthypeople/objectives-and-data/browse-objectives/overweight-and-obesity">https://health.gov/healthypeople/objectives-and-data/browse-objectives/overweight-and-obesity</a>

#### **Primary Data**

Nearly one-third (32.3%) of survey respondents rated Weight Status as a pressing health issue, and it ranked as the fourth most pressing health problem overall (Figure 27). Nutrition & Healthy Eating ranked as the sixth most pressing health issue (18.5%, Figure 27), while Physical Activity ranked as the ninth most pressing health issue (10.8%, Figure 27).

Among survey respondents with children living in the home, 9.7% reported having one or more children that are overweight. Obesity and its contribution to chronic disease was a topic of concern among key informants. Insights from qualitative data point to a lack of exercise, busy lifestyles, lack of nutritional foods and learned behaviors through multiple generations as being key contributors to obesity. One key informant described obesity as a "cultural issue," stating that "parents are busy" and "sometimes it's easier to eat the bad food." Several key informants emphasized the need for more and improved education about health and wellbeing, with a specific focus on education within the school system.

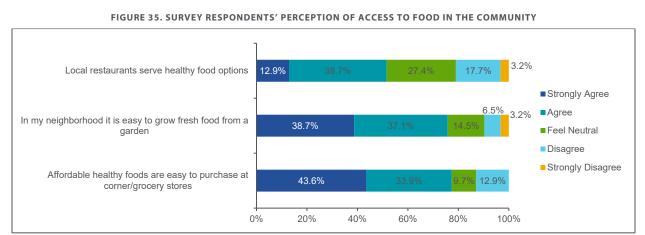
Ability to access safe parks and walking paths was rated by 15.4% of survey respondents as a priority issue (Figure 28), while another 6.2% of survey respondents would like to see more and/or improved bike lanes in the community. Using a Likert scale, a five-point scale used to allow the individual to express how much they agree or disagree with a particular statement, 17.8% of survey respondents disagreed or strongly disagreed that the community has good sidewalks/trails for walking safely, and another 22.6% of survey respondents disagreed or strongly disagreed that the community has good

parks and recreational facilities. Just over 16% of survey respondents reported that the COVID-19 pandemic has made it difficult to exercise.

Communities should aim to be walkable and have access to parks and walking paths. But we often don't build our communities to make healthy choices the easy choice.

– Kev Informant

The secondary data indicators that point to an unhealthy food environment are corroborated with results from the community survey. Healthy eating options at restaurants, stores, and markets was ranked by survey respondents as the second most pressing quality of life issue (30.8% of respondents, Figure 28). Survey respondents were also asked to answer a few questions about access to food in their community. Based on a five-point Likert scale, 21.0% of survey respondents disagreed or strongly disagreed that local restaurants serve healthy food options, 9.7% of respondents disagreed or strongly disagreed that it is easy to grow/harvest and eat fresh food from a home garden in their neighborhood, and 12.9% of survey respondents disagreed or strongly disagreed that affordable, healthy food options are easy to purchase at nearby corner stores, grocery stores or farmers markets (Figure 35).







CC

When SNAP benefits are issued once a month, poverty creates the need to choose unhealthy, processed, shelf-stable foods versus perishable foods like fruits and dairy.

– Key Informant

95

Just over 6% of survey respondents rated food insecurity or hunger as a top quality of life issue they would like to see addressed in the community, and it ranked as the 16<sup>th</sup> most pressing quality of life issue overall. Among

survey respondents, 11.3% reported they "sometimes" or "often" worried that their food would run out before they had money to buy more (Figure 36). Another 3.2% of survey respondents reported there was a time in the past 12 months when the food they bought just did not last, and they did not have money to buy more (Figure 36). Key informants and focus group participants spoke of food insecurity as an issue that needs to be addressed in the community. One informant described the high cost of healthy living for people with lower incomes, adding that fresh fruits and vegetables may not be accessible for those without public transportation.

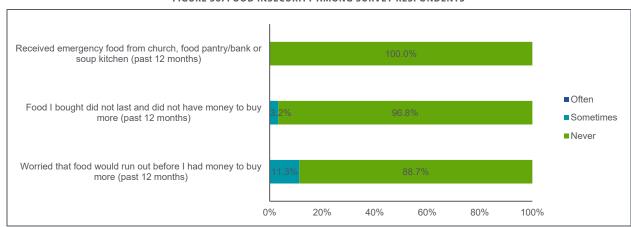


FIGURE 36. FOOD INSECURITY AMONG SURVEY RESPONDENTS





### **Non-Prioritized Significant Health Needs**

The following significant health needs, presented in alphabetical order, emerged from a review of the primary and secondary data. However, Flaget Memorial Hospital will not focus on these topics in their Implementation Strategy.

Key themes from community input are included where relevant for each non-prioritized health need along with the secondary data score and warning indicators.

### Non-Prioritized Health Need #1: Air and Water Quality

# Air & Water Quality —

Secondary
Data Score:

1.45



# **Key Themes from Community Input**



- Ranked by survey respondents as the third most pressing quality of life issue (27.7%)
- 22.6% of survey respondents disagreed that air and water quality are safe

### Warning Indicators



Adults with Asthma

RR

We're located in the Bourbon capitol of the world! The byproduct of the distilling process creates a black mold that's everywhere -- it's on buildings and it's in the air we breathe.

in

- Key Informant

#### Non-Prioritized Health Need #2: Cancer

### Cancer

Secondary Data Score 1.66



# **Key Themes from Community Input**



 Cancer was ranked by survey respondents as the second most pressing health problem (36.9%)

Cancer treatment numbers are
going up like crazy!
– Key Informant

99

## Warning Indicators



- Oral Cavity and Pharynx Cancer Incidence Rate
- Prostate Cancer Incidence Rate
- Colorectal Cancer Incidence Rate





### Non-Prioritized Health Need #3: Crime & Crime Prevention

# Crime & Crime Prevention —

Secondary Data Score:





# **Key Themes from Community Input**



- Ranked by survey respondents as the most pressing quality of life issue (38.5%)
- 15.9% of survey respondents disagreed that crime is not a major issue in their neighborhood

# Non-Prioritized Health Need #4: Education (Attainment & Math/Reading Proficiency)

### **Education** –

Secondary
Data Score:

1.77



## **Key Themes from Community Input**

quality of life issue





- 10.8% of survey respondents rated access to higher education (2-year or 4-year degrees) as a top quality of life issue
- 22.2% of survey respondents disagreed that the local university provides quality education at an affordable cost

### Warning Indicators



- 8th Grade Students Proficient in Math
- Student-to-Teacher Ratio
- People 25+ with a Bachelor's Degree or Higher

GG

We need more post-secondary education opportunities!

– Key Informant

99





- 55 -

### Non-Prioritized Health Need #5: Health Care Access & Quality

### Health Care Access & Quality

Secondary Data Score: 1.38



# Key Themes from Community Input



- 21.5% of survey respondents rated access to affordable health care services as a top health issue (ranked 5th out of 26 issues)
- 10.8% of survey respondents disagreed they are connected to a primary care doctor they are happy with
- 9.2% of survey respondents disagreed they can access health care services within a reasonable time and distance from home/work

### Warning Indicators



- Adults who have had a Routine Checkup
- Dentist Rate
- Primary Care Provider Rate

GG

Even those with insurance are hesitant to seek care. Co-pays are so high, so people don't want to go in for something minor.

99

Key Informant

### Non-Prioritized Health Need #6: Immunizations & Infectious Diseases

# Immunizations & Infectious Diseases

Secondary

1.53



# **Key Themes from Community Input**



- Concerns with testing availability (COVID-19)
- Transportation is a major barrier to getting vaccinated

Warning Indicators



- Age-Adjusted Death Rate due to Influenza and Pneumonia
- Syphilis Incidence Rate
- Chlamydia Incidence Rate

GG

Nelson County has lead the way in terms of [COVID-19] vaccination uptake in the district!

5)5

– Key Informant





#### Non-Prioritized Health Need #7: Older Adults

### Older Adults -

Secondary
Data Score:

1.54



## **Key Themes from Community Input**



• 18.5% of survey respondents rated "services for seniors/elderly" as a top quality of life issue

The elderly struggle the most - some of them are not mobile, they can't get in the car to drive to town - they don't have much access.

– Key Informant

5

### Warning Indicators



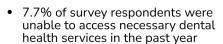
- Atrial Fibrillation: Medicare Population
- Age-Adjusted Death Rate due to Alzheimer's Disease

#### Non-Prioritized Health Need #8: Oral Health

### Oral Health —



# **Key Themes from Community Input**



Many people will not pay for a dental plan, so when they eventually see a doctor, their teeth are already decayed.

– Key Informant

Secondary Data Score:





### Warning Indicators



- Oral Cavity and Pharynx Cancer Incidence Rate
- Dentist Rate
- Adults 65+ with Total Tooth Loss

### Non-Prioritized Health Need #9: Sexually Transmitted Infections

# Sexually Transmitted Infections

Secondary
Data Score:

1.84



### Warning Indicators



- Syphilis Incidence Rate
- Chlamydia Incidence Rate
- Gonorrhea Incidence Rate



### **Barriers to Care**

A critical component in assessing the needs of a community includes identifying barriers to health care and social services, which can inform and focus strategies for addressing the prioritized health needs. Survey respondents, key informants and focus group participants were asked to identify any barriers to health care observed or experienced in the community. The following section explores those barriers that were identified through the primary data collection.

### **Transportation**

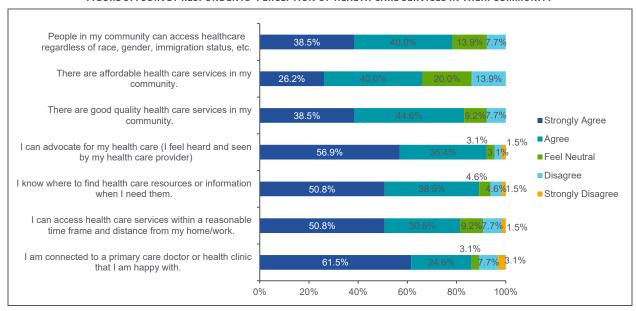
The geography of the Flaget Memorial Hospital Primary Service Area lends itself to transportation issues. As described earlier in this report (see **Defining the Community**), the hospital's primary service area is defined by five zip codes, which are centered around the town of Bardstown. Beyond this core population center, the service area extends in nearly all directions and includes rural towns to the north (Coxs Creek and Bloomfield), south (New Haven), and east (Springfield). As discussed earlier (see Demographic Profile, Population), all five zip codes in the hospital's primary service area have been designated rural. The spread of the population throughout these rural towns creates difficulties for many of those in need of care. Key informants and focus group participants frequently mentioned transportation when discussing barriers to care, with an emphasis on rural communities and elderly populations. One key informant described some of the existing transportation resources, including a local cab service and senior citizen transportation buses, but stated that general transportation in the county is lacking. This makes it difficult for people to get around and leads to isolation. When asked which services would be helpful to bring to the community, another key informant mentioned transportation services that are "affordable, reliable and responsive." Using a five-point Likert scale, 31.7% of survey respondents in Nelson County disagreed or strongly disagreed that public transportation is easy to access. Indicators of concern from the secondary data analysis include Workers who Walk to Work, Workers Commuting by Public Transportation, Age-Adjusted Death Rate due to Motor Vehicle Traffic Collisions, Solo Drivers with a Long Commute and Households with No Car and Low Access to a Grocery Store. Additional details for these indicators can be found in Appendix A.

### **Cost, Lack of Insurance, Underinsurance**

Access to affordable health care ranked as the fifth most pressing health problem among survey respondents, with 21.5% of respondents identifying affordable health care as a top priority in Nelson County (Figure 27). Based on a five-point Likert scale, 13.9% of survey respondents disagreed or strongly disagreed that there are affordable health care services in the community (Figure 37).



FIGURE 37. SURVEY RESPONDENTS' PERCEPTION OF HEALTH CARE SERVICES IN THEIR COMMUNITY

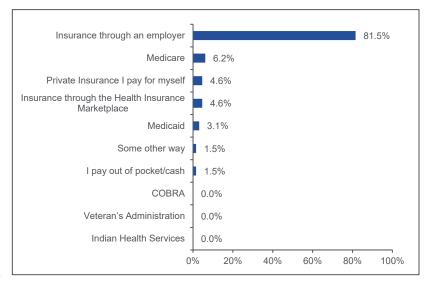


Among key informants and focus group participants, the most common barriers cited to accessing health care were related to overall cost, lack of insurance or underinsurance. One key informant emphasized that even with health coverage, many people still lack the disposable income necessary for co-pays, so they do without. In addition, those with health insurance may still lack dental or vision coverage.

Nearly all survey respondents reported having health coverage, with respondents reporting the following types of health plan(s) used to pay for health care services: health coverage through an employer (81.5%), Medicare (6.2%), private insurance (4.6%), insurance through the Health Insurance Marketplace (4.6%), and Medicaid (3.1%) (Figure 38).

The economic secondary data further support the primary data findings around cost and access. While the median household income of the hospital's primary service area (\$64,740) is higher

FIGURE 38. SURVEY RESPONDENTS: WHAT TYPE OF HEALTH PLAN(S) DO YOU USE TO PAY FOR YOUR HEALTH CARE SERVICES? (SELECT ALL THAT APPLY)



than the Kentucky value (\$54,113), there is a disparity of approximately \$8,000 in median household income for Black/African American residents and \$25,000 for Hispanic/Latino residents (see <u>Social & Economic Determinants of Health</u>, Figures 15 and 16, for more details).





### Awareness, Access to Information and Navigating the System

Knowledge of available resources and the ability to access information is another barrier to care, especially for those who don't have broadband or internet access. Findings from the secondary data indicate that 82.8% of households in Nelson County had an internet subscription in 2015-2019 (Figure 23). While this is higher than the state value of 78.8%, lack of access to a computer or internet can make it difficult to access information, identify available services and schedule necessary appointments.

Key informants also noted health system knowledge/navigation as a barrier for accessing care and pointed to a need for more outreach and consistent messaging about services and resources available to the community. Referring to Medicaid, one key informant described the "complicated process of navigating administrative tasks and forms." She added that "the complicated process of identifying a primary care provider contributes to the misuse of hospital emergency rooms." Several key informants spoke about the wonderful programs available within the community and various initiatives to distribute information and resource guides to inform the public.

### Fear, Discrimination, Language & Culture

Nearly one-fifth (18.5%) of survey respondents reported they were unable to get necessary health care services at least once in the past 12 months. For community survey respondents that did not receive the care they needed, 9.1% reported a lack of providers that "I identify with or have training specific to my needs" (Figure 39).

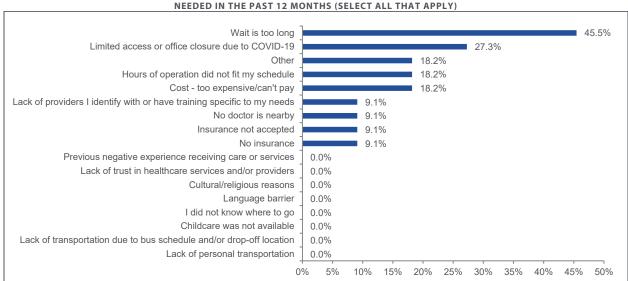


FIGURE 39. SURVEY RESPONDENTS: SELECT THE TOP REASONS YOU DID NOT RECEIVE THE HEALTH CARE SERVICES THAT YOU NEEDED IN THE PAST 12 MONTHS (SELECT ALL THAT APPLY)

As shown earlier in Figure 37, 4.6% of survey respondents disagreed or strongly disagreed with the statement: "I feel like I can advocate for my health care (I feel heard and seen by my health care provider)," while another 7.7% of survey respondents disagreed or strongly disagreed that people in the community can access health care services regardless of race, gender, sexual orientation, or immigration status.

Lack of trust continues to be a big issue. One focus group participant mentioned that some people do not access health care services because of a previous negative experience with a provider. Another informant pointed out that some people choose not to reveal their vulnerabilities because they fear the





potential consequences – for example, those who are undocumented may withhold information in fear of deportation. Language barriers were identified as impacting the Hispanic/Latino community and those who do not speak English as their primary language. The stigma of seeking mental health treatment also continues to be a concern.





### **Conclusion**

This Community Health Needs Assessment (CHNA), conducted for Flaget Memorial Hospital, helps the hospital meet the federal requirement for charitable hospital organizations to conduct a community health needs assessment every three years [IRS Section 501(r) (3)]. CHI Saint Joseph Health and Flaget Memorial Hospital partnered with Conduent Healthy Communities Institute to develop this 2023-2025 CHNA.

This assessment used a comprehensive set of secondary and primary data to determine the 13 significant health needs in the community served by Flaget Memorial Hospital. The prioritization process identified three priorities to be considered for subsequent implementation planning: Alcohol, Tobacco & Drug Use, Mental Health & Mental Disorders and Weight Status, Physical Activity & Nutrition.

The findings in this report will be used to guide the development of the Flaget Memorial Hospital Implementation Strategy, which will outline strategies to address identified priorities and improve the health of the community.

Please use this online form to send any comments or feedback about this CHNA: <a href="https://www.chisaintjosephhealth.org/healthy-community-chna-feedback">https://www.chisaintjosephhealth.org/healthy-community-chna-feedback</a>. Feedback received will be incorporated into the next CHNA process.



### **Appendices Summary**

The following support documents are shared in a separate appendix available on the CHI Saint Joseph Health website: <a href="https://www.chisaintjosephhealth.org/healthycommunities">https://www.chisaintjosephhealth.org/healthycommunities</a>.

#### A. Secondary Data Methodology and Data Scoring Tables

A description of the Conduent HCl data scoring methodology, including a list of secondary data sources used in the analysis and county-level topic and indicator scoring results.

#### B. Index of Disparity

A description of the methods used to identify disparities within the secondary data by race, ethnicity, and gender.

#### C. Demographic Profile of Survey Respondents

A series of charts illustrating the demographics of community survey respondents.

#### D. COVID-19 Impact Snapshot

A summary of the impact of the COVID-19 pandemic, including findings from the community survey, key informants and focus group participants.

### E. Community Input Assessment Tools

Data collection tools that were vital in capturing community feedback, including the community survey, key informant questions and focus group guide.

#### F. Prioritization Toolkit

A one-page cheat sheet provided to participants to help guide the virtual prioritization activity.

#### G. Impact Report

A detailed progress report on the hospital's prioritized health needs from its prior CHNA and Implementation Strategy (2020-2022). Goals, objectives, strategies, target population and status are outlined in a detailed framework.

#### H. Healthy Communities / Community Benefit Committee

A list of members serving on the Healthy Communities / Community Benefit Committee at CHI Saint Joseph Health.

### I. Resources Potentially Available to Address Needs

A list of community resources available to organizations and individuals that live in the community.





### **Adoption/Approval**

CHI Saint Joseph Health's Board of Directors includes representation across the state and supports the work that each facility completes to improve the health of their community. The Board of Directors approves Flaget Memorial Hospital's community health needs assessment and the methods used to identify priority areas of need in the community served by Flaget Memorial Hospital.

Martha E. Jones	May 27,2022
Chair, CHI Saint Joseph Health Board of Directors	Date
Martin	25MAY 2022
Anthony Houston, Ed.D., FACHE	Date

Market CEO, CHI Saint Joseph Health

