

# **TABLE OF CONTENTS**

EXECUTIVE SUMMARY	4
Introduction	4
Community Definition	4
Significant Community Health Needs	5
OBJECTIVES AND METHODOLOGY	7
Regulatory Requirements	7
Methodology	8
Collaborating Organizations	8
Data Sources	9
Information Gaps	9
DATA AND ANALYSIS	10
Definition of Community Assessed	10
Secondary Data Summary	13
Demographics	13
Economic Indicators	13
Local Health Status and Access Indicators	14
Ambulatory Care Sensitive Conditions	15
Community Need Index	
Food Deserts	
Medically Underserved Areas and Populations	16
Health Professional Shortage Areas	
Relevant Findings of Other CHNAs	
Primary Data Summary	
SIGNIFICANT COMMUNITY HEALTH NEEDS	
Prioritization Process	
Access to Affordable Health Care	20
Chronic Diseases and Other Health Conditions	20
Economic Development and Community Conditions	22
Health Professions Education and Research	
Healthcare for the Elderly	
Wellness	
OTHER FACILITIES AND RESOURCES IN THE COMMUNITY	26

Federally Qualified Health Centers	26
Hospitals	26
Other Community Resources	27
APPENDIX A – CONSULTANT QUALIFICATIONS	28
APPENDIX B – SECONDARY DATA ASSESSMENT	29
Community Assessed	29
Demographics	29
Economic indicators	34
People in Poverty	34
Eligibility for the National School Lunch Program	37
Unemployment	38
Insurance Status	40
Ohio Medicaid Expansion	41
Crime	41
Local Health Status and Access Indicators	42
County Health Rankings	42
Community Health Status Indicators	46
Ohio Department of Health	48
Behavioral Risk Factor Surveillance System	52
Ambulatory Care Sensitive Conditions	54
Community Need Index <sup>TM</sup> and Food Deserts	57
Dignity Health Community Need Index	57
Food Deserts	60
Medically Underserved Areas and Populations	62
Health Professional Shortage Areas	63
Findings of Other Community Health Needs Assessments	66
APPENDIX C – COMMUNITY INPUT PARTICIPANTS	70
APPENDIX D _ ACTIONS TAKEN SINCE THE PREVIOUS CHNA	71

### **EXECUTIVE SUMMARY**

# **EXECUTIVE SUMMARY**

### Introduction

This Community Health Needs Assessment (CHNA) was conducted by Cleveland Clinic Hillcrest Hospital ("Hillcrest" or "the hospital") to identify significant community health needs, to inform development of an Implementation Strategy to address current needs and to evaluate the impact of ongoing efforts to address previously identified community needs.

Hillcrest is a 453-bed hospital located in Mayfield Heights, Ohio. Hillcrest Hospital ranked within the Top 5 of Cleveland-area hospitals by U.S. News & World Report's "Best Hospitals in Cleveland." In addition, U.S. News & World Report recognized Hillcrest Hospital as high-performing in nine adult specialties: Diabetes & Endocrinology, Ear, Nose & Throat, Gastroenterology & GI Surgery, Geriatrics, Nephrology, Neurology and Neurosurgery, Orthopedics, Pulmonology and Urology. Additional information on the hospital and its services is available at: http://my.clevelandclinic.org/locations\_directions/Regional-Locations/Hillcrest-hospital.

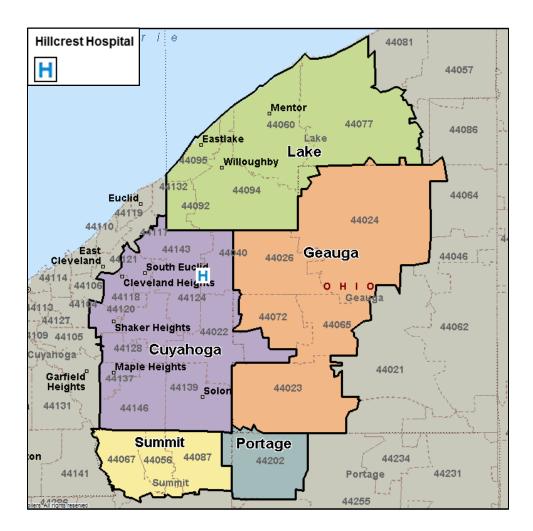
The hospital is part of the Cleveland Clinic health system, which includes an academic medical center, multiple regional hospitals, two children's hospitals, a rehabilitation hospital, a Florida hospital and a number of other facilities and services across Northeast Ohio and Florida. Additional information about Cleveland Clinic is available at: https://my.clevelandclinic.org/.

Each Cleveland Clinic hospital is dedicated to the communities it serves. Cleveland Clinic hospitals verify the health needs of communities by performing periodic health needs assessments. These formal assessments are analyzed using widely accepted criteria to determine and measure the health needs of a specific community.

# **Community Definition**

For purposes of this report, Hillcrest's community is defined as 26 ZIP codes in Cuyahoga, Geauga, Lake, Portage, and Summit counties in Ohio comprising over 74 percent of the hospital's inpatient volumes. This area has comparatively unfavorable health status and socioeconomic indicators, particularly for minority residents. The total population of Hillcrest's community in 2015 was 667,426.

The following map portrays the community served by Hillcrest.



# **Significant Community Health Needs**

Six significant community health needs were identified through this assessment:

- 1. Access to Affordable Healthcare
- 2. Chronic Diseases and Other Health Conditions
- 3. Economic Development and Community Conditions
- 4. Health Professions Education and Research
- 5. Healthcare for the Elderly
- 6. Wellness

Based on an assessment of secondary data (a broad range of health status and access to care indicators) and of primary data (received through key stakeholder interviews), the following were identified as significant health needs in the community served by Hillcrest. The needs are presented below in alphabetical order, along with certain highlights regarding why each issue was identified as "significant."

### **EXECUTIVE SUMMARY**

### **Access to Affordable Health Care**

Access to basic health care is challenging for some segments of the Hillcrest community
who are unaware of how to access and use available services and who experience other
access barriers including cost and inadequate transportation. The Hillcrest community
has comparatively unfavorable socioeconomic indicators, particularly in medically
underserved areas. The recent election of the new president raises questions regarding
whether access improvements associated with the Affordable Care Act will be sustained.

## **Chronic Diseases and Other Health Conditions**

Chronic diseases and other health conditions including, in alphabetical order: cancer
chemical dependency, communicable diseases (including sexually transmitted
infections), diabetes, heart disease, hypertension, obesity, poor birth outcomes, poor
mental health status, and respiratory diseases were identified as prevalent in the Hillcrest
community.

# **Economic Development and Community Conditions**

• Several areas within the Hillcrest community lack adequate social services and experience high rates of poverty, unemployment, and crime.

### **Health Professions Education and Research**

• There is a need for more trained health professionals in the community, particularly primary care physicians, mental health providers, and dentists. Research conducted by Cleveland Clinic, has improved health for community members through advancements in new clinical techniques, devices and treatment protocols in diseases and health conditions such as cancer, heart disease, diabetes, and others. There is a need for more research to address these and other community health needs.

### **Healthcare for the Elderly**

• The elderly population in the Hillcrest community is expected to increase in the next five years and meeting the health and social service needs of the aging population is a significant issue.

### Wellness

 Programs and activities that target behavioral health change were identified as needed in the Hillcrest community. Education and opportunities for residents regarding excessive drinking, exercise, nutrition, and smoking cessation specifically were noted.

# **OBJECTIVES AND METHODOLOGY**

# **Regulatory Requirements**

Federal law requires that tax-exempt hospital facilities conduct a CHNA every three years and adopt an Implementation Strategy that addresses significant community health needs. Each tax-exempt hospital facility must conduct a CHNA that identifies the most significant health needs in the hospital's community.

The regulations require that each hospital:

- Take into account input from persons representing the broad interests of the community, including those knowledgeable about public health issues, and
- Make the CHNA widely available to the public.

The CHNA report must include certain information including, but not limited to:

- A description of the community and how it was defined,
- A description of the methodology used to determine the health needs of the community,
- A prioritized list of the community's health needs.

Tax-exempt hospital organizations also are required to report information about the CHNA process and about community benefits they provide on IRS Form 990, Schedule H. As described in the instructions to Schedule H, community benefits are programs or activities that provide treatment and/or promote health and healing as a response to identified community needs. Community benefit activities and programs also seek to achieve objectives, including:

- improving access to health services,
- enhancing public health,
- advancing increased general knowledge, and
- relief of a government burden to improve health.<sup>2</sup>

To be reported, community need for the activity or program must be established. Need can be established by conducting a Community Health Needs Assessment.

CHNAs seek to identify significant health needs for particular geographic areas and populations by focusing on the following questions:

- Who in the community is most vulnerable in terms of health status or access to care?
- What are the unique health status and/or access needs for these populations?

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<sup>&</sup>lt;sup>1</sup> Internal Revenue Code, Section 501(r).

<sup>&</sup>lt;sup>2</sup> Instructions for IRS form 990 Schedule H, 2015.

### **OBJECTIVES AND METHODOLOGY**

- *Where* do these people live in the community?
- *Why* are these problems present?

The question of *how* each hospital can address significant community health needs is the subject of the separate Implementation Strategy.

# Methodology

Federal regulations that govern the CHNA process allow hospital facilities to define the community they serve based on "all of the relevant facts and circumstances," including the "geographic location" served by the hospital facility, "target populations served" (e.g., children, women, or the aged), and/or the hospital facility's principal functions (e.g., focus on a particular specialty area or targeted disease)." The community defined by Hillcrest accounts for over 74 percent of the hospital's 2014 inpatient discharges.

This assessment was conducted by Verité Healthcare Consulting, LLC. See Appendix A.

Secondary data from multiple sources were gathered and assessed. *See* Appendix B. Considering a wide array of information is important when assessing community health needs to ensure the assessment captures a wide range of facts and perspectives and to increase confidence that significant community health needs have been identified accurately and objectively

Input from the community was received through key informant interviews. These informants represented the broad interests of the community and included individuals with special knowledge of or expertise in public health. *See* Appendix C.

Certain community health needs were determined to be "significant" if they were identified as problematic in at least two of the following three data sources: (1) the most recently available secondary data regarding the community's health, (2) recent assessments developed by other organizations, and (3) input from the key informants who participated in the interview process.

In addition, data was gathered to evaluate the impact of various services and programs identified in the previous CHNA process. *See* Appendix D.

### **Collaborating Organizations**

For this assessment, Hillcrest collaborated with the following Cleveland Clinic hospitals: Main Campus, Cleveland Clinic Children's, Akron General, Euclid, Fairview, Lodi, Lutheran, Marymount, Medina, South Pointe, Edwin Shaw Rehabilitation and Cleveland Clinic Florida. Hillcrest also collaborated with Ashtabula County Medical Center and Glenbeigh.

<sup>&</sup>lt;sup>3</sup> 501(r) Final Rule, 2014.

### **OBJECTIVES AND METHODOLOGY**

#### **Data Sources**

Community health needs were identified by collecting and analyzing data from multiple sources. Statistics for numerous community health status, health care access, and related indicators were analyzed, including data provided by local, state, and federal government agencies, local community service organizations, and Cleveland Clinic. Comparisons to benchmarks were made where possible. Findings from recent assessments of the community's health needs conducted by other organizations (e.g., local health departments) were reviewed as well.

Input from 19 persons representing the broad interests of the community was taken into account through key informant interviews. Interviewees included: individuals with special knowledge of or expertise in public health; local public health departments; agencies with current data or information about the health and social needs of the community; representatives of social service organizations; and leaders, representatives, and members of medically underserved, low-income, and minority populations.

### **Information Gaps**

This CHNA relies on multiple data sources and community input gathered between January 2016 and July 2016. A number of data limitations should be recognized when interpreting results. For example, some data (e.g., County Health Rankings, Community Health Status Indicators, Behavioral Risk Factors Surveillance System, and others) exist only at a county-wide level of detail. Those data sources do not allow assessing health needs at a more granular level of detail, such as by ZIP code or census tract.

Secondary data upon which this assessment relies measure community health in prior years. For example, the most recently available mortality data published by the Ohio Department of Health are from 2012. Others sources incorporate data from 2010. The impacts of recent public policy developments, changes in the economy, and other community developments are not yet reflected in those data sets.

The findings of this CHNA may differ from those of others conducted in the community. Differences in data sources, communities assessed (e.g., hospital service areas versus counties or cities), and prioritization processes can contribute to differences in findings.

# **Definition of Community Assessed**

This section identifies the community that was assessed by Hillcrest. The community was defined by considering the geographic origins of the hospital's 2014 inpatient discharges.

On that basis, Hillcrest's community is comprised of 26 ZIP codes in Cuyahoga, Geauga, Lake, Portage, and Summit counties (**Exhibit 1**) which in 2014 accounted for over 74 percent of its inpatient discharges.

Exhibit 1: Hillcrest Inpatient Discharges by ZIP Code, 2014

County	City	ZIP Code	Inpatient Cases (2014)	Percent of Total
Cuyahoga	Cleveland	44124	3,190	12.3%
Cuyahoga	Beachwood	44122	1,292	5.0%
Cuyahoga	Cleveland	44143	1,207	4.7%
Cuyahoga	Cleveland	44121	1,156	4.5%
Lake	Mentor	44060	1,082	4.2%
Lake	Willoughby	44094	1,019	3.9%
Cuyahoga	Cleveland	44118	1,011	3.9%
Cuyahoga	Solon	44139	838	3.2%
Portage	Aurora	44202	769	3.0%
Geauga	Chesterland	44026	695	2.7%
Lake	Eastlake	44095	658	2.5%
Lake	Painesville	44077	652	2.5%
Summit	Twinsburg	44087	626	2.4%
Cuyahoga	Chagrin Falls	44022	611	2.4%
Geauga	Chagrin Falls	44023	577	2.2%
Cuyahoga	Bedford	44146	572	2.2%
Lake	Wickliffe	44092	560	2.2%
Cuyahoga	Cleveland	44128	445	1.7%
Cuyahoga	Cleveland	44120	429	1.7%
Summit	Northfield	44067	403	1.6%
Summit	Macedonia	44056	328	1.3%
Geauga	Chardon	44024	317	1.2%
Cuyahoga	Maple Heights	44137	308	1.2%
Geauga	Novelty	44072	223	0.9%
Cuyahoga	Gates Mills	44040	189	0.7%
Geauga	Newbury	44065	84	0.3%
Subtotal			19,241	74.4%
Other Areas			6,626	25.6%
Total Discharges		alvois of OHA Discharge	25,867	100.0%

Source: Analysis of OHA Discharge Data, 2014.

The total population of this community in 2015 was approximately 667,000 persons (Exhibit 2).

**Exhibit 2: Community Population, 2015** 

County	City	ZIP Code	Total ZIP Code Population 2015	
Cuyahoga	Beachwood	44122	33,661	5.0%
Cuyahoga	Bedford	44146	29,602	4.4%
Cuyahoga	Chagrin Falls	44022	16,811	2.5%
Cuyahoga	Cleveland	44118	39,612	5.9%
Cuyahoga	Cleveland	44120	35,932	5.4%
Cuyahoga	Cleveland	44121	32,122	4.8%
Cuyahoga	Cleveland	44124	38,511	5.8%
Cuyahoga	Cleveland	44128	28,303	4.2%
Cuyahoga	Cleveland	44143	24,142	3.6%
Cuyahoga	Gates Mills	44040	3,029	0.5%
Cuyahoga	Maple Heights	44137	22,566	3.4%
Cuyahoga	Solon	44139	24,770	3.7%
Geauga	Chagrin Falls	44023	18,065	2.7%
Geauga	Chardon	44024	23,615	3.5%
Geauga	Chesterland	44026	11,069	1.7%
Geauga	Newbury	44065	4,018	0.6%
Geauga	Novelty	44072	4,321	0.6%
Lake	Eastlake	44095	32,709	4.9%
Lake	Mentor	44060	59,157	8.9%
Lake	Painesville	44077	58,061	8.7%
Lake	Wickliffe	44092	16,741	2.5%
Lake	Willoughby	44094	36,283	5.4%
Portage	Aurora	44202	19,998	3.0%
Summit	Macedonia	44056	11,970	1.8%
Summit	Northfield	44067	20,775	3.1%
Summit	Twinsburg	44087	21,583	3.2%
Community To	otal		667,426	100.0%

Source: Truven Market Expert, 2015.

The hospital is located in Mayfield Heights, Ohio (ZIP code 44124). The map in **Exhibit 3** portrays the ZIP codes that comprise the Hillcrest community.

Hillcrest Hospital 44081 Н 44057 <sub>a</sub>Mentor 44060 44077 44086 Eastlake Lake Lake \_Willoughby 44094 44064 Euclid 44092 44024 East Cleveland 44143 Geauga 44040 44026 44046 South Euclin Cleveland Heights 44106 44118 44124 Geauga 44102 4113 44120 44072 44127 Shaker Heights 44022 44065 44062 109 44105 44128 Cuyahoga Cuyahoga Maple Heights 44021 Garfield Heights 44139 Solon 44023 44131 44146 **Portage** Summit 44067 44056 44087 44234 44202 44141 Portage 44231 Summit 44255

**Exhibit 3: Hillcrest Community** 

Source: Microsoft MapPoint and Cleveland Clinic, 2015.

# **Secondary Data Summary**

The following section summarizes principal findings from the secondary data analysis. Appendix B provides more detailed information.

## **Demographics**

Population characteristics and changes directly influence community health needs. The total population in the Hillcrest community is expected to remain relatively unchanged from 2015 to 2020. Between 2015 and 2020, 15 of the 26 ZIP codes in the Hillcrest community are projected to lose population. The populations in ZIP codes (44120 and 44128) are expected to decrease by more than two percent.

While the total population is expected to remain virtually unchanged, the number of persons aged 65 years and older is projected to increase by 13 percent between 2015 and 2020. The growth of older populations is likely to lead to growing need for health services, since on an overall per-capita basis, older individuals typically need and use more services than younger persons.

In 2015, over 70 percent of the population in three ZIP codes on the western side of the community (44128, 44120, and 44137) was Black. In eleven other ZIP codes, this percentage was under 5 percent.

Cuyahoga County had a higher percentage of residents aged 25 years and older without a high school diploma than the Ohio average. Compared to Ohio, Cuyahoga County, Geauga County, and Lake County had a higher proportion of the population that is linguistically isolated.<sup>4</sup>

### **Economic Indicators**

Many health needs have been associated with poverty. According to the U.S. Census, in 2014 approximately 15.9 percent of people in Ohio were living in poverty. Cuyahoga County (18.5 percent) and Portage County (16.0 percent) both have poverty rates higher than Ohio's during that year. In each of the five Hillcrest community counties, poverty rates have been comparatively high for Black and Hispanic (or Latino) residents. In Portage and Summit counties, poverty rates have been comparatively high for Asian residents. Low income census tracts are prevalent in the western portion of Hillcrest's community.

2013 crime rates in Cuyahoga and Summit counties were well above Ohio averages.

The percentage of people uninsured has declined in recent years, due to two primary factors. First, between 2010 and 2015, unemployment rates at the local county, state, and national level decreased significantly. Many receive health insurance coverage through their (or a family

<sup>&</sup>lt;sup>4</sup> Linguistic isolation is defined as residents who speak a language other than English and speak English less than "very well."

member's) employer. Second, in 2010 the Patient Protection and Affordable Care Act (ACA, 2010) was enacted, and Ohio was among the states that expanded Medicaid eligibility. In 2015, nineteen out of the 26 ZIP codes in the Hillcrest community had uninsured rates below five percent. By 2020, it is projected that this will increase to twenty-four of the 26 ZIP codes in the community.

### **Local Health Status and Access Indicators**

In the 2016 *County Health Rankings*, Cuyahoga County ranked in the bottom 50<sup>th</sup> percentile among Ohio counties for 17 of the 27 indicators assessed. Of those 17 indicators ranking in the bottom 50<sup>th</sup> percentile, five of them ranked in the bottom quartile, including Quality of Life, Sexually Transmitted Infections, Social and Economic Factors, Inadequate Social Support, and Severe Housing Problems. Summit County ranked in the bottom 50<sup>th</sup> percentile among Ohio counties for 11 of the 27 indicators assessed, Portage County for 9 indicators, Lake County for 8 indicators, and Geauga County for 5 indicators. All five counties ranked in the bottom 50<sup>th</sup> percentile for Inadequate Social Support, Physical Environment, and Air Pollution. Four of the five counties ranked in the bottom 50<sup>th</sup> percentile for Excessive Drinking, Diabetic Screening, and Severe Housing Problems. The following indicators underlying the rankings are comparatively unfavorable:

- Air pollution
- Binge and heavy drinking
- Diabetic screening
- Percent of driving deaths with alcohol involvement
- Percent of households with severe housing problems
- Percent of the population unemployed
- Percent of the workforce that drives to work alone
- Percent of workers with a long commute who drive alone
- Ratio of population to primary care physicians, dentists, and mental health providers
- Social associations rate

In the 2015 *Community Health Status Indicators*, which compares community health indicators for each county with those for peers across the United States, the following indicators appear to be most significant:

- Annual average particulate matter concentration
- Morbidity associated with Alzheimer's disease, adult asthma, adult depression, and preterm births
- Rates of preventable hospitalizations for older adults
- The number of adult females undergoing routine pap tests

According to the Ohio Department of Health, age-adjusted mortality rates for heart disease, homicide, aortic aneurysm, HIV, and pedestrians killed in traffic collisions were all significantly higher in Cuyahoga County than the Ohio averages. In Lake County, rates for suicide and pedestrians killed in traffic collisions were higher than the state average. In Portage County, rates of heart disease, influenza and pneumonia, suicide, aortic aneurysm, and pedestrians killed

in traffic collisions were higher than Ohio averages. In Summit County, age-adjusted mortality rates for influenza and pneumonia, homicide, aortic aneurysm, and pedestrians killed in traffic collisions were also higher than the Ohio averages. Overall age-adjusted mortality and incidence rates for cancer in the community have been slightly above average.

Ohio Department of Health data also indicate that:

- The incidence of several communicable diseases has been particularly high in Cuyahoga County, including chlamydia, HIV, gonorrhea, and viral meningitis. Rates of chlamydia, gonorrhea, viral meningitis, and hepatitis A, B, and C were also high in Summit County.
- Virtually all maternal and child health indicators (infant mortality rates, low birth weights, preterm births, and teen pregnancies) are comparatively problematic in Cuyahoga County. Neonatal mortality rates, low birth weights, and preterm births are also comparatively problematic in Summit County.
- Births to women aged 40 to 54 years are also higher in all five counties than the Ohio average.

Data from the Centers for Disease Control's Behavioral Risk Factor Surveillance System (BRFSS) indicate comparatively high rates of asthma, high cholesterol, and high blood pressure in several ZIP codes across the community.

### **Ambulatory Care Sensitive Conditions**

Ambulatory Care Sensitive Conditions (ACSCs) include fourteen health conditions we analyzed "for which good outpatient care can potentially prevent the need for hospitalization or for which early intervention can prevent complications or more severe disease." Among these conditions are: angina without procedure, diabetes, perforated appendixes, chronic obstructive pulmonary disease (COPD), hypertension, congestive heart failure, dehydration, bacterial pneumonia, urinary tract infection, and asthma.

We reviewed ACSC rates in the Hillcrest community for 14 conditions and Hillcrest community rates have exceeded the Ohio averages for congestive heart failure, hypertension, low birth weight, dehydration, uncontrolled diabetes, and adult asthma. Rates for congestive heart failure and diabetes were particularly problematic.

### **Community Need Index**

Dignity Health, a California-based hospital system, developed and has made widely available for public use a *Community Need Index*<sup>TM</sup> (CNI) that measures barriers to health care access by county/city and ZIP code. The index is based on five social and economic indicators:

• The percentage of elders, children, and single parents living in poverty

15

<sup>&</sup>lt;sup>5</sup>Agency for Healthcare Research and Quality (AHRQ) Prevention Quality Indicators.

- The percentage of adults over the age of 25 with limited English proficiency, and the percentage of the population that is non-White
- The percentage of the population without a high school diploma
- The percentage of uninsured and unemployed residents
- The percentage of the population renting houses

The CNI calculates a score for each ZIP code based on these indicators. Scores range from "Lowest Need" (1.0-1.7) to "Highest Need" (4.2-5.0).

The CNI indicates that two of the 26 ZIP code in the Hillcrest community scored in the "highest need category," ZIP codes 44128 and 44120. Three ZIP codes in the community scored in the "high need category," ZIP codes, 44137, 44146, and 44118.

### **Food Deserts**

The U.S. Department of Agriculture's Economic Research Service estimates the number of people in each census tract that live in a "food desert," defined as low-income areas more than one mile from a supermarket or large grocery store in urban areas and more than 10 miles from a supermarket or large grocery store in rural areas. Several locations within the Hillcrest community have been designated as food deserts.

## **Medically Underserved Areas and Populations**

Medically Underserved Areas and Populations (MUA/Ps) are designated by the Health Resources and Services Administration (HRSA) based on an "Index of Medical Underservice." The index includes the following variables: ratio of primary medical care physicians per 1,000 population, infant mortality rate, percentage of the population with incomes below the poverty level, and percentage of the population age 65 or over. Areas with a score of 62 or less are considered "medically underserved." There are approximately 16 census tracts in the hospital's community that have been designated as medically underserved.

### **Health Professional Shortage Areas**

A geographic area can receive a federal Health Professional Shortage Area (HPSA) designation if a shortage of primary medical care, dental care, or mental health care professionals is found to be present. A number of census tracts have been designated to be HPSAs in the hospital's community – for primary care and for dental care.

## **Relevant Findings of Other CHNAs**

The following community health needs were most frequently found to be significant in other, recently conducted community health needs assessments:

- Obesity
- Mental/Behavioral health

- Access to basic/primary health care
- Diabetes
- Cardiovascular/heart disease
- Tobacco use/smoking
- Drug/substance abuse
- Alcohol abuse and excessive drinking
- Elderly care/aging population
- Cancer
- Infant mortality (disparities)
- Access to dental care
- Access/lack of health insurance coverage
- Cost of care
- Poverty
- Transportation

The assessment prepared by the Cuyahoga County Health Improvement Partnership (2015) also highlighted issues with violence and health disparities/equity.

# **Primary Data Summary**

The following community health issues were identified by interviewees as significant. The issues are presented based on the frequency with which they were mentioned.

**Access to Healthcare.** Interviewees identified different health care services that were particularly difficult to access in the Hillcrest community. Interviewees also expressed a need for more providers throughout the community, including mobile health units, free clinics, and other services. The specific services identified as priority needs were:

- Access to Dental Care. Oral health was seen as an important health need throughout the community. Interviewees believed that proper oral health was a key component of good health. However, interviewees stated that finding proper dental care could be difficult in the community. This was especially true for low income or uninsured populations.
- Access to Primary Care. Basic primary care was also identified as a priority in the community. Interviewees stated that long waitlists for many services was normal and that many residents in the community were using emergency care services as primary providers due to the waitlists, costs of primary care, or lack of insurance.
- Access to Specialty Care. Interviewees also believed that specialty care was an issue in
  the community. Interviewees indicated that those needing specialty services often faced
  waitlists or providers who would not accept their insurance. Furthermore, interviewees
  believed that to get proper specialty care, patients often had to travel long distances for
  care.

**Obesity and Related Conditions.** Unhealthy lifestyles that contribute to obesity and resulting conditions were talked about often by interviewees in the Hillcrest community. Obesity was a concern across the community as a result of poor diet and lack of exercise. Interviewees were particularly concerned with childhood obesity. Additionally, several conditions were identified as prevalent that are related to obesity. Interviewees indicated that diabetes, hypertension, and cardiovascular disease were all issues in the community. Interviewees also believed that there was a lack of areas to engage in physical activity.

**Substance Abuse.** A large majority of those interviewed identified the abuse of opiates including heroin, as a significant health concern. Abuse was cited as a widespread issue, affecting individuals in every age and socioeconomic class. The over-prescription of pain medications by physicians and availability of the drugs were believed to be the primary cause of the epidemic.

Care of the Elderly. In response to the growing elderly population in all areas of the community, interviewees believed that adequate care for the elderly to ensure the ability to age in place was a primary concern. Interviewees pointed to common unhealthy-lifestyle conditions (heart disease, diabetes) as problematic among seniors, as well as Alzheimer's disease, dementia, and injuries related to accidents. Furthermore, interviewees identified a need for in-home health care, assisted living facilities, and other care options for the elderly as top priorities and needs.

Mental Health Conditions and Care. A large majority of those interviewed believed that either mental health conditions or accessing mental health services were a primary concern in the community. While all mental health conditions were considered concerns, depression and anxiety were most often identified. Furthermore, adolescent populations were viewed as particularly susceptible to poor mental health, largely as a product of the high stress and expectations put on them for academic achievement. Mental health services were also seen as disproportionately inaccessible in the community. While all mental health services were considered for improvement, interviewees indicated that adolescent services, long-term institutional care, and diverting at-risk populations from incarceration to treatment were most important.

**Infant Mortality.** A majority of interviewees cited the high rate of infant mortality as a serious concern within the community. A lack of access to prenatal health care services and education, especially among low-income and minority populations, contribute to the high mortality rates. Unhealthy lifestyles and poor management of chronic conditions such as diabetes and hypertension among pregnant women were also believed to influence these rates.

**Social and Economic Issues.** Within the Hillcrest Hospital community, interviewees noted that several issues disproportionately affected Black residents, including high rates of poverty and unemployment and decreasing property values. Financial challenges were believed to exacerbate mental health issues and severely limit the community's access to quality healthcare services and healthy foods. Interviewees further noted that low-income Black residents had significantly higher rates of heart disease, diabetes, and hypertension.

**Information Gaps**. Interviewees stated that not having proper information about healthcare providers and prevention services resulted in poor health outcomes in the community. Interviewees stated that residents were often unaware of health programs in place throughout the community and requested a centralized place for information about community health often. Furthermore, interviewees believed that there was a general misunderstanding about health insurance as well. Residents were thought to not know how their health insurance plans worked or how to properly secure health insurance, especially for lower income and immigrant populations.

**Cancer.** Several interviewees identified cancer as a significant health concern within the Hillcrest community. While rates of all types of cancer were believed to be high, pancreatic and colon cancer were specifically mentioned. Interviewees attributed the high cancer rates to the unhealthy lifestyles and eating habits of many residents. Further concern was placed on the rising number of young people being diagnosed with cancer.

### **Prioritization Process**

The following section highlights why certain community health needs were determined to be "significant." Needs were determined to be significant if they were identified as problematic by at least two of the following three data sources: (1) the most recently available secondary data regarding the community's health, (2) recent assessments developed by other organizations (e.g., local Health Departments), and (3) the key informants who participated in the interview process.

#### Access to Affordable Health Care

Access to basic health care is challenging for some segments of the Hillcrest community who are unaware of how to access and use available services and who experience other access barriers including cost and inadequate transportation. The Hillcrest community has comparatively unfavorable socioeconomic indicators, particularly in medically underserved areas. The recent election of the new president raises questions regarding whether access improvements associated with the Affordable Care Act will be sustained.

- Federally-designated Medically Underserved Populations (MUPs), Medically Underserved Areas (MUAs) and Primary Care Health Professional Shortage Areas (HPSAs) are present in the community served by Hillcrest Hospital (Exhibits 33 and 34).
- Rates for ambulatory care sensitive conditions within the Hillcrest community were significantly higher than the Ohio averages (Exhibits 28 and 29). Disproportionately high rates indicate potential problems with the availability or accessibility of ambulatory care and preventive services and can suggest areas for improvement in the health care system and ways to improve outcomes.
- In Community Health Status Indicators (CHSI), Cuyahoga, Portage, and Summit counties rank poorly compared to peer counties for Older Adult Preventable Hospitalizations. Geauga Country ranks poorly compared to peer counties for percent of resident that are uninsured (Exhibit 21).
- Access to basic medical care was identified by virtually all interviewees as problematic.
   Interviewees indicated that segments of the population rely excessively on emergency departments for primary care. Interviewees also identified lack of transportation options, lack of health insurance coverage or understanding of coverage, and service affordability as significant barriers to primary care.

#### **Chronic Diseases and Other Health Conditions**

Chronic diseases and health conditions including, in alphabetical order, cancer chemical dependency, communicable diseases (including sexually transmitted infections), diabetes, heart disease, hypertension, obesity, poor birth outcomes, poor mental health status, and respiratory diseases were identified as prevalent in the Hillcrest community.

#### Cancer

- Age-adjusted cancer incidence and mortality rates are higher in the counties served by Hillcrest than the Ohio averages (Exhibits 23 and 24).
- Cuyahoga and Portage counties compared unfavorably to peer counties for Cancer Deaths in Community Health Status Indicators (Exhibit 21).
- Several interviewees identified cancer as a significant health concern within the Hillcrest community. While rates of all types of cancer were believed to be high, pancreatic and colon cancer were specifically mentioned. Interviewees attributed the high cancer rates to the unhealthy lifestyles and eating habits of many residents. Further concern was placed on the rising number of young people being diagnosed with cancer.

# • Chemical Dependency

- o In County Health Rankings, Cuyahoga and Lake counties ranked unfavorably for Drug Overdose Deaths (**Exhibit 19**).
- According to the 2014 Ohio Department of Health Drug Overdose Report, fentanyl drug seizures in the United States increased by 300 percent between 2013 and 2014. In 2014, fentanyl-related overdoses accounted for 19.9 percent of accidental overdoses, a significant rise from 4.0 percent in 2013. Additionally, the rate of heroin poisoning in Cuyahoga County was significant higher than the Ohio average.
- Abuse of opiates was cited as a significant health concern by many interviewees.
   A majority of the recent health assessments analyzed in this report identified chemical dependency as a significant health need.

# • Communicable Diseases

- In County Health Rankings, Cuyahoga County ranked 87<sup>th</sup> out of the 88 counties in Ohio for Sexually Transmitted Infections and Summit and Lake counties ranked 80<sup>th</sup> and 60<sup>th</sup>, respectively (**Exhibit 19**).
- O According to the Ohio Department of Health, the age-adjusted mortality rate for HIV in Cuyahoga County was more than twice as high as the state average. Incidence rates for chlamydia, gonorrhea, and HIV in Cuyahoga County were all significantly higher than the Ohio averages. Incidence rates of viral meningitis in Cuyahoga, Portage, and Summit counties were also significantly higher than the state average (Exhibits 22 and 25).

## • Diabetes, Heart Disease, and Hypertension

- o In Community Health Status Indicators (CHSI), Cuyahoga and Lake counties ranked poorly compared to peer counties for Coronary Heart Disease Deaths, and Portage County ranked poorly for Diabetes Deaths (Exhibit 21).
- According to the Ohio Department of Health, heart disease was the leading cause of death in Cuyahoga, Lake, Portage, and Summit counties (Exhibit 22).
- ACSC rates for Congestive Heart Failure, Hypertension, and Uncontrolled Diabetes were all significantly higher than the average ACSC rates in Ohio (Exhibit 27).

# Obesity

 Federally-designated Food Deserts are present in the community served by Hillcrest (Exhibit 32). Lack of access to affordable healthy food options and high concentrations of fast food restaurants, may lead individuals (particularly

- those in lower socio-economic classes) to consume calorie-dense, nutrient-poor foods that lead to obesity. Chronic conditions such as hypertension and diabetes are much more prevalent among individuals who are obese.
- Obesity was the most frequently identified significant need in other, recent health assessments.

## • Poor Birth Outcomes

- In the Community Health Status Indicators, Cuyahoga, Portage, and Summit counties ranked in the bottom quartile compared to peer counties for preterm births (Exhibit 21).
- O Data from the Ohio Department of Health indicate that rates of infant mortality, low birth weights, and preterm births in Cuyahoga County are significantly higher than the Ohio averages. The percent of births to women aged 40-54 years old in each of the five counties in the community were also significantly higher than the state average (Exhibit 26).
- o ACSC rates for Low Birth Weight were higher than the Ohio average in 10 of the 26 ZIP codes in the Hillcrest Hospital community. (Exhibit 28).
- Many interviewees believed that the high rate of infant mortality within the community was a significant concern. Interviewees perceived that the high infant mortality rates were most predominant among low-income Black women. A lack of both pregnancy education and resources are thought to have a role in this disparity.

## Poor Mental Health Status

- Geauga, Lake, Portage, and Summit counties compared unfavorably to peer counties for Older Adult Depression in Community Health Status Indicators (Exhibit 21).
- Many interviewees identified mental illness and a lack of mental health services as a significant concern for all age groups within the area served by Hillcrest. Several interviewees cited the connection between poor mental health and negative outcomes for physical health.

# • Respiratory Diseases

- Cuyahoga, Geauga, Lake, and Summit counties compared unfavorably to peer counties for Older Adult Asthma in Community Health Status Indicators (Exhibit 21).
- The ACSC rate for Adult Asthma in the Hillcrest community was more than eight percent higher than the Ohio average (Exhibit 29)

### **Economic Development and Community Conditions**

Several areas within the Hillcrest community lack adequate social services, experience high rates of poverty, unemployment, and crime, and are affected by adverse environmental conditions.

- Cuyahoga and Portage counties have higher poverty rates than both the Ohio and national averages (Exhibit 12).
  - o Poverty rates among Black populations in Cuyahoga and Portage counties are more than twice as high as the poverty rates of White residents. The poverty rates

- among Asian populations in Portage and Summit counties are also comparatively high (Exhibit 13).
- Federally-designated Low Income Areas are present in the community served by Hillcrest (Exhibit 14).
- o In County Health Rankings, Cuyahoga, Geauga, Lake, and Portage counties ranked in the bottom quartile for Inadequate Social Support (**Exhibit 19**).
- According to the Community Need Index, two out of the 26 ZIP codes in Hillcrest's community scored in the "highest need category" (Exhibit 30).
- o A majority of interviewees identified economic and healthcare disparities among minority residents as significant community health issues.
- Crime rates in Cuyahoga and Summit counties have been well above Ohio averages (Exhibit 18) and recent homicide rates in Cuyahoga County have been nearly fifty percent higher than the Ohio average (Exhibit 22).
- In County Health Rankings, each of the five counties in the Hillcrest Hospital community ranked poorly for both Physical Environment and Air Pollution. Cuyahoga, Geauga, Portage, and Summit counties also ranked poorly for Severe Housing Problems (Exhibit 19).
- Other health assessments also identified transportation and environmental concerns as priorities.
- Interviewees identified a lack of transportation options as a significant barrier to accessing good healthcare in the community. This was especially true for low-income, elderly, and disabled residents.

### **Health Professions Education and Research**

There is a need for more research to address these and other community health needs. More trained health professionals are needed locally, regionally and nationally. Research conducted by Cleveland Clinic has improved health for community members through advancements in new clinical techniques, devices and treatment protocols in diseases and health conditions such as cancer, heart disease, and diabetes.

- Federally-designated Medically Underserved Areas and Populations, and Primary Care and Dental Health Professional Shortage Areas are present in the community served by Hillcrest (Exhibits 33 and 34).
- County Health Rankings data indicate that there are fewer primary care physicians and mental health providers per capita in Geauga, Lake, and Portage counties, compared to the Ohio average (Exhibit 20).
- A report conducted by the Robert Graham Center indicates that Ohio will need an
  additional 681 primary care physicians by 2030 (an eight percent increase) to maintain
  current levels of primary care access. Physicians nearing retirement age and increases in
  demand associated with increases in insurance coverage are expected to exacerbate this
  need.<sup>6</sup>

<sup>6</sup> Petterson, Stephen M; Cai, Angela; Moore, Miranda; Bazemore, Andrew. State-level projections of primary care workforce, 2010-2030. September 2013, Robert Graham Center, Washington, D.C.

23

• Through research, Cleveland Clinic has advanced knowledge and improved community health for all its communities, from local to national, and across the world. Cleveland Clinic is involved in both basic research and clinical studies and seeks to translate discoveries into advanced treatments and cures for a variety of diseases and conditions. Cleveland Clinic's tripartite mission of patient care, research and education facilitates bringing new therapies and treatments to patients and their providers, because Cleveland Clinic physicians provide quality clinical care closely integrated with the latest research and educational developments. Research is conducted at and in collaboration with all Cleveland Clinic hospitals. This allows patients to access the latest techniques and to enroll in research trials no matter where they access care in the health system.

# **Healthcare for the Elderly**

The elderly population in the Hillcrest community is expected to increase in the next five years and meeting the health and social service needs of the aging population is a significant issue.

- While the population in Hillcrest's community is projected to remain stagnant between 2015 and 2020; the number of persons 65 years of age and older in the community is projected to increase by 13.0 percent over this period (**Exhibit 7**).
- In Community Health Status Indicators (CHSI), each of the five counties in the Hillcrest community benchmarked unfavorably to peer counties for Alzheimer's disease and dementia. Cuyahoga, Portage, and Summit counties also rank poorly compared to peer counties for Older Adult Preventable Hospitalizations (Exhibit 21).
- Interviewees believed that adequate care for the elderly to ensure the ability to age in place was a primary concern in the Hillcrest community. Interviewees pointed to common unhealthy-lifestyle conditions (heart disease, diabetes) as problematic among seniors, as well as Alzheimer's disease, dementia, and injuries related to accidents. Furthermore, interviewees identified a need for in-home health care, assisted living facilities, and other care options for the elderly as top priorities and needs.

### Wellness

Programs and activities that target behavioral health change were identified as needed in the Hillcrest community. Education and opportunities for residents regarding excessive drinking, exercise, nutrition, and smoking cessation specifically were noted.

- Federally-designated Food Deserts are present in the community served by Hillcrest (**Exhibit 32**). Lack of access to affordable healthy food options and high concentrations of fast food restaurants, may lead individuals (particularly those in lower socio-economic classes) to consume nutrient-poor foods.
- In County Health Rankings, Cuyahoga, Geauga, Lake, and Portage counties ranked unfavorably for Excessive Drinking. Cuyahoga, Lake, and Summit counties ranked unfavorably for Alcohol Impaired Driving Deaths. Portage and Summit counties ranked unfavorably for Adult Smoking (Exhibits 19 and 20).

- Community Health Status Indicators (CHSI) data indicate that Lake and Summit counties benchmarked poorly compared to peer counties for Excessive Drinking and Geauga and Portage counties benchmarked poorly for Adult Smoking (Exhibit 21).
- Nearly all interviewees identified diabetes, heart disease, and obesity as serious health
  concerns within the community served by Hillcrest. Interviewees all believed that poor
  nutrition and lack of a physical activity were the primary causes of these diseases. They
  also cited food deserts, lack of knowledge about nutrition, and the high cost of healthy
  food as the main barriers to healthier eating habits.

# OTHER FACILITIES AND RESOURCES IN THE COMMUNITY

This section identifies other facilities and resources available in the community served by Hillcrest that are available to address community health needs.

### **Federally Qualified Health Centers**

Federally Qualified Health Centers (FQHCs) are established to promote access to ambulatory care in areas designated as "medically underserved." These clinics provide primary care, mental health, and dental services for lower-income members of the community. FQHCs receive enhanced reimbursement for Medicaid and Medicare services and most also receive federal grant funds under Section 330 of the Public Health Service Act. There currently is one FQHC site operating in the Hillcrest community (**Exhibit 4**).

**Exhibit 4: Federally Qualified Health Centers** 

Health Center	County	ZIP Code
UH Mayfield Village Health Center	Cuyahoga	44143

Source: Health Resources and Services Administration, 2016.

# **Hospitals**

**Exhibit 5** presents information on hospital facilities that operate in the community.

**Exhibit 5: Hospitals** 

Hospital Name	Туре	Beds	ZIP Code	County
Highland Springs Hospital	Psychiatric	72	44122	Cuyahoga
Hillcrest Hospital	General Hospital	496	44124	Cuyahoga
Kindred Hospital- Cleveland	Long-Term Acute Care	68	44120	Cuyahoga
Regency North Central Ohio- Cleveland East	Long-Term Acute Care	44	44128	Cuyahoga
South Pointe Hospital	General Hospital	173	44122	Cuyahoga
University Hospitals Ahuja Medical Center	General Hospital	144	44122	Cuyahoga
University Hospitals Bedford Medical Center Campus	General Hospital	110	44146	Cuyahoga
University Hospitals Rehabilitation Hospital	Rehabilitation	50	44122	Cuyahoga
University Hospitals Richmond Medical Center Campus	General Hospital	125	44143	Cuyahoga
Rehabilitation Hospital at Heather Hill	Rehabilitation	142	44024	Geauga
University Hospitals Geauga Medical Center	General Hospital	226	44024	Geauga
Lake Health Tripoint Medical Center	General Hospital	135	44077	Lake
Lake Health West Medical Center	General Hospital	267	44094	Lake
Windsor-Laurelwood Center for Behavioral Medicine	Psychiatric	159	44094	Lake

Source: Ohio Hospital Association, 2016.

### OTHER FACILITIES AND RESOURCES IN THE COMMUNITY

## **Other Community Resources**

A wide range of agencies, coalitions, and organizations that provide health and social services is available in the region served by Hillcrest. United Way 2-1-1 Ohio maintains a large, online database to help refer individuals in need to health and human services in Ohio. This is a service of the Ohio Department of Social Services and is provided in partnership with the Council of Community Services, The Planning Council, and United Way chapters in Cleveland. United Way 2-1-1 Ohio contains information on organizations and resources in the following categories:

- Donations and Volunteering
- Education, Recreation, and the Arts
- Employment and Income Support
- Family Support and Parenting
- Food, Clothing, and Household Items
- Health Care
- Housing and Utilities
- Legal Services and Financial Management
- Mental Health and Counseling
- Municipal and Community Services
- Substance Abuse and Other Addictions

Additional information about these resources is available at: http://www.211oh.org/.

# **APPENDIX A - CONSULTANT QUALIFICATIONS**

Verité Healthcare Consulting, LLC (Verité) was founded in May 2006 and is located in Alexandria, Virginia. The firm serves clients throughout the United States as a resource that helps health care providers conduct Community Health Needs Assessments and develop Implementation Strategies to address significant health needs. Verité has conducted more than 50 needs assessments for hospitals, health systems, and community partnerships nationally since 2010.

The firm also helps hospitals, hospital associations, and policy makers with community benefit reporting, program infrastructure, compliance, and community benefit-related policy and guidelines development. Verité is a recognized national thought leader in community benefit and Community Health Needs Assessments.

This section presents an assessment of secondary data regarding health needs in the Hillcrest community.

# **Community Assessed**

As mentioned previously and shown in **Exhibit 1**, Hillcrest's community is comprised of 26 ZIP codes in Cuyahoga, Geauga, Lake, Portage, and Summit counties in Ohio.

# **Demographics**

Population characteristics and changes directly influence community health needs. The total population in the Hillcrest community is expected to remain virtually unchanged from 2015 to 2020 (**Exhibit 6**).

**Exhibit 6: Percent Change in Community Population by ZIP Code** 

County	City	ZIP Code	Estimated Population 2015	Projected Population 2020	Percent Change 2015-2020
Cuyahoga	Beachwood	44122	33,661	33,514	-0.4%
Cuyahoga	Bedford	44146	29,602	29,483	-0.4%
Cuyahoga	Chagrin Falls	44022	16,811	16,860	0.3%
Cuyahoga	Cleveland	44118	39,612	38,891	-1.8%
Cuyahoga	Cleveland	44120	35,932	34,539	-3.9%
Cuyahoga	Cleveland	44121	32,122	31,551	-1.8%
Cuyahoga	Cleveland	44124	38,511	38,405	-0.3%
Cuyahoga	Cleveland	44128	28,303	27,539	-2.7%
Cuyahoga	Cleveland	44143	24,142	24,307	0.7%
Cuyahoga	Gates Mills	44040	3,029	2,977	-1.7%
Cuyahoga	Maple Heights	44137	22,566	22,236	-1.5%
Cuyahoga	Solon	44139	24,770	25,234	1.9%
Geauga	Chagrin Falls	44023	18,065	18,577	2.8%
Geauga	Chardon	44024	23,615	23,821	0.9%
Geauga	Chesterland	44026	11,069	10,972	-0.9%
Geauga	Newbury	44065	4,018	3,950	-1.7%
Geauga	Novelty	44072	4,321	4,298	-0.5%
Lake	Eastlake	44095	32,709	32,155	-1.7%
Lake	Mentor	44060	59,157	58,612	-0.9%
Lake	Painesville	44077	58,061	59,108	1.8%
Lake	Wickliffe	44092	16,741	16,646	-0.6%
Lake	Willoughby	44094	36,283	37,132	2.3%
Portage	Aurora	44202	19,998	20,662	3.3%
Summit	Macedonia	44056	11,970	12,403	3.6%
Summit	Northfield	44067	20,775	21,266	2.4%
Summit	Twinsburg	44087	21,583	22,405	3.8%
<b>Community Total</b>		C T M	667,426	667,543	0.0%

Source: Truven Market Expert, 2015.

Between 2015 and 2020, 15 of the 26 ZIP codes in the community are projected to decrease in population size. The populations in Cleveland ZIP codes 44120 and 44128 are expected to decrease by more than two percent.

**Exhibit 7** shows the community's population for certain age and sex cohorts in 2015, with projections to 2020.

Exhibit 7: Percent Change in Population by Age/Sex Cohort, 2015-2020

Age/Sex Cohort	Estimated Population 2015	Projected Population 2020	Percent Change 2015-2020
0-17	140,388	131,980	-6.0%
Female 18-44	103,846	103,696	-0.1%
Male 18-44	99,934	102,457	2.5%
45-64	197,390	187,164	-5.2%
65+	125,868	142,246	13.0%
Total	667,426	667,543	0.0%

Source: Market Expert, 2015.

The number of persons aged 65 years and older is projected to increase by 13 percent between 2015 and 2020. The 0-17, female 18-44, and 45-64 age groups are expected to decrease in population. The growth of older populations is likely to lead to growing need for health services, since on an overall per-capita basis, older individuals typically need and use more services than younger persons.

**Exhibit 8** illustrates the percent of the population 65 years of age and older in the community by ZIP code.

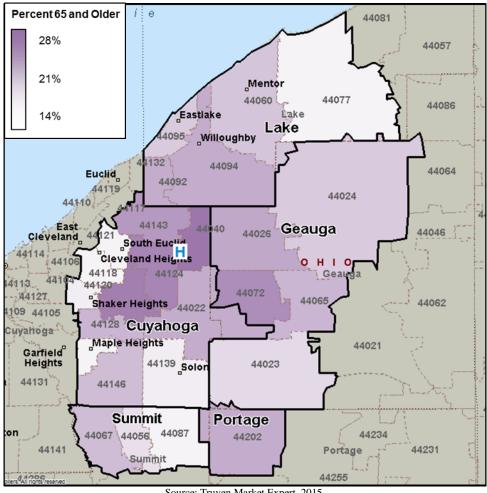


Exhibit 8: Percent of Population Aged 65+ by ZIP Code, 2015

Source: Truven Market Expert, 2015.

In the community, ZIP codes 44040, 44122, and 44124 had the highest proportions of residents 65 years of age and older.

Exhibits 9 and 10 show locations in the community where the percentages of the population that are Black and Hispanic (or Latino) were highest in 2015.

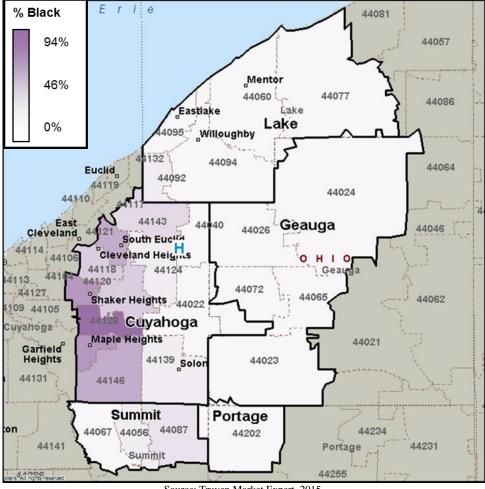


Exhibit 9: Percent of Population - Black, 2015

Source: Truven Market Expert, 2015.

Over seventy percent of residents of ZIP codes 44128, 44120, and 44137 were Black. Fewer than five percent of residents were Black in ZIP codes 44094, 44202, 44022, 44023, 44095, 44065, 44072, 44040, 44060, 44024, and 44026.

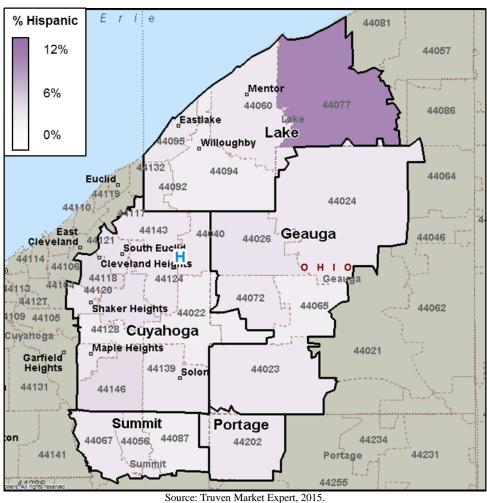


Exhibit 10: Percent of Population – Hispanic (or Latino), 2015

The percentage of residents that are Hispanic (or Latino) was highest in ZIP code 44077.

Data regarding residents without a high school diploma, with a disability, and who are linguistically isolated are presented in **Exhibit 11** for Cuyahoga and Summit counties, Ohio, and the United States.

Exhibit 11: Other Socioeconomic Indicators, 2014

Measure	Cuyahoga County	Geauga County	Lake County	Portage County	Summit County	Ohio	United States
Population 25+ without High School Diploma	12.1%	8.9%	8.7%	8.9%	9.3%	11.2%	13.6%
Population with a Disability	14.3%	9.7%	11.3%	11.9%	12.5%	13.5%	12.3%
Population Linguistically Isolated	4.1%	4.0%	2.7%	1.6%	2.1%	2.4%	8.6%

Source: U.S. Census, ACS 5-Year Estimates, 2010-2014.

### Exhibit 11 indicates that:

- Cuyahoga County had a higher percentage of residents aged 25 years and older without a high school diploma than the Ohio average.
- Cuyahoga County had a higher percentage of the population with a disability compared to Ohio and United States averages.
- Compared to Ohio, Cuyahoga, Geauga, and Lake counties had higher proportions of the population that are linguistically isolated. Linguistic isolation is defined as residents who speak a language other than English and speak English less than "very well."

### **Economic indicators**

The following categories of economic indicators with implications for health were assessed: (1) people in poverty; (2) unemployment rate; (3) insurance status; and (4) crime.

## **People in Poverty**

Many health needs have been associated with poverty. According to the U.S. Census, in 2014 approximately 15.9 percent of people in Ohio were living in poverty. Cuyahoga and Portage counties' poverty rates were higher than Ohio's poverty rate during that year (**Exhibit 12**).

20.0% 18.5% 18.0% 16.0% 15.9% 15.6% 16.0% 14.7% 14.0% 12.0% 9.2% 10.0% 7.9% 8.0% 6.0% 4.0% 2.0% 0.0% Cuyahoga Geauga Lake Summit Ohio United Portage County County County County County States

Exhibit 12: Percent of People in Poverty, 2014

Source: U.S. Census, ACS 5-Year Estimates, 2010-2014.

Considerable variation in poverty rates is present across racial and ethnic categories, in each Hillcrest county and Ohio (Exhibit 13).

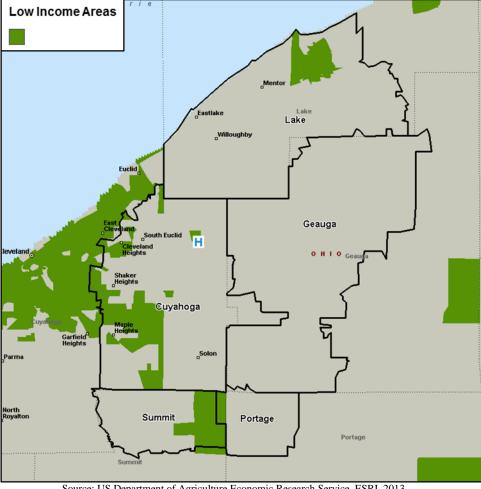
45.0% 40.0% 40.0% 34.2% 33.6% 35.0% 31.5% 29.0% 30.0% 25.8% 25.0% 22.1%21.3% 20.0% 15.0% 12.8%12.8% 12.3% 11.2% 10.0% 6.9% 5.0% 0.0% White Asian Hispanic Black ■ Cuyahoga County ■ Geauga County ■ Lake County ■ Portage County ■ Summit County ■ Ohio ■ United States

Exhibit 13: Poverty Rates by Race and Ethnicity, 2014

Source: U.S. Census, ACS 5-Year Estimates, 2010-2014.

Poverty rates in all five counties and Ohio have been comparatively high for Black residents. The poverty rates for Hispanic (or Latino) residents of Cuyahoga County, White, Black, and Asian residents of Portage County, and Asian residents of Summit County have exceeded the Ohio average.

**Exhibit 14** portrays (in green shading) the locations of low income census tracts in the community. The U.S. Department of Agriculture defines "low income census tracts" as areas where poverty rates are 20 percent or higher or where median family incomes are 80 percent or lower than within the metropolitan area.



**Exhibit 14: Low Income Census Tracts** 

Source: US Department of Agriculture Economic Research Service, ESRI, 2013.

Low income census tracts have been prevalent in the western portion of Hillcrest's community.

# **Eligibility for the National School Lunch Program**

Schools participating in the National School Lunch Program are eligible to receive financial assistance from the United States Department of Agriculture (USDA) to provide free or reducedprice meals to low-income students. Schools with 40 percent or more of their student body receiving this assistance are eligible for school-wide Title I funding, designed to ensure that students meet grade-level proficiency standards.

Exhibit 15 illustrates the locations of the schools with at least 40 percent of the students eligible for free or reduced price lunch.

% Free/Reduced Lunch 80 to 100% 44057 60 to 79% Mentor 40 to 59% 44060 44077 44086 Lake Eastlake Lake \_Willoughby 44094 44064 Euclid 44092 44024 East Geauga 44026 44046 Cleveland outh Euclid eland Heigurs Cle 0 11 0 44124 Geau 44072 44127 aker Heights 344022 44065 44062 1109 44105 Cuyahoga Cuyahoga Maple Heights ঘ 44021 Garfield 44139 Solon Heights 44023 44131 4414 Summit **Portage** 44234 44067 44056 44202 44141 Portage 44231 Summit 44255 Source: Ohio Department of Education, 2014.

Exhibit 15: Public Schools with over 40 Percent of Students Eligible for Free or Reduced-Price Lunches, School Year 2014-2015

Source. Onto Department of Education, 2014.

There are 39 schools within the Hillcrest community where at least 40 percent of students are eligible for free or reduced price lunches.

# Unemployment

Unemployment is problematic because many residents receive health insurance coverage through their (or a family member's) employer. If unemployment rises, access to employer based health insurance can decrease. **Exhibit 16** shows unemployment rates for 2010 through 2015 for each Hillcrest community county, with Ohio and national rates for comparison.

8.5% 6.9% 2010 7.6% 6.1% 6.8% 2011 5.4% 6.0% 2012 7.3% 7.4% 7.4% 8.1% 7.1% 5.8% 6.3% 2013 6.4% 5.1% 2014 4.0% 2015 0.0% 2.0% 4.0% 6.0% 8.0% 10.0% 12.0% ■ Cuyahoga County ■ Geauga County ■ Lake County ■ Portage County ■ Summit County Ohio ■ United States

Exhibit 16: Unemployment Rates, 2010-2015

Source: Bureau of Labor Statistics, 2010-2015.

Between 2010 and 2015, unemployment rates at the local, state, and national level decreased significantly. In 2015, the unemployment rate in Cuyahoga County was higher than the state rate.

## **Insurance Status**

**Exhibit 17** presents the estimated percent of populations in each of the five counties without health insurance (uninsured), by ZIP code.

Exhibit 17: Percent of the Population without Health Insurance, 2015-2020

County	City	ZIP Code	Total Population 2015	% Uninsured 2015	Total Population 2020	% Uninsured 2020
Cuyahoga	Beachwood	44122	33,661	5.0%	33,514	3.5%
Cuyahoga	Bedford	44146	29,602	6.4%	29,483	4.3%
Cuyahoga	Chagrin Falls	44022	16,811	3.6%	16,860	2.8%
Cuyahoga	Cleveland	44118	39,612	6.6%	38,891	4.5%
Cuyahoga	Cleveland	44120	35,932	10.3%	34,539	7.0%
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Cuyahoga	Gates Mills	44040	3,029	2.7%	2,977	2.1%
Cuyahoga	Maple Heights	44137	22,566	7.1%	22,236	4.9%
Cuyahoga	Solon	44139	24,770	2.5%	25,234	1.9%
Geauga	Chagrin Falls	44023	18,065	2.9%	18,577	2.3%
Geauga	Chardon	44024	23,615	2.7%	23,821	2.0%
Geauga	Chesterland	44026	11,069	2.3%	10,972	1.8%
Geauga	Newbury	44065	4,018	2.6%	3,950	2.0%
Geauga	Novelty	44072	4,321	2.0%	4,298	1.6%
Lake	Eastlake	44095	32,709	4.3%	32,155	2.9%
Lake	Mentor	44060	59,157	3.5%	58,612	2.5%
Lake	Painesville	44077	58,061	4.8%	59,108	3.3%
Lake	Wickliffe	44092	16,741	4.7%	16,646	3.1%
Lake	Willoughby	44094	36,283	3.9%	37,132	2.6%
Portage	Aurora	44202	19,998	2.9%	20,662	2.1%
Summit	Macedonia	44056	11,970	2.6%	12,403	1.9%
Summit	Northfield	44067	20,775	3.2%	21,266	2.2%
Summit	Twinsburg	44087	21,583	2.8%	22,405	2.0%

Source: Truven Market Expert, 2015.

In 2015, six out of the 26 ZIP codes in the Hillcrest community had uninsured rates above five percent. By 2020, it is projected that only two of the 26 ZIP codes in the community will have uninsured rates above five percent, ZIP codes 44120 and 44128.

# **Ohio Medicaid Expansion**

Subsequent to the ACA's passage, a June 2012 Supreme Court ruling provided states with discretion regarding whether or not to expand Medicaid eligibility. Ohio was one of the states that expanded Medicaid. Medicaid expansion accounted for over 76 percent of Ohio's ACA enrollment and plans purchased through the federal healthcare.gov exchange accounted for about 24 percent.<sup>7</sup>

In Ohio, Medicaid primarily is available for low-income individuals, pregnant women, children, low-income elderly persons, and individuals with disabilities. With a network of more than 83,000 providers, the Ohio Department of Medicaid covers over 2.9 million Ohio residents. Across the United States, uninsured rates have fallen most in states that decided to expand Medicaid. Medicaid.

The recent election of the new president raises questions regarding whether access improvements associated with the Affordable Care Act will be sustained.

#### Crime

**Exhibit 18** provides certain crime statistics for Cuyahoga, Geauga, Lake, Portage and Summit counties and Ohio.

Exhibit 18: Crime Rates by Type and County, Per 100,000, 2013 (Light grey shading indicates indicator worse than Ohio average; Dark grey shading indicates more than 50 percent worse than Ohio average)

Crime	Cuyahoga County	Geauga County	Lake County	Portage County	Summit County	Ohio
Violent Crime	613.3	44.2	163.9	88.0	377.7	278.4
Property Crime	3,141.8	801.9	1,562.1	1,917.0	3,246.1	2,880.8
Murder	6.4	4.8	-	1.3	6.6	4.4
Rape	48.8	3.6	27.1	19.5	47.8	36.2
Robbery	362.1	7.2	29.5	28.2	124.0	129.2
Aggravated Assault	196.1	28.7	107.3	39.0	199.3	126.1
Burglary	966.2	88.4	272.2	412.6	845.2	786.5
Larceny	1,720.5	699.2	1,243.7	1,464.2	2,239.1	1,921.8
Motor Vehicle Theft	455.1	14.3	46.3	40.3	161.7	172.5
Arson	32.5	2.4	5.4	15.5	24.1	21.1

Source: FBI, 2013.

2013 crime rates in Cuyahoga County were well above the Ohio average for all crimes except larceny. Crime rates in Summit County were also above the Ohio average for all crimes except robbery and motor vehicle theft.

<sup>9</sup> See: http://hrms.urban.org/briefs/Increase-in-Medicaid-under-the-ACA-reduces-uninsurance.html

41

<sup>&</sup>lt;sup>7</sup> http://watchdog.org/237980/75percent-ohio-obamacare/

<sup>&</sup>lt;sup>8</sup> http://medicaid.ohio.gov/FOROHIOANS/WhoQualifies.aspx

# **Local Health Status and Access Indicators**

This section assesses health status and access indicators for the Hillcrest community. Data sources include: (1) County Health Rankings, (2) the Centers for Disease Control's (CDC) Community Health Status Indicators, (3) the Ohio Department of Health, and (4) the CDC's Behavioral Risk Factor Surveillance System.

Throughout this section, data and cells are highlighted if indicators are unfavorable – because they exceed benchmarks (typically, Ohio averages). Where confidence interval data are available, cells are highlighted only if variances are unfavorable and statistically significant.

# **County Health Rankings**

County Health Rankings, a University of Wisconsin Population Health Institute initiative funded by the Robert Wood Johnson Foundation, incorporates a variety of health status indicators into a system that ranks each county/city within each state in terms of "health factors" and "health outcomes." These health factors and outcomes are composite measures based on several variables grouped into the following categories: health behaviors, clinical care, <sup>10</sup> social and economic factors, and physical environment. <sup>11</sup> County Health Rankings is updated annually. County Health Rankings 2016 relies on data from 2006 to 2015, with most data from 2010 to 2013.

**Exhibit 19** presents 2013 and 2016 rankings for each available indicator category. Rankings indicate how the county ranked in relation to all 88 counties in the Ohio, with 1 indicating the most favorable rankings and 88 the least favorable. The table also indicates if rankings fell between 2013 and 2016.

<sup>&</sup>lt;sup>10</sup>A composite measure of Access to Care, which examines the percent of the population without health insurance and ratio of population to primary care physicians, and Quality of Care, which examines the hospitalization rate for ambulatory care sensitive conditions, whether diabetic Medicare patients are receiving HbA1C screening, and percent of chronically ill Medicare enrollees in hospice care in the last 8 months of life.

<sup>&</sup>lt;sup>11</sup>A composite measure that examines Environmental Quality, which measures the number of air pollution-particulate matter days and air pollution-ozone days, and Built Environment, which measures access to healthy foods and recreational facilities and the percent of restaurants that are fast food.

Exhibit 19: County Health Rankings, 2013 and 2016 (Light grey shading indicates indicator in bottom half of Ohio counties; Dark grey shading indicates in bottom quartile of Ohio counties)

	Cu	ıyahoga Cou	nty	G	eauga Cour	ity		Lake County	у	P	ortage Coun	ity	Su	ımmit Cour	nty
	2013	2016	Rank Change	2013	2016	Rank Change	2013	2016	Rank Change	2013	2016	Rank Change	2013	2016	Rank Change
Health Outcomes	67	64		1	2	$\downarrow$	17	15		20	22	$\downarrow$	41	52	$\downarrow$
Health Factors	45	53	$\downarrow$	3	6	$\downarrow$	12	13	$\downarrow$	26	26		29	46	$\downarrow$
Length of Life	58	54		1	3	$\downarrow$	12	17	$\downarrow$	18	21	$\downarrow$	44	40	
Quality of Life	76	73		4	4		20	13		27	32	$\downarrow$	47	60	$\downarrow$
Frequent Physical Distress	N/A	63		N/A	5		N/A	5		N/A	33		N/A	44	
Frequent Mental Distress	N/A	54		N/A	5		N/A	6		N/A	27		N/A	31	
Drug Overdose Deaths	N/A	52		N/A	13		N/A	54		N/A	29		N/A	44	
Health Behaviors	15	39	$\downarrow$	2	2		18	6		37	15		13	40	$\downarrow$
Adult Smoking	16	18	$\downarrow$	12	4		47	10		60	45		19	49	$\downarrow$
Adult Obesity	7	9	$\downarrow$	1	4	$\downarrow$	9	1		16	7		11	16	$\downarrow$
Excessive Drinking	51	64	$\downarrow$	61	68	$\downarrow$	72	88	$\downarrow$	39	81	$\rightarrow$	52	18	
Sexually Transmitted Infections	87	87		6	2		53	60	<b>↓</b>	44	33		80	80	
Teen Births	55	51		1	1		9	11	$\downarrow$	6	4		28	24	
Clinical Care	7	5		8	12	$\downarrow$	18	16		54	39		13	22	$\downarrow$
Primary Care Physicians	3	2		18	21	$\downarrow$	55	49		66	58		6	6	
Dentists	1	1		27	32	$\downarrow$	8	9	$\downarrow$	52	37		10	13	$\downarrow$
Mental Health Providers	3	1		6	17	$\downarrow$	26	24		11	19	$\downarrow$	5	11	$\downarrow$
Preventable Hospital Stays	36	34		15	10		38	27		45	35		39	42	$\downarrow$
Diabetic Screening	69	62		31	39	$\downarrow$	58	48		68	55		52	67	$\downarrow$
Social & Economic Factors	76	79	$\downarrow$	5	10	$\downarrow$	10	22	$\downarrow$	15	29	$\downarrow$	47	48	$\downarrow$
Some College	10	9		12	19	$\downarrow$	9	13	$\downarrow$	25	22		8	12	$\downarrow$
Unemployment	15	59	$\downarrow$	4	19	$\downarrow$	6	39	$\downarrow$	19	45	$\downarrow$	24	44	$\downarrow$
Inadequate Social Support	39	78	$\downarrow$	20	75	$\downarrow$	18	80	$\downarrow$	5	83	$\rightarrow$	27	60	$\downarrow$
Injury Deaths	1	30	$\downarrow$	11	13	$\downarrow$	2	19	$\downarrow$	16	7		5	29	$\downarrow$
Physical Environment	36	61	$\downarrow$	17	59	$\downarrow$	51	49		70	73	$\downarrow$	78	84	$\downarrow$
Air Pollution	66	63		75	70		70	65		82	79		76	75	
Severe Housing Problems	N/A	87		N/A	62		N/A	41		N/A	80		N/A	71	

Source: County Health Rankings, 2016.

In 2016, Cuyahoga County ranked in the bottom 50<sup>th</sup> percentile among Ohio counties for 17 of the 27 indicators assessed. Of those 17 indicators ranking in the bottom 50<sup>th</sup> percentile, five of them ranked in the bottom quartile, including Quality of Life, Sexually Transmitted Infections, Social and Economic Factors, Inadequate Social Support, and Severe Housing Problems. Summit County ranked in the bottom 50<sup>th</sup> percentile among Ohio counties for 11 of the 27 indicators assessed, Portage County for 9 indicators, Lake County for 8 indicators, and Geauga County for 5 indicators. All five counties ranked in the bottom 50<sup>th</sup> percentile for Inadequate Social Support, Physical Environment, and Air Pollution. Four of the five counties ranked in the bottom 50<sup>th</sup> percentile for Excessive Drinking, Diabetic Screening, and Severe Housing Problems.

**Exhibit 20** provides data for each underlying indicator of the composite categories in the County Health Rankings. <sup>12</sup> The exhibit also includes national averages.

Exhibit 20: County Health Rankings Data Compared to Ohio and U.S. Averages, 2016 (Light grey shading indicates indicator worse than Ohio average; Dark grey shading indicates more than 50 percent worse than Ohio average)

Indicator Category	Data	Cuyahoga County	Geauga County	Lake County	Portage County	Summit County	Ohio	U.S.
	Health Outcomes							
Length of Life	Years of potential life lost before age 75 per 100,000 population	7,907.7	4,847.6	6,289.3	6,442.9	7,252.8	7,533.6	7,700.0
	Percent of adults reporting fair or poor health	16.5	12.9	13.4	15.1	16.5	16.0	16.0
Quality of Life	Average number of physically unhealthy days reported in past 30 days	3.9	3.3	3.3	3.6	3.8	3.8	3.7
Quality of Life	Average number of mentally unhealthy days reported in past 30 days	4.0	3.7	3.7	3.9	4.0	4.0	3.7
	Percent of live births with low birthweight (<2500 grams)	10.5	5.9	7.6	7.5	9.0	8.6	8.0
	Health Factors							
Health Behaviors								
Adult Smoking	Percent of adults that report smoking >= 100 cigarettes and currently smoking	18.3	16.1	17.6	19.9	20.1	19.2	18.0
Adult Obesity	Percent of adults that report a BMI >= 30	28.6	27.6	26.4	28.5	29.2	30.5	31.0
Food Environment Index	Index of factors that contribute to a healthy food@environment, 0 (worst) to 10 (best)	6.6	8.3	7.5	7.2	6.6	6.9	7.2
Physical Inactivity	Percent of adults aged 20 and over reporting no leisure-time physical activity	25.6	26.6	25.4	23.9	24.0	26.3	28.0
Access to Exercise Opportunities	Percent of population with adequate access to locations for physical activity	95.6	90.0	89.4	78.0	95.7	83.2	62.0
Alcohol Impaired Driving Deaths	Percent of driving deaths with alcohol involvement	45.3	31.8	35.5	21.5	53.5	35.3	30.0
Excessive Drinking	Binge plus heavy drinking	18.2	18.4	19.8	19.1	16.3	17.9	17.0
STDs	Chlamydia rate per 100,000 population	792.4	121.7	292.3	221.1	441.2	460.2	287.7
Teen Births	Teen birth rate per 1,000 female population, ages 15-19	37.7	9.2	21.0	14.7	31.3	34.4	40.0
Clinical Care								
Uninsured	Percent of population under age 65 without health insurance	13.3	13.4	11.5	12.0	12.6	13.0	17.0
Primary Care Physicians	Ratio of population to primary care physicians	879:1	1516:1	2148:1	2410:1	1002:1	1296:1	1990:1
Dentists	Ratio of population to dentists	1028:1	2300:1	1559:1	2490:1	1715:1	1713:1	2590:1
Mental Health Providers	Ratio of population to mental health providers	402:1	650:1	780:1	710:1	529:1	642:1	1060:1
Preventable Hospital Stays	Hospitalization rate for ambulatory-care sensitive conditions per 1,000 Medicare enrollees	64.7	49.8	63.3	64.8	67.1	64.9	60.0
Diabetic Screening	Percent of diabetic Medicare enrollees that receive HbA1c monitoring	83.9	85.7	85.1	84.7	83.3	84.9	85.0
Mammography Screening	Percent of female Medicare enrollees, ages 67-69, that receive mammography screening	65.0	64.0	65.0	58.0	59.0	60.0	61.0

Source: County Health Rankings, 2016.

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 $<sup>^{12} \</sup> County \ Health \ Rankings \ provides \ details \ about \ what \ each \ indicator \ measures, how \ it \ is \ defined, \ and \ data \ sources \ at \ http://www.countyhealthrankings.org/sites/default/files/resources/2013Measures_datasources_years.pdf$ 

Exhibit 20: County Health Rankings Data Compared to Ohio and U.S. Averages, 2016 (continued) (Light grey shading indicates indicator worse than Ohio average; Dark grey shading indicates more than 50 percent worse than Ohio average)

Indicator Category	Data	Cuyahoga County	Geauga County	Lake County	Portage County	Summit County	Ohio	U.S.
	Health Factors							
Social & Economic Factors								
High School Graduation	Percent of ninth-grade cohort that graduates in four years	75.8	92.9	90.0	92.4	83.9	82.7	86.0
Some College	Percent of adults aged 25-44 years with some post-secondary education	68.4	63.7	66.2	63.1	67.1	63.4	56.0
Unemployment	Percent of population age 16+ unemployed but seeking work	6.4	5.1	5.6	5.8	5.8	5.7	6.0
Children in poverty	Percent of children under age 18 in poverty	30.0	11.5	13.4	18.2	20.3	22.7	23.0
Income Inequality	Ratio of household income at the 80th percentile to income at the 20th percentile	5.6	4.1	4.0	4.4	4.8	4.8	4.4
Children in single-parent households	Percent of children that live in a household headed by single@parent	44.9	16.7	28.5	31.0	36.2	35.4	32.0
Social Associations	Number of associations per 10,000 population	9.2	9.5	9.1	8.8	11.4	11.4	13.0
Violent Crime	Number of reported violent crime offenses per 100,000@population	559.8	38.4	203.0	84.5	405.5	307.2	199.0
Injury Deaths	Injury mortality per 100,000	59.1	53.9	56.4	45.9	58.5	62.7	74.0
Physical Environment								
Air Pollution	The average daily measure of fine particulate matter in micrograms per cubic meter (PM2.5) in a county	13.6	13.7	13.6	13.9	13.8	13.5	11.9
Severe Housing Problems	Percentage of households with at least 1 of 4 housing problems: overcrowding, high housing costs, or lack of kitchen or plumbing facilities	18.9	14.6	13.0	16.6	15.5	15.2	14.0
Drive Alone to Work	Percent of the workforce that drives alone to work	80.1	81.5	88.0	83.7	87.1	83.5	80.0
Long Commute- Drive Alone	Among workers who commute in their car alone, the percent that commute more than 30 minutes	31.9	45.5	31.9	37.9	27.2	29.4	29.0

Source: County Health Rankings, 2016

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**Exhibit 20** highlights the following comparatively unfavorable indicators in which three or more of the counties ranked worse than Ohio averages:

- Percent of driving deaths with alcohol involvement
- Binge and heavy drinking
- Ratio of population to primary care physicians, dentists, and mental health providers
- Diabetic screening
- Percent of the population unemployed
- Social associations rate
- Air pollution
- Percent of households with severe housing problems
- Percent of the workforce that drives to work alone
- Percent of workers with a long commute who drive alone

# **Community Health Status Indicators**

The Centers for Disease Control and Prevention's *Community Health Status Indicators* provide health profiles for all 3,143 counties in the United States. Counties are assessed using 44 metrics associated with health outcomes including health care access and quality, health behaviors, social factors, and the physical environment.

The *Community Health Status Indicators* allows for a comparison of a given county to other "peer counties." Peer counties are assigned based on 19 variables including population size, population growth, population density, household income, unemployment, percent children, percent elderly, and poverty rates.

**Exhibit 21** compares each community county to its respective peer counties and cities and highlights community health issues found to rank in the bottom quartile of the counties included in the analysis.

# Exhibit 21: Community Health Status Indicators, 2015 (Shading indicates indicator in bottom quartile compared to peer counties)

Category	Indicator	Cuyahoga County	Geauga County	Lake County	Portage County	Summit County
	Alzheimer's Disease Deaths		,			,
	Cancer Deaths					
	Chronic Kidney Disease Deaths					
	Chronic Lower Respiratory Disease (CLRD) Deaths					
	Coronary Heart Disease Deaths					
Mortality	Diabetes Deaths					
	Female Life Expectancy					
	Male Life Expectancy					
	Motor Vehicle Deaths					
	Stroke Deaths					
	Unintentional Injury (including motor vehicle)					
	Adult Diabetes					
	Adult Obesity					
	Adult Overall Health Status					
	Alzheimer's Disease/Dementia					
	Cancer					
Morbidity	Gonorrhea					
	HIV					
	Older Adult Asthma					
	Older Adult Depression					
	Preterm Births					
	Syphilis					
	Cost Barrier to Care					
Health Care Access	Older Adult Preventable Hospitalizations					
and Quality	Primary Care Provider Access					
	Uninsured					
	Adult Binge Drinking					
	Adult Female Routine Pap Tests					
Health Behaviors	Adult Physical Inactivity					
	Adult Smoking					
	Teen Births					
	Children in Single-Parent Households					
	High Housing Costs					
	Inadequate Social Support					
Social Factors	On Time High School Graduation					
	Poverty					
	Unemployment					
	Violent Crime					
	Access to Parks					
	Annual Average PM2.5 Concentration					
Physical	Drinking Water Violations					
Environment	Housing Stress					
	Limited Access to Healthy Food					
	Living Near Highways					

Source: Community Health Status Indicators, 2015.

The CHSI data indicate that morbidity associated with Alzheimer's disease, adult asthma, older adult depression and preterm births are comparatively high, as are older adult preventable hospitalizations. Indicators for adult female routine pap tests and annual average particulate matter concentration also benchmark unfavorably.

# **Ohio Department of Health**

The Ohio Department of Health maintains a data warehouse that includes county-level indicators regarding mortality rates (**Exhibits 22 and 23**), cancer incidence (**Exhibit 24**), communicable disease incidence (**Exhibit 25**), and maternal and child health indicators (**Exhibit 26**).

Exhibit 22 provides age-adjusted mortality rates for selected causes of death in 2012.

Exhibit 22: Selected Causes of Death, Age-Adjusted Rates per 100,000 Population, 2012 (Light grey shading indicates indicator worse than Ohio average; Dark grey shading indicates more than 50 percent worse than Ohio average)

Measure	Cuyahoga County	Geauga County	Lake County	Portage County	Summit County	Ohio	Healthy People 2020
Heart Disease	213.9	133.4	184.6	195.8	178.4	191.4	-
Diabetes	23.3	16.6	23.0	21.6	24.5	26.1	-
Influenza and Pneumonia	12.0	6.7	10.7	16.9	19.0	15.4	-
Suicide	9.9	9.7	12.7	12.7	11.6	12.0	10.2
Motor Vehicle Collisions	3.4	4.4	4.4	8.6	5.2	9.0	12.4
Homicide	9.2	0.8	1.8	1.6	5.7	5.4	-
Motor Vehicle Collisions (Alcohol)	1.4	1.1	2.6	2.6	2.2	3.8	-
Aortic Aneurysm	3.8	2.4	3.6	4.1	3.8	3.7	-
HIV	2.7	N/A	0.3	0.5	1.3	1.3	-
Pedestrians Killed in Traffic Collisions	0.6	0.0	0.9	0.6	0.9	0.5	1.4

Source: Ohio Department of Health, 2012.

In Cuyahoga County, age-adjusted mortality rates for heart disease, homicide, aortic aneurysm, HIV, and pedestrians killed in traffic collisions were all higher than the Ohio averages. In Lake County, rates for suicide and pedestrians killed in traffic collisions were higher than the state average. In Portage County, rates of heart disease, influenza and pneumonia, suicide, aortic aneurysm, and pedestrians killed in traffic collisions were higher than Ohio averages. In Summit County, age-adjusted mortality rates for influenza and pneumonia, homicide, aortic aneurysm, and pedestrians killed in traffic collisions were also higher than the Ohio averages.

Exhibit 23: Age-Adjusted Cancer Mortality Rates per 100,000 Population, 2013 (Light grey shading indicates indicator worse than Ohio average; Dark grey shading indicates more than 50 percent worse than Ohio average)

Cancer Site/Type	Cuyahoga County	Geauga County	Lake County	Portage County	Summit County	Ohio Rate	U.S. Rate
All Sites/Types	189.9	156.0	183.2	187.0	182.0	186.6	171.2
Lung and Bronchus	52.3	38.6	55.6	58.5	54.5	55.3	47.2
Breast (Female)	24.9	22.0	25.4	20.8	24.3	23.6	21.9
Prostate	27.4	18.4	20.7	16.0	23.4	22.0	21.4
Colon and Rectum	15.6	12.2	17.2	14.5	16.6	17.0	15.5
Pancreas	12.8	12.1	12.4	12.0	11.1	11.5	10.9
Ovary	7.4	6.2	7.9	9.7	7.0	7.9	7.7
Leukemia	7.0	6.5	6.6	7.0	7.1	7.3	7.0
Non-Hodgkin Lymphoma	6.4	6.5	6.9	6.4	6.7	6.9	6.2
Liver and Intrahepatic Bile Duct	6.4	3.5	4.7	7.0	4.9	5.3	6.0
Bladder	5.0	5.0	4.7	7.0	4.8	5.0	4.4
Esophagus	4.9	4.0	4.5	4.4	4.6	5.0	4.2
Uterus	6.5	4.0	4.6	4.7	4.4	4.9	4.4
Brain and Other CNS	4.0	4.9	5.1	6.0	5.0	4.5	4.3
Kidney and Renal Pelvis	4.1	3.5	4.4	3.6	3.2	4.3	3.9
Multiple Myeloma	3.7	4.6	3.4	4.1	3.5	3.5	3.3
Melanoma of Skin	2.1	3.4	3.0	2.4	3.0	3.0	2.7
Stomach	4.4	2.8	2.9	1.9	3.5	2.9	3.4
Cervix	3.0	1.9	1.8	1.6	1.9	2.6	2.3
Oral Cavity and Pharynx	3.1	1.8	2.5	3.9	2.8	2.5	2.5
Larynx	1.5	1.6	0.9	1.4	1.2	1.3	1.1
Thyroid	0.5	-	0.7	0.7	0.5	0.5	0.5
Hodgkin Lymphoma	0.4	-	-	-	0.3	0.4	0.4
Testis	0.4	-	-	-	-	0.3	0.3

Source: Ohio Department of Health, 2013.

Age-adjusted cancer mortality rates in Cuyahoga County were significantly higher than the Ohio averages for stomach cancer and significantly higher in Portage County for oral cavity and pharynx cancer. Cancer mortality rates for breast (female), pancreas, brain and other CNS, multiple myeloma, oral cavity and pharynx, and larynx were higher than Ohio averages in at least three of the community's counties.

Exhibit 24 presents age-adjusted cancer incidence rates in the community.

Exhibit 24: Age-Adjusted Cancer Incidence Rates per 100,000 Population, 2008-2012 (Light grey shading indicates indicator worse than Ohio average; Dark grey shading indicates more than 50 percent worse than Ohio average)

Site/Type	Cuyahoga County	Geauga County	Lake County	Portage County	Summit County	Ohio
Total	477.9	409.4	462.0	453.6	440.8	452.5
Prostate	116.3	103.8	87.1	114.9	96.2	101.7
Breast	71.4	71.4	72.6	63.4	64.5	67.6
Lung and Bronchus	64.3	39.7	58.5	68.7	61.9	67.4
Colon and Rectum	41.0	33.5	38.8	33.3	33.6	40.6
Other Sites/Types	37.9	29.0	42.2	42.1	39.2	35.8
Uterus	35.4	38.3	31.4	25.7	28.6	28.8
Bladder	19.9	12.4	30.4	22.5	20.5	22.1
Melanoma of Skin	17.0	23.2	21.5	21.8	22.5	19.5
Non-Hodgkins Lymphoma	21.0	25.3	21.1	18.6	21.1	18.6
Kidney and Renal Pelvis	19.0	7.6	19.8	10.0	14.9	16.9
Thyroid	15.9	18.0	18.2	15.1	14.1	15.2
Pancreas	12.9	10.3	13.1	15.0	13.6	12.3
Leukemia	14.4	8.1	13.2	15.0	11.6	11.9
Oral Cavity and Pharynx	11.2	16.5	10.5	10.2	11.0	11.7
Ovary	14.5	11.1	14.0	16.3	10.3	11.3
Brain and Other CNS	7.7	5.9	7.1	9.8	7.5	7.4
Cervix	7.4	-	-	-	10.5	7.4
Stomach	8.4	-	6.3	6.8	6.6	6.8
Liver and Intrahepatic Bile Duct	8.3	5.6	8.1	3.1	6.2	6.6
Multiple Myeloma	8.3	4.6	3.9	6.2	6.2	5.9
Testis	6.3	-	7.7	-	7.0	5.2
Esophagus	5.8	6.8	2.8	6.5	5.1	5.0
Larynx	4.8	-	2.0	3.2	4.7	4.3
Hodgkins Lymphoma	3.1	7.0	3.0	-	2.3	2.6

Source: Ohio Department of Health, 2012.

The incidence rates for all cancers, prostate, breast, other sites/types, uterus, melanoma of skin, Non-Hodgkin's Lymphoma, thyroid, pancreas, leukemia, ovary, brain and other CNS, multiple myeloma, testis, esophagus, and Hodgkin's Lymphoma are higher in at least three of Hillcrest community's counties than Ohio averages. Hodgkin's Lymphoma is significantly higher than the Ohio average in Geauga County.

Exhibit 25: Communicable Disease Incidence Rates per 100,000 Population, 2012 (Light grey shading indicates indicator worse than Ohio average; Dark grey shading indicates more than 50 percent worse than Ohio average)

Measure	Cuyahoga County	Geauga County	Lake County	Portage County	Summit County	Ohio
Chlamydia	801.1	115.6	263.0	280.0	488.4	462.0
HIV	295.8	25.6	55.8	53.9	130.2	154.3
Gonorrhea	290.3	15.0	62.2	37.2	173.3	143.5
Syphilis	9.8	1.1	1.7	0.0	4.8	9.9
Varicella	4.3	1.1	6.5	5.0	2.4	7.0
Viral Meningitis	7.2	2.1	2.6	6.8	10.5	6.1
Hepatitis A, B, and C	0.8	0.0	0.9	0.6	2.0	1.9

Source: Ohio Department of Health, 2012.

Cuyahoga County has had comparatively high incidence rates of chlamydia, HIV, gonorrhea, and viral meningitis. Summit County also had comparatively high incidence rates of chlamydia, gonorrhea, viral meningitis, and hepatitis A, B, and C. Portage County has a comparatively high incidence rate of viral meningitis.

Exhibit 26: Maternal and Child Health Indicators, 2012
(Light grey shading indicates indicator worse than Ohio average; Dark grey shading indicates more than 50 percent worse than Ohio average)

Measure	Cuyahoga County	Geauga County	Lake County	Portage County	Summit County	Ohio	Healthy People 2020
Mortality Rate per 1,000 Live Births							
Infant	9.4	4.1	4.2	6.7	7.7	7.7	N/A
Neonatal	6.5	2.6	3.2	4.2	5.4	5.2	N/A
Post-Neonatal	2.9	1.5	0.9	2.6	2.3	2.5	N/A
% Deliveries							
Low Birth Weight	10.5	6.0	7.6	7.5	9.0	8.6	7.8
Very Low Birth Weight	2.3	N/A	1.3	1.3	1.8	1.6	1.4
% Preterm Births							
< 32 weeks of gestation	3.1	1.4	1.6	2.0	2.4	2.3	1.8
32-33 weeks of gestation	2.0	1.9	1.3	1.5	1.9	1.6	1.4
34-36 weeks of gestation	9.3	7.4	8.3	8.3	9.3	8.6	8.1
< 37 weeks of gestation	14.4	9.7	11.2	11.8	13.6	12.6	11.4
% Births to							
Unmarried Women 18-54 Years Old	49.1	14.0	32.4	36.6	40.9	41.3	N/A
Women 40-54 Years Old	2.7	4.9	2.8	2.3	2.4	2.1	N/A
Women <18 Years Old	3.7	1.0	1.7	2.0	2.9	3.0	N/A
Teenage Pregnancies per 1,000 Births			•				
Births to Females 15-19 Years Old	39.3	9.9	21.3	15.9	32.9	36.0	N/A

Source: Ohio Department of Health, 2012.

**Exhibit 26** indicates that infant mortality rates, low birth weights, and preterm births are comparatively problematic in Cuyahoga and Summit counties. Births to women aged 40 to 54 years are also higher in all five counties than the Ohio average.

# **Behavioral Risk Factor Surveillance System**

The Centers for Disease Control and Prevention's (CDC) Behavioral Risk Factor Surveillance System (BRFSS) gathers data through a telephone survey regarding health risk behaviors, healthcare access, and preventive health measures. Data are collected for the entire United States Analysis of BRFSS data can identify localized health issues, trends, and health disparities, and can enable county, state, or nation-wide comparisons.

BRFSS data were assessed for each ZIP code in the Hillcrest community and compared to the averages for the 21 counties in Northeast Ohio.<sup>13</sup>

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<sup>&</sup>lt;sup>13</sup> The 21 counties include Ashland, Ashtabula, Carroll, Columbiana, Crawford, Cuyahoga, Erie, Geauga, Holmes, Huron, Lake, Lorain, Mahoning, Medina, Portage, Richland, Stark, Summit, Trumbull, Tuscarawas, and Wayne counties.

Exhibit 27: Behavioral Risk Factor Surveillance System, Chronic Conditions, 2015
(Light grey shading indicates indicator worse than the 21-County average; Dark grey shading indicates more than 50 percent worse than the 21-County average)

County	City	ZIP Code	Total Population 18+ 2015	% Obese	% Back Pain	% Diabetes	% Asthma	% Depression	% High Blood Pressure	% High Cholesterol	% COPD	% Smoking
Cuyahoga	Beachwood	44122	27,001	25.9%	21.8%	11.8%	11.3%	10.4%	32.0%	25.0%	3.6%	21.0%
Cuyahoga	Bedford	44146	24,664	32.3%	25.0%	16.9%	17.1%	19.4%	38.4%	26.3%	5.2%	27.9%
Cuyahoga	Chagrin Falls	44022	13,403	27.7%	15.7%	10.5%	12.0%	11.2%	24.5%	22.2%	3.8%	21.1%
Cuyahoga	Cleveland	44118	29,018	29.7%	22.1%	11.1%	11.2%	12.2%	27.7%	19.7%	4.7%	28.4%
Cuyahoga	Cleveland	44120	28,358	32.7%	21.4%	12.0%	11.8%	15.0%	31.6%	19.8%	6.3%	32.4%
Cuyahoga	Cleveland	44121	25,585	31.7%	25.7%	12.5%	10.5%	12.2%	32.0%	21.2%	4.9%	28.0%
Cuyahoga	Cleveland	44124	31,728	29.5%	25.1%	13.2%	12.6%	14.3%	31.4%	24.6%	4.3%	23.2%
Cuyahoga	Cleveland	44128	21,247	34.1%	22.5%	16.0%	15.2%	19.7%	41.2%	22.3%	5.5%	31.6%
Cuyahoga	Cleveland	44143	19,222	28.0%	21.3%	13.1%	9.3%	12.0%	30.2%	22.9%	3.1%	21.7%
Cuyahoga	Gates Mills	44040	2,615	24.7%	18.7%	12.4%	8.8%	10.8%	28.5%	22.6%	2.8%	17.6%
Cuyahoga	Maple Heights	44137	17,350	31.5%	29.8%	16.8%	13.4%	14.6%	38.6%	27.6%	5.0%	31.3%
Cuyahoga	Solon	44139	18,200	26.2%	16.9%	9.9%	8.0%	9.1%	24.4%	19.3%	2.6%	19.3%
Geauga	Chagrin Falls	44023	14,287	25.6%	13.4%	9.2%	10.4%	10.4%	22.6%	19.9%	2.7%	19.2%
Geauga	Chardon	44024	19,198	30.3%	19.7%	12.4%	10.9%	12.5%	26.0%	22.6%	3.9%	22.5%
Geauga	Chesterland	44026	8,292	26.7%	15.1%	10.2%	13.9%	12.0%	23.5%	23.9%	3.6%	20.6%
Geauga	Newbury	44065	3,711	29.4%	22.1%	11.3%	10.5%	12.3%	29.7%	25.0%	4.3%	22.9%
Geauga	Novelty	44072	2,785	26.2%	14.1%	10.4%	14.1%	12.4%	24.1%	24.6%	3.7%	19.3%
Lake	Eastlake	44095	26,369	31.2%	29.7%	14.7%	14.3%	15.4%	32.9%	24.6%	5.6%	25.6%
Lake	Mentor	44060	46,895	30.0%	24.2%	11.8%	9.4%	11.0%	29.5%	24.7%	3.9%	23.2%
Lake	Painesville	44077	45,791	30.8%	25.5%	12.6%	10.9%	14.7%	29.0%	24.9%	4.0%	26.1%
Lake	Wickliffe	44092	14,156	30.8%	27.5%	16.8%	10.5%	13.0%	37.0%	27.9%	4.9%	25.7%
Lake	Willoughby	44094	28,611	29.7%	21.7%	14.2%	13.4%	14.7%	29.9%	23.5%	4.6%	23.9%
Portage	Aurora	44202	15,050	26.8%	18.2%	10.0%	10.1%	11.1%	25.5%	21.1%	3.5%	20.9%
Summit	Macedonia	44056	10,140	27.5%	18.9%	8.7%	6.9%	10.5%	24.7%	20.7%	2.6%	21.5%
Summit	Northfield	44067	16,904	28.4%	17.9%	10.8%	11.0%	11.1%	23.2%	19.6%	3.8%	22.0%
Summit	Twinsburg	44087	16,668	27.3%	19.4%	11.4%	7.8%	10.2%	27.4%	20.2%	3.0%	19.8%
Community	Community Total		527,248	29.7%	22.5%	12.7%	11.5%	13.2%	30.2%	23.1%	4.3%	24.7%
21-County Average		3,449,593	31.8%	25.7%	14.0%	11.6%	15.2%	30.6%	24.1%	4.7%	27.5%	

Source: Truven Market Expert/Behavioral Risk Factor Surveillance System, 2015.

Compared to the 21-County averages, the Hillcrest community compared favorably for all measures. Within the Hillcrest community, 10 ZIP codes had higher rates of asthma, 10 ZIP codes had higher rates of high cholesterol, and 9 ZIP codes had higher rates of high blood pressure.

# **Ambulatory Care Sensitive Conditions**

This section examines the frequency of discharges for Ambulatory Care Sensitive Conditions (ACSCs, frequently referred to as Prevention Quality Indicators or PQIs) throughout the community.

ACSCs are health "conditions for which good outpatient care can potentially prevent the need for hospitalization or for which early intervention can prevent complications or more severe disease." As such, rates of hospitalization for these conditions can "provide insight into the quality of the health care system outside of the hospital," including the accessibility and utilization of primary care, preventive care and health education. Among these conditions are: angina without procedure, diabetes, perforated appendixes, chronic obstructive pulmonary disease (COPD), hypertension, congestive heart failure, dehydration, bacterial pneumonia, urinary tract infection, and asthma.

Disproportionately high rates of discharges for ACSC indicate potential problems with the availability or accessibility of ambulatory care and preventive services and can suggest areas for improvement in the health care system and ways to improve outcomes.

**Exhibit 28** provides 2014 PQI rates (per 100,000 persons) for ZIP codes in the Hillcrest community – with comparisons to Ohio averages.

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<sup>&</sup>lt;sup>14</sup>Agency for Healthcare Research and Quality (AHRQ) Prevention Quality Indicators.

Exhibit 28: PQI (ACSC) Rates per 100,000, 2014 (Light grey shading indicates indicator worse than Ohio average; Dark grey shading indicates more than 50 percent worse than Ohio average)

County	City	ZIP Code	Diabetes Short-Term Complications	Perforated Appendix	Diabetes Long Term Complications	Chronic Obstructive Pulmonary Disease	Hypertension	Congestive Heart Failure	Low Birth Weight
Cuyahoga	Chagrin Falls	44022	8	37	30	254	-	256	76
Geauga	Chagrin Falls	44023	14	42	50	217	21	250	25
Geauga	Chardon	44024	27	24	65	393	32	351	11
Geauga	Chesterland	44026	33	56	77	396	55	430	85
Cuyahoga	Gates Mills	44040	-	-	40	355	-	238	-
Summit	Macedonia	44056	11	42	42	530	42	414	49
Lake	Mentor	44060	65	30	96	410	34	534	47
Geauga	Newbury	44065	91	28	91	787	-	818	-
Summit	Northfield	44067	72	42	24	431	30	299	41
Geauga	Novelty	44072	-	-	28	251	28	250	22
Lake	Painesville	44077	122	25	118	376	18	435	41
Summit	Twinsburg	44087	55	21	67	312	55	330	58
Lake	Wickliffe	44092	112	28	127	635	67	558	46
Lake	Willoughby	44094	37	28	74	365	24	469	45
Lake	Eastlake	44095	72	6	133	540	30	572	54
Cuyahoga	Cleveland	44118	126	39	96	602	73	407	66
Cuyahoga	Cleveland	44120	193	36	214	1,264	124	691	79
Cuyahoga	Cleveland	44121	92	31	132	711	76	409	78
Cuyahoga	Beachwood	44122	97	48	127	621	56	626	50
Cuyahoga	Cleveland	44124	73	42	118	544	60	496	46
Cuyahoga	Cleveland	44128	263	38	295	1,076	154	966	105
Cuyahoga	Maple Heights	44137	214	50	214	1,339	64	745	115
Cuyahoga	Solon	44139	16	28	53	224	32	200	58
Cuyahoga	Cleveland	44143	75	48	75	958	111	644	109
Cuyahoga	Bedford	44146	100	17	238	890	67	617	88
Portage	Aurora	44202	88	-	94	289	38	447	67
Hillcrest Total	Hillcrest Totals		91	32	117	578	54	500	63
Ohio Totals		95	37	119	609	53	424	61	

Source: Cleveland Clinic, 2014. Note: Rates are not age-sex adjusted.

Exhibit 28: PQI (ACSC) Rates per 100,000, 2014 (continued)
(Light grey shading indicates indicator worse than Ohio average; Dark grey shading indicates more than 50 percent worse than Ohio average)

County	City	ZIP Code	Dehydration	Bacterial Pneumonia	Urinary Tract Infection	Angina without Procedure	Uncontrolled Diabetes	Adult Asthma	Lower- Extremity Amputation Among Patients with Diabetes
Cuyahoga	Chagrin Falls	44022	64	132	89	-	-	33	-
Geauga	Chagrin Falls	44023	96	111	70	14	-	29	7
Geauga	Chardon	44024	100	158	95	5	11	20	5
Geauga	Chesterland	44026	186	151	238	ı	-	-	11
Cuyahoga	Gates Mills	44040	268	77	78	ı	-	-	-
Summit	Macedonia	44056	72	145	42	11	11	35	11
Lake	Mentor	44060	99	114	78	8	17	36	4
Geauga	Newbury	44065	51	295	297	-	-	-	-
Summit	Northfield	44067	131	140	59	18	12	21	-
Geauga	Novelty	44072	188	217	164	-	28	-	-
Lake	Painesville	44077	84	93	102	16	16	19	9
Summit	Twinsburg	44087	72	155	108	18	-	59	-
Lake	Wickliffe	44092	176	160	233	7	15	93	15
Lake	Willoughby	44094	137	145	79	7	10	33	13
Lake	Eastlake	44095	109	134	112	8	8	47	11
Cuyahoga	Cleveland	44118	157	123	110	10	20	40	10
Cuyahoga	Cleveland	44120	86	184	143	18	33	41	7
Cuyahoga	Cleveland	44121	108	133	157	12	24	54	8
Cuyahoga	Beachwood	44122	88	124	161	11	15	28	15
Cuyahoga	Cleveland	44124	150	161	150	-	32	31	3
Cuyahoga	Cleveland	44128	207	212	178	18	41	82	23
Cuyahoga	Maple Heights	44137	98	203	147	29	29	82	12
Cuyahoga	Solon	44139	80	113	114	-	-	39	5
Cuyahoga	Cleveland	44143	51	196	148	5	20	36	-
Cuyahoga	Bedford	44146	134	228	163	17	21	40	8
Portage	Aurora	44202	75	123	99	-	_	_	6
Hillcrest Totals			112	147	123	10	16	39	8
Ohio Totals			107	196	131	12	13	36	9

Source: Cleveland Clinic, 2014. Note: Rates are not age-sex adjusted.

The rates of admissions for ACSC in the Hillcrest community exceeded Ohio averages for congestive heart failure, hypertension, low birth weight, dehydration, uncontrolled diabetes, and adult asthma. Within the community, Cleveland ZIP code 44128 had significantly higher PQI rates for every condition compared to the Ohio averages.

**Exhibit 29** provides the ratio of PQI rates in the Hillcrest community compared to the Ohio averages. Conditions where the ratios are highest (meaning that the PQI rates in the community are the most above average) are presented first.

Exhibit 29: Ratio of PQI Rates for Hillcrest and Ohio, 2014

Indicator	Hillcrest Hospital	Ohio	Ratio: Hillcrest/ Ohio
Uncontrolled Diabetes	16.3	13.2	1.2
Congestive Heart Failure	500.0	423.8	1.2
Adult Asthma	39.0	36.0	1.1
Dehydration	112.2	107.2	1.0
Hypertension	54.1	52.6	1.0
Low Birth Weight	62.6	61.4	1.0
Diabetes Long-Term Complications	117.1	118.8	1.0
Diabetes Short-Term Complications	91.1	94.7	1.0
Chronic Obstructive Pulmonary Disease	577.9	608.8	0.9
Urinary Tract Infection	123.1	131.5	0.9
Lower-Extremity Amputation Among Patients with			
Diabetes	8.0	8.9	0.9
Angina without Procedure	10.2	11.7	0.9
Perforated Appendix	31.7	36.9	0.9
Bacterial Pneumonia	146.9	196.2	0.7

Source: Cleveland Clinic, 2014. Note: Rates are not age-sex adjusted.

In the Hillcrest community, ACSC rates for uncontrolled diabetes and congestive heart failure were more than twenty percent higher than the Ohio averages.

# **Community Need Index<sup>™</sup> and Food Deserts**

## **Dignity Health Community Need Index**

Dignity Health, a California-based hospital system, developed and has made widely available for public use a *Community Need Index*<sup>TM</sup> that measures barriers to health care access by county/city and ZIP code. The index is based on five social and economic indicators:

- The percentage of elders, children, and single parents living in poverty;
- The percentage of adults over the age of 25 with limited English proficiency, and the percentage of the population that is non-White;
- The percentage of the population without a high school diploma;
- The percentage of uninsured and unemployed residents; and

• The percentage of the population renting houses.

The *Community Need Index*<sup>TM</sup> calculates a score for each ZIP code based on these indicators. Scores range from "Lowest Need" (1.0-1.7) to "Highest Need" (4.2-5.0).

**Exhibit 30** presents the *Community Need Index*<sup>TM</sup> (CNI) score of each ZIP code in the Hillcrest community.

Exhibit 30: Community Need Index<sup>TM</sup> Score by ZIP Code, 2015

County	City	ZIP Code	CNI Score
Cuyahoga	Cleveland	44128	4.4
Cuyahoga	Cleveland	44120	4.2
Cuyahoga	Maple Heights	44137	4.0
Cuyahoga	Bedford	44146	3.6
Cuyahoga	Cleveland	44118	3.4
Lake	Painesville	44077	3.2
Cuyahoga	Cleveland	44121	3.2
Cuyahoga	Beachwood	44122	3.2
Lake	Wickliffe	44092	2.6
Lake	Willoughby	44094	2.4
Cuyahoga	Cleveland	44124	2.4
Cuyahoga	Cleveland	44143	2.4
Lake	Eastlake	44095	2.2
Summit	Twinsburg	44087	2.0
Lake	Mentor	44060	1.8
Summit	Northfield	44067	1.8
Cuyahoga	Solon	44139	1.8
Summit	Macedonia	44056	1.6
Geauga	Newbury	44065	1.6
Portage	Aurora	44202	1.6
Cuyahoga	Chagrin Falls	44022	1.4
Geauga	Chagrin Falls	44023	1.4
Cuyahoga	Gates Mills	44040	1.4
Geauga	Novelty	44072	1.4
Geauga	Chardon	44024	1.2
Geauga	1.2		
Hillcrest Comm	2.6		
Cuyahoga Coun	3.4		
Geauga County	1.6		
Lake County Av	2.4		
Portage County	2.8		
<b>Summit County</b>	2.9		

Source: Dignity Health, 2015.

Exhibit 31 presents these data in a community map format.

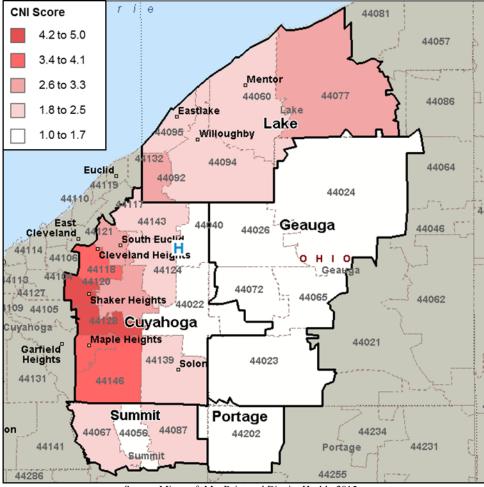


Exhibit 31: Community Need Index, 2015

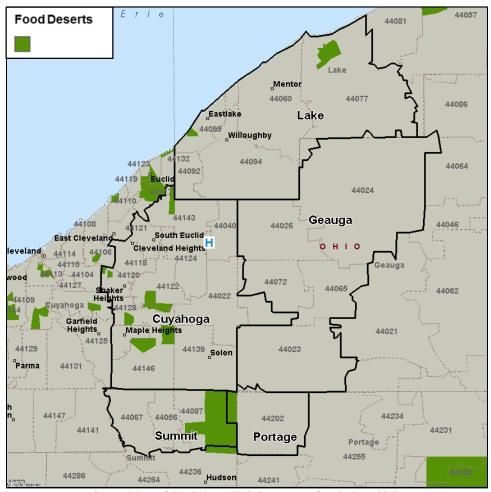
Source: Microsoft MapPoint and Dignity Health, 2015.

The CNI indicates that two Cleveland ZIP codes of the 26 ZIP codes in the Hillcrest community scored in the "highest need category," 44128 and 44120. Three other ZIP codes in the community scored in the "high need category," 44137, 44146, and 44118.

## **Food Deserts**

The U.S. Department of Agriculture's Economic Research Service estimates the number of people in each census tract that live in a "food desert," defined as low-income areas more than one mile from a supermarket or large grocery store in urban areas and more than 10 miles from a supermarket or large grocery store in rural areas. Many government-led initiatives aim to increase the availability of nutritious and affordable foods to people living in these food deserts.

**Exhibit 32** illustrates the location of food deserts in the community.



**Exhibit 32: Food Deserts** 

Source: Microsoft MapPoint and U.S. Department of Agriculture, 2013.

Several locations within the Hillcrest community have been designated as food deserts, particularly in Cuyahoga County.

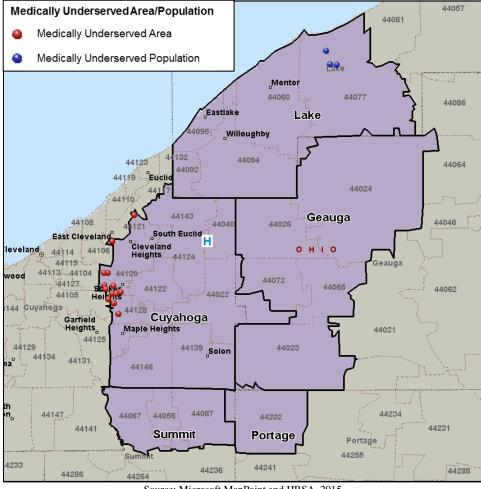
# **Medically Underserved Areas and Populations**

Medically Underserved Areas and Populations (MUA/Ps) are designated by the Health Resources and Services Administration (HRSA) based on an "Index of Medical Underservice." The index includes the following variables: ratio of primary medical care physicians per 1,000 population, infant mortality rate, percentage of the population with incomes below the poverty level, and percentage of the population age 65 or over. 15 Areas with a score of 62 or less are considered "medically underserved."

Populations receiving MUP designation include groups within a geographic area with economic barriers or cultural and/or linguistic access barriers to receiving primary care. If a population group does not qualify for MUP status based on the IMU score, Public Law 99-280 allows MUP designation if "unusual local conditions which are a barrier to access to or the availability of personal health services exist and are documented, and if such a designation is recommended by the chief executive officer and local officials of the state where the requested population resides."16

There are approximately 13 census tracts within the hospital's community that have been designated as areas where Medically Underserved Areas are present and three census tracts where Medically Underserved Populations are present (Exhibit 33).

<sup>&</sup>lt;sup>15</sup> Heath Resources and Services Administration. See http://www.hrsa.gov/shortage/mua/index.html



**Exhibit 33: Medically Underserved Areas** 

Source: Microsoft MapPoint and HRSA, 2015.

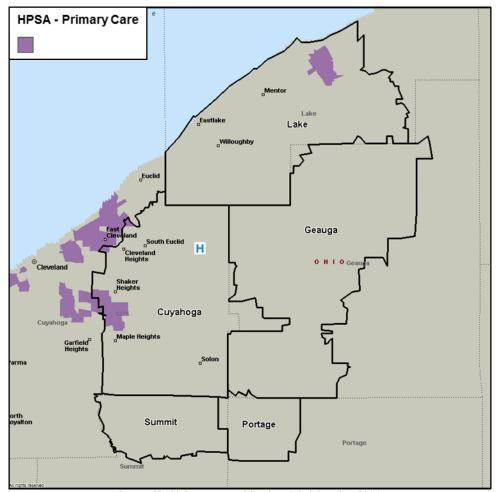
# **Health Professional Shortage Areas**

A geographic area can receive a federal Health Professional Shortage Area (HPSA) designation if a shortage of primary medical care, dental care, or mental health care professionals is found to be present. In addition to areas and populations that can be designated as HPSAs, a health care facility can receive federal HPSA designation and an additional Medicare payment if it provides primary medical care services to an area or population group identified as having inadequate access to primary care, dental, or mental health services.

HPSAs can be: "(1) An urban or rural area (which need not conform to the geographic boundaries of a political subdivision and which is a rational area for the delivery of health services); (2) a population group; or (3) a public or nonprofit private medical facility."<sup>17</sup>

<sup>&</sup>lt;sup>17</sup>U.S. Health Resources and Services Administration, Bureau of Health Professionals. (n.d.). Health Professional Shortage Area Designation Criteria. Retrieved 2012, from http://bhpr.hrsa.gov/shortage/hpsas/designationcriteria/index.html

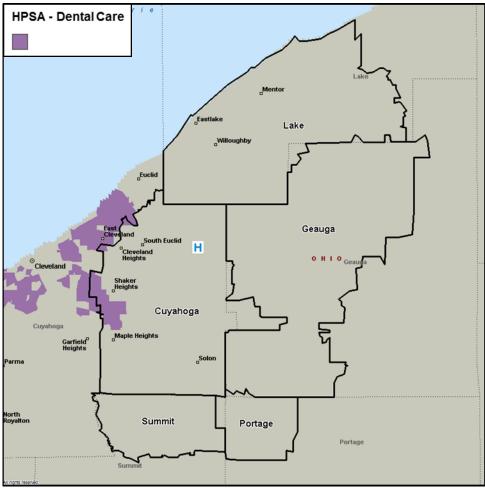
**Exhibit 34** illustrates the locations of the federally-designated HPSAs.



**Exhibit 34A: Primary Care Health Professional Shortage Areas** 

Source: Health Resources and Services Administration, 2015.

Within the Hillcrest community, primary care HPSA designated census tracts are located in Cuyahoga County and Lake County.



**Exhibit 34B: Dental Care Health Professional Shortage Areas** 

Source: Health Resources and Services Administration, 2015.

Dental care HPSA designated census tracts are located in Cuyahoga County.

# **Findings of Other Community Health Needs Assessments**

Several other needs assessments and health reports conducted by hospital facilities and other organizations that provide services for the community also were reviewed. The reviewed assessments include the following:

Other Community Assessments
Akron Children's Hospital CHNA 2013
Akron General Medical Center CHNA 2013
Geauga County CHA 2011
Health Improvement Partnership- Cuyahoga CHSA 2015
Lake County Community Health Assessment 2015
Lake Health CHNA 2013
Lorain County Health CNA 2015
Medina County CHIP 2013
Mercy Allen Hospital CHNA 2013
Mercy Medical Center CHNA 2013
Mercy Regional Medical Center CHNA 2013
Portage County CHNA 2015
Southwest General Health Center 2012
St. Vincent Charity Medical Center Implementation Plan 2013
Summa Health System CHNA 2013
Summit County CHIP 2015
UH Ahuja Medical Center CHNA 2015
UH Bedford Medical Center CHNA 2015
UH Case Medical Center CHNA 2015
UH Elyria Medical Center CHNA 2015
UH Geauga Medical Center CHNA 2015
UH Geneva Medical Center CHNA 2015
UH Parma Medical Center CHNA 2015
UH Rainbow Babies & Children's Hospital CHNA 2015
UH Rehabilitation Hospital CHNA 2015
UH Richmond Medical Center CHNA 2015
UH St. John Medical Center CHNA 2015

Source: Analysis of Other CHNA Reports by Verité, 2016.

The significant needs identified by these reports are presented in Exhibit 35.

Exhibit 35: Significant Needs Identified in Other CHNAs

Mental/Behavioral health 22 Access to basic/primary health care 20 Cardiovascular/ heart disease 19 Diabetes 19 Drug/ substance abuse 18 Tobacco use/ smoking 18 Alcohol abuse and excessive drinking 15 Elderly care/ aging population 15 Cancer 14 Infrant mortality (disparities) 14 Cost of care 10 Access to dental care 10 Access/lack of health insurance coverage 10 Poverty 10 Transportation 10 Unemployment 10 Asthma/childhood asthma 9 Respiratory diseases 9 Access to mental health services 8 Nutrition/ access to healthy food 7 Physical inactivity/lack of exercise 7 Alzheimer's disease 6 Drug/ substance abuse (youth) 6 Violence 6 Tobacco use during pregnancy 5 Access to prescription drugs/cost 4 Drug abuse- opioids/heroin 14 Drug abuse- prescriptions 4 Health disparities/ equity 4 Hypertension 4 Preventive care (immunizations, screenings, etc.) 4 Teenage pregnancy/ births 4 Access to substance abuse care 3 Low birth weight 3 Pre-term births 3 Uninsured and underinsured populations 3	Significant Need	Frequency
Access to basic/primary health care Cardiovascular/ heart disease Diabetes Drug/ substance abuse Tobacco use/ smoking Alcohol abuse and excessive drinking Elderly care/ aging population Cancer Infant mortality (disparities) Cost of care Access to dental care Access to dental care Access to dental care Ounemployment Unemployment Asthma/childhood asthma Respiratory diseases Access to mental health services Nutrition/ access to healthy food Physical inactivity/lack of exercise Alzheimer's disease Drug/ substance abuse (youth) Croug abuse- prescription drugs/cost Drug abuse- prescriptions Health disparities/ equity Hypertension Preventive care (immunizations, screenings, etc.) Access to well the births Access to substance abuse care Low birth weight Premature births Pre-term births Uninsured and underinsured populations 3	Obesity	
Cardiovascular/ heart disease Diabetes Diabetes Drug/ substance abuse Tobacco use/ smoking Alcohol abuse and excessive drinking Elderly care/ aging population Cancer Infant mortality (disparities) Locate of care Access to dental care Access to dental care Access to dental care Dunemployment Unemployment Asthma/childhood asthma Respiratory diseases Access to mental health services Nutrition/ access to healthy food Physical inactivity/lack of exercise Alzheimer's disease Drug/ substance abuse (youth) Croug abuse- prescription drugs/cost Drug abuse- prescriptions Health disparities/ equity Hypertension Preventive care (immunizations, screenings, etc.) Access to substance abuse care Low birth weight Premature births Preneature births Pre-term births Uninsured and underinsured populations 3	Mental/Behavioral health	22
Diabetes 19 Drug/ substance abuse 18 Tobacco use/ smoking 18 Alcohol abuse and excessive drinking 15 Elderly care/ aging population 15 Cancer 14 Infant mortality (disparities) 14 Cost of care 11 Access to dental care 10 Access/lack of health insurance coverage 10 Poverty 10 Transportation 10 Unemployment 10 Asthma/childhood asthma 9 Respiratory diseases 9 Access to mental health services 8 Nutrition/ access to healthy food 7 Physical inactivity/lack of exercise 7 Alzheimer's disease 6 Drug/ substance abuse (youth) 6 Violence 6 Tobacco use during pregnancy 5 Access to prescription drugs/cost 4 Drug abuse- prescriptions 4 Health disparities/ equity 4 Hypertension 4 Preventive care (immunizations, screenings, etc.) 4 Teenage pregnancy/ births 4 Access to substance abuse care 3 Low birth weight 9 Preveterm births 3 Uninsured and underinsured populations 3	Access to basic/primary health care	20
Drug/ substance abuse Tobacco use/ smoking Alcohol abuse and excessive drinking Elderly care/ aging population Cancer Infant mortality (disparities) Infant	Cardiovascular/ heart disease	19
Tobacco use/ smoking 18 Alcohol abuse and excessive drinking 15 Elderly care/ aging population 15 Cancer 14 Infant mortality (disparities) 14 Cost of care 11 Access to dental care 10 Access/lack of health insurance coverage 10 Poverty 10 Transportation 10 Unemployment 10 Asthma/childhood asthma 9 Respiratory diseases 9 Access to mental health services 8 Nutrition/ access to healthy food 7 Physical inactivity/lack of exercise 7 Alzheimer's disease 6 Drug/ substance abuse (youth) 6 Violence 6 Tobacco use during pregnancy 5 Access to prescription drugs/cost 4 Drug abuse- prescriptions 4 Drug abuse- prescriptions 4 Health disparities/ equity 4 Hypertension Preventive care (immunizations, screenings, etc.) 4 Teenage pregnancy/ births 4 Access to substance abuse care 3 Low birth weight 3 Pre-term births 3 Uninsured and underinsured populations 3	Diabetes	19
Alcohol abuse and excessive drinking 15 Elderly care/ aging population 15 Cancer 14 Infant mortality (disparities) 14 Cost of care 11 Access to dental care 10 Access/lack of health insurance coverage 10 Poverty 10 Transportation 10 Unemployment 10 Asthma/childhood asthma 9 Respiratory diseases 9 Access to mental health services 8 Nutrition/ access to healthy food 7 Physical inactivity/lack of exercise 7 Alzheimer's disease 6 Drug/ substance abuse (youth) 6 Violence 6 Tobacco use during pregnancy 5 Access to prescription drugs/cost 4 Drug abuse- opioids/heroin 4 Drug abuse- prescriptions 4 Health disparities/ equity 4 Hypertension 4 Preventive care (immunizations, screenings, etc.) 4 Teenage pregnancy/ births 4 Access to substance abuse care 3 Low birth weight 3 Pre-term births 3 Uninsured and underinsured populations 3	Drug/ substance abuse	18
Elderly care/ aging population 15 Cancer 14 Infant mortality (disparities) 14 Cost of care 11 Access to dental care 10 Access/lack of health insurance coverage 10 Poverty 10 Transportation 10 Unemployment 10 Asthma/childhood asthma 9 Respiratory diseases 9 Access to mental health services 8 Nutrition/ access to healthy food 7 Physical inactivity/lack of exercise 7 Alzheimer's disease 6 Drug/ substance abuse (youth) 6 Violence 6 Tobacco use during pregnancy 5 Access to prescription drugs/cost 4 Drug abuse- opioids/heroin 4 Drug abuse- opioids/heroin 4 Health disparities/ equity 4 Hypertension 4 Preventive care (immunizations, screenings, etc.) 4 Teenage pregnancy/ births 4 Access to substance abuse care 3 Low birth weight 3 Pre-term births 3 Uninsured and underinsured populations 3	Tobacco use/ smoking	18
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Infant mortality (disparities)  Cost of care  Access to dental care  Access/lack of health insurance coverage  Poverty  10  Transportation  Unemployment  Asthma/childhood asthma  Respiratory diseases  Access to mental health services  8  Nutrition/ access to healthy food  7  Physical inactivity/lack of exercise  Drug/ substance abuse (youth)  For a bustance abuse (youth)  For a bustance abuse (youth)  Cost to prescription drugs/cost  Access to prescription drugs/cost  Drug abuse- opioids/heroin  Drug abuse- prescriptions  Health disparities/ equity  Hypertension  Preventive care (immunizations, screenings, etc.)  Teenage pregnancy/ births  Access to substance abuse care  3  Low birth weight  Premature births  3  Uninsured and underinsured populations  3	Elderly care/ aging population	15
Cost of care 11  Access to dental care 10  Access/lack of health insurance coverage 10  Poverty 10  Transportation 10  Unemployment 10  Asthma/childhood asthma 9  Respiratory diseases 9  Access to mental health services 8  Nutrition/ access to healthy food 7  Physical inactivity/lack of exercise 7  Alzheimer's disease 6  Drug/ substance abuse (youth) 6  Violence 6  Tobacco use during pregnancy 5  Access to prescription drugs/cost 4  Drug abuse- opioids/heroin 4  Drug abuse- prescriptions 4  Health disparities/ equity 4  Hypertension 4  Preventive care (immunizations, screenings, etc.) 4  Teenage pregnancy/ births 4  Access to substance abuse care 3  Low birth weight 3  Pre-term births 3  Uninsured and underinsured populations 3	Cancer	14
Access to dental care  Access/lack of health insurance coverage Poverty 10  Transportation 10  Unemployment 10  Asthma/childhood asthma 9  Respiratory diseases 9  Access to mental health services 8  Nutrition/ access to healthy food 7  Physical inactivity/lack of exercise Alzheimer's disease 6  Drug/ substance abuse (youth) Violence 6  Tobacco use during pregnancy 5  Access to prescription drugs/cost Drug abuse- opioids/heroin Drug abuse- prescriptions 4  Health disparities/ equity Hypertension Preventive care (immunizations, screenings, etc.) Teenage pregnancy/ births Access to substance abuse care 3  Low birth weight Premature births Pre-term births Uninsured and underinsured populations 3	Infant mortality (disparities)	14
Access/lack of health insurance coverage Poverty 10 Transportation 10 Unemployment 10 Asthma/childhood asthma Respiratory diseases 9 Access to mental health services 8 Nutrition/ access to healthy food 7 Physical inactivity/lack of exercise 7 Alzheimer's disease 6 Drug/ substance abuse (youth) 6 Violence 6 Tobacco use during pregnancy 7 Access to prescription drugs/cost 7 Drug abuse- opioids/heroin 7 Drug abuse- prescriptions 9 Health disparities/ equity 9 Hypertension 9 Preventive care (immunizations, screenings, etc.) 4 Teenage pregnancy/ births 4 Access to substance abuse care 3 Low birth weight 9 Premature births 9 Pre-term births 10 10 10 10 10 10 10 10 10 10 10 10 10	Cost of care	11
Proverty 10  Transportation 10  Unemployment 10  Asthma/childhood asthma 9  Respiratory diseases 9  Access to mental health services 8  Nutrition/ access to healthy food 7  Physical inactivity/lack of exercise 7  Alzheimer's disease 6  Drug/ substance abuse (youth) 6  Violence 6  Tobacco use during pregnancy 5  Access to prescription drugs/cost 4  Drug abuse- opioids/heroin 4  Drug abuse- prescriptions 4  Health disparities/ equity 4  Hypertension 4  Preventive care (immunizations, screenings, etc.) 4  Teenage pregnancy/ births 4  Access to substance abuse care 3  Low birth weight 3  Pre-term births 3  Uninsured and underinsured populations 3	Access to dental care	10
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Nutrition/ access to healthy food 7 Physical inactivity/lack of exercise 7 Alzheimer's disease 6 Drug/ substance abuse (youth) 6 Violence 6 Tobacco use during pregnancy 5 Access to prescription drugs/cost 4 Drug abuse- opioids/heroin 4 Drug abuse- prescriptions 4 Health disparities/ equity 4 Hypertension 4 Preventive care (immunizations, screenings, etc.) 4 Teenage pregnancy/ births 4 Access to substance abuse care 3 Low birth weight 3 Pre-term births 3 Uninsured and underinsured populations 3	Respiratory diseases	9
Physical inactivity/lack of exercise 7  Alzheimer's disease 6  Drug/ substance abuse (youth) 6  Violence 6  Tobacco use during pregnancy 5  Access to prescription drugs/cost 4  Drug abuse- opioids/heroin 4  Drug abuse- prescriptions 4  Health disparities/ equity 4  Hypertension 4  Preventive care (immunizations, screenings, etc.) 4  Teenage pregnancy/ births 4  Access to substance abuse care 3  Low birth weight 3  Pre-term births 3  Uninsured and underinsured populations 3	Access to mental health services	8
Alzheimer's disease Drug/ substance abuse (youth)  Violence 6 Tobacco use during pregnancy 5 Access to prescription drugs/cost 4 Drug abuse- opioids/heroin 4 Drug abuse- prescriptions 4 Health disparities/ equity 4 Hypertension 4 Preventive care (immunizations, screenings, etc.) 4 Teenage pregnancy/ births 4 Access to substance abuse care 3 Low birth weight 3 Pre-term births 3 Uninsured and underinsured populations 3	Nutrition/ access to healthy food	7
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Tobacco use during pregnancy  Access to prescription drugs/cost  Drug abuse- opioids/heroin  Drug abuse- prescriptions  Health disparities/ equity  Hypertension  Preventive care (immunizations, screenings, etc.)  Teenage pregnancy/ births  Access to substance abuse care  Low birth weight  Pre-term births  3  Uninsured and underinsured populations  5  Access to prescription drugs/cost  4  Access to prescription drugs/cost  4  Access to substance adulty  4  Access to substance abuse care  3  Bre-term births  3  Uninsured and underinsured populations  3	Drug/ substance abuse (youth)	6
Access to prescription drugs/cost  Drug abuse- opioids/heroin  Drug abuse- prescriptions  Health disparities/ equity  Hypertension  Preventive care (immunizations, screenings, etc.)  Teenage pregnancy/ births  Access to substance abuse care  Low birth weight  Pre-term births  3  Uninsured and underinsured populations  3	Violence	6
Drug abuse- opioids/heroin  Drug abuse- prescriptions  Health disparities/ equity  Hypertension  Preventive care (immunizations, screenings, etc.)  Teenage pregnancy/ births  Access to substance abuse care  Low birth weight  Premature births  3  Pre-term births  3  Uninsured and underinsured populations  3	Tobacco use during pregnancy	5
Drug abuse- prescriptions 4  Health disparities/ equity 4  Hypertension 4  Preventive care (immunizations, screenings, etc.) 4  Teenage pregnancy/ births 4  Access to substance abuse care 3  Low birth weight 3  Premature births 3  Pre-term births 3  Uninsured and underinsured populations 3	Access to prescription drugs/cost	4
Health disparities/ equity  Hypertension  Preventive care (immunizations, screenings, etc.)  Teenage pregnancy/ births  Access to substance abuse care  Low birth weight  Premature births  3  Pre-term births  3  Uninsured and underinsured populations  3	Drug abuse- opioids/heroin	4
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Preventive care (immunizations, screenings, etc.)  4 Teenage pregnancy/ births  4 Access to substance abuse care  3 Low birth weight  3 Premature births  3 Uninsured and underinsured populations  3	Health disparities/ equity	4
Teenage pregnancy/ births  Access to substance abuse care  3 Low birth weight  3 Premature births  3 Pre-term births  3 Uninsured and underinsured populations  3	Hypertension	4
Access to substance abuse care 3  Low birth weight 3  Premature births 3  Pre-term births 3  Uninsured and underinsured populations 3	Preventive care (immunizations, screenings, etc.)	4
Low birth weight 3 Premature births 3 Pre-term births 3 Uninsured and underinsured populations 3	Teenage pregnancy/ births	4
Premature births 3 Pre-term births 3 Uninsured and underinsured populations 3	Access to substance abuse care	3
Pre-term births 3 Uninsured and underinsured populations 3	Low birth weight	3
Uninsured and underinsured populations 3	Premature births	3
	Pre-term births	3
	Uninsured and underinsured populations	3
	Violence (youth)	3

Source: Analysis of Other CHNA Reports by Verité, 2016.

A State Health Assessment also recently was published by the Ohio Department of Health. <sup>18</sup> The State Health Assessment (SHA) is a comprehensive report directed by a steering committee comprised of directors of Ohio's health-related state agencies. The Ohio Department of Health contracted with the Health Policy Institute of Ohio to facilitate preparation of the assessment. The purpose of the SHA is both to provide a template for state agencies and local partners for analysis as well as inform the identification and prioritization of community health needs for the State Health Improvement Plan (SHIP).

**State-wide needs.** The assessment found that Ohio performed worse than the U.S. overall on most measures of population health with many opportunities to improve both physical and mental health outcomes. For example:

- The average number of days Ohio residents experienced limited activity due to mental or physical difficulties increased 17 percent between 2013 and 2014.
- Over the same period, adult asthma, child asthma, and diabetes also increased by 10 percent.
- Drug overdose deaths increased 18 percent and were significantly higher in Ohio than the United States (24.7 per 100,000 compared to 14.6).
- Infant mortality also is a significant issue in Ohio, and is particularly problematic for black and Hispanic (or Latino) infants.
- Ohio ranks particularly poorly for the number mothers who smoke during pregnancy.
   Only 59 percent of black mothers in Ohio receive prenatal care in the first trimester, compared to 70.8 percent in the U.S. overall.
- Per-capita health spending has been higher in Ohio than in other states.
- The percentage of hospital inpatients with opiate-related diagnoses increased substantially from 2012 to 2014 (from 25.2 percent to 37.0).
- Ohio has experienced rates of avoidable emergency department visits for Medicare beneficiaries, admissions for pediatric asthma, and admissions for diabetes long-term complications that exceed United States averages.
- Access to mental health services and drug treatment services is particularly problematic, and a comparatively high percentage of Ohio residents live in areas underserved for dental care.
- Ohio has 9.9 public health agency staff per 100,000, a number substantially below the national average of 30.6.
- Infection rates for a number of communicable diseases exceed national averages, including chlamydia. The state's child immunization and HPV vaccination rates have been below average.
- Based on national comparisons, other concerns with children are also present in Ohio, including: childhood poverty rates, number of children in single-parent households, percent of children with adverse childhood experiences, and children exposed to secondhand smoke.
- There are also significant needs related to the physical environment in Ohio. The average amount of particulate matter and cases of lead poisoning are both higher in Ohio than the

<sup>&</sup>lt;sup>18</sup> Available at: http://www.healthpolicyohio.org/sha-ship/

United States. Food insecurity is higher in the state as well, and Ohio residents have less access to exercise opportunities than the country on average.

The SHA reviewed 211 local health department and hospital community health assessments that covered 94 percent of counties to evaluate what the most significant needs were. That review found ten most commonly identified significant community health needs: obesity, mental health, access to health care, drug and alcohol abuse, maternal and infant health, cancer, cardiovascular disease, diabetes, tobacco, and chronic diseases.

More than 400 stakeholders provided input into the SHA. Ten priority areas were identified based on this input: obesity, access to behavioral health care, drug and alcohol abuse, mental health, employment/poverty/income, equity and disparities, access to dental care, cardiovascular disease, and nutrition.

**Northeast Ohio.** The northeast Ohio region also had particularly significant needs identified in the SHA. Concerns about the physical environment (air pollution and lead poisoning) are particularly prevalent in northeast Ohio. Other health assessments reviewed as part of the SHA process most frequently identified the following community health needs:

- Access to health and medical care (76 percent)
- Obesity (63 percent)
- Mental health (57 percent)
- Drug and alcohol abuse (47 percent)
- Maternal and infant health (41 percent)
- Diabetes (40 percent)
- Coverage and affordability (32 percent)
- Cardiovascular disease (29 percent)
- Cancer (29 percent)
- Tobacco use (29 percent)

Stakeholders from northeast Ohio most frequently identified the following as significant community health needs: obesity, drug and alcohol abuse, mental health, access to behavioral health care, employment/ poverty /income, equity and disparities, maternal and infant health, nutrition, coverage and affordability, and diabetes.

# APPENDIX C – COMMUNITY INPUT PARTICIPANTS

# **APPENDIX C - COMMUNITY INPUT PARTICIPANTS**

Individuals from a wide variety of organizations and communities participated in the interview process (shown in **Exhibit 36**). Organizations listed in italics indicate that the interviewee has public health expertise.

**Exhibit 36: Interview Participants** 

Organization	Description	Populations Represented	
ADAMHSCC	Alcohol, drug addiction, and mental health services	Mentally ill, substance abuse	
American Heart and Stroke Association	National voluntary health agency	General population	
Community Partnership	Community partnership on aging	Aging population	
Cuyahoga County Board of Health	County board of health	General population	
Cuyahoga County Office of Health and Human Services	County health office	General population	
Cuyahoga County Office of Reentry	County re-entry services program	Formally incarcerated persons	
Gathering Place	Cancer support organization	General population	
Greater Cleveland NAMI	Mental health agency	Mentally ill	
Hillcrest YMCA	Youth development/health living/recreational facility	Youth, general population	
Legacy Health	Assisted living facility	Aging population, disabled	
Lyndhurst City Government	Mayor	General population	
Mayfield Chamber	City government	General population	
Mayfield Heights City Government	Mayor	General population	
Montefiore	Non-profit nursing home	Aging population, disabled	
Northeast Ohio Black Health Coalition	Non-profit addressing the health needs of the black community	Minority populations	
Ohio Legislature	State government	General population	
Tri-C College	Community college	General population, students	

<sup>\*</sup>Two individuals from the Hillcrest YMCA and two individuals from Greater Cleveland NAMI participated in the interview process.

# APPENDIX D – ACTIONS TAKEN SINCE THE PREVIOUS CHNA

Hillcrest Hospital uses evidence-based approaches in the delivery of healthcare services and educational outreach with the aim of achieving healthy outcomes for the community it serves. It undertakes periodic monitoring of its programs to measure and determine their effectiveness and ensure that best practices continue to be applied.

Given that the process for evaluating the impact of various services and programs on population health is longitudinal by nature, significant changes in health outcomes may not manifest for several community health needs assessment cycles. We continue to evaluate the cumulative impact.

Each identified health need and action items in our 2013 CHNA Implementation Strategy are described below with representative impacts.

1. Identified Need: Chronic Disease and Health Conditions, Heart Related Diseases Action: Hillcrest Hospital, renowned in cardiac medicine, continues to provide a certified Stroke Center and operates a Congestive Heart Failure Clinic. The hospital provides a wide range of clinical and wellness services to treat chronic heart-related diseases, including stroke, congestive heart failure, COPD, and hypertension, all of which are often more prevalent in the elderly populations.

# **Highlighted Impact:**

- The Cleveland Clinic health system reduced heart failure 30 day readmission rates from 2013 through 2015.
- Hillcrest Hospital added a new catheterization laboratory in 2014 along with a new cardio-pulmonary wellness rehabilitation facility.
- A dedicated neurological unit for Hillcrest Hospital patients with acute neurological changes and stroke symptoms is available for stroke patients.

# 2. Identified Need: Chronic Diseases and Health Conditions, Adult Asthma Action: Hillcrest Hospital pulmonologists and other physicians continue to provide acute inpatient and outpatient care to patients with Adult Asthma.

## **Highlighted Impact:**

- The Cleveland Clinic health system reduced pneumonia 30 day readmission rates from 2013 through 2015.
- All hospitalized Hillcrest patients are screened for smoking status and smokers receive information on cessation and other resources.
- 3. Identified Need: Chronic Disease and Health Conditions, Diabetes
  Action: Hillcrest Hospital's Diabetes Clinic, located across the street from the hospital,
  continues to provide outpatient care and community wellness education programs to
  patients and community members on diabetes and disease management. The hospital also

## APPENDIX D – ACTIONS TAKEN SINCE THE PREVIOUS CHNA

treats patients suffering from diabetes and any diabetic complications on an inpatient and outpatient basis.

# **Highlighted Impact:**

- Patients are seen in the outpatient Chronic Disease Center by nurses and dieticians to assist with compliance with diet and medications.
- Diabetes education programs were provided at various community locations reaching 267 community members.

# 4. Identified Need: Chronic Disease and Health Conditions, Low Birth Weight

**Action:** Hillcrest Hospital continues to offer a wide range of clinical, wellness and education services relating to pediatric and women's health. The hospital's Neonatal Intensive Care Unit treats babies who are born with special needs including breathing problems and problems associated with very low and extremely low birth weight. The hospital also has a pediatric inpatient and subspecialty clinic available to treat the health needs of children. In addition, the hospital offers birthing, prenatal health and parenting classes for expectant parents.

# **Highlighted Impact:**

- Hillcrest Hospital offers Safe Sleep education to decrease incidence of infant mortality. Support groups are offered post discharge to provide support and resources.
- Hillcrest Hospital has been awarded all five stars in the Ohio First Steps for Healthy Babies program for 2015. This initiative is a voluntary breastfeeding designation program developed by Ohio Hospitals Association and the Ohio Department of Health to recognize maternity centers in Ohio for taking steps to promote, protect and support breastfeeding in their organization. First Steps is part of OHA's initiative to reduce infant mortality in Ohio.

## 5. Identified Need: Wellness

**Action:** Hillcrest Hospital offers outreach programs and community health talks focused on educating the community on healthy behavior choices including exercise, healthcare navigation, stress management, nutrition, and smoking cessation to promote health and wellness, increase access to healthcare resources, and reduce disease burden. Some of these programs are held in nursing homes and/or focused on seniors or geriatric care.

## **Highlighted Impact:**

- Hillcrest Hospital offers Healthy Community Initiatives, a community collaborative effort to increase healthy behaviors.
- Classes in nutrition, physical activity, life style management and tobacco cessation were provided to 1,734 residents in Lyndhurst, Mayfield Heights, Mayfield Village, Highland Heights, Gates Mills and Munson Township.

## 6. Identified Need: Access to Health Services

**Action:** Hillcrest Hospital continues to provide medically necessary services to all patients regardless of race, color, creed, gender, country of national origin or ability to pay.

#### APPENDIX D – ACTIONS TAKEN SINCE THE PREVIOUS CHNA

Hillcrest Hospital has a financial assistance policy that is among the most generous in the region that covers both hospital services and physician services provided by physicians employed by Cleveland Clinic.

# **Highlighted Impact:**

• In 2015, Cleveland Clinic health system provided \$69.3 million in financial assistance to the communities served by its main campus, family health centers and NEO Regional Hospitals.

Hillcrest Hospital continues to work to improve its scheduling and support service model to provide consistent experience, improve metrics, and increase efficiency including providing Internet scheduling, accelerating technology implementation and scheduling training.

Hillcrest Hospital implemented a split-flow model for its Emergency Department shortening the time to physicians and overall length of stay and placing patients in areas devoted to their unique needs to improve patient satisfaction and outcomes.

### 7. Identified Need: Research

Cleveland Clinic health system conducts clinical research activities throughout the system, including regional hospitals. In 2015, Cleveland Clinic scientists conducted more than 2,000 clinical trials and generated 54 invention disclosures, 14 new licenses, and 76 patents.

**Action:** Clinical trials and other clinical research activities continue to occur throughout the Cleveland Clinic health system including at the community hospitals. For example, patients at Hillcrest Hospital are involved in heart failure and ambulatory studies.

## **Highlighted Impact:**

• Hillcrest Hospital's comprehensive cancer center conducted more than 25 clinical trials involving several different cancer disease sites.

## 8. Identified Need: Education

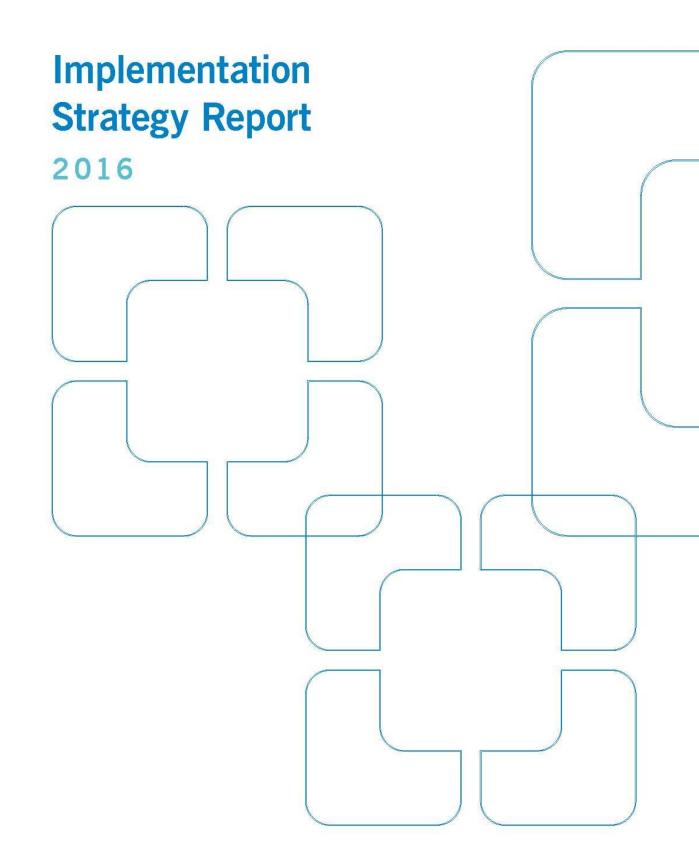
Cleveland Clinic and all regional hospitals provide education of medical professions. In 2015, Cleveland Clinic trained over 1,700 residents and fellows, and provided over 1,800 student rotations in 65 allied health education programs.

**Action:** Hillcrest Hospital continues to provide physician, nurse and allied health residency and other education opportunities and is affiliated with nursing and allied health schools. The hospital also provides community education programs on a variety of topics including wellness, parenting, and nutrition.

### **Highlighted Impact:**

• Hillcrest Hospital serves as clinical site for nursing students along with 21 other Allied Health professions.





# Hillcrest Hospital 6780 Mayfield Road Mayfield Heights, Ohio 44124

# 2016 Community Health Needs Assessment Implementation Strategy As required by Internal Revenue Code § 501(r)(3)

Name and EIN of Hospital Organization Operating Hospital Facility: Cleveland Clinic Health System-East Region # 34-0714593

**Date Approved by** 

Authorized Governing Body: April 25, 2017

**Authorized Governing Body:** Special Committee on Community Health

Needs as delegated by the Executive

Committee of the Cleveland Clinic Health System-East Region Board of Directors

Contact: Cleveland Clinic

chna@ccf.org

# TABLE OF CONTENTS

I.	Introduction and Purpose	3
II.	Community Definition	3
	How Implementation Strategy was Developed	
IV.	Summary of the Community Health Needs Identified	4
V.	Needs Hospital Will Address	5
	Needs Hospital Will Not Address	

# 2016 HILLCREST HOSPITAL IMPLEMENTATION STRATEGY

# I. Introduction and Purpose

This written plan is intended to satisfy the requirements set forth in Internal Revenue Code Section 501(r)(3) regarding community health needs assessments and implementation strategies. The overall purpose of the implementation strategy is to align the hospital's limited resources, program services and activities with the findings of the community health needs assessment ("CHNA").

# A. <u>Description of Hospital</u>

Hillcrest is a 453-bed hospital located in Mayfield Heights, Ohio. Hillcrest Hospital ranked within the Top 5 of Cleveland-area hospitals by U.S. News & World Report's "Best Hospitals in Cleveland." In addition, U.S. News & World Report recognized Hillcrest Hospital as high-performing in nine adult specialties: Diabetes & Endocrinology, Ear, Nose & Throat, Gastroenterology & GI Surgery, Geriatrics, Nephrology, Neurology and Neurosurgery, Orthopedics, Pulmonology and Urology. Additional information on the hospital and its services is available at: http://my.clevelandclinic.org/locations\_directions/Regional-Locations/Hillcrest-hospital.

The hospital is part of the Cleveland Clinic health system, which includes an academic medical center, multiple regional hospitals, two children's hospitals, a rehabilitation hospital, a Florida hospital and a number of other facilities and services across Northeast Ohio and Florida. Additional information about Cleveland Clinic is available at: https://my.clevelandclinic.org/.

### B. Hospital Mission

Hillcrest Hospital was formed in 1968 to provide health care services to its community. Hillcrest Hospital's mission is:

To provide better care for the sick, investigation of their problems and education of those who serve

# **II.** Community Definition

For purposes of this report, Hillcrest's community is defined as 26 ZIP codes in Cuyahoga, Geauga, Lake, Portage, and Summit counties in Ohio comprising over 74 percent of the hospital's inpatient volumes. This area has comparatively unfavorable health status and socioeconomic indicators, particularly for minority residents. The total population of Hillcrest's community in 2015 was 667,426.

Hillcrest Hospital is located within 15 miles of three other Cleveland Clinic hospitals, Euclid, Marymount and South Pointe Hospitals. Because of this proximity, a portion of Hillcrest Hospital's community overlaps with those of the other hospitals. All of these hospitals work together as a part of the Cleveland Clinic health system to serve residents in Cleveland's eastern communities and suburbs.

# III. How Implementation Strategy was Developed

This Implementation Strategy was developed by a team of members of senior leadership at Hillcrest Hospital and Cleveland Clinic representing several departments of the organizations, including clinical administration, medical operations, nursing, finance and community relations.

Each year, senior leadership at Hillcrest Hospital and Cleveland Clinic will review this Implementation Strategy to determine whether changes should be made to better address the health needs of its communities.

# IV. Summary of the Community Health Needs Identified

Secondary data and key stakeholder interviews were reviewed to identify and analyze the needs identified by each source. The top health needs of the Hillcrest Hospital community are those that are supported both by secondary data and raised by key stakeholders.

Needs are listed by category, in alphabetical order, below. See the 2016 Hillcrest Hospital CHNA for more information:

http://my.clevelandclinic.org/locations/hillcrest-hospital/about/community-health

- A. Access to Affordable Healthcare
- B. Chronic Diseases and Other Health Conditions
  - 1. Cancer
  - 2. Chemical Dependency
  - 3. Communicable Diseases
  - 4. Diabetes
  - 5. Heart Disease
  - 6. Obesity
  - 7. Poor Birth Outcomes
  - 8. Poor Mental Health Status
  - 9. Respiratory Diseases
- C. Health Professions Education
- D. Health Professions Research
- E. Healthcare for the Elderly
- F. Wellness

Economic Development and Community Conditions was also identified as a significant health need. It is further discussed below in Section VI, *Needs Hospital Will Not Address*.

# V. Needs Hospital Will Address

### A. Access to Affordable Healthcare

# 1. Financial Assistance

All Northeast Ohio Cleveland Clinic hospitals provide medically necessary services to all patients regardless of race, color, creed, gender, country of national origin, or ability to pay. Cleveland Clinic has a financial assistance policy that is among the most generous in the region that covers both hospital services and physician services provided by physicians employed by the Cleveland Clinic. In 2015, Cleveland Clinic and its affiliated hospitals provided \$69.3 million of free or discounted care to patients in their communities. The financial assistance policy can be found here: http://my.clevelandclinic.org/patients/billing-insurance/financial-assistance#application-policy-other-documents-tab

Patient Financial Advocates are available at all Cleveland Clinic hospitals to meet with any patient who may be uninsured or have difficulty paying for medical care. Financial Advocates assist patients in evaluating whether they may qualify for our financial programs or other assistance, including Medicaid. Cleveland Clinic is proud to offer the services of a Medicaid eligibility representative to any patient who is potentially eligible so that the patient (and their family) can obtain portable health insurance that they can use for their medical needs. Assistance with enrollment in Medicaid is also important to help patients who do not currently have a medical home to develop a relationship with a primary care physician and better access to appropriate health care services.

# 2. Improved Access to Emergency Services

Hillcrest Hospital, like all Cleveland Clinic hospitals, has implemented a split-flow model for its Emergency Department. This model shortens the time to providers, resulting in shorter overall length of stay, and places patients in areas devoted to their unique needs to improve patient satisfaction and outcomes. Hillcrest Hospital also has a dedicated area for pediatric emergency patients, and offers a large, separate waiting area away from the Adult ED, with more privacy and comfort for our young patients and their families.

## 3. Access to Care and Appointments

Cleveland Clinic provides telephone and internet access to patients seeking to make appointments for primary, specialty and diagnostic services. Representatives are available 24/7 and can assist patients in identifying the next available or closest location for an appointment at all facilities within the Cleveland Clinic health system. Cleveland Clinic also has 24 locations in Northeast Ohio for "walk in" care where no appointment is necessary. Express Care Clinics have evening and weekend hours and are located in many of our family health centers and outpatient facilities.

In an effort to improve outcomes and increase access, Cleveland Clinic and its affiliated hospitals are providing certain services in the form of "shared medical appointments"

(SMAs). SMAs offer an innovative, interactive approach to healthcare that brings patients with common needs together with one or more healthcare providers. SMAs are now offered at several Cleveland Clinic hospitals and family health centers. SMAs are particularly valuable to people dealing with chronic conditions like asthma, diabetes and hypertension. Hillcrest Hospital currently provides SMAs for stroke survivors.

# 4. Outreach on How to Access Care

Cleveland Clinic provides outreach programs to key underserved communities at our regional hospitals. Outreach personnel end educational sessions on various medical topics with a presentation designed to inform community members how to access different levels of health care and provide resources to programs to assist them. Outreach programs include information on how to connect to a medical home (i.e. a regular primary care physician) and on how to contact a Cleveland Clinic Patient Financial Advocate who can provide information on financial assistance, including Medicaid.

# 5. Transportation Assistance

Based on financial and medical need, Cleveland Clinic provides transportation on a space available basis to existing patients who are within 5 miles of the following facilities: Stephanie Tubbs Jones Health Center and Marymount, Euclid, Lutheran and South Pointe Hospitals. Space available transportation is also offered for radiation oncology treatment up to 25 miles of the Cleveland Clinic Main Campus, Hillcrest and Fairview Hospitals. On campuses where parking fees are assessed, patients who come to the emergency department receive vouchers to cover parking. Cleveland Clinic continues to evaluate methods to improve patient access to care.

### 6. Other Access Initiatives

Hillcrest Hospital offers a patient navigator in cancer care who works with patients and families to aid them with access to affordable drugs and support services during treatment.

### B. Chronic Disease and Other Health Conditions

Hillcrest Hospital provides acute inpatient care, outpatient care and preventive education to its patients, and has a specialty focus in cardiac service, cancer care, neurology and obstetrics and neonatal care.

In addition, Hillcrest, along with all the regional Cleveland Clinic hospitals, offers Chronic Care Clinics to assist patients who have chronic conditions like heart disease and diabetes. These Chronic Care Clinics offer management and support to individuals with medical issues such as Anticoagulation management, Chronic Kidney Disease, Heart Failure, and Anemia management.

#### 1. Cancer

Cleveland Clinic Cancer Center at Hillcrest Hospital has been awarded the designation of Comprehensive Community Cancer Program by the American College of Surgeons Commission on Cancer. With expertise and advanced technology, the Cancer Center at

Hillcrest Hospital emphasizes prevention, early detection, personalized, aggressive treatment and customized support. The services offered include medical and radiation oncology, breast program and breast surgery, gynecologic and urologic oncology, and survivorship.

The Breast Health Center, part of Cleveland Clinic's Comprehensive Breast Cancer Program, has state-of-the-art treatment options available as well as an opportunity to participate in clinical trials.

A range of preventive and educational services are available as well as screening programs which are provided to the community throughout the year, including on colon cancer, skin cancer and breast cancer.

# 2. Chemical Dependency

Cleveland Clinic has been actively addressing rising drug abuse in our communities since 2012 when we held a day-long summit on prescription drug abuse. In 2013, we joined with the U.S. Attorney's Office and other local partners in a summit to focus on the problem of heroin addiction in our communities. A task force developed out of this summit, called the Northeast Ohio Heroin and Opioid Task Force, of which the Cleveland Clinic is a founding member. This Task Force meets regularly and recently received the U.S. Attorney General's Award for Outstanding Contributions to Community Partnerships for Public Safety.

Cleveland Clinic recently formed its own internal Opiate Task Force, which is an enterprise-wide, comprehensive model focused on prevention and treatment of opioid addiction in each of the communities we serve in Northeast Ohio. The Cleveland Clinic Opiate Task Force's work is divided into four subcommittees: Education & Prevention, Health Policy & Treatment, Clinical Prescribing and Chronic Pain Treatment. Cleveland Clinic will continue to address community needs in the heroin and opioid epidemic by developing internal programs, educational modules, and treatment plans, and we will also continue to collaborate with external partners on strategies and policies that will positively impact this drug epidemic.

Hillcrest Hospital's emergency department treats and evaluates patients who may be chemically dependent, and refers them to appropriate outpatient or inpatient care. Hillcrest Hospital collaborates with Lutheran Hospital to refer patients who require inpatient care for chemical dependency to the Lutheran Adult Drug Rehabilitation Center.

Hillcrest Hospital outreach staff provides an educational program to local community members on the heroin/opiate crisis entitled *Triple Threat: Heroin, Fentanyl and Carfentanil.* 

# 3. Communicable Diseases

Cleveland Clinic health system patients, including those in the Hillcrest community, have access to primary care or women's health providers to assist in prevention and treatment of communicable diseases, including sexually transmitted diseases.

#### 4. Diabetes

Cleveland Clinic's Endocrinology & Metabolism Institute is committed to providing the highest quality healthcare for patients with diabetes, endocrine and metabolic disorders, and obesity. Hillcrest Hospital's Wound Healing Center offers chronic wound care management in an outpatient setting, including care to those suffering from diabetic ulcers and other diabetic complications. The diabetes education program at Hillcrest Hospital is accredited by the American Association of Diabetes Educators and covers all seven content areas of diabetes self-management education. The diabetes education center provides a variety of adult education services for those with Type 1 diabetes, Type 2 diabetes and Gestational diabetes. Education is provided to community members and to local schools through an outreach program called *Diabetes 101*.

#### 5. Heart Disease

Hillcrest Hospital offers comprehensive care for both inpatient and outpatient cardiac care including cardiac rehabilitation services. Hillcrest Hospital is certified as both a primary stroke center and chest pain center. The cardiac program has been nationally recognized for helping people with heart problems improve their health and enjoy longer, healthier lives by focusing on prevention, detection, treatment and follow-up. Educational programs are also offered to the community and/or on a variety of heart related topics, including *Protect Your Heart: Know Your Numbers, Hypertension 101*, and *Stroke 101*.

## 6. Obesity

Cleveland Clinic's nationally and internationally recognized Bariatric and Metabolic Institute has expanded services to the east side at Hillcrest Hospital. Our surgeons, physicians, anesthesiologists, psychologists, counselors, dietitians and specialized nurses focus on addressing obesity with modern treatment strategies, research and education, including surgery or a non-surgical medical weight loss treatment plan. Hillcrest Hospital outreach staff sponsor Healthy Community Initiatives and fitness challenges in the community, including BMI screenings. An education series called *Come Cook With Us* is offered in the local community to offer guidance on healthy eating.

### 7. Poor Birth Outcomes

Cleveland Clinic has created an Infant Mortality Task Force with the goal of impacting the rate of infant mortality in our communities. Cleveland Clinic will expand its educational programming and will work to strengthen and foster collaborative opportunities with other organizations in an effort to improve birth outcomes.

Cleveland Clinic providers (at both its affiliated hospitals and family health centers) will focus on prenatal screening efforts with their patients and on the management of patients at risk for preterm birth, substance abuse, and post-partum depression. In addition, Cleveland Clinic will continue to develop our Centering Pregnancy program offerings (SMAs). Cleveland Clinic's hospital birthing centers will implement safe sleep screening and promotion, and encourages new mothers to consider exclusive breastfeeding.

Our community educational efforts will be focused on school-based sexuality and reproductive health for teens, and on the importance of breastfeeding for the first 6 months and safe sleep for new parents. Cleveland Clinic's outreach teams also will host Community Baby Showers in high need neighborhoods to introduce resources and programs available to high-risk patients and families.

### 8. Poor Mental Health Status

Hillcrest Hospital provides psychological consults for its inpatients and outpatient care for behavioral health needs. Hillcrest collaborates with other Cleveland Clinic hospitals to provide its patients with comprehensive behavioral health services and programs. Euclid operates a geriatric inpatient behavioral health unit and offers psychiatric evaluation and management. Marymount Hospital and Lutheran Hospital are area leaders in adult behavioral health. Marymount Hospital provides a wide range of services to meet patient needs, including inpatient and limited outpatient adult psychiatry, inpatient consult service and Intensive Outpatient Programs for individual and group counseling. Lutheran operates an Adult Behavioral Medicine Center including a Mood Disorder clinic, a special geriatric psychiatry unit, and offers acute behavioral health services. Treatment is provided to adult patients ages 18 or older 24/7. Fairview Hospital serves pediatric patients and their families with behavioral medicine needs through the Fairview Hospital Child and Adolescent psychiatry unit offering an intensive outpatient program for adolescent patients.

# 9. Respiratory Diseases

Hillcrest Hospital provides acute inpatient care, outpatient care, pulmonary rehabilitation and preventive education to patients with COPD and Adult Asthma. Community health education programs are offered to the community on numerous topics for lung health and tobacco cessation, including *Open Airways for Schools*, *Lung Wellness Family Day*, *Better Breathers Club* and *Freedom form Smoking*.

### C. Health Professions Education

Cleveland Clinic operates one of the largest graduate medical education programs in the Midwest and one of the largest programs in the country. Cleveland Clinic sponsors a wide range of high quality medical education training through its Education Institute including accredited training programs for nurses and allied health professionals. Cleveland Clinic Education Institute oversees 247 residency and fellowship programs across the Cleveland Clinic Health System.

Hillcrest Hospital is a location for Cleveland Clinic and South Pointe residency-training programs, with approximately 300 residents rotating through each year. Hillcrest Hospital provides nurse training to students from several area nursing colleges. In addition, the hospital provides a wide variety of allied health internships including: anesthesiologist assistant, pharmacy, nutrition, occupational and physical therapy, social work and diagnostic imaging. Hillcrest Hospital Nursing Department also has a summer program for science interns.

### D. Health Professions Research

Clinical trials and other clinical research activities occur throughout the Cleveland Clinic health system including at the regional hospitals. For example, Hillcrest Hospital physicians are involved in heart disease research and participate in over 25 clinical trials on various on forms of cancer.

# E. Healthcare for the Elderly

The Cleveland Clinic joined the Medicare Shared Savings Program in 2015 to form an Accountable Care Organization (ACO) which serves a population of over 70,000 Medicare fee-for-service beneficiaries in Northeast Ohio. The Cleveland Clinic Medicare ACO includes all Cleveland Clinic hospitals and employed physicians, as well as independent physicians in our Quality Alliance network. In an ACO model, physicians, hospitals, and other health care providers come together to give coordinated high quality, cost-effective care to the Medicare patients they serve. Coordinated care helps ensure that patients, especially the chronically ill, get the right care at the right time, with the goal of avoiding unnecessary duplication of services and preventing medical errors.

Cleveland Clinic's Center for Geriatric Medicine assists elderly patients and their primary care physicians in the unique medical needs of aging patients. Geriatric services are designed to help preserve independence, maintain quality of life, and coordinate care among a multidisciplinary team of doctors, nurses, therapists, technicians, social workers and other medical professionals to improve outcomes for older patients. Geriatric evaluations and consults are available at various locations in the Cleveland Clinic health system.

Cleveland Clinic's Center for Connected Care provides clinical programs designed to help patients with their post-hospital needs, including home care, hospice, mobile primary care physician services, home infusion pharmacy, and home respiratory therapy. These services are often particularly important for elderly patients. The Center for Connected Care provides a unique program called Medical Care at Home in which primary care doctors are available to provide visits at home. Such services are particularly helpful to elderly patients, those with mobility issues, those with complex health conditions, and those recently discharged from a hospital, skilled nursing facility or rehabilitation facility.

Hillcrest Hospital is a Nurse Improving Care for Health System Elders (NICHE) certified Geriatric behavioral health center. NICHE hospitals follow nursing care models that recognize the specialized needs for older adult patients, emphasizing patient and family-centered care.

### F. Wellness

Hillcrest Hospital offers outreach programs and community health talks focused on educating the community on healthy behavior choices including exercise, healthcare navigation, stress management, nutrition, and smoking cessation to promote health and wellness, increase access to healthcare resources, and reduce disease burden. Hillcrest Hospital provides Health Community Initiatives and fitness challenges in local neighborhoods. Hillcrest Hospital community outreach staff offer *Come Learn With Us* programs on a variety of health topics to community members.

# VI. Needs Hospital Will Not Address

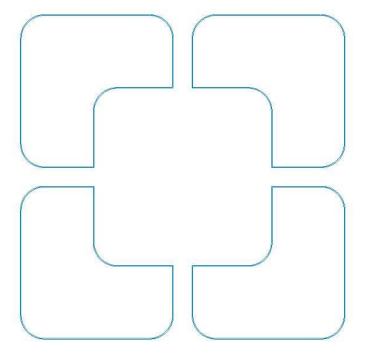
Hillcrest Hospital cannot directly address those community health needs that do not relate directly to Hillcrest Hospital's mission to deliver health care. These are needs that other governmental and/or nonprofit organizations have the more appropriate expertise and resources to address. Although Hillcrest Hospital cannot address these needs directly, it does support governmental and other agencies in their efforts to help with these needs.

Hillcrest Hospital cannot directly address the following community health need identified in the Community Health Needs Assessment:

# **Economic Development and Community Conditions**

The need for economic development and improved community conditions, including better employment opportunities and lower crime rates, was identified as a need in the CHNA. Several areas within the Hillcrest community lack adequate social services and experience high rates of poverty, unemployment, crime, and adverse environmental conditions.

Hillcrest Hospital cannot focus on or otherwise address the need for community services unrelated to the delivery of health care. Although Hillcrest Hospital is not directly involved with developing community infrastructure and improving the economy because its mission relates to delivery of quality healthcare, it does and will continue to support local chambers of commerce and community development organizations, collaborate with leaders of regional economic improvement and provide in-kind donation of time, skill and /or sponsorships to support efforts in these areas.



clevelandclinic.org/CHNAReports