

COMMUNITY HEALTH ASSESSMENT

FOR

NORTHERN KENTUCKY 2016

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EXECUTIVE SUMMARY

Every five years, the Northern Kentucky Health Department engages the community in an assessment to better understand the current health status of Northern Kentucky and to identify ways to improve health for everyone. Traditionally, the Northern Kentucky Health Department has facilitated the entire process, conducting all of the assessments in a linear fashion; however, at the onset of the most recent process, it was recognized that multiple community partners were engaging in similar assessments. A decision was made to connect these initiatives and strategically align health assessment and planning efforts. This collaborative process provides the greatest likelihood for improving health in Northern Kentucky by strategically aligning the priorities of the community toward common goals.

A steering committee of key community partners was created to guide and oversee the process, as well as actively participate in ongoing assessment and improvement activities. The Northern Kentucky Health Steering Committee consists of the Northern Kentucky Chamber of Commerce, Northern Kentucky Health Department, Northern Kentucky University, St. Elizabeth Healthcare, Skyward and United Way of Greater Cincinnati. A robust engagement process brought numerous other community organizations into each of the assessments performed.

The final result of these efforts has been the identification of the priority health issues in Northern Kentucky. After review of all of the assessment data and information, the steering committee reached consensus (see diagram on page 4) outlining the vision, guiding principles, and Bold Goals, as well as priority health issues and outcomes of focus.

One may note that the assessments resulted in priority health issues and outcomes focused on chronic diseases and the factors that contribute to them. This finding reflects the changes that have occurred in the rates of infectious diseases as a result of public health efforts and medical advances over the past decades. One hundred years ago, most major health threats were infectious diseases associated with poor hygiene, poor sanitation, poor nutrition, poor maternal and infant health, and injuries from unsafe workplaces or hazardous occupations. With population health interventions like immunizations, clean and fluoridated drinking water, better housing and sanitation, safer food sources, and medical advances like antibiotics, infectious diseases declined dramatically. However, at the same time, chronic diseases (e.g., obesity, diabetes, heart disease and cancer) increased, which is why this community health assessment has identified them as priority health issues and outcomes.

While the Community Health Assessment and Community Health Improvement Plan will focus on chronic diseases in Northern Kentucky, the public health and health care system will continue to be vigilant in preventing infectious diseases, controlling outbreaks and protecting against health threats at home and abroad. We must ensure the health system infrastructure (environmental health, epidemiology, health education and medical care) stays in place to maintain the successes we have had with infectious diseases so that we can focus on the additional priorities set forth in the plan.

EXECUTIVE SUMMARY

OUR VISION: Thriving people living healthy lifestyles in a vibrant community.



OVERARCHING GOALS FOR HEALTH IN OUR REGION

By 2020, **95%** of the community will report having a usual place to go for medical care.

By 2020, **70%** of the community will report having excellent or very good health.

PRIORITY HEALTH ISSUE

Healthy Behaviors

- Good Nutrition
- Active Living
- Tobacco-Free Living

PRIORITY HEALTH ISSUE

Health Care Capacity, Access and Delivery

- Health Care Coverage
- Medical Homes
- Heart Care
- Behavioral Health

PRIORITY HEALTH ISSUE

Changes in Policies, Systems & the Environment

- Health Workforce Transformation
- Aligned Advocacy Agendas

PRIORITY HEALTH OUTCOMES

IMPACT ■ Obesity ■ Heart Disease ■ Substance Use Disorders

MAPPING OUR WAY TO HEALTH IN NORTHERN KENTUCKY

Developing a plan to improve the health of Northern Kentucky starts with the use of a proven tool to guide the planning process. **Mobilizing for Action through Planning and Partnerships (MAPP)** is such a tool. It was developed by the National Association of County and City Health Officials to help communities identify and prioritize their health issues and marshal resources to address them. The MAPP tool provides a strategic approach which uses community engagement and collaborative participation in data collection, analysis, planning, implementation and evaluation. The ultimate goal is to achieve optimal health in the community by identifying and using resources wisely, taking into account unique circumstances and needs, and forming effective partnerships for collaborative, strategic action.

The MAPP process has six phases:

1. Organize for Success

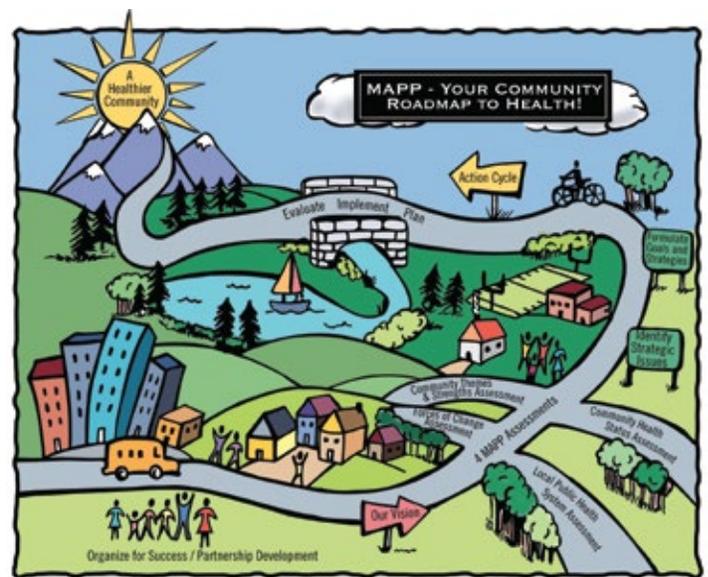
2. Visioning

3. Four Assessments

4. Strategic Issues

5. Goals and Objectives

6. Action Cycle



This **Community Health Assessment for Northern Kentucky** represents the first four phases of the MAPP process, where the strategic issues and priority health areas for Northern Kentucky are identified. It forms the basis for developing the plan to improve the health of Northern Kentucky.

PHASE 1 — ORGANIZING FOR SUCCESS

The Northern Kentucky Health Department has substantial experience with using the MAPP process and therefore was well suited to facilitate this community health improvement planning effort.

However, much has changed in our region since the previous plan was released in 2010:

- The United Way of Greater Cincinnati established Bold Goals for the community and initiated collective impact initiatives to support the goals for health, education and income.
- Vision 2015 (now Skyward) began its community visioning process to create the next plan for the future of Northern Kentucky.
- St. Elizabeth Healthcare started developing its second Community Health Needs Assessment in compliance with the Affordable Care Act requirements.
- Northern Kentucky University obtained funding to establish a Health Innovation Center to prepare health care professionals and develop a local workforce to provide solutions to the population health and wellness challenges of the region and Commonwealth.
- The Northern Kentucky Chamber of Commerce, recognizing the value of a healthy workforce to a vibrant economy, began promoting worksite wellness in addition to advocating for health policies.

Therefore, it made sense for the Health Department to bring together these partners and incorporate these community initiatives into the MAPP process and create an interconnected, aligned plan to improve the health of Northern Kentucky. The Northern Kentucky Health Steering Committee, comprised of the Northern Kentucky Health Department, St. Elizabeth Healthcare, Skyward, the United Way of Greater Cincinnati, Northern Kentucky University, and the Northern Kentucky Chamber of Commerce, was formed by charter in October 2014.

The purpose of this committee is to ensure collaborative participation and community engagement in assessing the health issues of Northern Kentucky and to guide the development and oversee the implementation of an aligned Community Health Improvement Plan for Northern Kentucky.

PHASE 2 — A VISION FOR A HEALTHY NORTHERN KENTUCKY

Through a series of discussions, the steering committee reached consensus on a vision for a healthy Northern Kentucky of *“Thriving people living healthy lifestyles in a vibrant community.”* This vision reflects the collective belief that health is a component of being able to thrive and that there is an integral connection between healthy behaviors, a culture of health and vibrancy of the community.

Thriving people living healthy lifestyles in a vibrant community.



LINKING WITH UNITED WAY'S BOLD GOALS:

The steering committee also agreed that the United Way's Bold Goals for health, education and income are equally important and dependent upon each other for creating a vibrant community. The following were adopted by the steering committee as overarching goals and a foundation for improving health in Northern Kentucky.

By 2020, **95%** of the community will report having a usual place to go for medical care.

By 2020, **70%** of the community will report having excellent or very good health.

PHASE 3 — ASSESSING NORTHERN KENTUCKY'S HEALTH

Population Demographics

Over 400,000 people reside in the Northern Kentucky counties of Boone, Campbell, Grant and Kenton. The region is predominantly non-Hispanic white, 3.6 percent are African American and 3 percent are Hispanic/Latino^[1]. Approximately 19 percent have an Appalachian heritage^[2]. The median age in Northern Kentucky ranges from 35 to 36^[3]. Northern Kentucky has a mix of urban, suburban and rural populations.

Education rates for persons age 25 years or older, taken from 2014 Census estimates, demonstrates the full spectrum of the differences in the populations that the Health Department serves. High school graduate rates range from 82% to 92% (Boone 92%, Campbell 88%, Grant 82%, Kenton 89%), as compared to 83% in Kentucky and 86% in the U.S. Rates for bachelor's degree or higher range from 11% to 30% (Boone 30%, Campbell 28%, Grant 11%, Kenton 29%), as compared to 22% in Kentucky and 29% in the U.S.^[4]

Income rates are higher than Kentucky and the U.S.; thus expected poverty rates are lower. Yet, the rates vary significantly among counties in the district. Median household income ranges from \$46,159 to \$67,225 (Boone \$67,225, Campbell \$54,306, Grant \$46,159, Kenton \$54,270), as compared to \$43,038 in Kentucky and \$53,046 in the U.S.^[4] Poverty rates range from 8.7% to 20.1% (Boone 8.7%, Campbell 14.8%, Grant 20.1%, Kenton 13.4%). The Kentucky poverty rate is reported at 19.1% and the U.S. rate is 14.8%.^[5*] [See Appendix A for above data sources.]

The Process

Improving the health of Northern Kentucky starts with understanding the health issues facing our community. The MAPP process accomplishes this by using four different assessments related to different aspects of community health. These assessments were completed by steering committee member organizations already, and were often incorporated into other assessment processes. While each organization facilitated its respective assessment, steering committee members supported each other's efforts by actively participating in the other members' assessments.

PHASE 3 — ASSESSING NORTHERN KENTUCKY'S HEALTH

1. COMMUNITY HEALTH STATUS ASSESSMENT

United Way of Greater Cincinnati, St. Elizabeth Healthcare, Northern Kentucky Health Department

The Community Health Status Assessment provides a comprehensive understanding of the health of Northern Kentucky. Three assessments conducted by United Way of Greater Cincinnati, St. Elizabeth Healthcare and Northern Kentucky Health Department collectively comprise the Community Health Status Assessment and identify common themes.

United Way of Greater Cincinnati



The Collective Impact on Health process and assessment in Greater Cincinnati and Northern Kentucky resulted in an initiative, called Gen-H: The Health Generation, to achieve better health, better care and smarter spending. Gen-H is an initiative of the regional United Way through The Health Collaborative, a non-profit health improvement organization based in Cincinnati. Northern Kentucky is included in the region covered by both the United Way office and the Gen-H initiative.

The Collective Impact process engaged a steering committee of health and health care leaders and a leadership forum with key leaders representing many sectors of the community, including the members of the Northern Kentucky Health Steering Committee. This process used a multi-variable predictive modeling software called ReThink Health to test initiatives and outcomes. The model utilized local public health and demographic data to reflect the region's unique population and health profile. This process helped the community select priorities for a common agenda for health in the region. These priorities focus on achieving the "triple aim" of the Affordable Care Act for the region — better health, better care and lower cost — through three action areas of healthy behaviors, care delivery, and finance and payment. The priorities in Gen-H align to both United Way Bold Goals for health.

The three priority action areas identified in Gen-H are:

- Healthy behaviors
- Care delivery
- Finance and payment

*The Collective Impact on Health recognized the importance of **health equity** in improving health in the region. This value was also designated as a strategic issue by the Northern Kentucky Health Steering Committee.*

PHASE 3 — ASSESSING NORTHERN KENTUCKY'S HEALTH

St. Elizabeth Healthcare



The Affordable Care Act, enacted on March 23, 2010, added new requirements that non-profit hospitals must satisfy in order to retain their 501(c)(3) status. One of those requirements is to conduct a community health needs assessment and adopt an implementation strategy at least once every three years. The MAPP Community Health Status Assessment and the IRS 990 definition of a Community Health Needs Assessment are very similar in intent and fulfill the same function. St. Elizabeth Healthcare engaged many organizations throughout Northern Kentucky in the completion of the Community Health Needs Assessment for Northern Kentucky. Assessment documents are included for each location: ([Edgewood](#), [Florence](#), [Ft. Thomas](#) and [Grant County](#))

The top three priorities identified in St. Elizabeth Healthcare Community Needs Assessment for Northern Kentucky are:

- Mental health
- Drug addiction treatment
- Heart disease

Northern Kentucky Health Department



Northern Kentucky Health Department used a number of data sources to complete a [data report](#) on the current health status of the community, including trends since 2000.

Tobacco usage rates and unhealthy weight continue to be areas of focus since they are major contributors to chronic disease and associated mortality rates. Cancer and heart disease are the top two causes of death in Northern Kentucky. A lack of physical activity, poor nutrition choices, smoking, exposure to secondhand smoke, and limited access to fresh fruits and vegetables contribute to these chronic illnesses, in addition to a built environment that encourages driving over walking and biking.

The heroin epidemic in Northern Kentucky has increased rates of unintentional deaths and hepatitis C rates, in addition to enhancing the risk for future increases in HIV transmissions. Northern Kentucky's hepatitis C rates are 19 times higher than U.S. rates and 2 times higher than Kentucky rates. Risk factors include sharing needles and drug paraphernalia. Contributing factors for drug usage include poor mental health, access to drugs, inability to cope with stress, and lack of adequate mental health services.

PHASE 3 — ASSESSING NORTHERN KENTUCKY'S HEALTH

Risky behaviors by pregnant women, including substance abuse and tobacco use, impact birth outcomes and put children in the home at risk.

Access to care and uninsured rates have improved locally with statewide implementation of the Affordable Care Act, but will need to be closely monitored with the potential for further policy change at the state level.

This report was shared with the steering committee and was posted to the Health Department's website for public comment. A health equity assessment and report will be completed in the upcoming fiscal year, and be shared with the steering committee and community. The health equity assessment will attempt to identify health disparities and high health-risk populations within Northern Kentucky, and better inform future interventions. In the interim, an assessment of health disparities was performed in 2013 (see Appendix B) and will be addressed in the Community Health Improvement Plan.

Northern Kentucky Health Department's data report identified the priority health issues to be addressed in Northern Kentucky as:

- Chronic disease
- Unhealthy behaviors and other risk factors
- Mental illness and substance use disorders

PHASE 3 — ASSESSING NORTHERN KENTUCKY'S HEALTH

2. LOCAL PUBLIC HEALTH SYSTEM ASSESSMENT

Northern Kentucky Health Department



The purpose of a Local Public Health System Assessment is to measure how well organizations involved in protecting or improving the health of the community (the local public health system) work together to deliver the 10 Essential Public Health Services. It determines the current activities, competencies and capacities of the local public health system, and compares that to optimal essential service delivery. The Northern Kentucky Health Department convened 11 meetings with members of the local public health system to assess the community's provision of the 10 Essential Public Health Services and then identify 3 priority areas for improvement. The National Public Health Performance Standards Program assessment and planning tool was used for this assessment. Strengths identified in the assessment of the local public health system include diagnosis and investigation of problems, development of policies and plans, as well as enforcement of laws and regulations.

Northern Kentucky Health Department's Local Public Health System Assessment identified the following priority areas for improvement:

- Monitor health status
- Inform, educate and empower people
- Research for new insights and solutions

*Two values identified in the Local Public Health System Assessment were considered key to achieving the shared vision for a healthy Northern Kentucky: **Data Focused** and **Communication**. The Northern Kentucky Health Steering Committee included these two values as strategic issues.*

PHASE 3 — ASSESSING NORTHERN KENTUCKY'S HEALTH

3. COMMUNITY THEMES AND STRENGTHS



The Community Themes and Strengths Assessment identifies assets in the community and issues that are important to community members. Skyward's myNKY plan drew on an extensive public input process designed to create a shared vision for Northern Kentucky's next five years. Northern Kentucky Health Steering Committee members served on the myNKY leadership team. The myNKY plan identified four goals in the areas of health, jobs, education and vibrancy that represent the community's identified themes and the strengths of Northern Kentucky. The health goal is that Northern Kentucky will have a culture of good health in which residents lead healthy lives. The plan also emphasizes health equity for all in Northern Kentucky.

Skyward's priority health themes in the myNKY plan are:

- Healthy behaviors
- Smoking and secondhand smoke
- Education, training and applied research programs to improve population health
- Mental health and substance abuse services

*The myNKY plan intentionally incorporated the value of **health equity**, which was identified by the Northern Kentucky Health Steering Committee as a strategic issue.*

PHASE 3 — ASSESSING NORTHERN KENTUCKY'S HEALTH

4. FORCES OF CHANGE ASSESSMENT

Northern Kentucky Chamber of Commerce



The Forces of Change Assessment identifies influences that may positively or negatively affect the context in which the community and its public health system operate. The Northern Kentucky Chamber of Commerce compiled the Forces of Change Assessment from a number of forums, presentations and documents, including presentations by business and government leaders, written reports from elected officials and the Chamber's annual economic indicators report. Additional sources of information came from Grant County leadership. Collectively, this information helps develop agendas for policy change around topics such as education, health and economic development.

Five themes identified by the Chamber of Commerce in the Forces of Change Assessment are:

- Infrastructure
- Service delivery/regionalism
- Workforce and economic development
- Health
- Education

*The Forces of Change Assessment identified key issues for policy change, which underlies the importance of **advocacy** in improving the health of Northern Kentucky. The Northern Kentucky Health Steering Committee included **advocacy** as a strategic issue.*

PHASE 4 — STRATEGIC ISSUES TO GUIDING PRINCIPLES

As the Northern Kentucky Health Steering Committee members participated in each other's assessments and initiatives, a number of strategic issues became evident. Strategic issues are the fundamental choices or critical challenges that must be addressed for Northern Kentucky to achieve its vision with regards to health. They reflect the results of all of the assessments and reveal what is truly important from the vast amount of information. They help us be proactive in positioning ourselves for the future, rather than simply reacting to health problems.

Through analyzing, merging and combining results from the multiple assessments outlined in this report, the steering committee identified four strategic issues to address in order to improve the health of Northern Kentucky:

1. How do we create alignment of efforts in order to ensure that all people in Northern Kentucky reach their fullest health potential regardless of race, income, education and other factors?
2. How can we ensure data is used to inform decision making, actions and evaluation of efforts?
3. How can we best reach the community to provide information that is relevant and understandable by all?
4. How can we ensure that we work together to advocate for changes in policies, systems and the environment in which we live that positively impact the health of the community?

PHASE 4 — STRATEGIC ISSUES TO GUIDING PRINCIPLES

Based on these issues, the steering committee adopted **four guiding principles** as common themes to be woven throughout the process:

1. Health Equity

All health issues and actions will be guided by the principle that everyone deserves a fair chance to lead a healthy life and no one should be denied this chance because of who he/she is or his/her socio-economic opportunities.



2. Data Focused

All health issues and actions will be guided by the appropriate use of health data, including community assessments, identifying priorities and evaluation of actions. Actions will be based on health research and established best practices.

3. Communication

All health issues and actions will be guided by clearly conveying information in ways that are readily received and understood by everyone in the community.

4. Advocacy

All health issues and actions will be guided by advocacy for strengthened infrastructure and changes in policy that improve health and safety where we live, work, learn and play.



PUTTING IT ALL TOGETHER AND NEXT STEPS

The diagram in the Executive Summary provides an overview of the results of this Community Health Assessment. It shows the vision, guiding principles, the Bold Goals for Health and the priority health issues that emerged from the MAPP assessment process. This diagram and the efforts that have gone into identifying the issues listed are the foundation for the [Community Health Improvement Plan](#) for Northern Kentucky, found in a separate report.

It should be noted that the Northern Kentucky Health Steering Committee adopted the United Way's Bold Goals for health as the overarching goals to reflect health improvement in Northern Kentucky. The steering committee also recognized that the Bold Goals for education and income are important and interdependent with health, relying upon each other for creating a vibrant community. Although there are other community partners working on initiatives to improve education and income, where connectivity exists, the organizations of the steering committee will support and collaborate with these partners as well.

The diagram reflects the connection between the priority health issues and collectively their impact on the priority health outcomes. Creating environments which promote health through policy and systems change helps support healthy behaviors. Policy and systems change also impacts access to and effective delivery of health care services. In turn, healthy behaviors and access to and the availability of health care services impacts health outcomes in the population. If these priority health issues can be successfully addressed, we as a community can not only achieve the Bold Goals for health, but also the priority health outcomes.

This Community Health Assessment starts the process of improving the health of Northern Kentucky by helping us all understand our health issues and challenges. However, understanding our health issues is not enough. Community partners must collaborate in the development of a health improvement plan and the implementation of an action plan. A list of community assets and resources to address health issues can be found in Appendix C.

PUTTING IT ALL TOGETHER AND NEXT STEPS

Northern Kentucky University



Moreover, we must ensure that we evaluate our progress along the way. Northern Kentucky University will be a key player in developing an evaluation plan. Evaluation and reporting are crucial to ensuring that community partners move forward in a coordinated, collaborative manner to achieve goals around health in Northern Kentucky.

The evaluation plan will include three elements:

1. **Data collection and analysis:** Analyses will be used to determine the effectiveness of community interventions and suggest possible improvements or revisions.
2. **Process measures:** Progress on the implementation of the action plan will be tracked and evaluated.
3. **Reporting to the community:** A process will be developed to keep community partners and the general public informed on progress based on outcome and process measures.

In addition to leading the evaluation efforts, Northern Kentucky University obtained funding to establish a Health Innovation Center to prepare health care professionals and develop a local workforce that will provide solutions to the population health and wellness challenges of the region and Commonwealth.

The people and agencies who participated in the assessments and initiatives that formed the basis for this Community Health Assessment are listed in Appendix B. This listing reflects the community engagement and collaborative participation of Northern Kentucky in the MAPP process.



APPENDIX A

POPULATION DEMOGRAPHICS

DATA SOURCES

<i>References:</i>				
	Data	Year	Source Name	Source Link
[1]	Population	2014 Estimates	Kentucky State Data Center	http://ksdc.louisville.edu
[2]	Appalachian Heritage	2013	Greater Cincinnati Health Status Survey	http://www.oasisdataarchive.org/
[3]	Median Age	2014 Estimates	Kentucky State Data Center	http://ksdc.louisville.edu
[4]	Education/Income	2014 Estimates	US Census	http://www.census.gov/quickfacts
[5*]	Poverty	2014 Estimates	US Census	http://www.census.gov/quickfacts * Sampling data may produce errors making geographic comparisons inconclusive

APPENDIX B

ASSESSING HEALTH DISPARITIES IN NORTHERN KENTUCKY

SUMMARY OF NORTHERN KENTUCKY DIVERSITY ASSESSMENT

In the summer of 2013, the Northern Kentucky Health Department performed a diversity assessment of Northern Kentucky. Although cultural diversity is not defined by race alone, racial diversity in Northern Kentucky has risen steadily since 2000. While the population as a whole is primarily white (90%), the population of the district served by Northern Kentucky Health Department has many residents identifying as black, Asian, Hispanic and other. Specific racial diversity in the Northern Kentucky Health Department's district is shown below.

	Population by Race (% of population)					
	White	Black	Asian	Other	Hispanic	Total Diverse
Boone	88.5	3.0	2.6	1.8	4.0	11.5
Campbell	92.4	3.0	0.9	1.8	1.8	7.6
Grant	94.5	0.9	0.4	1.6	2.5	5.5
Kenton	89.2	4.8	1.1	2.0	2.9	10.8
District	90.0	3.6	1.5	1.0	3.0	10.0

Source: Kentucky State Data Center, US Census, 2014 estimates, <http://www.ksdc.louisville.edu/data-downloads/estimates/>

Data for this assessment was collected by four means: (1) an analysis of phone calls made by the Northern Kentucky Health Department to a language interpretation service; (2) interviews with Health Department staff; (3) interviews with representatives of community organizations; and (4) surveys with members of various diverse populations.

- (1) Findings indicate that the majority of calls requiring interpretation were for Spanish speaking individuals (71.5%). Other languages include: Somali (5.2%), Chin (4.8%), Burmese (4.3%) and French (3.0%).
- (2) Health Department staff interviews indicated that diverse populations lack basic, general health care due primarily to hesitancy and fear of health care and health professionals.

APPENDIX B

ASSESSING HEALTH DISPARITIES IN NORTHERN KENTUCKY

- (3) Consistent with this, community organizations agreed that access to general health care is the largest unmet need due to clients being undocumented. From interactions with clients, these organizations identified the most commonly perceived barriers to accessing health care as language, cost/lack of insurance and transportation. The most common health problems observed by these organizations were diabetes (with associated problems like obesity, high blood pressure and heart disease), mental health and dental/oral health.
- (4) When needing health care, the diverse population survey respondents reported using emergency care, urgent clinics or traditional medicine at home. The greatest barriers identified by this group to receiving health care are lack of health insurance and the inability to fill prescriptions, likely due to being undocumented and needing to pay out of pocket for health care and pharmacy items.

Recommendations of this report to be included in the Community Health Improvement Plan are:

- Improve data collection methods to be more comprehensive than the current system
- Find ways to better collaborate with other agencies in the community so efforts can be maximized
- Improve care through community outreach and education
- Expand beyond the scope of this project (perform a deeper health equity analysis and report)

Many of these recommendations are directly addressed in the Community Health Improvement Plan. See Appendix B of the Community Health Improvement Plan for a summary of the strategies that are associated with the recommendations from this diversity assessment.

APPENDIX B

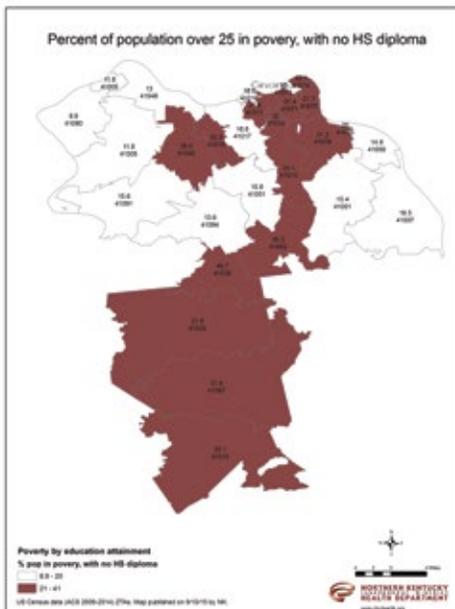
ASSESSING HEALTH DISPARITIES IN NORTHERN KENTUCKY

In analyzing this assessment, some social determinants of health can be implied from the resulting information and recommendations contained within the assessment. Behavioral risk factors include cultural beliefs of practicing traditional medicine in the home in lieu of seeking Western medicine. Diet and exercise habits are known contributors to health conditions that lead to diabetes. The socioeconomic factors such as educational attainment, low income/unemployment and language barriers further exacerbate their ability to afford healthcare for themselves and their families.

Commonly, many of Northern Kentucky's racially diverse populations live in close proximity to each other, and social interactions tend to be exclusive within their respective culture. The social status of diverse populations can be a barrier if people are not well connected to the larger population in ways that provide support and in ways that the community can share information with them.

For more information, or a complete copy of the Northern Kentucky Diversity Assessment, please contact the Northern Kentucky Health Department at **859.341.4264**.

Additional data:



According to Community Commons Vulnerable Populations, “researchers have identified that educational attainment and poverty are two factors that can have significant influence on health. When organizations focus their work on improving these two disparities, health outcomes can improve for everyone.” Northern Kentucky Health Department utilized the US Census educational attainment and poverty data to create the following maps outlining Northern Kentucky ZIP codes with a high prevalence of vulnerable populations. In this case, vulnerable populations are defined as population over 25 with less than high school education who live in poverty.

This information will be utilized in determining implementation strategies by location for outlined initiatives in the Community Health Improvement Plan.

APPENDIX C

NORTHERN KENTUCKY ASSETS AND RESOURCES

The following is a list of local and regional community assets and resources that could be approached to work on this Community Health Improvement Plan and advance the health of the Northern Kentucky community.

Healthy Behaviors

Goal 1: Good Nutrition	Child care centers Cities Community/neighborhood associations County cooperation extension centers Farmers' markets	Health centers/physicians' offices Healthy food retail sites Local/regional food policy councils Northern Kentucky Health Department Parks and recreation centers	Schools St. Elizabeth Healthcare Worksites
Goal 2: Active Living	Aquatics centers/public pools Area planning and zoning Child care centers Community/neighborhood associations and groups	Economic development agencies Fitness centers Northern Kentucky Health Department Parks and recreation centers Schools	St. Elizabeth Healthcare Worksites
Goal 3: Tobacco-free living	Community/neighborhood associations and groups Health centers/physicians' offices Media outlets Northern Kentucky Health Department	Tobacco-Free Northern Kentucky coalition Obstetrics/Gynecology professionals Public housing agencies and their residents Schools St. Elizabeth Healthcare	Worksites

Health Care Capacity, Access and Delivery

Goal 4: Health Care Coverage	Northern Kentucky Community Action Commission Northern Kentucky Health Department St. Elizabeth Healthcare
Goal 5: Medical Homes	HealthPoint Family Care Northern Kentucky Health Department St. Elizabeth Healthcare St. Elizabeth Physicians

APPENDIX C NORTHERN KENTUCKY ASSETS AND RESOURCES

<p>Goal 6: Heart Care</p>	<p>EMS Health centers/physicians' offices Northern Kentucky Health Department Patients Physicians' associations</p>	<p>Schools St. Elizabeth Healthcare Universities/colleges Worksites</p>	
<p>Goal 7: Behavioral Health Mental Health</p>	<p>County officials Health centers/other physicians' offices Local primary care physicians' offices Mental health agencies Northern Kentucky Health Department</p>	<p>Schools Social service agencies St. Elizabeth Healthcare</p>	
<p>Goal 8: Behavioral Health Substance Use Disorders</p>	<p>Health centers/other physicians' offices Media outlets Mental health agencies Northern Kentucky Health Department</p>	<p>Northern Kentucky Heroin Impact Response Task Force Northern Kentucky Office of Drug Control Policy St. Elizabeth Healthcare</p>	<p>Substance use treatment centers (in-patient and out-patient)</p>

Changes in Policies, Systems and the Environment

<p>Goal 9: Health Workforce Transformation</p>	<p>Cities Northern Kentucky Area Development District Northern Kentucky Health Department Northern Kentucky University</p>	<p>Regional data experts St. Elizabeth Healthcare</p>
<p>Goal 10: Aligned Advocacy Agendas</p>	<p>Northern Kentucky Health Steering Committee</p>	

APPENDIX D

ASSESSMENT DOCUMENTS

Northern Kentucky Community Health Assessment:

1. Community Health Status Assessments:
 - a. Collective Impact on Health (Community Health Needs Assessment)
 - b. St. Elizabeth Healthcare (Community Health Needs Assessment) - Edgewood; Florence; Ft. Thomas; Grant County
 - c. Northern Kentucky Health Department Data Report
2. Local Public Health System Assessment
3. myNKY (Community Themes and Strengths Assessment)
4. Forces of Change Assessment

Assessment	Methods	Date Data Collected	Responsible Party	Data Sources	Links to Detailed Reports
Collective Impact on Health (Community Health Needs Assessment)	Interviews, community focus groups, online and paper surveys, research of secondary data sources, ReThink Health (multi-variable predictive modeling tool)	September 2014 through March 2015	United Way/The Health Collaborative	<p>Primary sources: public health officials, members of the community.</p> <p>Secondary sources: County Health Rankings and other numerous sources — see pp. 25-27 in the 2016 CHNA.</p>	2016 CHNA
St. Elizabeth Healthcare (Community Health Needs Assessment)	Online survey, phone calls, one-on-one meetings, presentations, research of secondary data sources.	February-July 2015	St. Elizabeth Healthcare	<p>Primary sources: Persons representing the broad interests of the community, including those with expertise in public health: health departments, local governments/civic agencies, healthcare providers, community based social service agencies and area school districts.</p> <p>Secondary sources: US Census Bureau, Kentucky Health Facts, County Health Rankings, America's Health Rankings</p>	Edgewood, Florence, Ft. Thomas, Grant County

APPENDIX D

ASSESSMENT DOCUMENTS

Assessment	Methods	Date Data Collected	Responsible Party	Data Sources	Links to Detailed Reports
Northern Kentucky Health Data Report	Research of secondary data; primary data from Northern Kentucky Health Department Epidemiology.	January 2015-February 2016	Northern Kentucky Health Department	Secondary Sources: US Census, Office of Vital Statistics, KY Health Facts, County Health Rankings, Greater Cincinnati Community Health Status Survey, KY Division of Water, US EPA, Kentucky Cancer Registry, Healthy People 2020, Northern Kentucky Health Department Epidemiology reports.	<u>Northern Kentucky Health Department Data Report</u>
Local Public Health System Assessment	Primary data from community meetings using the CDC's National Public Health Performance Standards Program.	November 2014-February 2015	Northern Kentucky Health Department	Primary Sources: Broad community representation including: social service agencies, education, planning and zoning, federally qualified health center, local government, civic agencies, water and sanitation districts, emergency preparation, healthcare, county solid waste, health insurance companies, mental health agency, foundations, etc. (see Appendix E).	<u>Local Public Health System</u>
myNKY (Community themes and strengths assessment)	Primary data from an online interactive game, challenge questions and several polls that produced more than 15,000 community-generated ideas.	January to June 2014	Skyward	Primary Sources: Residents who participated in myNKY's interactive, online game, challenge questions and polls.	<u>Community Themes and Strengths</u>
Forces of Change Assessment	Primary data from community forums, presentations and documents, annual economic indicators report	July-December 2014	Northern Kentucky Chamber of Commerce	Primary Sources: Business and government leaders.	<u>Forces of Change</u>

APPENDIX E PARTICIPANTS

Due to the generous participation and support from a variety of organizations and individuals living and working in Northern Kentucky and the Greater Cincinnati region, a comprehensive assessment has been performed and Community Health Improvement Plan has been created. Organizations are listed here to show our appreciation for their participation. Thank you for sharing your expertise, perspective and commitment to help improve health in Northern Kentucky and the Greater Cincinnati region. We look forward to partnering with you and others to achieve the plan’s goals.

Organization	Assessments					Improvement Plans		
	Collective Impact on Health (Steering Committee & Leadership Forum)	Forces of Change	Local Public Health System	myNKY (Leadership Team)	St. Elizabeth Healthcare Community Health Needs	myNKY (Health Work Group)	Gen-H (Health Work Group)	Community Health Improvement Plan (NKY Health Steering Committee)
Accenture				X				
African American Chamber of Commerce	X							
Anthem Blue Cross/Blue Shield, Mason	X							
Anthem Blue Cross/Blue Shield, Medicaid			X		X			
Business Benefits					X			
CareSource & Humana					X			
C-Forward	X							
Champion Window and Patio Room Co.	X							
Cincinnati Business Committee	X							
Cincinnati USA Regional Chamber	X							
Dinsmore and Shohl LLP	X							
Dorothy Grace Consulting	X							
Earthineer				X				
E.W. Scripps Company				X				
Fifth Third Bank				X				
Frisch’s Restaurants, Inc.	X							
GE Aviation	X						X	
Grant County Chamber of Commerce		X						

Businesses/For Profit/Business-Related

* Members of Northern Kentucky Health Steering Committee

APPENDIX E PARTICIPANTS

Organization	Assessments					Improvement Plans		
	Collective Impact on Health (Steering Committee & Leadership Forum)	Forces of Change	Local Public Health System	myNKY (Leadership Team)	St. Elizabeth Healthcare Community Health Needs	myNKY (Health Work Group)	Gen-H (Health Work Group)	Community Health Improvement Plan (NKY Health Steering Committee)
Hispanic Chamber of Commerce	X							
Horan	X					X		
Humana	X							
Kenton County Airport Board (CVG-Greater Cincinnati/Northern Kentucky International Airport)				X				
Kearney & Kearney, LPA	X							
Messer Construction Co.	X							
Multi-Craft, Inc.				X				
Northern Kentucky Chamber of Commerce*		X			X			X
Passport Health Plan			X					
PNC Bank	X							
PricewaterhouseCoopers LLP	X							
Proctor & Gamble	X							
Taft Law						X		
Toyota Motor Engineering and Manufacturing North America, Inc.				X				
Tufco Flooring				X				
UnitedHealthcare	X						X	
USI Insurance	X							
Viable Synergy						X		
Warner Preparedness Services, LLC			X					
Wellcare Health Plans, Inc.			X					
Western and Southern Financial Group	X							
YMCA of Greater Cincinnati							X	
Ziegler & Schneider PSC				X				

Businesses/For Profit/Business-Related

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APPENDIX E

PARTICIPANTS

	Organization	Assessments				Improvement Plans		
		Collective Impact on Health (Steering Committee & Leadership Forum)	Forces of Change	Local Public Health System	myNKY (Leadership Team)	St. Elizabeth Healthcare Community Health Needs	myNKY (Health Work Group)	Gen-H (Health Work Group)
Governmental Agencies	Boone County Detention Center					X		
	Boone County Solid Waste			X				
	Bullock Pen Water District			X				
	Butler County Health Department	X						
	Campbell County Detention Center					X		
	Campbell County Fiscal Court			X		X		
	Cincinnati Health Department	X						X
	City of Covington	X		X				
	City of Edgewood					X		
	City of Fort Mitchell			X				
	City of Fort Wright					X		
	City of Independence					X		
	Clermont County Public Health	X						X
	Dearborn County Health Department					X		
	Grant County Parks & Recreation						X	
	Grant County Sanitary Sewer District			X				
	Hamilton County Board of Commissioners	X						
	Hamilton County Public Health	X						X
	Kenton County Attorney's Office				X			
	Kenton County Detention Center					X		
Kenton County Fiscal Court		X			X			
Kentucky Department for Public Health			X					
Kentucky Office for the Blind					X			
Northern Kentucky Area Development District			X		X			

APPENDIX E PARTICIPANTS

		Assessments				Improvement Plans			
Organization		Collective Impact on Health (Steering Committee & Leadership Forum)	Forces of Change	Local Public Health System	myNKY (Leadership Team)	St. Elizabeth Healthcare Community Health Needs	myNKY (Health Work Group)	Gen-H (Health Work Group)	Community Health Improvement Plan (NKY Health Steering Committee)
Governmental Agencies	Northern Kentucky Health Department*	X		X	X	X	X	X	X
	Northern Kentucky Water District			X					
	Planning and Development Services of Kenton County (PDS)			X	X				
	Sanitation District No. 1			X					
	Three Rivers District Health Department					X			
	Transit Authority of Northern Kentucky				X				
	Warren County Health Department	X							
Education	Bellevue Independent Schools					X			
	Boone County Schools			X		X			
	Campbell County Schools					X			
	Caywood Elementary School					X			
	Cincinnati Public Schools	X						X	
	Cincinnati State Technical & Community College	X							
	Collins Elementary School					X			
	Covington Independent Public Schools					X			
	Dayton High School					X			
	Erlanger-Elsmere Schools			X		X			
	Gateway Community and Technical College							X	
	Grant County Middle School					X			
	Grant County Schools					X			
	Kenton County School District			X	X	X			
	KET						X		
	Lawrenceburg Community Schools					X			
	Lloyd Memorial High School					X			

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Organization		Collective Impact on Health (Steering Committee & Leadership Forum)	Forces of Change	Local Public Health System	myNKY (Leadership Team)	St. Elizabeth Healthcare Community Health Needs	myNKY (Health Work Group)	Gen-H (Health Work Group)	Community Health Improvement Plan (NKY Health Steering Committee)
Education	Northern Kentucky University*	X		X	X	X			X
	Ockerman Middle School					X			
	Pendleton County High School					X			
	Piner Elementary School					X			
	Reiley Elementary School					X			
	Ryle High School					X			
	Thomas More College			X					
	University of Cincinnati	X							
	University of Cincinnati College of Medicine	X						X	
	University of Cincinnati College of Nursing	X							
Economic Development	Avondale Comprehensive Development Corporation							X	
	Local Initiatives Support Corporations	X							
	Renaissance Covington				X				
	Skyward*	X		X	X			X	X
	UpTech, inc				X				
Health care	CareSource	X						X	
	Cincinnati Children’s Hospital Medical Center	X					X	X	
	City Heights Health Center					X			
	Crossroad Health Center	X							
	HealthPoint Family Care			X	X	X	X		
	Mercy Health	X							
	Northern Kentucky Dental Association						X		
	Pediatric Associates						X		
	St. Elizabeth Healthcare*	X		X		X	X		X

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APPENDIX E PARTICIPANTS

		Assessments				Improvement Plans			
Organization		Collective Impact on Health (Steering Committee & Leadership Forum)	Forces of Change	Local Public Health System	myNKY (Leadership Team)	St. Elizabeth Healthcare Community Health Needs	myNKY (Health Work Group)	Gen-H (Health Work Group)	Community Health Improvement Plan (NKY Health Steering Committee)
Health care	St. Elizabeth Physicians			X			X		
	The Christ Hospital Health Network	X							
	The Mayerson Center (CCHMC)	X							
	TriHealth	X						X	
	UC Health/UC Health Lindner Center of Hope	X							
	Visiting Nurse Association of Greater Cincinnati and Northern Kentucky	X							
Philanthropy	Deaconess Associations Foundation	X							
	Foundation for a Healthy Kentucky	X							
	Carol Ann and Ralph V. Haile, Jr./US Bank Foundation				X				
	Interact for Health	X		X		X	X	X	
	R.C. Durr Foundation	X							
	SC Ministry Foundation	X							
	The Butler Foundation					X			
	The Greater Cincinnati Foundation	X			X			X	
Not-for-Profit and Social Services	Academy of Medicine of Cincinnati	X							
	Apprisen					X			
	Avondale Community Council	X							
	Be Concerned					X			
	Brighton Center	X		X		X			
	Catholic Charities					X			
	Center for Closing the Health Gap	X						X	
	Center for Great Neighborhoods of Covington			X					
	Children, Inc.			X	X	X			
	Children's Home of Northern Kentucky					X	X		

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	Collective Impact on Health (Steering Committee & Leadership Forum)	Forces of Change	Local Public Health System	myNKY (Leadership Team)	St. Elizabeth Healthcare Community Health Needs	myNKY (Health Work Group)	Gen-H (Health Work Group)	Community Health Improvement Plan (NKY Health Steering Committee)
Children’s Law Center, Inc.					X			
Cincinnati Veterans’ Administration					X			
Council on Aging of Southwestern Ohio	X							
Cradle Cincinnati	X							
Design Impact	X							
Faith Community Pharmacy					X			
Freestore Foodbank						X		
Greater Cincinnati Urban League	X							
Green Umbrella		X						
Health Care Access Now	X							
Health Careers Collaborative	X							
Health Policy Institute of Ohio	X							
Hosea House					X			
ITN Greater Cincinnati					X			
Jacc, Inc.					X			
League of United Latin American Citizens							X	
Life Learning Center					X			
Life Point Solutions					X			
North Central Area Health Education Council					X			
Northern Kentucky Agency on Substance Abuse Policy — Prevention Alliance			X					
Northern Kentucky Community Action Commission			X					
Northern Kentucky Heroin Impact Response Task Force			X					

Not-for-Profit and Social Services

* Members of Northern Kentucky Health Steering Committee

APPENDIX E PARTICIPANTS

Organization	Assessments					Improvement Plans		
	Collective Impact on Health (Steering Committee & Leadership Forum)	Forces of Change	Local Public Health System	myNKY (Leadership Team)	St. Elizabeth Healthcare Community Health Needs	myNKY (Health Work Group)	Gen-H (Health Work Group)	Community Health Improvement Plan (NKY Health Steering Committee)
Northern Kentucky University Nurse Advocacy Center for the Underserved					X			
NorthKey Community Care	X		X			X		
OASIS, Inc.				X				
Redwood			X					
Rosedale Green					X			
Santa Maria Community Services	X							
Senior Services of Northern Kentucky						X		
The Carnegie				X				
The Children's Home of Cincinnati	X							
The Health Collaborative	X		X			X		
Transitions			X		X	X		
United Way of Greater Cincinnati*	X		X	X		X	X	X
Universal Health Care Action Network, Ohio	X							
Urban Appalachian Community Council							X	
Welcome House					X			
Word of Deliverance Ministries for the World, Inc.	X							

Not-for-Profit and Social Services

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