



# PARKVIEW HEALTH



## 2019 Community Health Needs Assessment Parkview Health, System-Wide



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### Indiana Partnership for Healthy Communities

The Indiana Partnership for Healthy Communities (IN-PHC) is a partnership between **the Polis Center at IUPUI** (Polis) and the **Indiana University Richard M. Fairbanks School of Public Health** (FSPH). Formed with support from the Indiana Clinical and Translational Sciences Institute (I-CTSI), its mission is to help build the capacity of hospitals, local health departments, and community-based organizations to improve the health of Indiana communities. IN-PHC does this by translating knowledge generated by the academy and by communities into improved and sustainable processes for understanding and effecting community health.

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## Executive Summary

To assist Parkview Health in completing its 2019 community health needs assessment (CHNA), the Polis Center and the Richard M. Fairbanks School of Public Health designed and conducted both primary and secondary data collection and analysis activities for the seven counties in northeast Indiana that compose Parkview's primary service area, including: Allen, Huntington, Kosciusko, Lagrange, Noble, Wabash, and Whitley.

The CHNA team assessed the health needs of the Parkview Health region as a whole, as well as the needs of the individual counties. A preliminary list of community health needs was identified using secondary data from the Healthy Communities Institute database as well as other state and national data sources. This list of community health needs was augmented with local input collected via a community phone survey and a local provider survey.

The Parkview Health service area includes a relatively large Hispanic population in Kosciusko and Noble Counties and Amish population in LaGrange County. Because Hispanic and Amish populations are often underrepresented in online and telephone surveys, a focus group was conducted with the Hispanic community and a paper survey was conducted in the Amish Community to ensure that the community health concerns of these populations were captured.

The assessment team objectively prioritized the identified community health needs using the Hanlon Basic Priority Rating Method recommended by the National Association of County and City Health Officials (*Guide-to-Prioritization-Techniques.pdf*, n.d.). This method rates health concerns based on: 1) size of the health problem, 2) seriousness of the health problem, and 3) availability of evidence-based interventions.

The top six health concerns identified for the Parkview Health System are cardiovascular disease, diabetes, obesity, drug and alcohol use and addiction, mental health, and Alzheimer's disease.

As the next step in selecting health priorities for its community health improvement planning efforts, the CHNA team recommended that Parkview screen the identified health concerns based on feasibility of available public health interventions. Feasibility includes the suitability and community acceptability, availability of resources, cost-benefits ratio, and legality of potential interventions. Based on a consideration of these factors, Parkview Health selected **substance abuse** and **mental health** as its top community health priorities for 2020-2022.

## Organization of the Report

This CHNA report was designed to support Parkview Health's community benefit programming efforts and to fulfill its IRS reporting requirements. As such, it provides a description of the following:

- 1. Description of Service Area** (The hospital primary service area)
- 2. The Community** (Socio-demographics of the populations residing in the primary service area and availability of social services relevant to public health)
- 3. Data Sources** (Primary and secondary data sources used to conduct the CHNA)
- 4. Identification of Community Health Needs** (The process for identifying community health needs and social determinants of health via primary and secondary data analysis)
- 5. Ranking of Identified Community Health Needs** (The process and criteria used for scoring and ranking the identified community health needs and the results (the top ranked needs). The full set of indicator rankings is included in **Appendix B: Scoring of Community Health Needs.**)
- 6. Priority Selection** (Priorities selected by Parkview Health)
- 7. Data Limitations** (Data limitations and information gaps)

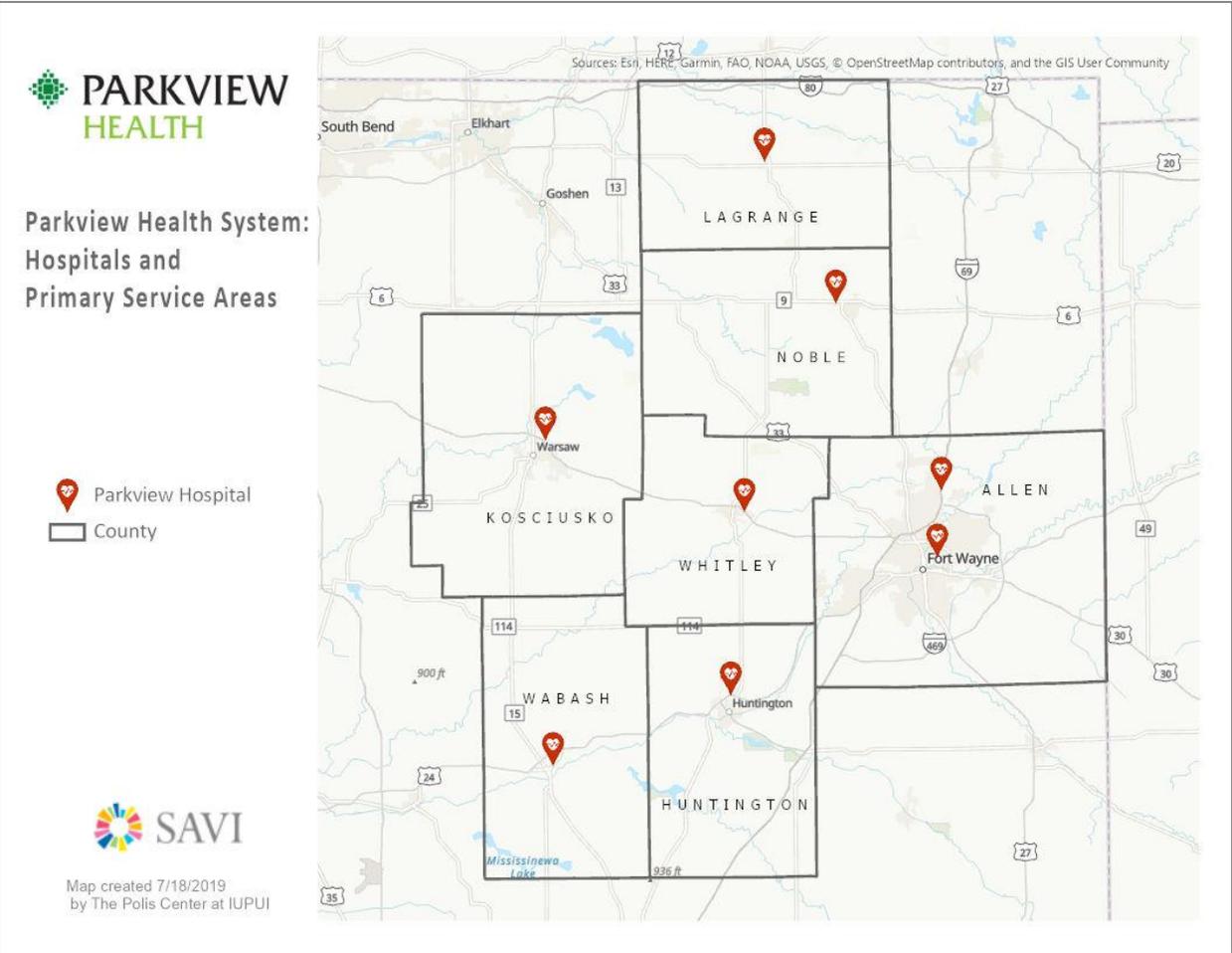
# INTRODUCTION

The IRS requires all nonprofit hospitals to complete a Community Health Needs Assessment (CHNA) every three years. Parkview Health partnered with The Polis Center at IUPUI (Polis) and the Indiana University Richard M. Fairbanks School of Public Health (FSPH) to design and conduct a 2019 CHNA for each of its seven hospitals. This report provides an overview of the CHNA processes and methods used to identify and prioritize significant health needs of the community served by the Parkview Health region.

## DESCRIPTION OF SERVICE AREA

The Parkview Health system includes Allen, Huntington, Kosciusko, Lagrange, Noble, Wabash, and Whitley Counties in Northeast Indiana. Parkview Hospital facilities are located in six of these seven counties (*Figure 1*).

**Figure 1: Primary Service Area of Parkview Hospitals**



# THE COMMUNITY

## DEMOGRAPHICS

### Population Size

The seven-county Parkview Health service area comprises about 10% of the total population in Indiana (*Table 1*). Based on population density, only Allen County is considered urban. The rest of the counties are considered either rural/urban mixed or rural (Ayres, Waldorf, & McKendree, n.d.).

	Parkview Health	Indiana	U.S.
<b>Population</b>	634,457	6,614,418	321,004,407

**Table 1: Population**

Source: US Census Bureau (American Community Survey 2013-2017 Five-year Averages)

Allen County has the highest population in the service area (367,747) followed by Kosciusko (78,720) (*Table 2*). While Allen, Kosciusko, LaGrange, and Whitley Counties all experienced population growth between 2014 and 2017, Huntington, Noble, and Wabash each experienced some population decline.

Year	Allen	Huntington	Kosciusko	LaGrange	Noble	Wabash	Whitley
<b>2017</b>	367,747	36,520	78,720	38,720	47,421	31,848	33,481
<b>2014</b>	360,990	36,959	77,790	37,759	47,497	32,492	33,307

**Table 2: Population in Parkview Counties, 2014 and 2017**

Source: Stats Indiana

## Age

The median age ranges from 31.5 years in LaGrange County to 42 years in Wabash County (*Table 3*). The median age in LaGrange County is notably lower than the other counties as well as the state and nation, while the median ages in Wabash and Whitley Counties are notably higher. The median age in Allen County is 35.7 years.

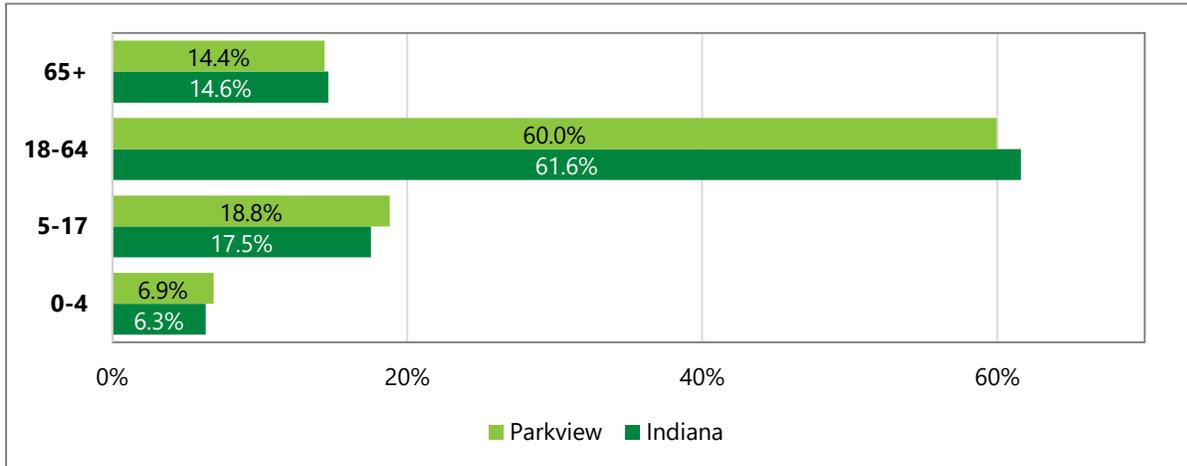
**Table 3: Median Age in Years**

Year	Allen	Huntington	Kosciusko	LaGrange	Noble	Wabash	Whitley	Parkview	IN
2017	35.7	40.3	38.0	31.5	38.5	42.0	41.0	36.8	37.5
2014	35.6	39.9	38.0	30.9	37.6	42.3	40.6	36.6	37.2

Source: US Census Bureau (American Community Survey Five-year Averages)

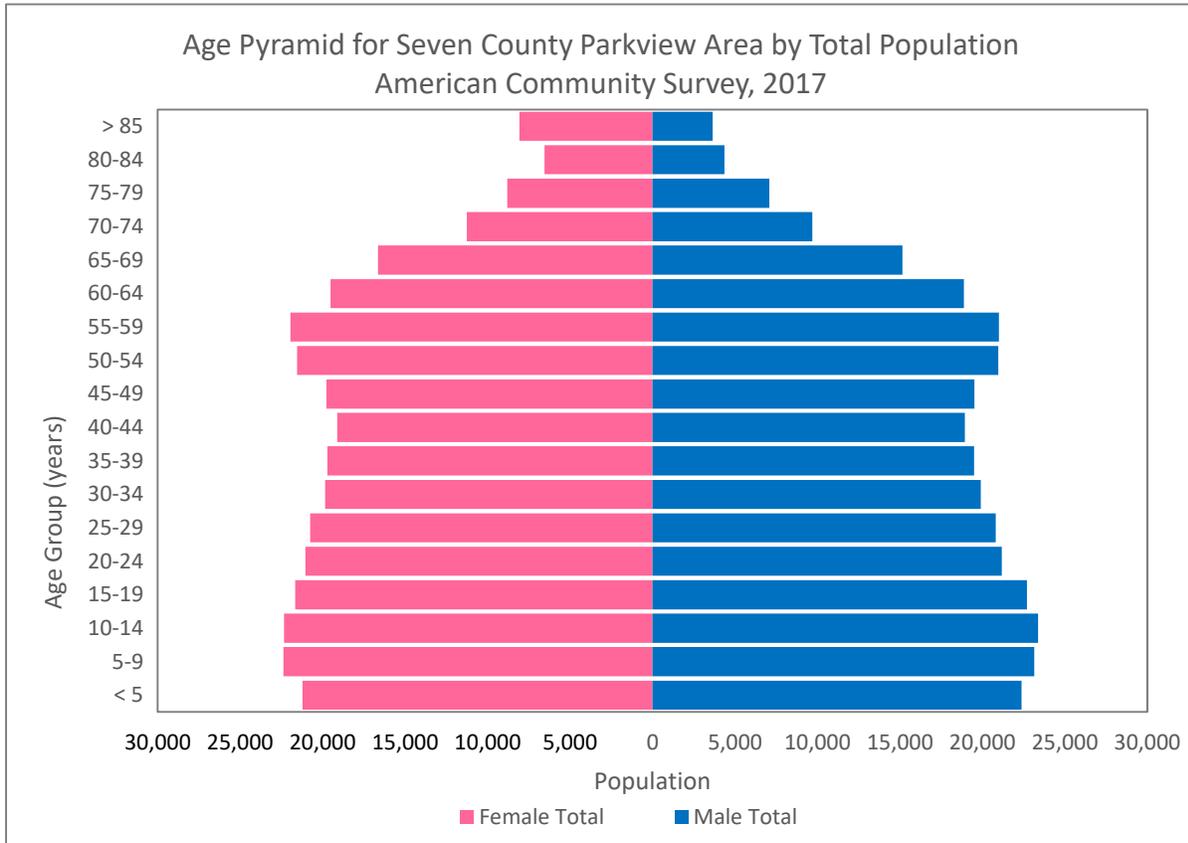
The Parkview Health service area has a similar population age makeup to the rest of Indiana. About two-thirds of the population belong to the 18-64-year-old age group and only seven percent belonging to 0-4-year-old age group (*Figure 2: Population by Age Group*).

**Figure 2: Population by Age Group**



Source: US Census Bureau (American Community Survey 2013-2017 Five-year Averages)

**Figure 3: Age Pyramid**



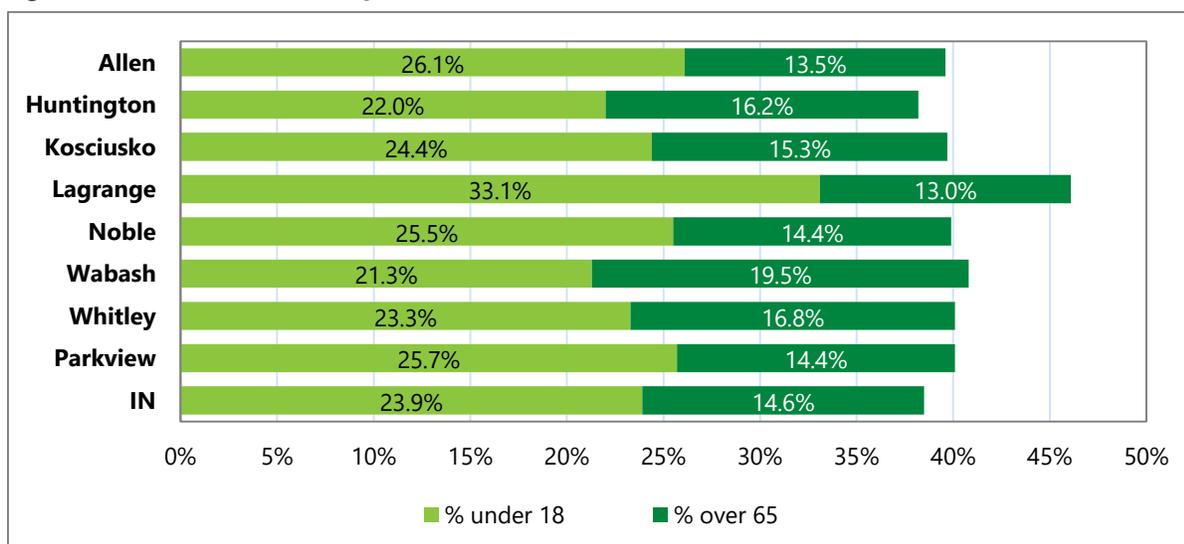
Source: US Census Bureau (American Community Survey 2013-2017 Five-year Averages)

The age-sex distribution (or pyramid) of the Parkview seven county region (*Figure 3: Age Pyramid*) is similar to that of any developed country in the world. The age pyramid is considered to be in the late stage 3, where population birthrate and death rate are slowly declining. The pyramid’s almost square-like shape indicates that the population is growing at a very slow rate. This is also referred to as the stable or stationary pyramid (“From Population Pyramids to Pillars – Population Reference Bureau,” n.d.).

In the pyramid for the Parkview Region, the number of people in their 20s of both genders is almost the same as the infants and children aged 0-5 years, but, lower than the children in age group 5-9 years. Similar to the U.S. pyramid, there is a large bump in the 50-59 years age groups. This large segment of the population is the post-World War II baby boom. As this population ages and climbs the pyramid, there will be a much greater demand for medical and other geriatric services. However, there are fewer young people to provide care and support for the aging baby boom generation.

Because different age groups require different levels and types of care, strategies for improving community health outcomes should incorporate the needs of each generation. The percentage of the population under 18 years hovers between 20-25% for all the counties in the Parkview Health region except for LaGrange County where almost a third of the total population is under 18 years (*Figure 4: Child and Senior Population*). At the other end of the age spectrum are individuals 65 years and older. *Figure 4* demonstrates that the 65 and older population is below 16% for all but three of the counties. These three counties are Huntington, Whitley and Wabash with 16.2%, 16.8% and 19.5%, respectively. Adequate health care is critical to allow the senior population to age in place and maintain their quality of life as they grow older.

**Figure 4: Child and Senior Population**



Source: US Census Bureau (American Community Survey 2013-2017 Five-year Averages)

## Race and Ethnicity

Many racial and ethnic groups experience disparities in health and healthcare. These groups may face unique challenges in accessing healthcare due to linguistic, social, or cultural differences. Therefore, it is important to be cognizant of the racial and ethnic makeup of the hospital service area and to design and implement culturally competent healthcare services.

As illustrated by *Table 4* and *Figure 5*, the racial composition of the entire Parkview Health region is predominantly non-Hispanic White, which is similar to the rest of Indiana. However, some racial diversity exists in some of the Parkview Health counties. Noble County has the highest Hispanic population (10.2%) in the region, followed by Kosciusko County (7.9%).

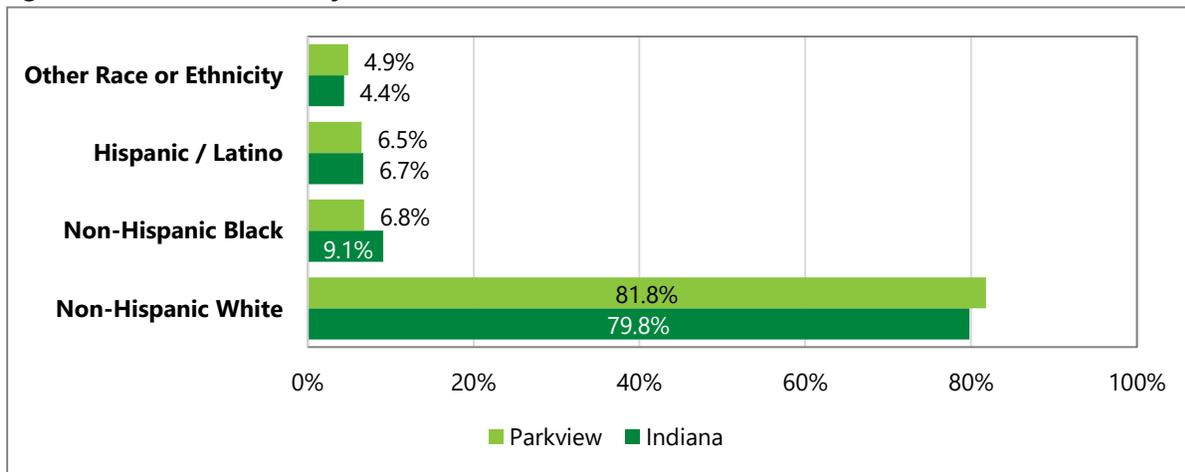
**Table 4: Percent of Population by Race and Ethnicity**

	Year	Allen	Huntington	Kosciusko	LaGrange	Noble	Wabash	Whitley	Parkview	IN
<b>White</b>	2017	74.6%	95.2%	88.6%	94.4%	87.6%	94.5%	95.7%	81.8%	79.8%
	2014	75.6%	95.8%	89.2%	94.8%	88.2%	95.0%	96.0%	82.7%	80.8%
<b>Black/ African American</b>	2017	11.3%	0.8%	0.7%	0.1%	0.4%	0.9%	0.4%	6.8%	9.1%
	2014	11.5%	0.6%	0.7%	0.1%	0.3%	0.5%	0.3%	6.8%	9.0%
<b>Hispanic/ Latino</b>	2017	7.2%	2.2%	7.9%	3.9%	10.2%	2.5%	1.9%	6.5%	6.7%
	2014	6.8%	1.9%	7.7%	3.8%	9.8%	2.2%	1.8%	6.2%	6.3%
<b>Other Race or Ethnicity</b>	2017	6.9%	1.8%	2.8%	1.6%	1.8%	2.1%	2.0%	4.9%	4.4%
	2014	6.1%	1.7%	2.4%	1.3%	1.7%	2.3%	1.9%	4.3%	3.9%

Source: US Census Bureau (American Community Survey Five-year Averages)

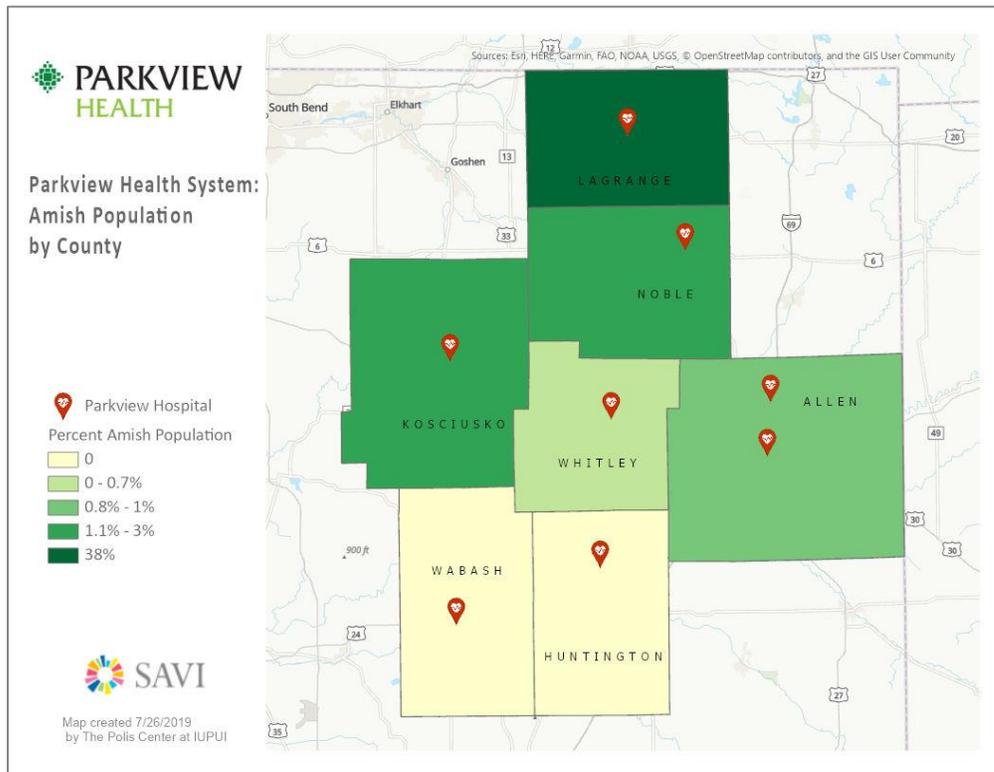
Both of these counties have had a slight increase in the Hispanic population since 2014. Blacks and African Americans make up 11.3% of the population in Allen County, but less than 1% in each of the other six counties. Six of the seven counties have proportionally fewer Blacks and African Americans than the state and nation. People of other races and ethnicities are most numerous in Allen County (6.9%).

**Figure 5: Race and Ethnicity**



Source: US Census Bureau (American Community Survey 2013-2017 Five-year Averages)

Northeast Indiana is home to a large Amish population. According to the 2010 U.S. Religion Census, more than 14,000 Amish lived in LaGrange County, accounting for 37.1% of its total population, making it the second largest county (by population) for the Amish in the United States. Less than 1% of the 2010 population of Allen County was Amish. The map included as *Figure 6* shows the Amish population by county in the seven-county region in Northeast Indiana.



**Figure 6: Amish Population by County in Parkview Service Area**

Source: Association of Religion Data Archives, 2010 U.S. Religion Census

# SOCIOECONOMIC STATUS

Socioeconomic status (SES) is a powerful determinant of health outcomes. SES refers to one’s access to financial, educational, and social resources. SES underlies three major determinants of health, including environmental exposure, health behavior, and health care. In addition, chronic stress associated with lower SES may increase morbidity and mortality. When using socioeconomic factors to understand potential health risks, income, poverty, employment status and educational status are typically considered.

## Median Household Income

The median household income in the region ranges from a low of \$49,052 in Wabash County to a high of \$58,336 in LaGrange County (*Table 5*). Since 2014, the median household income in LaGrange County has increased by 18.8%, while it only increased 4.0% in Allen County.

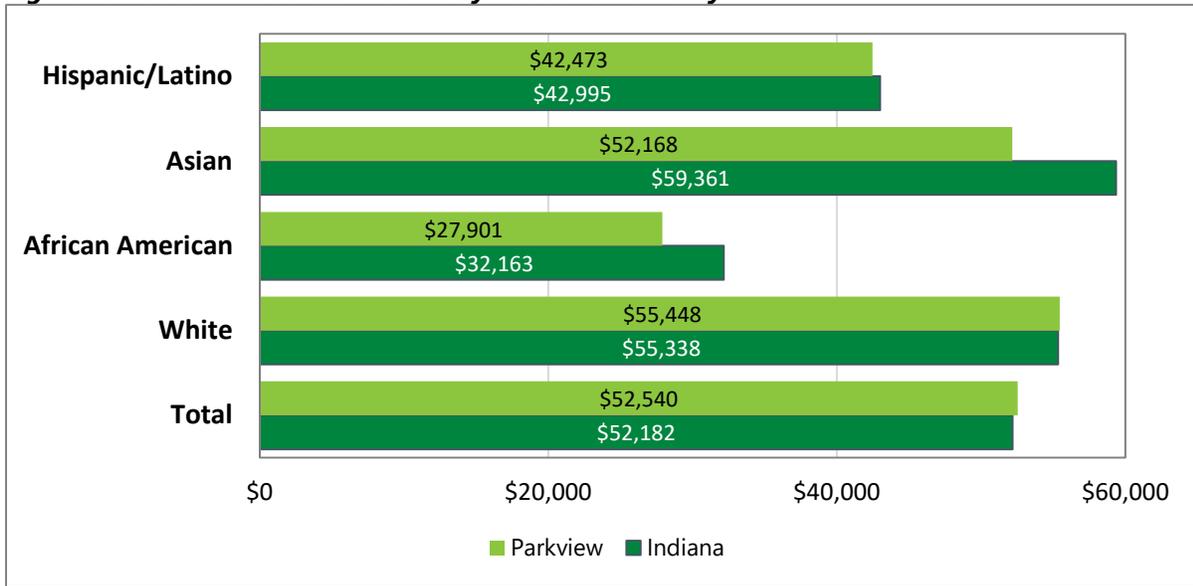
**Table 5: Median Household Income**

Year	Allen	Huntington	Kosciusko	LaGrange	Noble	Wabash	Whitley	Parkview	IN
2017	\$51,091	\$50,063	\$57,190	\$58,336	\$52,393	\$49,052	\$57,041	\$52,540	\$52,182
2014	\$49,124	\$47,356	\$52,706	\$49,112	\$49,102	\$45,657	\$54,023	\$49,540	\$48,737

Source: US Census Bureau (American Community Survey Five-year Averages)

Racial disparities regarding median household income are evident in *Figure 7*. The median household income for African American households is much lower than white and even lower than the median household income for African Americans in the state. For Asian population the median household income in the service area is lower than the median household income for Asians in the state. These gaps in income among different racial groups ultimately effect lifestyle and neighborhood choices, ability to afford health insurance, and access to health care.

**Figure 7: Median Household Income by Race and Ethnicity**



Source: US Census Bureau (American Community Survey 2013-2017 Five-year Averages)

## Poverty

The percentage of the population living below poverty in the overall Parkview Health region (13.0%) is lower than the state percentage (14.6%). However, the percentage of the population below poverty ranges from a low of 9.1% in LaGrange County to a high of 14.7% in Allen County ([Table 6](#)).

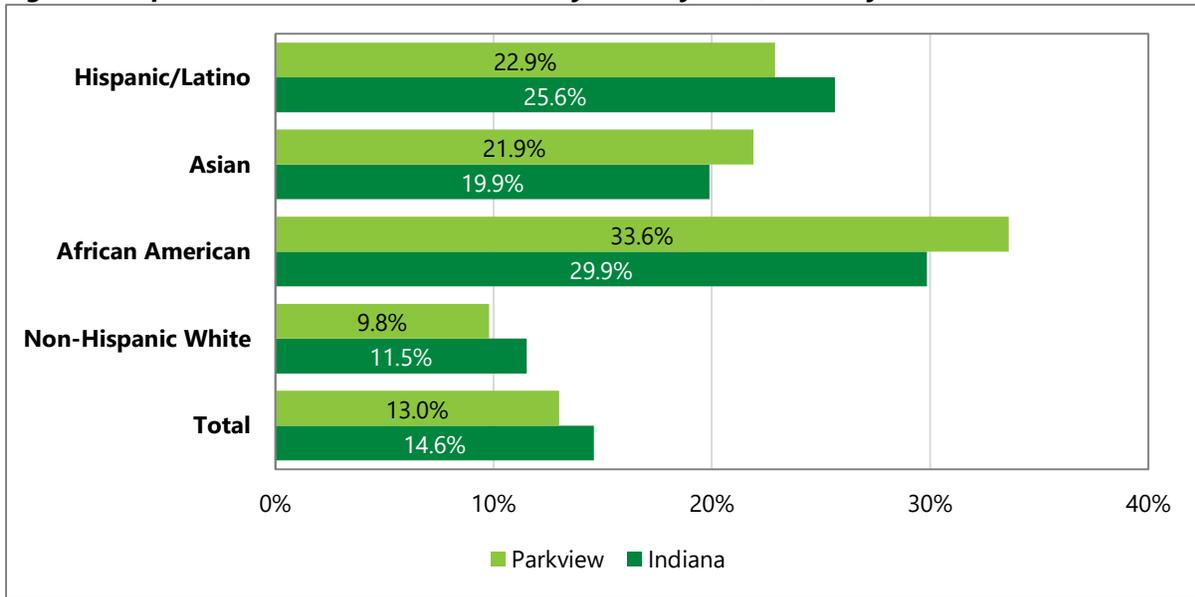
**Table 6: Percentage of Population below Poverty Line**

Year	Allen	Huntington	Kosciusko	LaGrange	Noble	Wabash	Whitley	Parkview	IN
2017	14.7%	11.6%	11.2%	9.1%	9.3%	13.3%	9.5%	13.0%	14.6%
2014	15.5%	11.6%	12.4%	15.3%	12.8%	14.9%	8.9%	14.3%	15.5%

Source: US Census Bureau (American Community Survey Five-year Averages)

Racial disparities exist for the percentage of population living under poverty level. Racial disparities in poverty result from cumulative disadvantage over the life course, as the effects of hardship in one domain spill over into other domains. With lower median income than Whites it is no surprise that the highest percentage of population living under poverty is the African American population (33.6%). [Figure 8](#) shows how the Hispanic population also has a higher percentage than Whites and Asians living under poverty. For the most part, this is consistent with statewide trends, but a higher percentage of African American population living under poverty than the state.

**Figure 8: Population below the Federal Poverty Level by Race/Ethnicity**



Source: US Census Bureau (American Community Survey 2013-2017 Five-year Averages)

# Unemployment

Unemployment rate is another important indicator for assessing the social and economic status of a geographic area or population. Unemployment in the Parkview Health service area is lower than the state overall. Unemployment ranges from 2.9% in Lagrange County to 6.3% in Allen County (*Table 7*).

Year	Allen	Huntington	Kosciusko	LaGrange	Noble	Wabash	Whitley	Parkview	IN
2017	6.3%	3.9%	4.6%	2.9%	5.7%	5.5%	3.6%	5.6%	6.1%
2014	9.0%	8.7%	7.7%	7.1%	10.0%	7.4%	6.4%	8.6%	8.8%

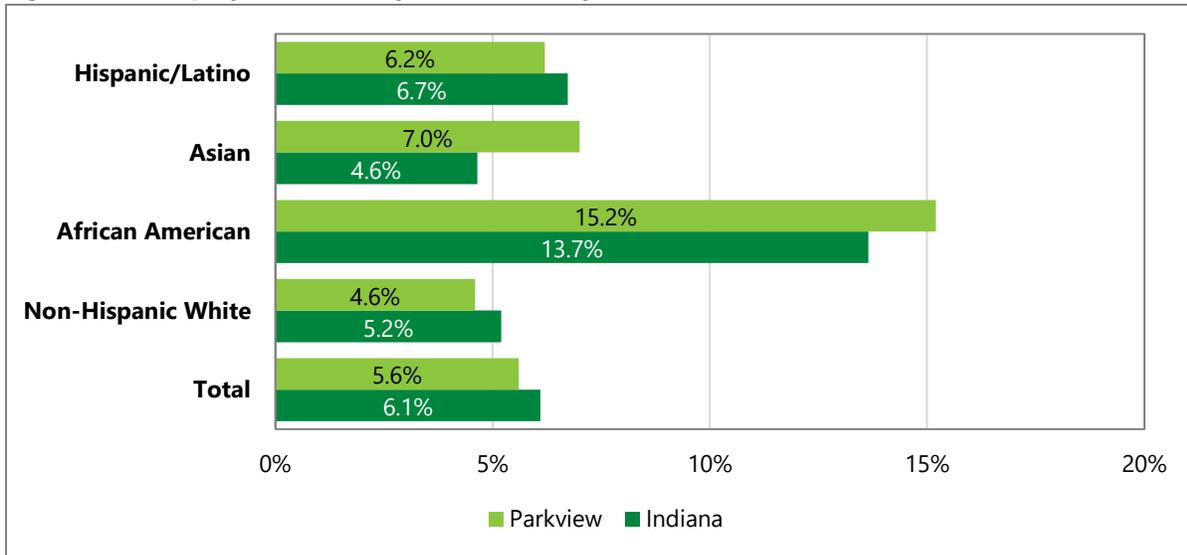
**Table 7: Percentage of Population Unemployed**

Source: US Census Bureau (American Community Survey Five-year Averages)

While the median income in Allen County falls around the average for the region, unemployment is relatively high at 6.3%.

However, the racial disparities visible in income and poverty level are also seen with unemployment. The African American population has the highest unemployment rate (15.2%), higher than the unemployment rate for African American population in the state (*Figure 9*).

**Figure 9: Unemployment Rate by Race/Ethnicity**



Source: US Census Bureau (American Community Survey 2013-2017 Five-year Averages)

## Education

Education is a powerful predictor of other social measures. Education leads to higher incomes and lower poverty and unemployment, which in turn lead to greater economic stability. Identifying populations with limited education may help to identify areas of special health service needs.

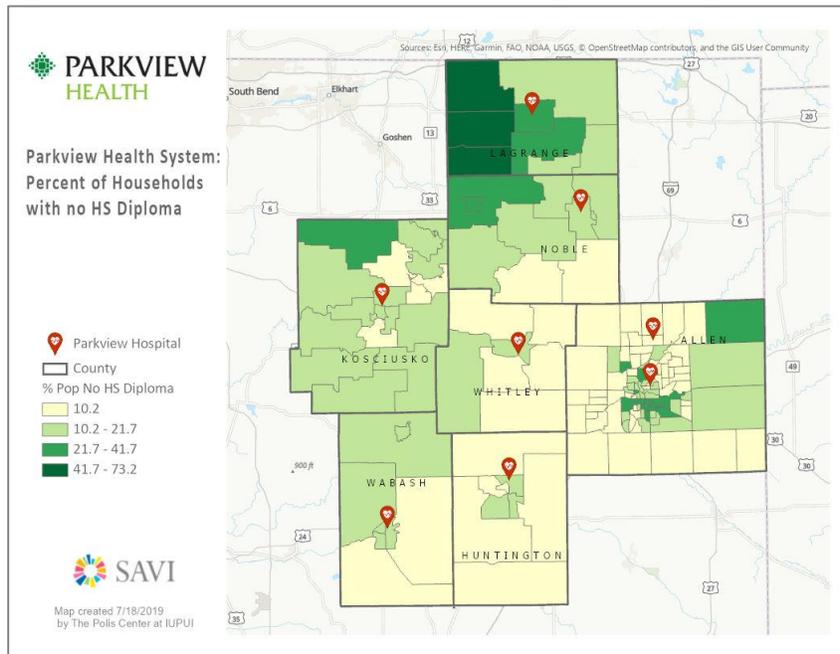
*Table 8* shows the percentage of population without a high school diploma or equivalent. LaGrange County has the highest proportion of the population without a high school diploma (36.7%), which is influenced in part by the large Amish population. The Amish do not usually attain high school educations and instead pursue other economic endeavors in their communities. Some portions of Allen, Kosciusko, and Noble Counties also have a relatively higher proportion of the population without a high school diploma.

Year	Allen	Huntington	Kosciusko	LaGrange	Noble	Wabash	Whitley	Parkview	IN
2017	10.6%	9.5%	15.2%	36.7%	15.0%	11.3%	8.9%	12.7%	11.7%
2014	10.7%	11.1%	14.9%	36.9%	16.0%	12.0%	8.9%	13.0%	12.4%

**Table 8: Population without High School Diploma**

Source: US Census Bureau (American Community Survey Five-year Averages)

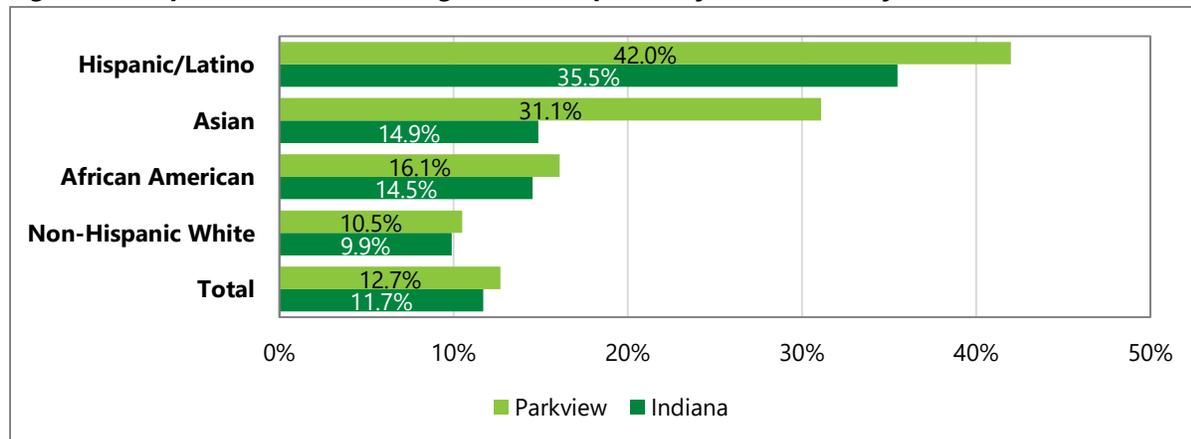
**Figure 10: Percent of Households with No High School Diploma**



Source: US Census Bureau (American Community Survey 2013-2017 Five-year Averages)

Overall, the Parkview Health region seems to have almost similar percentage of population without a high school diploma as the rest of the state. However, racial disparities are still seen with educational attainment (*Figure 11: Population without a High School Diploma by Race/Ethnicity*). A little less than half of the total Hispanic population constitutes of individuals who are without a high school diploma. These are followed by Asian population where almost a third of population is without a high school diploma. With these racial minorities already at a disadvantage in terms of income and poverty, this added inequity further deteriorates their chances of attaining good health outcomes.

**Figure 11: Population without a High School Diploma by Race/Ethnicity**



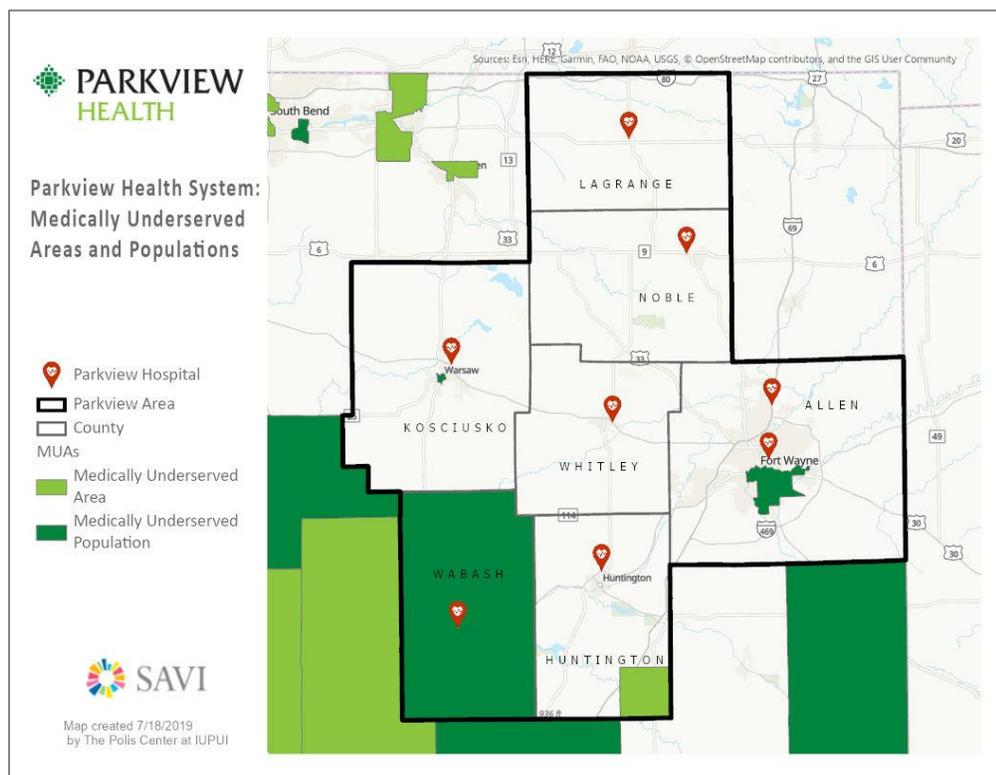
Source: US Census Bureau (American Community Survey 2013-2017 Five-year Averages)

# ACCESS TO HEALTHCARE

Access to healthcare is another important social determinant of health. It is commonly measured by lack of access to primary care services and by lack of health insurance.

## Medically Underserved Areas and Populations

Medically underserved areas and medically underserved populations identify geographic areas and populations with a lack of access to primary care services. The Health Resources and Services Administration identified several medically underserved *areas* (Figure 12, light green) in the south-west end of the Parkview Health Region. Medically underserved *populations* were identified mainly in Wabash County (Figure 12, darker green).



**Figure 12: Medically Underserved Areas and Populations**

Source: Health Resources & Services Administration, 2019

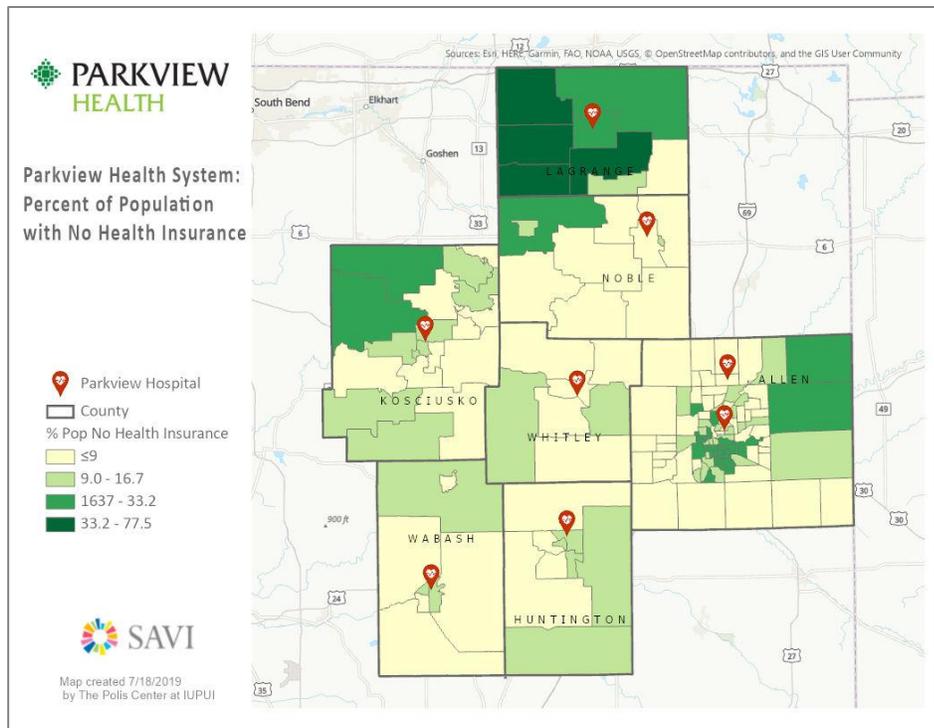
## Health Insurance

The percentage of the population without health insurance ranges from county-wide total of 7.6% in Whitley County to 39.7% in LaGrange County (*Table 9*). It should be noted that the Amish population is counted as a part of the total population by the US Census Bureau. Because many Amish do not have health insurance and they make up a relatively high percentage of the population in LaGrange County, the numbers below may appear large relative to the state and nation. The map in *Figure 13* presents this information at the census tract level to illustrate the geographic distribution of those without health insurance.

**Table 9: Health Insurance**

Demographic	Year	Allen	Huntington	Kosciusko	LaGrange	Noble	Wabash	Whitley	Parkview	IN
Population without health insurance	2017	10.8%	9.4%	11.8%	39.7%	9.2%	9.3%	7.6%	12.3%	10.3%
	2014	14.5%	11.8%	15.6%	44.5%	14.8%	10.3%	9.1%	15.8%	13.8%
Adults without health insurance	2017	14.7%	12.2%	15.1%	37.7%	12.1%	13.3%	10.9%	15.4%	14.0%
	2014	19.7%	16.4%	20.2%	45.0%	19.7%	15.0%	12.7%	12.3%	18.9%
Children without health insurance	2017	7.5%	8.3%	10.5%	53.1%	7.1%	6.4%	4.4%	11.2%	7.0%
	2014	9.1%	6.9%	12.8%	56.6%	10.5%	5.6%	5.1%	12.9%	8.2%

Source: US Census Bureau (American Community Survey Five-year Averages)

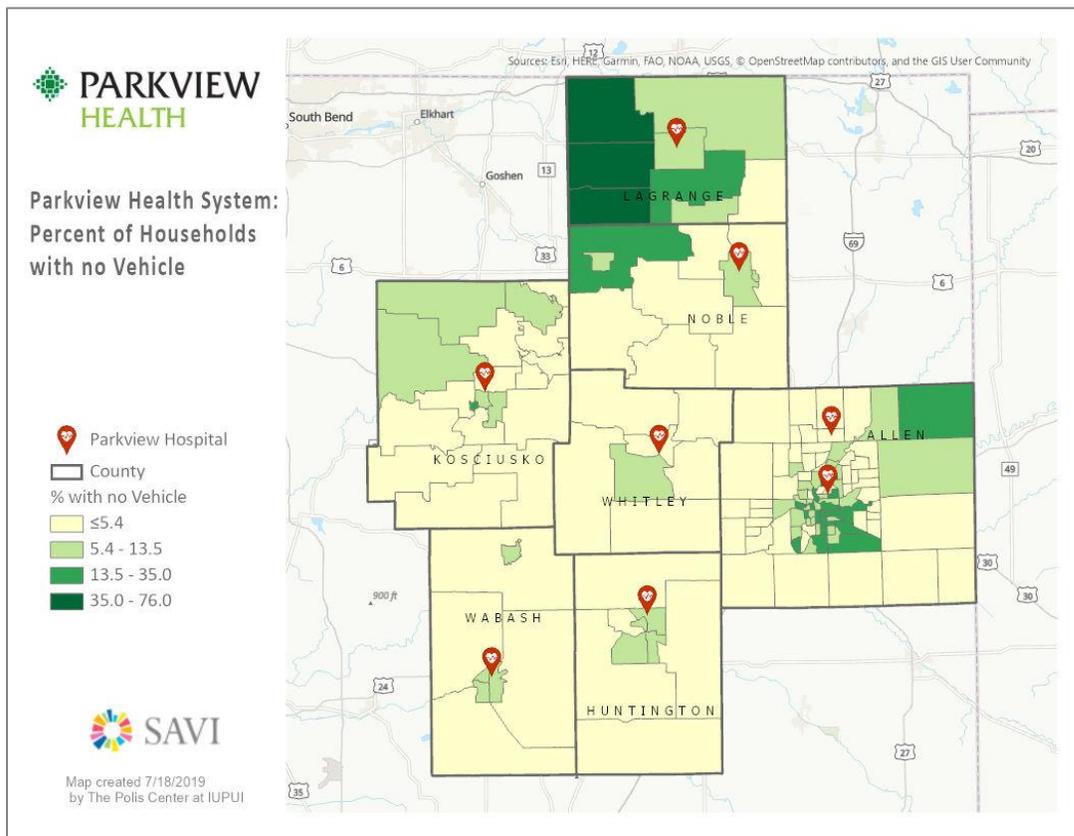


**Figure 13: Percent of Population with No Health Insurance**

Source: US Census Bureau (American Community Survey 2013-2017 Five-year Averages)

## Transportation

Transportation is a critical factor that influences people's health and the health of a community. As six of the seven counties in the service area are rural or mixed urban/rural, having a personal vehicle is of utmost importance as lower population density in rural areas often leads to lower ridership for fixed transit routes and a smaller tax base to fund maintenance and repair of transportation systems. It is evident from the map in *Figure 14* most of the counties have  $\leq 5.4$  households without a vehicle. LaGrange County shows a different picture. We can assume that due to high Amish population in LaGrange County the percentage of houses with no vehicle is higher i.e., 35 – 76 %. Amish population usually relies on horse carriages and wagons for their transport purposes. A slightly higher percentage of homes without a vehicle is also seen in northeast part of Allen County.



**Figure 14: Households with No Vehicle**

Source: US Census Bureau (American Community Survey 2013-2017 Five-year Averages)

# DATA COLLECTION

The identification of health needs for Parkview Health region was carried out using two types of data: 1) secondary data from the Healthy Communities Institute (HCI) dashboard and other local and national agencies (e.g. County Health Rankings, etc.) and 2) primary data obtained through an online survey of Parkview healthcare providers (e.g., physicians, nurses, social workers, etc.) and a survey of community residents in each Parkview Health county. To supplement these data, a focus group was conducted with Hispanic community members in Kosciusko County and a survey of the Amish community was conducted in La Grange County. These data sources are described in the following sections.

## SECONDARY DATA

The Parkview Health Community Dashboard developed by HCI was used as a primary source of secondary data. This dashboard includes data from the Indiana Hospital Association as well as the Indiana State Department of Health, National Cancer Institute, Centers for Disease Control and Prevention, Centers for Medicaid and Medicare Services, the National Center for HIV/AIDS, Viral Hepatitis, STD and TB Prevention, Institute for Health Metrics and Evaluation, County Health Rankings website, US Census Bureau, US Department of Agriculture, and other sources. Additional state and national secondary data sources were accessed for more recent and geographically specific information, including the following:

- **American Community Survey:** The American Community Survey (ACS) helps local officials, community leaders, and businesses understand the changes taking place in their communities. It is the premier source for detailed population and housing information about our nation.
- **Annie E. Casey Foundation:** The Annie E. Casey Foundation is a private philanthropic organization that works to build a brighter future for disadvantaged children in the United States. The KIDS COUNT Data Book offers a national look at the well-being of America's children and families by exploring how states are performing on key data indicators.
- **Center for Disease Control and Prevention:** As a federally-funded agency, CDC serves as a great resource for mortality and morbidity data for all the infectious and chronic diseases and other conditions.
- **County Health Rankings:** A Robert Wood Johnson Foundation program implemented by the University of Wisconsin Population Health Institute that releases new estimates annually measuring health across all US counties. These data are compiled from a variety

of providers and typically combines data across multiple years to release estimates for areas with small populations, such as rural counties.

- **Centers for Medicare & Medicaid Services:** The Centers for Medicare and Medicaid Services (CMS) provides health coverage to more than 100 million people through Medicare, Medicaid, and the Children’s Health Insurance Program, and the Health Insurance Marketplace. The CMS seeks to strengthen and modernize the nation’s health care system to provide access to high quality care and improved health at lower costs.
- **Feeding America:** A nonprofit organization working to feed America’s hungry through foodbanks. Data are compiled from the Current Population Survey, American Community Survey, and Bureau of Labor Statistics to produce food-insecurity reports.
- **Indiana INDicators:** A free data resource providing current Indiana health-related data at the state and county levels and developed by the Indiana State Department of Health, Indiana Hospital Association, and Indiana Business Research Center.
- **Indiana State Department of Health (ISDH):** The ISDH’s annual natality report includes information on live births in Indiana as well as a mortality report compiling information on the deaths of Indiana residents.
- **National Cancer Institute:** The National Cancer Institute (NCI) is the federal government’s principal agency for cancer research and training. NCI maintain large registries of information about people diagnosed with cancer to help identify important issues that affect cancer patients and survivors.
- **National Center for HIV/AIDS, Viral Hepatitis, STD, and TB Prevention:** The National Center for HIV/AIDS, Viral Hepatitis, STD, and TB Prevention is one of the larger centers at CDC and a federal source of data about sexually transmitted infections and diseases.
- **The National Environmental Public Health Tracking Network:** The Tracking Network brings together health data and environment data from national, state, and city sources and provides supporting information to make the data easier to understand.
- **US Census Bureau:** A leading source of data on the people and economy of the US.
- **2018 Indiana Association of Adult Day Services (IAADS) Survey:** The 5th Annual Indiana Adult Day Center Survey was conducted during the summer of 2018 by the Member Relations Committee of the IAADS Board of Directors. Results were tabulated based on individual survey data.

Results of the secondary data analysis are presented in **Secondary Data Analysis** section.

# PRIMARY DATA

This assessment used four sources of community input: 1) an online survey of healthcare and social service providers; 2) a phone survey of the broader community; 3) a paper survey of the Amish community; and 4) a Hispanic focus group. The associated data collection efforts are described below. Results of the provider survey are included in **Provider Survey Results**.

## Parkview Provider Survey

An online survey of health and social service providers in the seven-county area was conducted in January 2019 to collect provider perceptions about community health needs and concerns. The survey was designed by Polis and FSPH in partnership with Parkview Health and implemented using Qualtrics, an online survey service. The Parkview Community Benefits team collaborated with the leadership team in each hospital to distribute the survey to health and social service providers in their county.

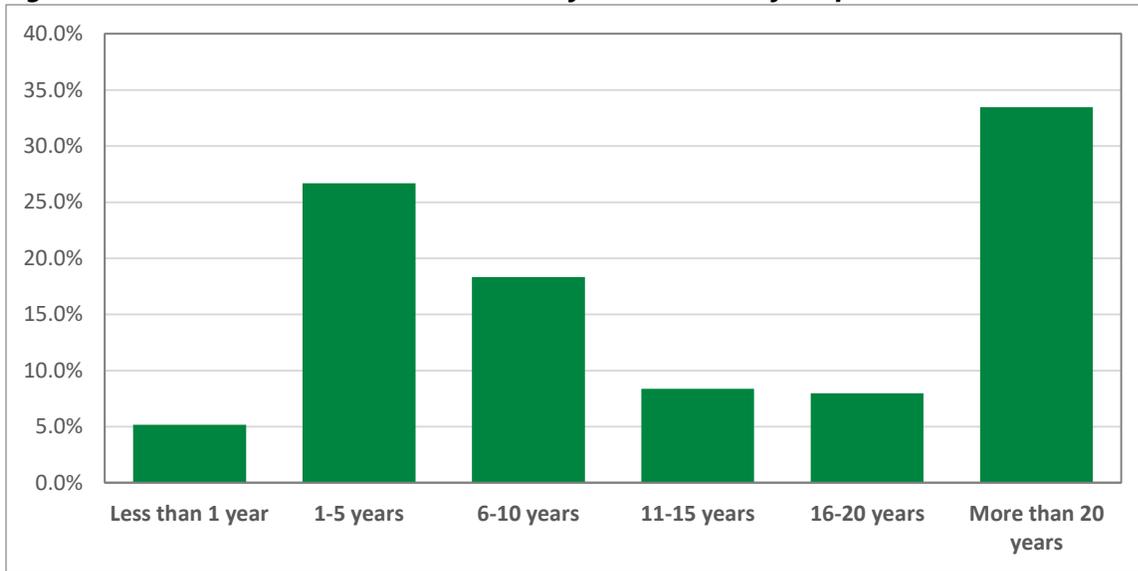
A total of 265 providers responded to the survey. The survey covered aspects of the provider’s work including the setting in which they practiced, the duration of time in practice in the region/county, and their perception of the chief public health concerns, barriers to care, and available resources in their communities. The majority of respondents primarily practiced in Allen County (31.3%), followed by Huntington County (29.1%) (*Table 10*).

**Table 10: Provider Survey Respondents**

County	Count	% of Respondents
Allen	83	31.3%
Huntington	77	29.1%
Kosciusko	8	3.0%
LaGrange	27	10.2%
Noble	24	9.1%
Wabash	26	9.8%
Whitley	20	7.5%
<b>Total</b>	265	

Providers were asked about the duration for which they had been in practice in the Parkview area. About one-third (1/3) of the respondents had been in practice for more than 20 years. This suggests that a good proportion of the responding providers had spent most of their careers in the Parkview area and so likely were aware of the community’s needs and concerns. A little more than a quarter (27%) of providers were relatively new in the region with one to five years of practice in this region (*Figure 15*).

**Figure 15: Years Practiced in Parkview Area by Provider Survey Respondents**



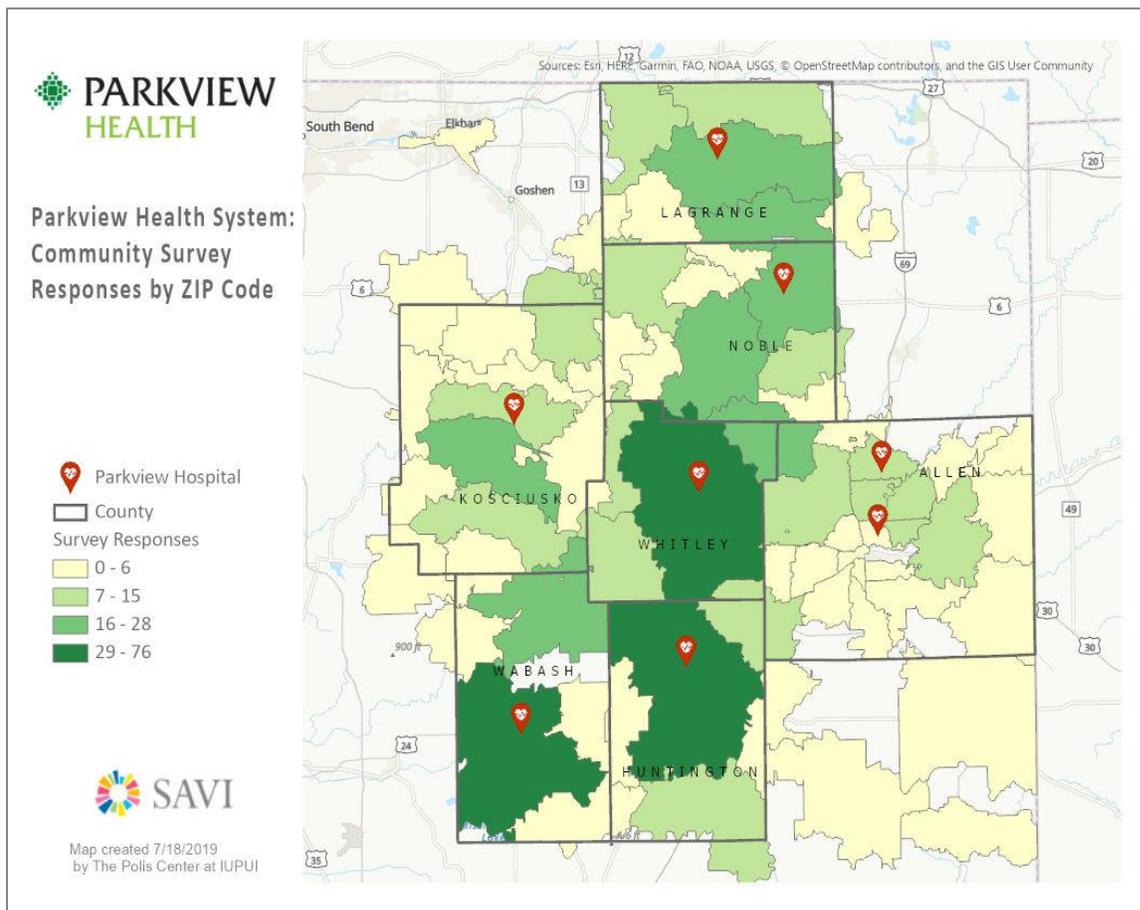
Physicians (15.8%) were the highest proportion of provider survey respondents, followed by social worker/case managers (12.1%) (Table 11).

**Table 11: Respondents by Provider Type**

Profession	Allen (n=83)	Huntington (n=77)	Kosciusko (n=8)	LaGrange (n=27)	Noble (n=24)	Wabash (n=26)	Whitley (n=20)	All (265)
Physician	27.7%	10.4%	12.5%	11.1%	8.3%	11.5%	10.0%	<b>15.8%</b>
Physician's Assistant	1.2%	0.0%	0.0%	0.0%	0.0%	0.0%	5.0%	<b>0.8%</b>
Nurse Practitioner	25.3%	2.6%	0.0%	0.0%	0.0%	7.7%	0.0%	<b>9.4%</b>
Registered Nurse	3.6%	11.7%	0.0%	22.2%	16.7%	11.5%	15.0%	<b>10.6%</b>
Mental/Behavioral Health	7.2%	1.3%	0.0%	3.7%	0.0%	3.8%	0.0%	<b>3.4%</b>
Nutritionist	0.0%	2.6%	0.0%	0.0%	8.3%	0.0%	0.0%	<b>1.5%</b>
Wellness Practitioner	1.2%	9.1%	0.0%	3.7%	4.2%	0.0%	0.0%	<b>3.8%</b>
Public Health/Community Health Practitioner	3.6%	5.2%	0.0%	3.7%	4.2%	7.7%	5.0%	<b>4.5%</b>
Social Worker/Case Management	10.8%	11.7%	25.0%	3.7%	16.7%	15.4%	15.0%	<b>12.1%</b>
Educator/Counselor	0.0%	6.5%	25.0%	18.5%	8.3%	7.7%	10.0%	<b>6.8%</b>
First Responder	0.0%	5.2%	0.0%	0.0%	4.2%	3.8%	0.0%	<b>2.3%</b>
Other Health	3.6%	9.1%	0.0%	0.0%	0.0%	7.7%	0.0%	<b>4.5%</b>
Other Social Services	3.6%	3.9%	0.0%	3.7%	8.3%	3.8%	0.0%	<b>3.8%</b>
Other	4.8%	9.1%	12.5%	18.5%	8.3%	15.4%	25.0%	<b>10.6%</b>
No response to this question	7.2%	11.7%	25.0%	11.1%	12.5%	3.8%	15.0%	<b>10.2%</b>

## Community Survey

A community phone survey was conducted from April through June 2019 by the Survey Research Lab at the School of Public Health at the University of Alabama School, a partner of the Richard M. Fairbanks School of Public Health). The survey was designed to collect community perspectives on the top community health issues in the Parkview Health service area. A random, population sample of 700 individuals was selected from the seven-county Parkview Health service area (*Figure 16*).



**Figure 16: Community Survey Respondents by ZIP Code**

One question asked respondents to choose what they perceived as top health concerns in their community. A second question asked respondents to indicate how important listed health and community services were for their community.

The survey results were algorithmically weighted to control for differences in the demographic makeup of survey participants compared to the total population of each region. Results of the community survey are included in **Community Survey Results**.

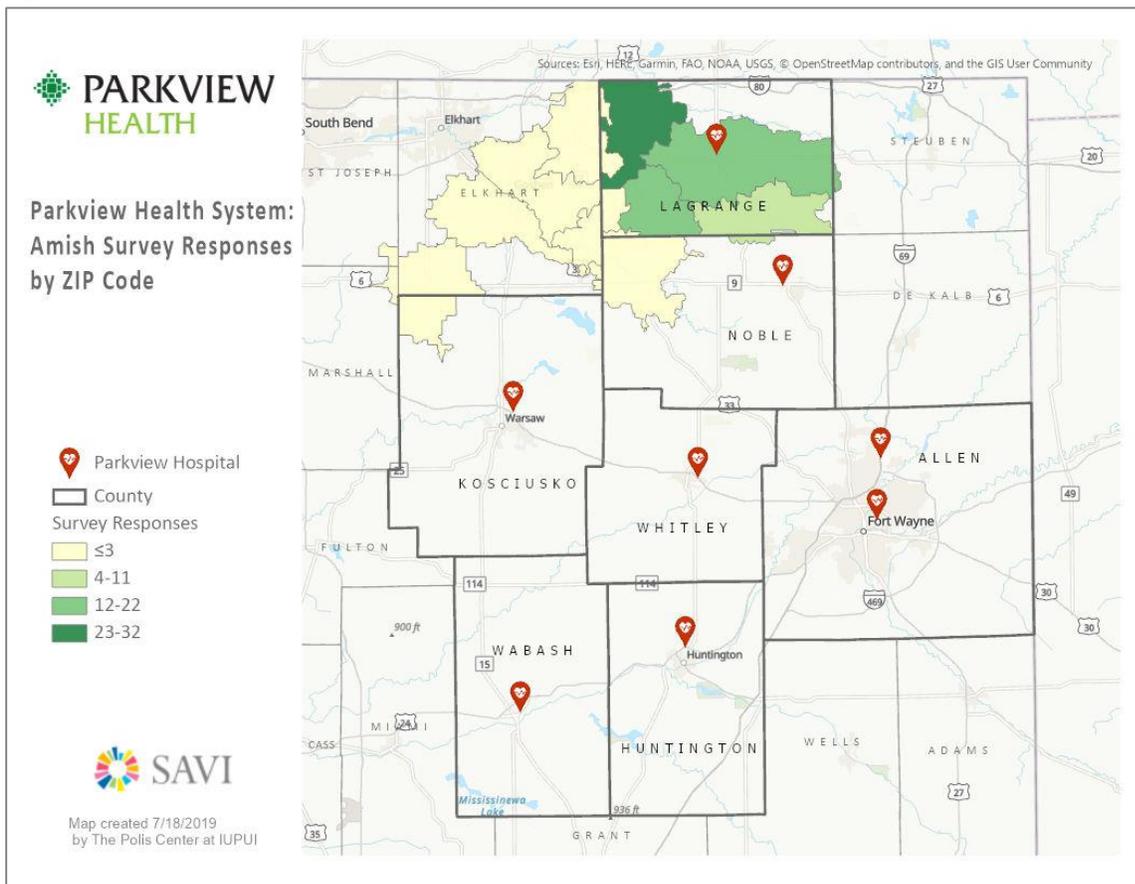
## Amish Community Survey

A written Amish Community survey was administered from February through April 2019 to a convenience sample of 1) people who patronized the Topeka Pharmacy, which is highly trusted in the Amish community, 2) Amish members of the LaGrange Hospital Board of Directors, and 3) Amish members of the Parkview Health LaGrange Hospital Patient & Family Advisory Council.

The survey asked respondents to select five health issues from a list of 15; items were not ranked, nor were responders asked to add to the list provided or provide comments. One hundred and fifteen (115) Amish individuals completed the survey. *Figure 17* shows the distribution of the survey respondents by ZIP code.

Results of the community survey are included in **Amish Community Survey Results** section. A detailed report, including comparison of the survey results from 2016 and 2019, was produced as a companion to this CHNA report.

**Figure 17: Amish Survey Respondents by ZIP Code**



## Hispanic Focus Groups

A focus group with thirteen (13) Hispanic community members from Kosciusko County was conducted on March 24, 2019. *Table 12* shows the demographic characteristics of the participants. The focus group included representatives from both the younger age group (46%) and older (54%) members of the community. The gender distribution was also almost equal between males and females, 46% and 54 % respectively. The majority of the participants (62%) had been residents of Kosciusko County for more than 30 years. The education level in the group was on the lower side with only seven percent of members having completed college but more than one-third of the group had a high school diploma.

**Table 12: Hispanic Focus Group Participants (n= 13)**

Participant Characteristic		Count	% of Participants
<b>Age</b>	Adult (25-45 years)	6	46%
	Senior Adult (>45 years)	7	54%
<b>Length of Time Lived in Kosciusko County</b>	0 – 12 years	2	15%
	13-20 years	4	23%
	30+ years	7	62%
<b>Education</b>	Completed elementary school	6	46%
	Completed middle school	1	7%
	Completed high school	5	38%
	Completed college or university	1	7%
<b>Sex / Gender</b>	Male	6	46%
	Female	7	54%

Focus group participants were asked to indicate 1) the community health issues of greatest concern for the people living in their community, 2) which services were most important in addressing the need, and 3) whether there were any existing programs or service in the community to help address the identified needs.

The Hispanic Community Focus Group was conducted in Spanish translated, transcribed, and analyzed in English.

Results of the focus group are included in the **Hispanic Focus Group Results** section. In addition, a detailed report was produced as a companion to this CHNA report.

# SECONDARY DATA ANALYSIS

## COMMUNITY HEALTH ISSUES

Based on the review of more than two hundred (200) HCI indicators, *Table 13: County Health Indicators Performing in the Bottom Quartile of the State* lists the health outcomes and behavior for which any county in the Parkview Health primary service area was in the lowest performing quartile of Indiana counties. Each of these indicators was included in the assessment of community health problems and potential community health priorities.

Thirty-six (36) HCI health indicators were in the bottom performing quartile. Some HCI health indicators relate to the same health condition (e.g., incidence rate and age-adjusted death rate for breast cancer). If at least one indicator for a specific health condition was in the bottom quartile, then that condition was considered a potential community health concern for Parkview Health. For example, breast cancer incidence rate was not in the bottom quartile for Kosciusko County, but the age-adjusted rate of breast cancer was. As such, breast cancer is considered a health concern for Kosciusko County. Indicators that were duplicative in terms of identifying a health condition as being of concern were removed, thus reducing the number of health indicators used for the CHNA to 28 indicators. The 28 indicators were categorized into 15 general health concerns, as shown in *Table 13: County Health Indicators Performing in the Bottom Quartile of the State*.

Associated rates for each of these indicators are included in **Appendix B** in the Size of Health Problem column.

**Table 13: County Health Indicators Performing in the Bottom Quartile of the State**

Health Issue (in alphabetical order)	Health Indicator	Allen	Huntington	Kosciusko	LaGrange	Noble	Wabash	Whitley
<b>Aging</b>	Alzheimer's Disease or Dementia *						X	
	Osteoporosis*		X					
<b>Alcohol Use</b>	Alcohol-Impaired Driving Deaths	X					X	
<b>Asthma</b>	Asthma*	X	X	X			X	
<b>Cancer</b>	Breast Cancer†			X			X	
	Oral Cavity and Pharynx Cancer†							X
	Prostate Cancer‡					X	X	X
<b>Cardiovascular Disease</b>	Cerebrovascular Disease (Stroke) †					X		
	Coronary Heart Disease‡						X	
	Hyperlipidemia: Medicare Population		X				X	
<b>Chronic Kidney Disease</b>	Chronic Kidney Disease*		X					
<b>Respiratory Diseases</b>	Chronic Lower Respiratory Diseases‡		X			X		
<b>Diabetes</b>	Diabetes‡						X	
<b>Drug Use</b>	Controlled Substances Dispensed				X			
	Non-Fatal ED Visits due to Opioid Overdoses						X	
<b>Infectious Diseases</b>	Salmonella Infection†		X	X		X	X	X
	Influenza and Pneumonia‡		X				X	
	Gonorrhea†	X						
	Chlamydia†	X						
	Hepatitis C Prevalence						X	
<b>Maternal/Child Health</b>	Mothers Who Did Not Receive Early Prenatal Care	X		X	X	X		
	Child Abuse Rate						X	
	Babies with Low Birth Weight		X					
<b>Mental Health</b>	Depression*	X						
<b>Obesity</b>	Adults 20+ who are Obese			X	X			
<b>Tobacco Use</b>	Adults who Smoke		X					
	Mothers who Smoked During Pregnancy						X	
<b>Unintentional Injuries</b>	Unintentional Injuries‡						X	
<b>County</b>		<b>Allen</b>	<b>Huntington</b>	<b>Kosciusko</b>	<b>LaGrange</b>	<b>Noble</b>	<b>Wabash</b>	<b>Whitley</b>
<b># Indicators in the Lowest Quartile in the State</b>		<b>6</b>	<b>9</b>	<b>5</b>	<b>3</b>	<b>5</b>	<b>15</b>	<b>3</b>

\*Medicare population. †Incidence Rate. ‡Age-Adjusted Death Rate. Data Source: Parkview Health Community Dashboard, 2019.

## Aging

Alzheimer’s disease is a chronic, incurable, progressive disorder that affects and disrupts cognition and eventually renders the patient unable to perform basic tasks. Most people with Alzheimer’s begin to present symptoms in their 60s. Osteoporosis is an incurable disease that causes bones to become brittle leading to bone fracture and other complications (“FastStats - Osteoporosis,” n.d.). It is most common in post-menopausal women. *Table 14* shows that Whitley County had the lowest age-adjusted death rate for Alzheimer’s disease in 2014 and 2017, although Noble County had the lowest prevalence in the Medicare population.

**Table 14: Aging**

Indicator	Year	Allen	Huntington	Kosciusko	LaGrange	Noble	Wabash	Whitley
<b>Alzheimer’s Disease</b> ‡ (per 100,000)	2017	36.6	24.5	27.2	37.3	30.3	46.0	23.9
	2014	30.1	23.1	33.3	25.5	38.9	25.8	20.0
<b>Alzheimer’s Disease or Dementia</b> * (%)	2017	11.4%	11.1%	10.3%	10.7%	9.7%	12.7%	10.2%
	2014	11.0%	10.5%	9.5%	8.3%	7.9%	10.4%	9.0%
<b>Osteoporosis</b> * (%)	2017	5.9%	7.1%	4.9%	4.9%	4.8%	6.3%	5.1%
	2014	5.7%	6.5%	4.5%	4.7%	5.2%	6.4%	4.6%

\*Medicare population. ‡Age-Adjusted Death Rate.

## Cancer

Cancer (the suite of diseases resulting in abnormally and often uncontrollable growth of malignant cells) collectively forms the second leading cause of death in the United States. Although, overall mortality due to cancer continues to decline, it is still the second leading cause of death (“Cancer Data and Statistics | CDC,” 2019). *Table 15* compares the rates of cancer in each county. Whitley County had the largest increase in Oral Cavity and Pharynx Cancer between 2014 and 2017.

Indicator	Year	Allen	Huntington	Kosciusko	LaGrange	Noble	Wabash	Whitley
<b>Breast Cancer</b> ‡	2015	23.2	21.4	28.3	18.8	23.8	25.7	17.9
	2014	25.9	25.7	28.0	16.9	22.5	24.3	19.3
<b>Colorectal Cancer</b> ‡	2015	14.8	17.5	18.6	12.0	15.7	15.4	12.3
	2014	15.6	17.0	16.2	10.9	16.9	13.2	13.1
<b>Oral Cavity and Pharynx</b>	2015	11.6	7.7	11.2	11.2	12.7	11.7	17.4
	2014	11.3	9.1	10.9	N/A	11.3	13.8	8.1
<b>Prostate Cancer</b> ‡	2015	22.2	17.3	23.1	22.7	26.4	27.0	31.5
	2014	21.4	24.8	23.8	N/A	31.0	28.5	39.9

**Table 15: Cancer (per 100,000)**

†Incidence Rate. ‡Age-Adjusted Death Rate.

## Cardiovascular Disease

Heart disease is the leading cause of death according to the CDC (“Heart Disease Facts & Statistics | cdc.gov,” 2018). The most common of these is coronary artery disease, which can lead to heart attack (“Heart Disease Facts & Statistics | cdc.gov,” 2018). Heart disease affects populations of all races and genders, and usually occurs in middle age. *Table 16* shows that Wabash County had the highest rates of coronary heart disease, heart attacks, and hyperlipidemia compared to the other counties in the Parkview region.

**Table 16: Cardiovascular Disease (per 100,000)**

Indicator	Year	Allen	Huntington	Kosciusko	LaGrange	Noble	Wabash	Whitley
<b>Coronary Heart Disease<sup>‡</sup></b>	2017	85.1	99.6	93.0	92.7	96.1	120.1	90.6
	2014	90.7	101.7	92.7	77.1	119.3	97.6	98.0
<b>Stroke<sup>‡</sup></b>	2017	36.5	42.6	38.3	34.8	46.2	45.5	37.9
	2014	39.2	63.2	41.9	54.1	46.8	35.5	27.3
<b>Heart Attacks<sup>‡</sup></b>	2016	61.5	62.0	68.9	57.7	55.7	99.3	60.9
	2014	69.4	69.1	71.5	62.6	62.0	96.8	68.8
<b>Hyperlipidemia *(%)</b>	2017	39.4%	44.4%	42.1%	37.4%	35.3%	44.5%	39.2%
	2014	42.8%	43.5%	45.1%	41.0%	41.3%	41.1%	41.0%
<b>Stroke* (%)</b>	2017	3.9%	3.4%	3.6%	2.2%	3.2%	3.3%	2.8%
	2014	3.9%	3.2%	3.1%	2.6%	2.8%	3.2%	3.1%

\*Medicare Population. <sup>‡</sup>Age-Adjusted Death Rate.

## Chronic Kidney Disease

Chronic kidney disease is a gradual loss of kidney function. In the early stages of this disease, it is possible that very few signs or symptoms will be present, but the disease can lead ultimately to kidney failure and death (*National Chronic Kidney Disease Fact Sheet, 2017, n.d.*). *Table 17* shows that Huntington County had the highest age-adjusted death rate for kidney disease in 2014 and 2017, as well as the highest prevalence of chronic kidney disease among the Medicare population in the same years compared to the other six Parkview counties.

**Table 17: Chronic Kidney Disease**

Indicator	Year	Allen	Huntington	Kosciusko	LaGrange	Noble	Wabash	Whitley
<b>Chronic Kidney Disease*</b>	2017	24.7%	28.8%	23.6%	21.4%	23.8%	24.4%	22.2%
	2014	18.0%	21.8%	16.1%	14.0%	14.9%	17.5%	16.3%
<b>Kidney Disease<sup>‡</sup> (per 100,000)</b>	2017	21.8	27.6	13.1	N/A	23.4	16.3	20.6
	2014	24.9	31.2	15.1	N/A	18.5	15.5	N/A

\*Medicare population. <sup>‡</sup>Age-Adjusted Death Rate.

## Diabetes

Diabetes is a group of diseases which affect the way the body uses blood sugar. A diabetes diagnosis means a person has too much blood sugar, which can lead to other more serious health complications (“Diabetes and Prediabetes | CDC,” n.d.) (*Table 18*).

**Table 18: Diabetes**

Indicator	Year	Allen	Huntington	Kosciusko	LaGrange	Noble	Wabash	Whitley
<b>Diabetes</b> ‡ (per 100,000)	2017	27.2	30.8	30.2	26.3	29.9	28.9	22.0
	2014	21.8	18.1	30.3	25.9	32.4	45.3	26.2
<b>Diabetes*</b> (%)	2017	26.3	27.8	27.4	26.5	27.2	29.4	26.7
	2014	25.3	26.5	27.4	25.8	26.6	27.2	24.4

‡Age-Adjusted Death Rate. \*Medicare population.

## Drug and Alcohol Abuse and Addiction

Drug use and dependence can cause accidental death, unintentional injury, or other health problems. Substance abuse is preventable and may be treatable. According to the CDC, excessive alcohol use can lead to an increased risk of health problems, such as liver disease (“CDC - Fact Sheets-Alcohol Use And Health: Alcohol,” 2018) and unintentional injuries. Allen County had the highest percentage of adults who drink excessively at 18.7% in 2017 as well as the highest percentage of alcohol-impaired driving deaths at 33.3% (*Table 19*).

**Table 19: Substance Abuse**

Indicator	Year	Allen	Huntington	Kosciusko	LaGrange	Noble	Wabash	Whitley
<b>Adults who Drink Excessively (%)</b>	2016	18.7%	17.7%	17.3%	18.2%	17.8%	16.9%	18.0%
	2014	16.2%	15.6%	16.3%	16.4%	15.8%	14.9%	16.1%
<b>Alcohol-Impaired Driving Deaths (%)</b>	2017	33.3%	17.4%	16.7%	15.0%	9.4%	29.0%	22.2%
	2014	30.2%	4.6%	36.6%	34.2%	11.1%	23.7%	29.2%
<b>Non-Fatal ED Visits - Opioid Overdoses</b> ^	2017	88.8	107.3	98.5	N/A	56.7*	159.0	137.5*
	2014	13.9	65.5**	28.0	N/A	N/A	77.8**	N/A
<b>Controlled Substances Dispensed</b> ^^	2016	0.8	1.0	0.9	3.3	0.9	1.2	1.0
	2014	1.5	1.9	1.6	0.9	1.7	2.0	1.9
<b>Substance Abuse Treatment Rate: Alcohol</b> ^	2015	198.9	122.9	165.4	172.6	184.4	329.8	110.8
	2014	197.9	92.6	113.3	179.5	182.7	257.3	104.8

\*2016 data. \*\*2015 data. ^per 100,000. ^^per capita

## Food Safety

Salmonellosis is an infection with Salmonella bacterium. Salmonella are usually transmitted to humans by eating foods contaminated with animal feces. Contaminated foods are often of animal origin, such as beef, poultry, milk, or eggs, but any food, including vegetables, may become contaminated. Most persons infected with Salmonella develop diarrhea, fever, and abdominal cramps 12 to 72 hours after infection (“Salmonella Homepage | CDC,” 2019). The illness usually lasts 4 to 7 days, and most persons recover without treatment. *Table 20* indicates that the highest rate of salmonella infection in 2017 was in Whitley County at 23.7 per 100,000 population (*Table 20*).

**Table 20: Food Safety (per 100,000).**

Indicator	Year	Allen	Huntington	Kosciusko	LaGrange	Noble	Wabash	Whitley
Salmonella Infection <sup>†</sup>	2017	13.1	16.5	20.2	15.3	16.9	22.3	23.7
	2014	7.9	24.7*	17.8	28.1*	21.0	15.7*	23.9**

\*2016 data. \*\*2015 data. †Incidence Rate.

## Infectious Disease

Hepatitis C and influenza are types of infectious diseases caused by viruses. Hepatitis C is a contagious liver disease ranging from mild to severe illnesses transmitted primarily from the sharing of needles. Influenza is a contagious disease that in most cases causes the complication of pneumonia. Wabash County had the highest prevalence rate of Hepatitis C in 2017 and 2014, 194.0 and 77.5, respectively. In 2017, Huntington County had the highest age-adjusted death rate of influenza and pneumonia at 27.7 per 100,000 population (*Table 21*).

**Table 21: Infectious Disease (per 100,000)**

Indicator	Year	Allen	Huntington	Kosciusko	LaGrange	Noble	Wabash	Whitley
Hepatitis C Prevalence	2017	83.1	82.6	72.0	N/A	48.5	194.0	N/A
	2014	65.6	54.5	39.5	N/A	52.5	77.5	N/A
Influenza/ Pneumonia <sup>‡</sup>	2017	9.3	27.7	17.0	N/A	15.7	19.3	N/A
	2014	12.4	18.7	16.5	N/A	18.0	17.0	20.6*

\*2012 data. ‡Age-Adjusted Death Rate.

## Maternal, Infant, and Child Health

Maternal, infant, and child health care is a broad category which encompasses a variety of health indicators related to pregnancy, birth, and complications at the time of and immediately following birth. Affected populations include mothers and their children. Although all county percentages decreased for mothers who did not receive prenatal care during the first trimester of pregnancy, LaGrange County had the highest percentage (56.2%) and Huntington County had the lowest (23.6%). In contrast, Huntington County had the highest percentage of preterm births (11.1%) and LaGrange County had the lowest percentage of mothers who smoked during pregnancy (6.2%). The rate of child abuse cases per 1,000 children was highest in 2017 and 2014 in Wabash County, 26.3 and 26.9, respectively ([Table 22](#)).

**Table 22: Maternal, Infant and Child Health**

§Cases per 1,000 children

Indicator	Year	Allen	Huntington	Kosciusko	LaGrange	Noble	Wabash	Whitley
<b>Babies with Low Birth Weight (%)</b>	2017	8.8%	9.7%	6.7%	6.9%	5.7%	7.9%	5.8%
	2014	9.4%	7.0%	7.6%	5.6%	6.2%	9.1%	7.3%
<b>Child Abuse Rate§</b>	2015	10.3	16.6	8.4	10.2	18.1	26.3	13.3
	2014	8.9	20.7	6.8	11.6	11.5	26.9	10.2
<b>Mothers with no prenatal care in 1<sup>st</sup> trimester (%)</b>	2017	41.6%	23.6%	55.7%	56.2%	37.7%	28.2%	30.8%
	2014	45.2%	32.2%	63.8%	62.1%	38.4%	36.1%	32.8%
<b>Mothers who Smoked During Pregnancy (%)</b>	2017	10.3%	21.5%	15.1%	6.2%	16.7%	26.3%	14.1%
	2014	10.3%	16.8%	15.6%	6.7%	19.0%	25.2%	17.5%
<b>Preterm Births (%)</b>	2017	9.6%	11.1%	8.4%	7.7%	6.5%	10.1%	9.2%
	2014	10.1%	7.2%	9.0%	5.6%	8.7%	9.4%	8.7%

## Mental Health

Depression is a serious illness that affects an individual's ability to perform daily tasks or cope with daily life. Individuals with depression are at higher risk for other mental illnesses, injury, or death ("NIMH» Depression," n.d.). Depression is also linked to economic and social burdens, which may perpetuate depressive episodes. Depression among the Medicare population was highest in 2017 and 2014 for Allen County, 21.2% and 20.7%, respectively ([Table 23](#)).

**Table 23: Mental Health**

Indicator	Year	Allen	Huntington	Kosciusko	LaGrange	Noble	Wabash	Whitley
<b>Depression*(%)</b>	2017	21.2%	20.8%	18.4%	17.8%	19.8%	19.7%	18.1%
	2014	20.7%	18.2%	16.4%	16.7%	19.0%	15.4%	18.1%

\*Medicare population.

## Obesity

Obesity (having a body mass index greater than 30.0) affects all age groups and disproportionately affects people of lower socioeconomic statuses and racial/ethnic groups. There are many complications that can occur as a direct or indirect result of obesity. *Table 24* shows the percentage of adults who are obese.

**Table 24: Obesity**

Indicator	Year	Allen	Huntington	Kosciusko	LaGrange	Noble	Wabash	Whitley
Adults 20+ who are Obese (%)	2015	31.6%	33.9%	36.4%	36.8%	33.2%	34.2%	35.4%
	2014	28.7%	31.9%	34.3%	34.1%	33.9%	32.7%	36.6%

## Respiratory Diseases

Respiratory diseases affect the lungs and other parts of the respiratory system. Chronic lower respiratory disease (CLRD) refers to a diverse group of disorders, such as asthma, emphysema, bronchitis, and chronic obstructive pulmonary disease. Asthma is a chronic, incurable disease which causes many symptoms that make breathing difficult (“CDC - Data and Statistics - Chronic Obstructive Pulmonary Disease (COPD),” 2019). The disease burden is high due to expensive and potentially life-long costs associated with managing symptoms of asthma.

*Table 25* shows the percentage of the Medicare population who have asthma. Since 2014, the percentage of asthma among the Medicare population has increased in four of the Parkview counties. The age-adjusted death rate for CLRD was highest for Noble County in both 2017 and 2014 (72.7 and 78.3, respectively).

**Table 25: Respiratory Disease (per 100,000)**

Indicator	Year	Allen	Huntington	Kosciusko	LaGrange	Noble	Wabash	Whitley
Asthma* (%)	2017	6.1%	6.6%	5.6%	3.5%	5.0%	5.7%	5.0%
	2014	5.6%	6.0%	4.5%	3.6%	5.5%	4.8%	5.5%
Chronic Lower Respiratory Diseases‡	2017	50.3	69.4	53.4	50.2	72.7	54.7	49.4
	2014	54.5	58.6	63.3	48.1	78.3	64.7	54.7

\*Medicare population. ‡Age-Adjusted Death Rate.

## Sexually Transmitted Infections

Chlamydia and gonorrhea are two common sexually transmitted diseases (STD) that, in some cases, present no symptoms, but can lead to serious health problems if left untreated (“Chlamydia - STD information from CDC,” 2019; “Gonorrhea - STD information from CDC,” 2019). Younger populations, those with multiple partners, and those who do not use a condom during sex are at high risk to contract these and other sexually transmitted infections. Those who have or have had sexually transmitted infections in the past are at even greater risk. Allen County had the highest incidence rates of chlamydia and gonorrhea in both 2017 and 2014 (Table 26).

**Table 26: Sexually Transmitted Infections (per 100,000)**

Indicator	Year	Allen	Huntington	Kosciusko	LaGrange	Noble	Wabash	Whitley
Chlamydia <sup>†</sup>	2016	597.9	294.8	281.1	118.5	331.0	227.1	317.3
	2014	514.6	252.8	198.8	60.5	250.2	182.3	144.2
Gonorrhea <sup>†</sup>	2016	188.1	43.7	64.9	10.3	60.8	34.2	35.9
	2014	151.8	19.0	62.9	7.9	46.2	12.4	15.0

<sup>†</sup>Incidence Rate.

## Tobacco Use/Smoking

Smoking is the leading cause of preventable death (CDC Tobacco Free, 2017). People of all ages, races, and genders are susceptible to the effects of smoking and secondhand smoke. Table 27 shows the adult smoking rate.

**Table 27: Smoking**

Indicator	Year	Allen	Huntington	Kosciusko	LaGrange	Noble	Wabash	Whitley
Adults who Smoke (%)	2016	18.8%	21.8%	18.7%	20.7%	20.8%	18.9%	18.6%
	2014	20.4%	21.5%	18.5%	22.2%	20.4%	19.2%	18.1%

## Prevention and Safety

Unintentional injuries are a leading cause of death for Americans of all ages, regardless of gender, race, or economic status. Major categories of unintentional injuries include motor vehicle collisions, poisonings, and falls. *Table 28* shows that Wabash County had the highest age-adjusted death rates for 2017 and 2014 (74.0 and 59.9, respectively).

**Table 28: Prevention and Safety**

Indicator	Year	Allen	Huntington	Kosciusko	LaGrange	Noble	Wabash	Whitley
<b>Motor Vehicle Traffic Collisions<sup>‡</sup></b>	2017	10.2	N/A	14.1	N/A	N/A	28.7	N/A
	2014	8.7	N/A	12.0	19.2*	14.7*	34.6	N/A
<b>Unintentional Injuries<sup>‡</sup></b>	2017	50.6	53.8	51.4	26.1	44.9	74.0	47.6
	2014	39.0	41.7	42.0	33.5	49.7	59.9	35.2

\*2012 data.

## SOCIAL DETERMINANTS OF HEALTH (SDOH)

Social determinants of health are the conditions in which people are born, grow, live, work and age. These indicators affect a wide range of health risks and outcomes (Artiga, May 10, 2018). SDOH include factors like socioeconomic status, education, neighborhood, physical environment, employment, and social support networks, as well as access to health care. The effect of individual social determinants of health is difficult to discern as these factors are interdependent and interconnected. Evidence shows that poverty limits access to food, safe neighborhoods, and better education. On the other hand, poorer neighborhoods are severely affected by food insecurities and lower educational status. These ultimately lead to poor health outcomes and reduced life expectancies. A person's ZIP Code can affect his or her health which ultimately leads to a concentration of health disparities in geographical locations identified as poor neighborhoods. Considering the Maslow's Hierarchy of Needs pyramid, it is evident that basic needs like food, shelter, safety, and security serve as the basis of better overall physical and mental health of individuals (Mcleod, n.d.). Focused social determinants of health, also referred to as "upstream" factors by the public health sector, decrease the risk of diseases and the predisposing behavioral and other risk factors (Booske, Athens, Kindig, Park, & Remington, n.d.). [Table 29](#) and [Table 30](#) list the social indicators and access indicators, respectively, for which counties in the Parkview region are in the bottom-performing quartile.

**Table 29: County Social Indicators in the Bottom-Performing Quartile of the State**

Social Issue	Indicator	Allen	Huntington	Kosciusko	LaGrange	Noble	Wabash	Whitley
<b>Economy</b>	Households with Cash Public Assistance Income						X	
	Per Capita Income				X			
<b>Education</b>	4th Grade Proficiency in English/Language Arts					X		
	4th Grade Proficiency in Math						X	
	8th Grade Proficiency in English/Language Arts					X	X	
	High School Graduation						X	
	People 25+ w/ a Bachelor's Degree or Higher				X			
	People 25+ w/ a High School Degree or Higher			X	X	X		
	Student-to-Teacher Ratio	X						X
<b>Employment</b>	Female Population 16+ in Civilian Labor Force				X			
	Total Employment Change			X				X
<b>Social Environment</b>	Households w/ Internet Subscription				X			
	Households w/ >=1 Types of Computing Devices				X			
	People 65+ Living Alone	X						
	Voter Turnout: Presidential Election	X				X		
<b>County</b>		<b>Allen</b>	<b>Huntington</b>	<b>Kosciusko</b>	<b>LaGrange</b>	<b>Noble</b>	<b>Wabash</b>	<b>Whitley</b>
<b># Indicators in Lowest Quartile in State</b>		3	0	2	6	4	4	2

Data Source: Parkview Health Community Dashboard, 2019.

**Table 30: County Access Indicators in the Bottom Performing Quartile of the State**

Issue	Access Indicator	Allen	Huntington	Kosciusko	LaGrange	Noble	Wabash	Whitley
<b>Access to Health Services</b>	Adults with Health Insurance: 18-64			X	X	X		
	Persons with Health Insurance			X	X	X		
	Children with Health Insurance			X	X			
	Clinical Care Ranking			X	X	X		
	Non-Physician Primary Care Provider Rate <sup>†</sup>				X	X	X	X
	Primary Care Provider Rate <sup>†</sup>				X	X		
	Dentist Rate <sup>†</sup>				X			
	Mental Health Provider Rate <sup>†</sup>				X			
	Preventable Hospital Stays*					X		
<b>Food Access</b>	Food Insecure Children Likely Ineligible for Assistance							X
	Food Insecurity Rate	X						
	Children with Low Access to a Grocery Store	X						
	Low-Income and Low Access to a Grocery Store	X	X					
	People 65+ with Low Access to a Grocery Store	X	X					
	People with Low Access to a Grocery Store	X	X					
	Households w/o Car & Low Access to Grocery Store				X			
	Fast Food Restaurant Density		X				X	
	SNAP Certified Stores				X	X		
<b>Access to Safe and Healthy Environment</b>	Physical Environment Ranking			X		X		
	Houses Built Prior to 1950		X				X	
	Violent Crime Rate	X						
	Access to Exercise Opportunities				X			
<b>Housing Affordability and Supply</b>	Homeownership			X				
	Spending >=30% Household Income on Rent		X					
	Severe Housing Problems				X			
<b>Transportation</b>	Households without a Vehicle				X			
	Workers Commuting by Public Transportation			X		X		
	Workers who Drive Alone to Work						X	X
	Workers who Walk to Work	X						X
<b>County</b>		<b>Allen</b>	<b>Huntington</b>	<b>Kosciusko</b>	<b>LaGrange</b>	<b>Noble</b>	<b>Wabash</b>	<b>Whitley</b>
<b># Indicators in the Lowest Quartile in the State</b>		<b>7</b>	<b>6</b>	<b>7</b>	<b>13</b>	<b>9</b>	<b>4</b>	<b>4</b>

\*Medicare population. †Providers per 100,000 population. Data Source: Parkview Health Community Dashboard, 2019.

## Access to Health Services

Access to comprehensive, quality healthcare services is important for promoting and maintaining health, preventing and managing disease, reducing unnecessary disability and premature death, and achieving health equity for all Americans. LaGrange County had the lowest percentage of adults with health insurance ages 18-64, children with health insurance, dentist rate, mental health provider rate, persons with health insurance, and primary care provider rate (*Table 31*). LaGrange County is also home to a large Amish population who may be using other means of healthcare mentioned in these categories.

**Table 31: Access to Health Services**

Indicator	Year	Allen	Huntington	Kosciusko	LaGrange	Noble	Wabash	Whitley
<b>Adults with Health Insurance: 18-64 (%)</b>	2017	89.0%	91.0%	87.0%	75.7%	88.0%	89.5%	90.3%
<b>Children with Health Insurance (%)</b>	2017	93.2%	95.0%	91.0%	74.7%	93.2%	94.3%	94.2%
<b>Dentist Rate<sup>†</sup></b>	2017	64	41	32	23	27	41	41
<b>Mental Health Provider Rate<sup>†</sup></b>	2018	164	63	144	28	82	198	66
<b>Non-Physician Primary Care Provider Rate<sup>†</sup></b>	2018	143	69	43	33	21	25	18
<b>Persons with Health Insurance (%)</b>	2017	90.3%	92.1%	88.2%	75.1%	89.6%	90.8%	91.4%
<b>Preventable Hospital Stays* (per 1,000)</b>	2015	52.5	67.0	59.2	55.6	79.2	50.7	40.8
<b>Primary Care Provider Rate<sup>†</sup></b>	2016	65	63	40	26	27	41	54

\*Medicare population. †Providers per 100,000 population.

## Built/Physical Environment

The built environment is the space in which we live, work, learn, and play. It includes workplaces and housing, businesses and schools, landscapes and infrastructure. Built environment influences the public's health, particularly in relation to chronic diseases.

Despite significant evidence that an active lifestyle along with proper nutrition and reduced exposure to toxic conditions can lower the burden of chronic disease, our built environments are not well-designed to facilitate healthy behaviors or create good health conditions. LaGrange County had the lowest access to exercise opportunities (26.4%) while Allen County had the highest (78.5%) (*Table 32*). Huntington County had the highest percent of households built prior to 1950, at 45.8%. Households built prior to 1950 could be a concern for

the public's health if they have not undergone substantial updates to remove lead-based paint. This type of paint is a toxin that causes nervous system damage, stunted growth, and delayed development.

**Table 32: Built/Physical Environment**

*\*Households*

Indicator	Year	Allen	Huntington	Kosciusko	LaGrange	Noble	Wabash	Whitley
<b>Access to Exercise Opportunities</b>	2019	78.5%	76.3%	67.4%	23.4%	64.0%	67.7%	57.4%
<b>Households Built Prior to 1950</b>	2013-2017	19.6%	45.8%	22.8%	25.3%	30.5%	44.1%	28.0%

## Economy

The lower one's income, the higher the risk of disease and premature death. As shown in [Table 33](#), per capita income in Parkview Region is highest in Whitley County (\$28,073) and lowest in LaGrange County (\$22,780). The highest percentage of population with Cash Public Assistance is in Wabash (2.3%) and lowest in Whitley County (0.9%)

Among minorities income is one of the driving forces behind health disparities. Racial health disparities observed among non- Hispanic Whites, Blacks, and Hispanics are minimized by the disparities due to income observed within each racial group. That is, higher-income Blacks and Hispanics have better health than members of their groups with less income and this income gradient appears to be more strongly tied to health than their race or ethnicity.

**Table 33: Economy**

*\*Households*

Indicator	Year	Allen	Huntington	Kosciusko	LaGrange	Noble	Wabash	Whitley
<b>Asset Limited, Income Constrained, Employed*</b>	2016	22.1%	26.5%	28.4%	29.3%	25.7%	25.0%	21.5%
<b>Cash Public Assistance Income (%)*</b>	2013-2017	2.2%	1.7%	1.8%	1.0%	1.5%	2.3%	0.9%
<b>Per Capita Income (\$)</b>	2013-2017	\$26,932	\$24,222	\$27,884	\$22,780	\$25,260	\$24,700	\$28,073

## Education

Education has an indirect effect on the health of individuals. Education is important for higher-paid jobs, economic productivity and a healthier population. Educational attainment not only defines income status and job opportunities; it also affects life expectancy. Between 1990 and 2008, the life expectancy gap between the most and least educated Americans grew from 13 to 14 years among males and from 8 to 10 years among females (Rosoff & Lohoff, 2019). The gap has widened since the 1960s. Individuals with low educational attainment levels have a higher risk of heart disease, diabetes, and diminished physical abilities due to health reasons, or are disabled. They also tend to have higher rates of risky behaviors like smoking, drinking, and illicit drug use.

*Table 34* shows educational attainment level in the Parkview Region. Kosciusko County had the highest high school graduation percentage at 92.6%. Allen County had the highest percentage of people with a bachelor’s degree or higher (27.5%) and the highest student-to-teacher ratio (19 students per teacher).

**Table 34: Education**

Indicator	Year	Allen	Huntington	Kosciusko	LaGrange	Noble	Wabash	Whitley
<b>4th Grade Students Proficient in English/Language Arts (%)</b>	2017	63.2%	74.4%	65.0%	65.4%	58.0%	69.4%	64.2%
<b>4th Grade Students Proficient in Math (%)</b>	2017	56.9%	62.9%	62.9%	67.0%	57.7%	54.9%	60.3%
<b>8th Grade Students Proficient in English/Language Arts (%)</b>	2017	61.8%	70.7%	58.3%	63.9%	51.5%	55.7%	63.5%
<b>High School Graduation (%)</b>	2017	91.8%	91.8%	92.6%	92.3%	91.2%	87.1%	91.3%
<b>People 25+ with a Bachelor’s Degree or Higher (%)</b>	2013-2017	27.5%	18.1%	22.3%	9.9%	14.0%	18.7%	19.5%
<b>People 25+ with a High School Degree or Higher (%)</b>	2013-2017	89.4%	90.5%	84.8%	63.3%	85.0%	88.7%	91.1%
<b>Student-to-Teacher Ratio (Students per teacher)</b>	2016-2017	18.5	15.2	16.3	15.2	16.1	17.2	18.1

## Employment

Employment has a multifaceted effect on the health of individuals. Well-paid jobs translate into better access to nutritious food, education, healthier/safer neighborhoods, and good health insurance benefits for individuals and their families. Conversely, low-paid jobs or job layoffs result in poor health and stress-related conditions such as stroke, heart attack, heart disease, or arthritis.

Allen County had the highest female population ages 16+ in the civilian labor force at 62.0%. The total employment change was positive for most counties, but Kosciusko and Whitley Counties decreased by 1.1% and 2.7%, respectively (*Table 35*).

**Table 35: Employment**

Indicator	Year	Allen	Huntington	Kosciusko	LaGrange	Noble	Wabash	Whitley
<b>Female Population 16+ in Civilian Labor Force)</b>	2013-2017	62.0%	59.6%	57.2%	47.1%	59.8%	55.3%	57.0%
<b>Total Employment Change</b>	2015-2016	2.4%	2.1%	-1.1%	4.4%	3.7%	2.2%	-2.7%

## Food Security

Food security measures accessibility to and affordability of food. According to the World Health Organization (WHO), the three pillars of food security are availability, access, and use/misuse (“What is food security? | WFP | United Nations World Food Programme-Fighting Hunger Worldwide,” n.d.). On the other hand, food insecurity refers to the inability to afford enough food for an active, healthy life (“Food Insecurity,” n.d.). Food insecurity is associated with adverse health outcomes in children and adults. It is linked to an increased risk of depression, cardiovascular disease, and peripheral arterial disease in older adults (Laraia, 2013). Access to healthy, nutritious food-- including fruits and vegetables--is of utmost importance to live a healthy lifestyle.

Allen County has the highest rate of children with low access to a grocery store, the highest food insecurity rate, the greatest population with low-income and low access to a grocery store, the most people ages 65+ with low access to a grocery store, and greatest number of people with low access to a grocery store (*Table 36: Access to Food*).

**Table 36: Access to Food**

Indicator	Year	Allen	Huntington	Kosciusko	LaGrange	Noble	Wabash	Whitley
<b>Children w/ Low Access to a Grocery Store</b>	2015	7.8%	5.4%	4.9%	0.0%	1.7%	1.9%	1.3%
<b>Fast Food Restaurant Density*</b>	2014	0.66	0.84	0.69	0.21	0.55	0.81	0.60
<b>Food Insecurity Rate</b>	2017	13.3%	11.4%	10.0%	9.2%	9.4%	11.9%	10.1%
<b>Households w/ No Car and Low Access to a Grocery Store</b>	2015	2.7%	2.1%	3.1%	21.4%	2.9%	2.6%	1.5%
<b>Low-Income and Low Access to a Grocery Store</b>	2015	9.8%	8.5%	5.6%	0.1%	2.1%	4.7%	1.9%
<b>65+ with Low Access to a Grocery Store</b>	2015	3.8%	3.6%	2.4%	0.0%	0.5%	1.1%	0.6%
<b>Low Access to a Grocery Store</b>	2015	30.4%	22.2%	18.3%	0.2%	5.7%	10.5%	5.1%
<b>SNAP Certified Stores*</b>	2016	0.8	0.8	0.8	0.5	0.7	0.9	0.8

\*Per 1,000 population

## Homeownership and Housing Affordability

The net income and wealth of an individual affects homeownership. "Housing is commonly considered *affordable* when a family spends less than 30 percent of its income to rent or buy a residence. ("How Does Housing Affect Health?," 2011). The shortage of affordable housing limits a family's options in choosing their place of residence. This ultimately leads to poor families living in subsidized housing in neighborhoods that are unsafe and lack the assets needed for healthier lifestyle e.g., parks, bike paths, walking tracks, recreational activities, and grocery stores with healthy selections. The burden faced by families to afford housing affects their ability to meet other essential needs like nutrition and healthcare.

Whitley County had the highest percentage of homeownership at 73.4% and Kosciusko County had the lowest at 59.5%. Severe housing problems are highest in LaGrange County (15.1%). Huntington County has the least affordable rental housing with nearly half of the renters spending more than 30% of their income (*Table 37*).

**Table 37: Homeownership**

Indicator	Year	Allen	Huntington	Kosciusko	LaGrange	Noble	Wabash	Whitley
<b>Homeownership</b>	2013-2017	62.5%	69.8%	59.5%	68.0%	66.4%	67.5%	73.4%
<b>Renters Spending 30% or More of Household Income on Rent</b>	2013-2017	45.1%	47.3%	37.9%	32.0%	39.8%	45.0%	39.9%
<b>Severe Housing Problems</b>	2011-2015	11.8%	10.6%	10.9%	15.1%	12.2%	10.9%	8.5%

## Public Safety

Public safety is another important social determinant of health. Just as affordable housing is important in achieving positive health outcomes, the conditions/environment surrounding the housing affect health outcomes. High crime rates can lead to mental distress, a lower quality-of-life, an increase in negative health outcomes, premature death, or non-fatal injuries (Margolin, Vickerman, Oliver, & Gordis, 2010). An example of the negative effect of a high crime rate in the neighborhood is a reluctance of residents to walk outdoors or permit their children to play or bike outside which encourages obesity and related health issues.

The violent crime rate was highest in Allen County at 295.9 per 100,000 population ([Table 38](#)).

**Table 38: Public Safety**

Indicator	Year	Allen	Huntington	Kosciusko	LaGrange	Noble	Wabash	Whitley
<b>Violent Crime Rate</b>	2014-2016	295.9	33.0	159.3	103.5	158.0	50.7	45.5*

\*2009-2011

## Social Environment

Social support and interaction are the most important factors in predicting one’s physical health and well-being, regardless of age (“The importance of social interaction to human health |,” n.d.). Today, people socialize more often with others through technology. Social media has become the preferred method of making, maintaining, and communicating with friendships and filling leisure time. Individuals use the Internet for various day-to-day activities like banking, paying bills, shopping, studying, and more.

LaGrange County has the lowest percentage of households with an internet subscription and households with one or more types of computing devices, 54.8% and 63.9%, respectively (Table 39). The high Amish population in LaGrange County may contribute to this. Civic engagement defined by voting shows more than 50% turnout in all counties.

An aging population suffers from a higher risk of social isolation than a younger population as indicated by Americas Health Rankings. The percentage of individuals 65 and older living alone ranges from 16.2% in LaGrange County to 30.4% in Allen County.

**Table 39: Social Environment**

Indicator	Year	Allen	Huntington	Kosciusko	LaGrange	Noble	Wabash	Whitley
Households with an Internet Subscription	2013-2017	78.9%	73.7%	75.3%	54.8%	76.1%	70.9%	76.0%
Households with >= 1 Type of Computing Device	2013-2017	88.1%	85.4%	85.5%	63.9%	85.5%	85.4%	88.0%
People 65+ Living Alone	2013-2017	30.4%	26.1%	24.4%	16.2%	28.1%	27.6%	25.7%
Voter Turnout: Presidential Election	2016	55%	63%	61%	71%	56%	61%	71%

## Transportation

Transportation is often cited as a barrier to healthcare access, especially in rural areas. The consequences of this hurdle include rescheduled or missed appointments, delayed care, and missed or delayed medication use (“Traveling Towards Disease: Transportation Barriers to Health Care Access,” n.d.) which leads to inadequate management of chronic illness and deficient health outcomes. In Indiana, a nonexistent comprehensive public transportation system contributes to this dilemma. (Table 40). Individuals using public transport to commute to work is less than one percent in all counties. Households without a vehicle is highest in LaGrange County at 27.8%. The preference of the Amish population to use horses and wagons rather than motor vehicles is likely reflected in this observation.

**Table 40: Transportation**

Indicator	Year	Allen	Huntington	Kosciusko	LaGrange	Noble	Wabash	Whitley
<b>Households without a Vehicle</b>	2013-2017	6.3%	4.8%	6.3%	27.8%	5.3%	4.5%	3.6%
<b>Workers Commuting by Public Transportation</b>	2013-2017	0.8%	0.3%	0.1%	0.2%	0.0%	0.7%	0.3%

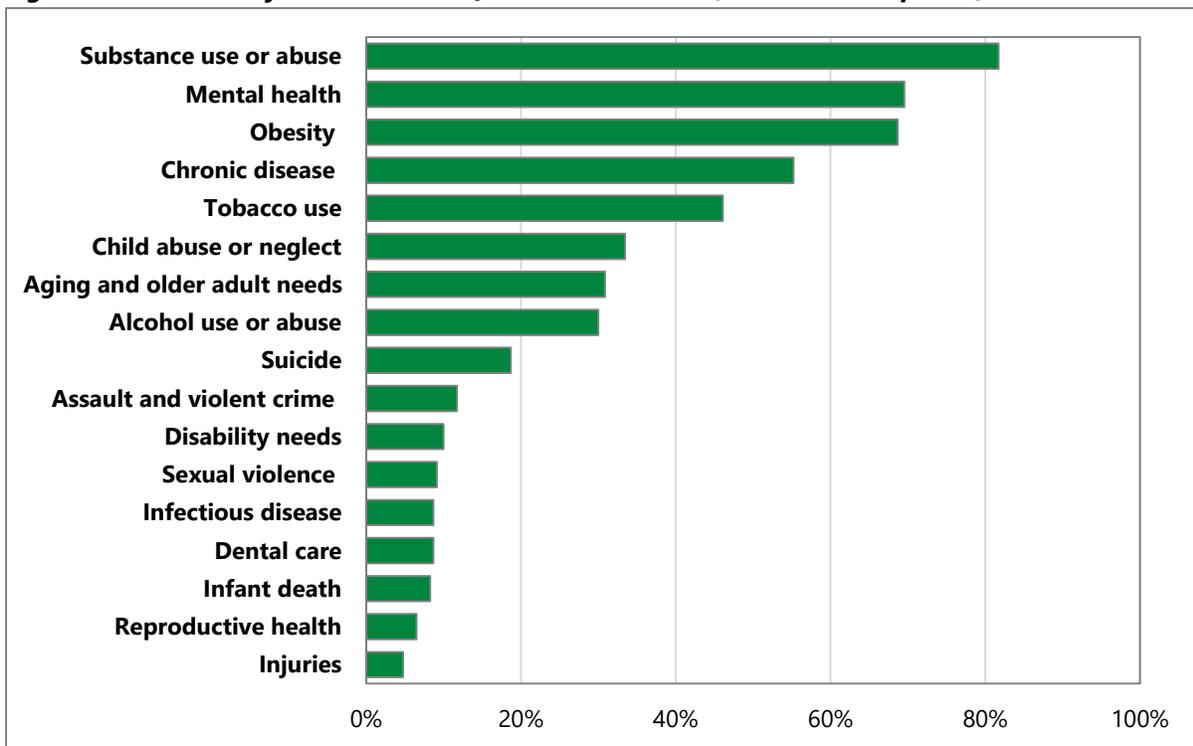
# COMMUNITY PERCEPTIONS

## PROVIDER SURVEY RESULTS

### Top Community Health Concerns (Provider Perceptions)

Providers perceive that the top three greatest community health needs are **substance abuse services** (81.7%), **mental health counseling** (69.6%) and **obesity** (68.7%) (*Figure 18*).

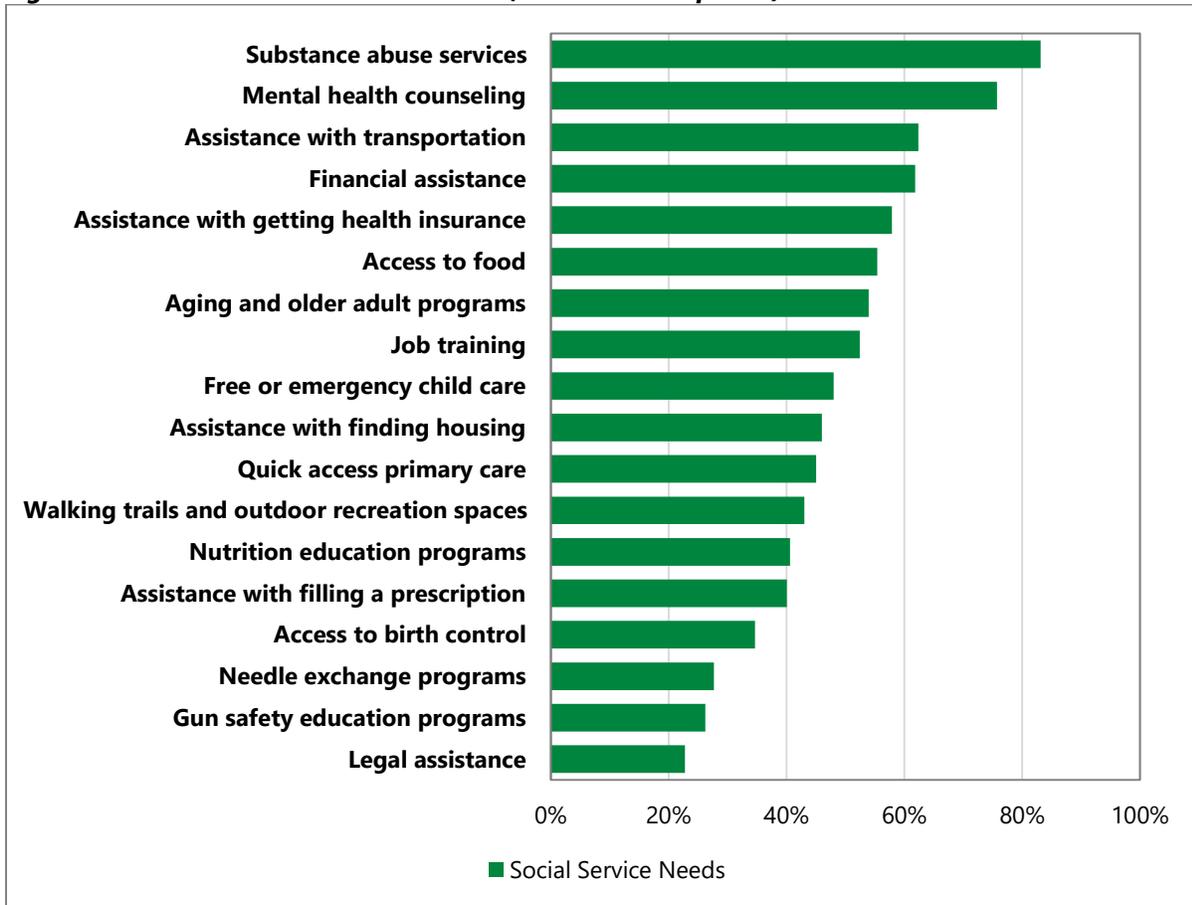
**Figure 18: Community Health Issues of Greatest Concern (Provider Perceptions)**



## Most Important Service Needs (Provider Perceptions)

The three most important service needs identified by providers across the Parkview Health service area include **substance abuse services** (83.2%), **mental health counseling** (75.7%), and **assistance with transportation** (62.4%) (*Figure 19*).

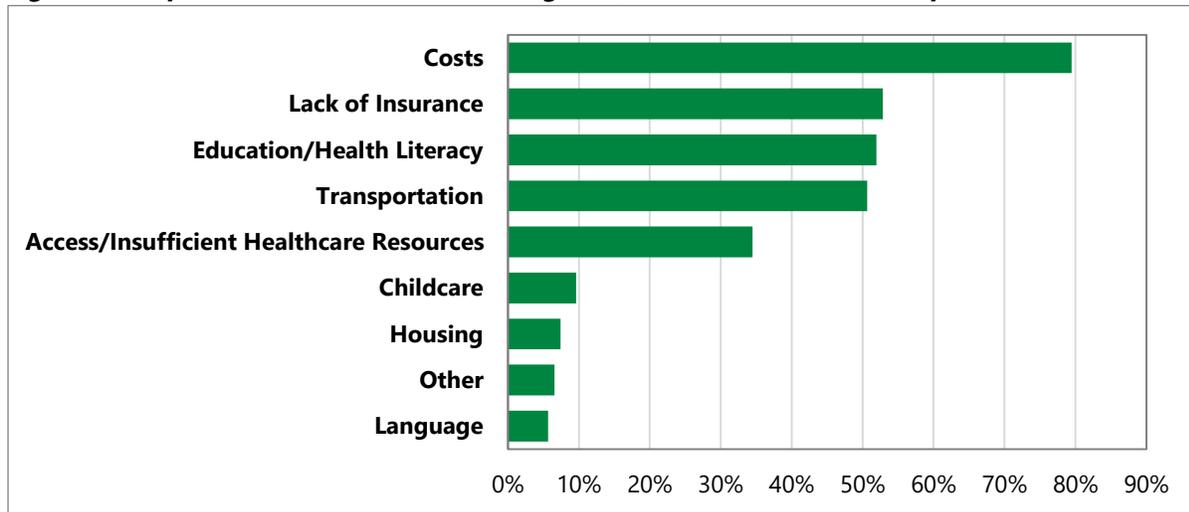
**Figure 19: Greatest Social Service Needs (Provider Perceptions)**



## Top Barriers to Care/Service Access (Provider Perceptions)

Providers identified **cost** as the biggest barrier faced by community members when accessing care/services (79.5%). Providers also identified **lack of insurance** (52.8%), **education/health literacy** (52%), and **transportation** (50.7%) as major concerns (*Figure 20*).

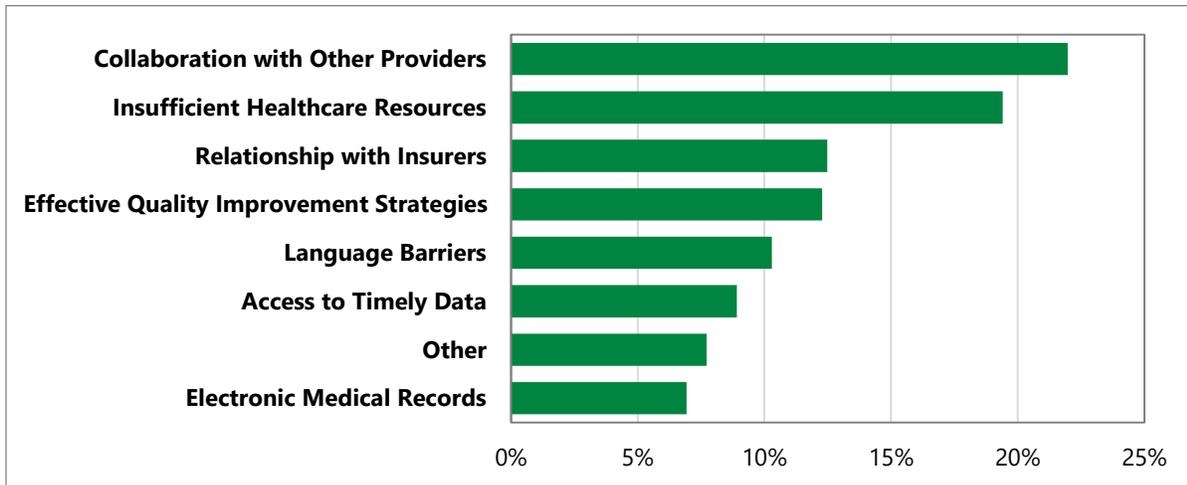
**Figure 20: Top Barriers to Patients Accessing Care/Services (Provider Perceptions)**



## Top Barriers to Care/Service Delivery (Provider Perceptions)

Providers identify the top barriers in care/service delivery as the **lack of collaboration or communication in community member care** (22%), **insufficient healthcare resources**, (19.4%), and the **relationship with the insurers** (12.5%). (Figure 21)

**Figure 21: Top Barriers to Providing Care/Services (Provider Perceptions)**

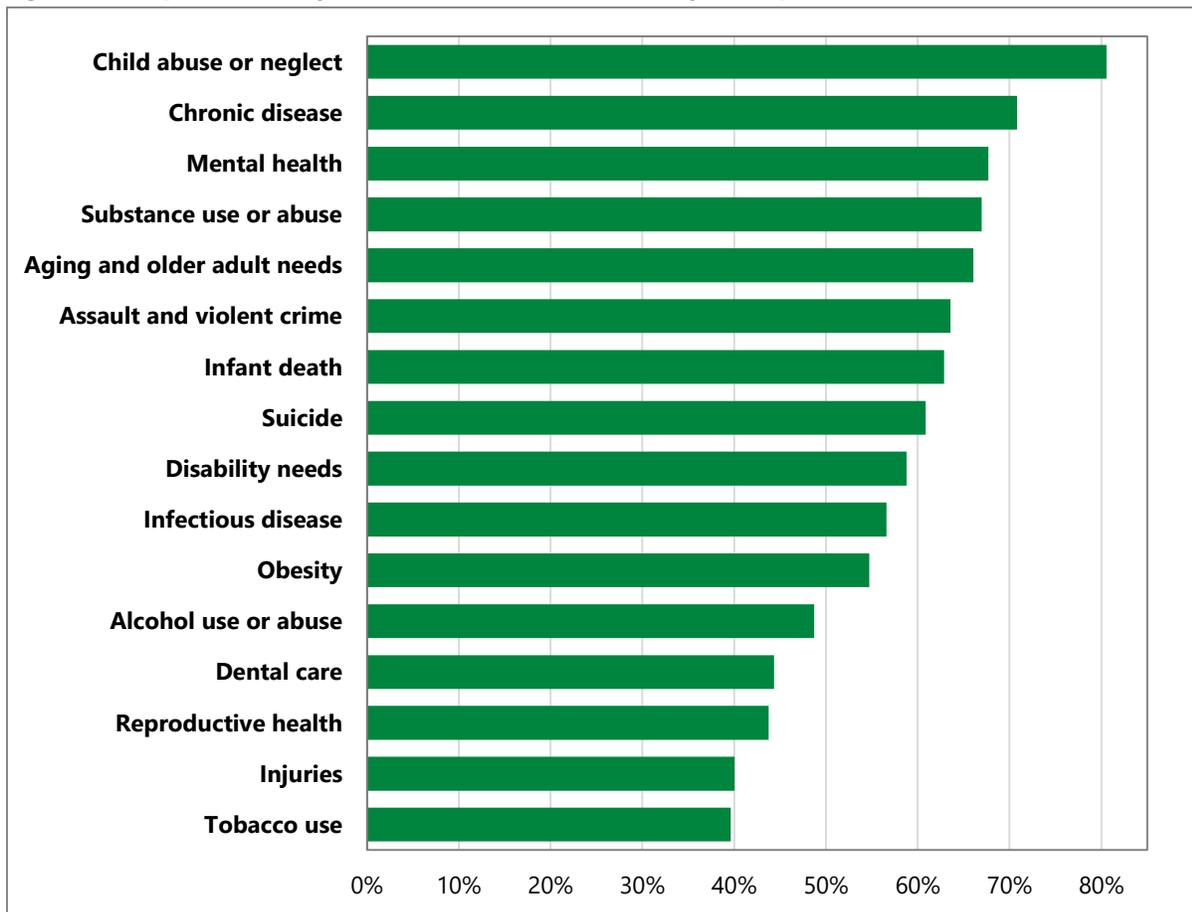


# COMMUNITY SURVEY RESULTS

## Community Health Concerns

Public survey respondents in the Parkview region ranked **child abuse or neglect** as their top (80.6%) health concern, followed by **chronic disease** (70.8%) and **mental health** (67.7%). (Figure 22).

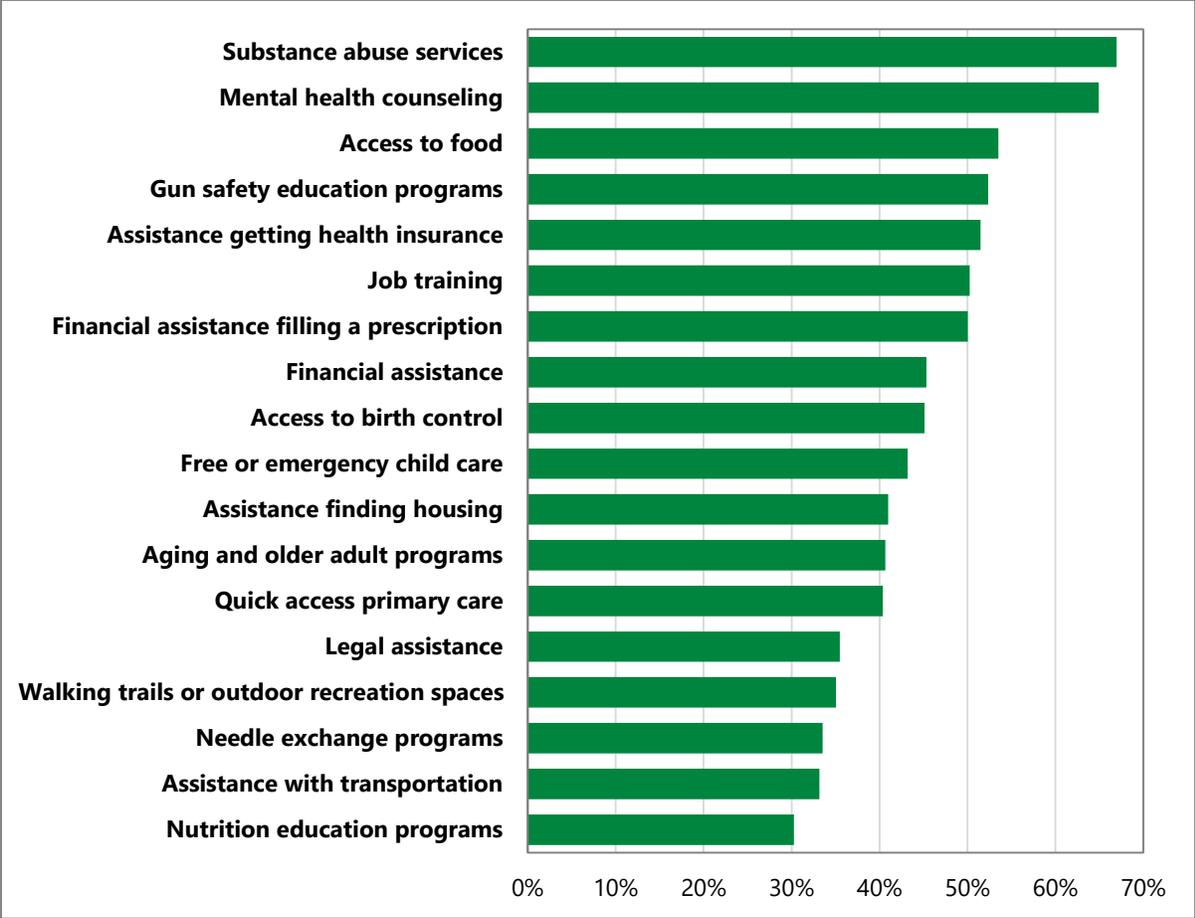
**Figure 22: Top Community Health Concerns (Community Perceptions)**



## Social Issues Important to the Community

**Substance abuse services** is most frequently indicated by community respondents as a top social service issue for their community (67.0%), followed by **mental health counseling** (64.9%) and **access to food** (53.5%) (*Figure 23*).

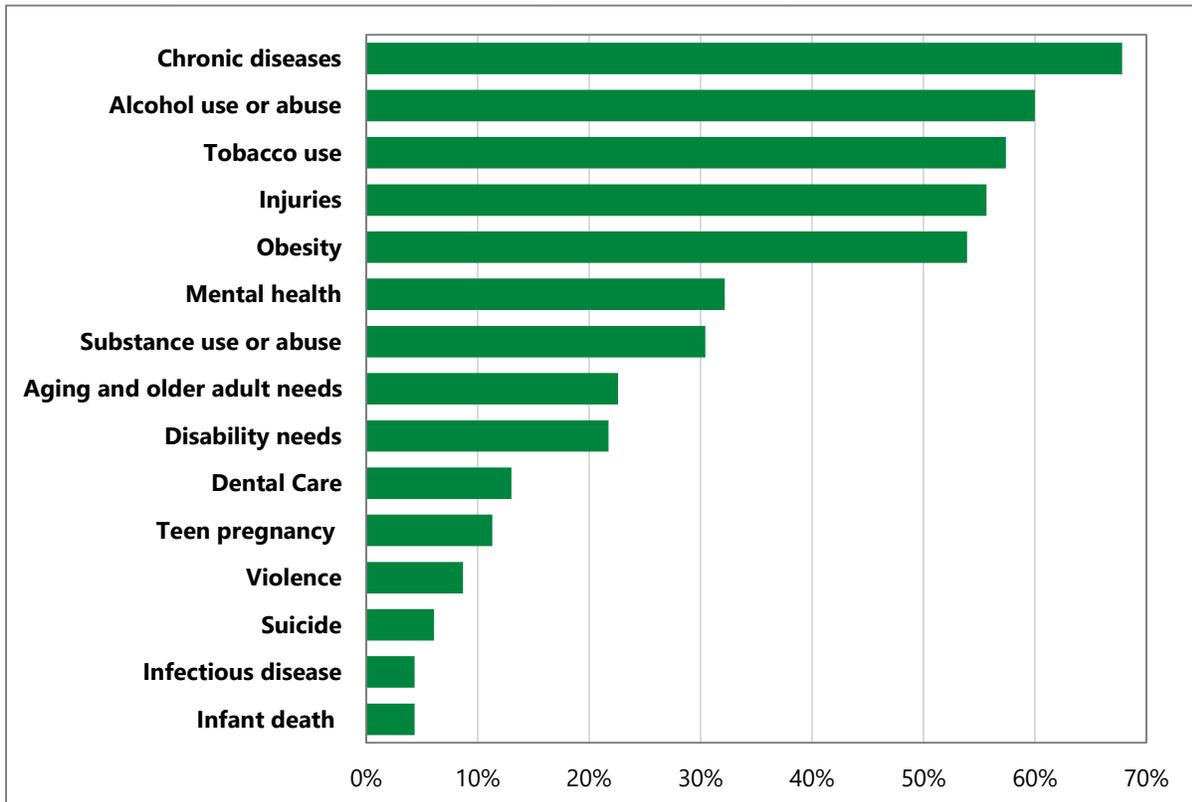
**Figure 23: Top Social Service Needs (Community Perceptions)**



## AMISH COMMUNITY SURVEY RESULTS

The Amish community survey results indicate the top community health concerns are **chronic diseases** (67.8%), **alcohol use or abuse** (60%), **tobacco use** (57.4%), **injuries** (55.7%), and **obesity** (53.9%). A detailed report comparing survey results from 2016 and 2019 serves as a companion piece to this CHNA report.

**Figure 24: Top Health Concerns Identified by Amish Community**

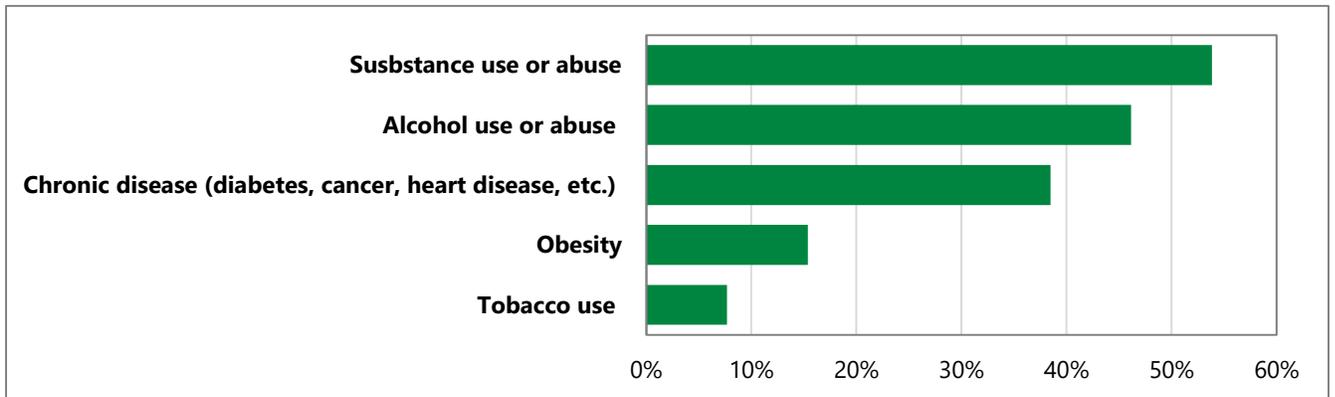


In the 2016 Parkview Health CHNA, the health issues perceived as “big problems” by the Amish community were **drug use** (72.4%), **overweight/obese** (65.5%), and **alcohol use** (60.3%). In 2019, **substance use** (“drug abuse” in 2016) ranked seventh among the top health issues, suggesting a decline in perceived importance. In 2019, the top three issues are **chronic diseases** (ranked first), **alcohol use/abuse** (ranked second), and **smoking** (ranked third).

## HISPANIC FOCUS GROUP RESULTS

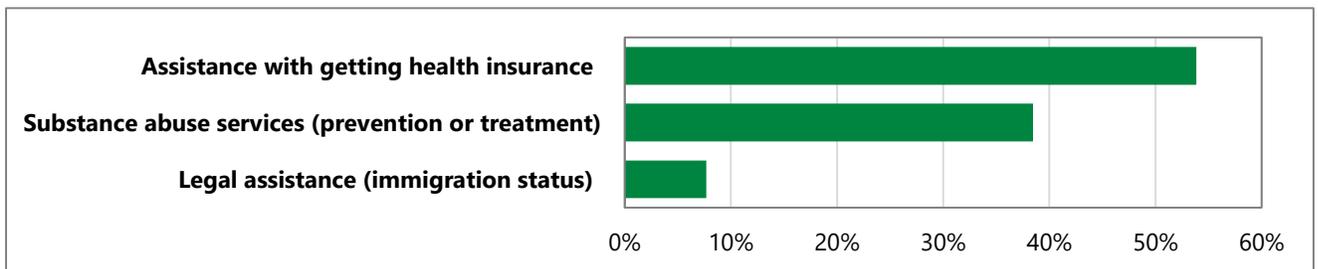
The Hispanic focus group participants identified the top five unmet service needs in Kosciusko County as (in order) **substance use or abuse** (54%), **alcohol use or abuse** (46%), and **chronic disease** (diabetes, cancer and heart disease etc. (38%).

**Figure 25: Top Community Health Concerns (Hispanic Focus Group Perceptions)**



The group identified the highest priority unmet needs as **assistance with getting health insurance** (54%), **substance abuse services treatment** (prevention or treatment) (38%), and **legal assistance** (including for immigration status) (8%).

**Figure 26: Top Social Service Needs (Hispanic Focus Group Perceptions)**



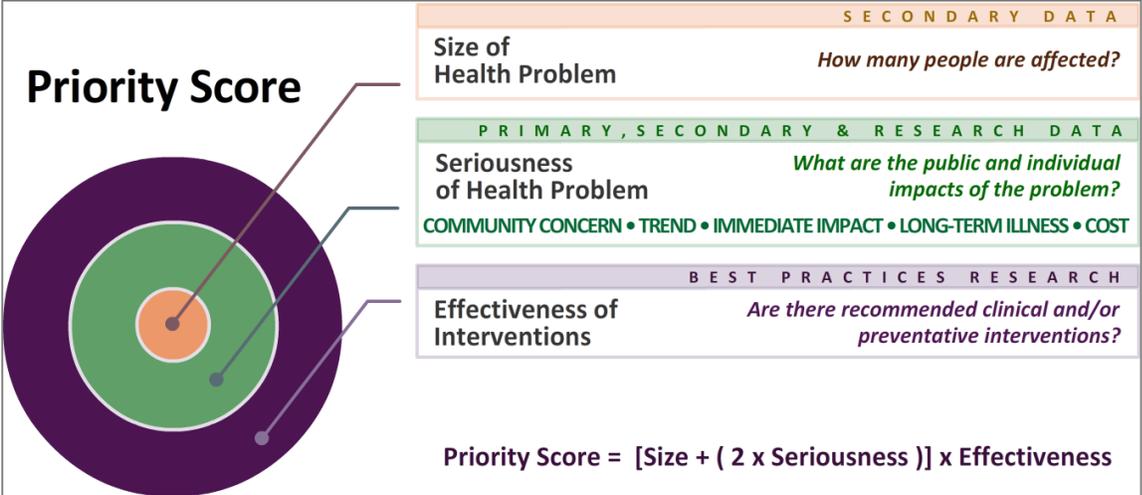
More details can be found in the Hispanic Focus Group Report, produced as a companion piece to this CHNA report.

# RANKING COMMUNITY HEALTH NEEDS

## PROCESS AND CRITERIA

A modified Hanlon Method prioritized health concerns for Parkview Health hospital communities. This method, also known as the Basic Priority Rating System (BPRS) 2.0, is recommended by the National Association of County and City Health Officials (NACCHO) for prioritizing community health needs (*Guide-to-Prioritization-Techniques.pdf*, n.d.). Although complex to implement, it is useful when the desired outcome is an objectively selected list. Explicit identification of factors must be considered to set priorities which enables a transparent and replicable process. As illustrated in *Figure 27*, priority scores (D) are calculated based on the size of the health problem (A), seriousness of the health problem (B), and the availability of effective health interventions (C).

**Figure 27: Components of the Priority Score**



S E C O N D A R Y   D A T A

**Size of Health Problem**

*How many people are affected?*

Population percentage estimates of each health problem are calculated and used to measure the **size** of a health problem following the recommendations of Neiger et al. (Neiger, Thackeray, & Fagen, 2011). The assigned size score of each health indicator are shown in column A of the scoring tables in Appendix B.

P R I M A R Y , S E C O N D A R Y & R E S E A R C H   D A T A

**Seriousness of Health Problem**

*What are the public and individual impacts of the problem?*

COMMUNITY CONCERN • TREND • IMMEDIATE IMPACT • LONG-TERM ILLNESS • COST

The **seriousness** of each health problem was determined based on five questions.

1. Is there an immediate potential impact on the larger community?
  - Is there a **communicable nature** of the health problem?
  - Are there **behavioral effects** related to the health problem **on others**?
  - Is there **emotional and physical impact** of the health problem **on others** with respect to caregiving?
2. Is there a measurable **public health concern**?  
(Measured using the Community and Provider Survey results)
3. Does the problem cause **long term illness**?  
(Years of life lived with a disability and years lost due to premature death)
4. Is there an **increasing prevalence** of the problem in the community?  
(Based on time trends of affected population)
5. Are there **high costs** associated with the problem?  
(Healthcare spending associated with the health problem)

Seriousness scores are shown in column B of the scoring tables in Appendix B.

## Effectiveness of Interventions

*Are there recommended clinical and/or preventative interventions?*

The final criterion, **effectiveness of interventions**, was calculated using two resources for systematic reviews: *CDC's Community Guide* and *HealthEvidence.org*. The *Community Guide* recommended by NACCHO was used as the main source ("Health Evidence," n.d.; "The Guide to Community Preventive Services (The Community Guide)," n.d.). The *Community Guide* conducts systematic reviews of interventions in many topic areas to learn what works to promote public health. The Community Preventive Services Task Force uses the results of these reviews to issue evidence-based recommendations and findings to the public health community. Only the Task Force's recommended interventions were considered in this report.

For health problems not found in the *Community Guide*, *HealthEvidence.org* was used. *HealthEvidence.org* is a registry of systematic reviews maintained by McMaster University in Canada to promote evidence-based public health. Interventions evaluated in high-quality studies and recommended by reviewers were used in this report.

Scores were assigned based on whether a policy or preventive and/or therapeutic intervention was recommended by either of these sources, as outlined below.

- At least one recommended policy, preventive, or therapeutic intervention = 1 point
- No recommended interventions = 0 points

For each health indicator, the effectiveness score, basic priority score, and resulting rank are shown in columns C, D, and E, respectively, of the table in **Appendix B**.

## RANKING OF COMMUNITY HEALTH ISSUES

The 2019 top-ranking indicators for the Parkview Health region are shown in *Table 41*. Three of the top four health concerns—**cardiovascular disease, diabetes, and obesity**—are etiologically and clinically related health issues. If we consider the top 10 health concerns in the region, two other related needs are identified: **drug and alcohol use** and **addiction and mental health**. Mental health disorders are one of the risk factors for developing substance use disorder. Child abuse and neglect—showing up at topmost health concern for Whitley County—is also a risk factor for substance use. These rankings are indicative of interrelated and interconnected health conditions, providing a broader picture of the health issue experienced by the community and rendering credence to the methodology adopted for this purpose. Comparing the rankings for 2019 community health needs assessment for Parkview Region with 2016 community health needs assessments, we see that among the top five health needs, only aging has moved to the top five (from Rank 12 to 3). Changes in the methodology for calculating “size of the health issue” and “effectiveness of intervention” may have contributed to this change.

Health Need / Concern	Health Indicator	2019 Rank								2016 Rank
		Allen	Huntington	Kosciusko	LaGrange	Noble	Wabash	Whitley	Avg Rank	
1. <b>Cardiovascular Disease</b>	Stroke Hospitalizations	1	2	1	1	1	1	1	1.1	6
	Heart Disease Hospitalizations	1	1	1	1	1	1	3	1.3	
2. <b>Diabetes</b>	Adults 20+ with Diabetes	1	2	1	1	1	1	3	1.4	3
3. <b>Aging</b>	Alzheimer's Disease	5	4	4	1	4	4	3	3.6	12
4. <b>Obesity</b>	Adults 20+ who are Obese	5	6	6	1	4	4	3	4.1	2
5. <b>Drug &amp; Alcohol Use and Addiction</b>	Non-Fatal ED Visits due to Opioid Overdoses	1	4	4	12	10	4	11	6.6	5
6. <b>Mental Health</b>	Percent of Population with Frequent Mental Distress	7	7	7	10	6	7	7	7.3	10
<b>Drug &amp; Alcohol Use and Addiction</b>	Adults who Drink Excessively	8	7	8	6	6	10	9	7.7	5
7. <b>Tobacco Use</b>	Adults who Smoke	8	7	12	8	8	8	7	8.3	1
8. <b>Maternal Child Health</b>	Child Abuse and Neglect	10	10	17	6	8	8	1	8.6	4

**Table 41: Top Ranking Indicators**

# SELECTING 2020-2022 PRIORITIES

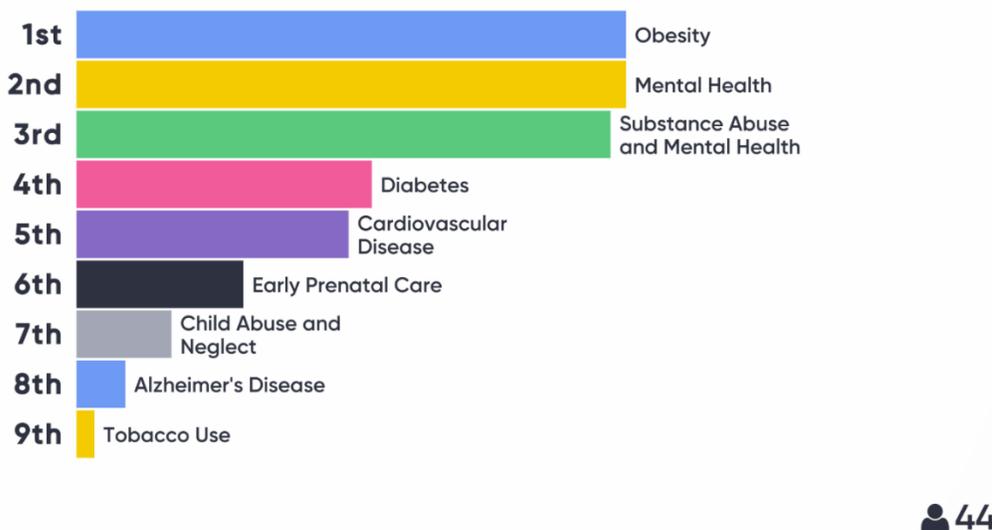
## PRIORITY SELECTION PROCESS

As part of its priority selection process, Parkview Health considered the availability of evidence-based interventions designed to address its top ranking health issues. The “PEARL” (Propriety, Economics, Acceptability, Resources, and Legality) test eliminates impractical or impracticable interventions (Vilnius & Dandoy, 1990).

## SELECTED PRIORITIES

Based on the CHNA findings and consideration of the suitability, community acceptance, and available resources of the identified interventions, Parkview Health held an onsite meeting on July 15, 2019 including a group of 49 Parkview employees (registered nurses, social workers, practice managers, community outreach personnel, physicians, and board members). The assessment team presented the CHNA findings and the final Hanlon scoring. An online vote was conducted for the selection of top three priorities. *Figure 28* shows the results of the online voting. Obesity and mental health tied as the number one priority, followed by substance abuse.

**Figure 28: Parkview Initial Voting Results**



After further discussion, the group decided to group together etiologically and clinically inter-related health concerns and vote again to choose one top priority for the region. The results of this second vote are shown in *Figure 29*. As a result of this second vote, substance abuse and mental health were selected as the region’s top most priority for the year 2020-2022.

**Figure 29: Parkview Final Voting Results**



## RESOURCES

Resources in the Parkview Health System service area for addressing community health are listed in Appendix C.

# DATA LIMITATIONS

**Secondary Data:** One of the most notable limitations of the secondary data is that different data sources applied different models to estimate community health indicators. Some indicators were based on administrative data while others were based on sample surveys. In addition, secondary data was sourced from different data years, based on data availability. The available data ranged from a 2010–2014 five-year average to 2018.

Another notable limitation is that when morbidity rates were not available, hospitalization rates and mortality rates were used. Hospitalization rates are available from state hospital associations and are often used as surrogate measures of community health need. Hospitalization rates typically are based on patient home address versus treatment location, which is appropriate when attempting to use these rates to measure community health. However, a limitation is that hospitalization rates and mortality rates may underreport the rate of a health condition because hospitalization rates only capture data from individuals who seek hospital care and do not capture data from individuals who have the health condition but do not receive associated hospital care. Another limitation is that populations with closer proximity to a hospital facility may be more likely to seek treatment for health conditions implying that a hospital facility has populations with higher rates of health conditions.

**Provider Survey:** The principal limitation of the provider survey is that it was not conducted using a random sampling technique and may reflect response bias. This means that the responses were not necessarily representative of the full population of Parkview providers. Another limitation is that respondents were asked to select from pre-defined lists of disadvantaged populations and potential concerns. While the list of possible concerns was developed based on expert knowledge, it is possible that there are other concerns that were not listed.

**Community Survey:** A general limitation of broad community surveys is that participation tends to be greater among retirees or those otherwise unemployed compared to younger, employed persons. To address this concern, statistical weighting is used by the Survey Research Laboratory of the School of Public Health at the University of Alabama at Birmingham. Also, although the size of the random population sample allowed for conclusions to be made for the Parkview Health System primary service area as a whole, a sufficient sample was not obtained in each county to allow for county specific statistics to be generated. This made the information obtained from the Provider Survey even more important.

# THREE YEAR IMPACT REPORT

The three-year impact reports for each hospital in the Parkview Health System are included in their respective CHNA reports.

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# APPENDIX A: PROVIDER SURVEY

**Table 42: Most Urgent Community Needs Identified in Provider Survey**

Community Need	Allen	Huntington	Kosciusko	LaGrange	Noble	Wabash	Whitley	Region
	% of Providers Responding that Need was Amongst the Most Urgent							
<b>Substance abuse services</b>	79.5%	64.0%	66.7%	93.3%	81.3%	95.7%	87.5%	83.2%
<b>Mental health counseling</b>	80.8%	54.4%	66.7%	79.7%	75.7%	73.9%	68.8%	75.7%
<b>Assistance with transportation</b>	61.6%	54.4%	50.0%	74.5%	71.1%	73.9%	75.0%	62.4%
<b>Financial assistance</b>	61.6%	64.0%	50.0%	69.5%	58.8%	69.6%	81.3%	61.9%
<b>Assistance with getting health insurance</b>	71.2%	60.8%	33.3%	56.1%	64.3%	60.9%	68.8%	57.9%
<b>Access to food</b>	52.1%	73.6%	33.3%	64.7%	60.2%	65.2%	50.0%	55.4%
<b>Ageing and older adult programs</b>	60.3%	76.8%	50.0%	46.3%	74.9%	52.2%	50.0%	54.0%
<b>Job training</b>	52.1%	67.2%	16.7%	42.0%	48.0%	52.2%	75.0%	52.5%
<b>Free or emergency child care</b>	45.2%	57.6%	50.0%	46.8%	43.3%	43.5%	56.3%	48.0%
<b>Assistance with finding housing</b>	47.9%	48.0%	66.7%	64.3%	43.6%	60.9%	31.3%	46.0%
<b>Quick access primary care</b>	42.5%	54.4%	33.3%	74.5%	80.1%	21.7%	37.5%	45.0%
<b>Walking trails, outdoor recreation spaces</b>	43.8%	51.2%	33.3%	60.4%	60.2%	30.4%	37.5%	43.1%
<b>Nutrition education programs</b>	49.3%	60.8%	50.0%	32.5%	49.7%	39.1%	31.3%	40.6%
<b>Assistance with filling a prescription</b>	50.7%	44.8%	33.3%	51.3%	32.5%	39.1%	43.8%	40.1%
<b>Access to birth control</b>	43.8%	41.6%	0.0%	32.0%	37.7%	21.7%	56.3%	34.7%
<b>Needle exchange programs</b>	31.5%	41.6%	0.0%	22.7%	21.1%	26.1%	25.0%	27.7%
<b>Gun safety education programs</b>	39.7%	28.8%	16.7%	9.1%	21.6%	30.4%	31.3%	26.2%
<b>Legal assistance</b>	31.5%	28.8%	16.7%	9.1%	32.2%	30.4%	0.0%	22.8%

# APPENDIX B: SCORING OF COMMUNITY HEALTH NEEDS

**Table 43: Priority Scores and Ranking**

HCI Health Indicator (Those in lowest performing quartile of Indiana counties for at least one county served by a Parkview Health hospital)	OVERALL										
	Size of Health Problem (A) <sup>^</sup>		Seriousness of Health Problem (B) <sup>†</sup>					Effectiveness of Interventions (C) <sup>^^</sup>		Priority Score (D) <sup>^^^</sup>	Rank
	Size of Health Problem (%)	Score	Q1	Q2	Q3	Q4	Q5	Score	Score		
Stroke Hospitalizations	0.24	3	0.5	3.01	2	0.20	2	7.70	1	18.41	1
Heart Disease Hospitalizations	0.91	4	0	3.01	2	0.17	2	7.18	1	18.35	2
Adults 20+ with Diabetes	11.34	7	0.5	3.01	0.5	0.17	1.5	5.68	1	18.35	2
Alzheimer's Disease or Dementia	1.59	5	2	2.09	1	0.14	1	6.23	1	17.47	4
Adults 20+ who are Obese	33.10	9	0	2.47	0.5	0.17	1	4.14	1	17.29	5
Non-Fatal Emergency Department Visits due to Opioid Overdoses	0.09	2	2	3.50	0.5	1.60	0	7.60	1	17.21	6
Percent of Population with Frequent Mental Distress	11.76	7	0.5	1.94	1	0.14	1	4.58	1	16.16	7
Adults who Drink Excessively	18.24	8	2	1.07	0.5	0.21	0	3.77	1	15.55	8
Adults who Smoke	19.22	8	1	1.02	0	0.11	1.5	3.64	1	15.27	9
Child Abuse and Neglect Rate	1.20	5	2	2.68	0	0.22	0	4.90	1	14.80	10
Mothers who did not Receive Early Prenatal Care	41.67	9	1.5	1.00	0	0.17	0	2.67	1	14.34	11
Breast Cancer Incidence Rate	0.12	3	0	3.01	2	0.14	0.5	5.65	1	14.30	12

<b>Adult Asthma Prevalence</b>	10.00	7	0.5	3.01	0	0.11	0	3.62	1	14.24	<b>13</b>
<b>Osteoporosis: Medicare Population (Prorated)</b>	0.82	4	0.5	2.09	1	0.11	1	4.70	1	13.41	<b>14</b>
<b>Prostate Cancer Incidence Rate</b>	0.09	2	0	3.01	2	0.06	0.5	5.56	1	13.13	<b>15</b>
<b>Oral Cavity and Pharynx Cancer Incidence Rate</b>	0.01	1	0	3.01	2	0.20	0.5	5.70	1	12.40	<b>16</b>
<b>Salmonella Infection Incidence Rate</b>	0.02	1	2	1.00	1	0.44	0.5	4.94	1	10.88	<b>17</b>
<b>Gonorrhea Incidence Rate</b>	0.13	3	2	1.00	0	0.75	0	3.75	1	10.50	<b>18</b>
<b>Hepatitis C Prevalence</b>	0.08	2	2	1.00	0	0.58	0.5	4.08	1	10.15	<b>19</b>
<b>Injury Emergency Department Visits Per 10k</b>	7.98	6	0	0.27	0.5	0.14	1	1.91	1	9.83	<b>20</b>
<b>Chlamydia Incidence Rate</b>	0.46	3	2	1.00	0	0.33	0	3.33	1	9.65	<b>21</b>
<b>Age-Adjusted Death Rate due to Chronic Lower Respiratory Diseases</b>	0.05	2	0	3.01	0	0.14	0	3.15	1	8.30	<b>22</b>
<b>Age-Adjusted Death Rate due to Influenza and Pneumonia</b>	0.01	1	1	1.00	0	0.06	0.5	2.56	1	6.12	<b>23</b>
<b>Chronic Kidney Disease: Medicare Population (Prorated)</b>	3.51	5	0	3.01	0	0.27	0	3.28	0	0.00	<b>24</b>

<sup>^</sup> Size (A) [10]	<sup>†</sup> Seriousness (B)	<b>Q3 Severity (Disability)</b>	<b>Q5 Economic Costs</b>	<sup>^^</sup> Effectiveness of Intervention (C)																														
<table border="1"> <thead> <tr> <th>Score</th> <th>% of Population</th> </tr> </thead> <tbody> <tr> <td>10</td> <td>&gt;= 50%</td> </tr> <tr> <td>9</td> <td>25 to &lt; 50%</td> </tr> <tr> <td>8</td> <td>17.5 to &lt; 25%</td> </tr> <tr> <td>7</td> <td>10 to &lt; 17.5%</td> </tr> <tr> <td>6</td> <td>5 to &lt; 10%</td> </tr> <tr> <td>5</td> <td>1 to &lt; 5%</td> </tr> <tr> <td>4</td> <td>0.50 to &lt; 1%</td> </tr> <tr> <td>3</td> <td>0.10 to &lt; 0.50%</td> </tr> <tr> <td>2</td> <td>0.05 to &lt; 0.10%</td> </tr> <tr> <td>1</td> <td>0.01 – &lt; 0.05%</td> </tr> <tr> <td>0</td> <td>0 – &lt; 0.01% (1/100 of 1%)</td> </tr> </tbody> </table>	Score	% of Population	10	>= 50%	9	25 to < 50%	8	17.5 to < 25%	7	10 to < 17.5%	6	5 to < 10%	5	1 to < 5%	4	0.50 to < 1%	3	0.10 to < 0.50%	2	0.05 to < 0.10%	1	0.01 – < 0.05%	0	0 – < 0.01% (1/100 of 1%)	<p>Includes Q1 – Q5, as follows:</p> <p><b>Q1 Impact on Others</b> Three aspects of the health issue: 1. Communicable? 1 if Yes, 0 if No. 2. Behavioral effects on others? 1 if Yes, 0 if No. 3. Caregiving required? 1 if Constant, 0.5 if Periodic, 0 if None. Impact value equals the sum of the above.</p> <p><b>Q2 Level of Community Concern</b> Based on % of community survey respondents that indicated issue was a priority need. Possible values: 0, 0.5, 1, 1.5, 2. These were then combined with provider survey results with same possible values yielding total values from 0-4 A value of 4 represents the highest level of concern and 0 the lowest.</p>	<p>Based on time lived with disability and time lost due to premature death [1] Possible values: 0, 0.5, 1, 1.5, 2. A value of 2 represents highest level of disability and 0 the lowest.</p> <p><b>Q4 Urgency</b> Based on rate of increasing trend as measured as a rolling rate of change for all years available in the time series. Possible values: 0, 0.5, 1, 1.5, 2. A value of 2 represents highest rate of increase and 0 the lowest.</p>	<p>Based on estimated % of total U.S. healthcare costs [2-17] Possible values: 0, 0.5, 1, 1.5, 2. A value of 2 represents highest cost and 0 the lowest.</p> <p><b>Score</b> Q1 + Q2 + Q3 + Q4 + Q5</p>	<p>Based on existence of at least one evidence-based intervention, as per evidence presented in the CDC Community Guide or HealthEvidence.org (2019).</p> <table border="1"> <thead> <tr> <th>Evidence-based Interventions</th> <th>Score</th> </tr> </thead> <tbody> <tr> <td>Yes</td> <td>1</td> </tr> <tr> <td>No</td> <td>0</td> </tr> </tbody> </table> <p><sup>^^</sup><b>Priority Score (D)</b> = [A + ( 2 x B ) ] x C</p>	Evidence-based Interventions	Score	Yes	1	No	0
Score	% of Population																																	
10	>= 50%																																	
9	25 to < 50%																																	
8	17.5 to < 25%																																	
7	10 to < 17.5%																																	
6	5 to < 10%																																	
5	1 to < 5%																																	
4	0.50 to < 1%																																	
3	0.10 to < 0.50%																																	
2	0.05 to < 0.10%																																	
1	0.01 – < 0.05%																																	
0	0 – < 0.01% (1/100 of 1%)																																	
Evidence-based Interventions	Score																																	
Yes	1																																	
No	0																																	

## Appendix B References:

1. World Health Organization, *Global Health Estimates 2016: Disease burden by Cause, Age, Sex, by Country and by Region, 2000-2016*. 2018: Geneva, Switzerland.
2. Agency for Healthcare Research and Quality. *Medical Expenditure Panel Survey*. 2014 [cited 2018; Available from: [https://www.meps.ahrq.gov/mepsweb/data\\_stats/tables\\_compendia\\_hh\\_interactive.jsp?SERV ICE=MEPSSocket0& PROGRAM=MEPSPGM.TC.SAS&File=HCFY2014&Table=HCFY2014%5FCNDX P%5FC& Debug](https://www.meps.ahrq.gov/mepsweb/data_stats/tables_compendia_hh_interactive.jsp?SERV ICE=MEPSSocket0& PROGRAM=MEPSPGM.TC.SAS&File=HCFY2014&Table=HCFY2014%5FCNDX P%5FC& Debug).
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# APPENDIX C: RESOURCES

Name	City	ZIP Code	Service
<b>OBESITY</b>			
Turnstone	Fort Wayne	46805	Fitness Center
Central Branch YMCA	Fort Wayne	46802	Recreational Club
Cole Center Family YMCA	Kendallville	46755	Recreational Club
Jackson R Lehman YMCA	Fort Wayne	46835	Recreational Club
Jorgensen Family YMCA	Fort Wayne	46804	Recreational Club
Kosciusko Community YMCA	Warsaw	46582	Recreational Club
Kosciusko Community YMCA - North Webster Branch	N. Webster	46555	Recreational Club
Parkview Family YMCA	Fort Wayne	46825	Recreational Club
Renaissance Pointe YMCA	Fort Wayne	46803	Recreational Club
Skyline YMCA	Fort Wayne	46802	Recreational Club
Wabash County YMCA	Wabash	46992	Recreational Club
Park View Center for Healthy Living	Kendallville	46755	Wellness Program
Parkview Center for Healthy Living - FW	Fort Wayne	46816	Wellness Program
Parkview Center for Healthy Living - FW	Fort Wayne	46845	Wellness Program
Lakeland Youth Center	Syracuse	46567	Youth Center
<b>TOBACCO USE</b>			
Healthier Moms & Babies	Fort Wayne	46807	Baby & Me Tobacco Free
Kosciusko Cares Youth Services	Warsaw	46580	Baby & Me Tobacco Free
Parkview Hopstia Randallia	Fort Wayne	46805	Baby & Me Tobacco Free
SCAN	Fort Wayne	46802	Baby & Me Tobacco Free
Wabash County Tobacco Free Coalition	Wabash	46992	Baby & Me Tobacco Free
Wabash County Tobacco Free Coalition	Wabash	46993	Smoking Cessation
Cornerstone Connections Project - New Haven	New Haven	46774	VIVA
Cornerstone Youth Center - CYC Monroeville	Monroeville	46773	VIVA
Cornerstone Connections Project - Woodlawn	Woodburn	46797	VIVA
Parkview Center for Healthy Living	Kendallville	46755	Wellness Program
<b>MIC</b>			
Parkview Regional Medical Center - Women and Children's Hospital	Fort Wayne	46845	Breastfeeding Support
Parkview Hopstia Randallia	Fort Wayne	46805	Breastfeeding Support Group
Parkview Huntington Hospital	Huntington	46750	Breastfeeding Support Group
Parkview Lagrange Lactation Services	Lagrange	46761	Breastfeeding Support Group
Parkview Noble Hospital	Kendallville	46755	Breastfeeding Support Group

Parkview Regional Medical Center - Women and Children's Hospital	Fort Wayne	46845	Breastfeeding Support Group
Parkview Whitley Hospital	Columbia City	46725	Breastfeeding Support Group
Life & Family Services	Kendallville	46755	Campaign For Our Kids
Lutheran Hospital	Fort Wayne	46804	Childbirth Classes
Clinic	Warsaw	46580	Childhood Immunization
Fort Wayne-Allen County Department of Health	Fort Wayne	46802	Childhood Immunization
Lagrange County Health Department	Topeka	46571	Childhood Immunization
Lagrange County Health Department	Shipshewana	46565	Childhood Immunization
Lagrange County Health Department	Lagrange	46761	Childhood Immunization
Noble County Health Department	Albion	46701	Childhood Immunization
Super Shot	Fort Wayne	46806	Childhood Immunization
Super Shot	Fort Wayne	46845	Childhood Immunization
Super Shot	Fort Wayne	46805	Childhood Immunization
Super Shot	Grabill	46741	Childhood Immunization
Wabash County Health Department	Wabash	46992	Childhood Immunization
Whitley County Health Department	Columbia City	46725	Childhood Immunization
Safe Families for Children - Northeast Indiana	Fort Wayne	46825	Crisis Child Care
Clinic	Warsaw	46580	Early Start Prenatal Clinic/Care Coordination
Brightpoint	Fort Wayne	46802	Family Development
Neighborhood Health Clinics - South Calhoun Street	Fort Wayne	46802	Family Planning
Women's Care Center of Fort Wayne - East Wayne Street	Fort Wayne	46802	Family Planning
Women's Care Center of Fort Wayne - West Coliseum Boulevard	Fort Wayne	46808	Family Planning
Women's Care Center of Fort Wayne - West Jefferson Street	Fort Wayne	46804	Family Planning
Huntington County Division of Family Resources	Huntington	46750	Family Planning Eligibility Program
Kosciusko County Division of Family Resources	Warsaw	46580	Family Planning Eligibility Program
Lagrange County Division of Family Resources	Lagrange	46761	Family Planning Eligibility Program
Noble County Division of Family Resources	Albion	46701	Family Planning Eligibility Program
Vocational Rehabilitation Services - Areas 7 & 8	Fort Wayne	46806	Family Planning Eligibility Program
Wabash County Division of Family Resources	Wabash	46992	Family Planning Eligibility Program
Whitley County Division of Family Resources	Columbia City	46725	Family Planning Eligibility Program
Mcmillen Center for Health Education	Fort Wayne	46816	Human Growth and Development Education
Healthier Moms and Babies	Fort Wayne	46807	Mama Moods
Lutheran Hospital	Fort Wayne	46804	Mood Changes and Moms

Kosciusko Community Hospital	Warsaw	46580	Nursing Mothers Group
A Hope Center - Grabill	Grabill	46741	Post Abortion Healing
A Hope Center - South Calhoun	Fort Wayne	46807	Post Abortion Healing
A Hope Center Pregnancy and Relationship Services	Fort Wayne	46815	Post Abortion Healing
Life & Family Services	Kendallville	46755	Pregnancy and Parenting Resource Center
A Hope Center - Grabill	Grabill	46741	Pregnancy Testing
A Hope Center - South Calhoun	Fort Wayne	46807	Pregnancy Testing
A Hope Center Pregnancy and Relationship Services	Fort Wayne	46815	Pregnancy Testing
Area Five WIC - North Manchester	N. Manchester	46962	WIC Care
Area Five WIC - Wabash	Wabash	46992	WIC Care
Huntington County (Area Five) WIC	Huntington	46750	WIC Care
Kosciusko County WIC	Warsaw	46580	WIC Care
LaGrange County WIC	Lagrange	46761	WIC Care
Lafayette Street Family Health Clinic	Fort Wayne	46806	Women's Clinic
<b>ABUSE/ADDICTION</b>			
Salvation Army Adult Rehab Center	Fort Wayne	46802	Adult Rehab Center
AA - FW Intergroup	Fort Wayne	46815	Al-Anon / Alateen
AA - FW Intergroup	Fort Wayne	46815	Alcoholics Anonymous
Christian Community Health Care	Grabill	46741	Community Clinic
Friends Counseling Center - Huntington	Huntington	46750	Counseling
Friends Counseling Center - Wabash	Wabash	46992	Counseling
Northeastern Center	Kendallville	46755	Crisis Line
Otis R. Bowen Center for Human Services	Warsaw	46581	Crisis Line
Park Center - E State Boulevard	Fort Wayne	46805	Crisis Line
Mcmillen Center for Health Education	Fort Wayne	46816	Drug Abuse Prevention Education
YWCA of Northeast Indiana	Fort Wayne	46816	Hope and Harriet
Park Center - Carew Street	Fort Wayne	46805	Inpatient Mental Health
Connection Points Ministry - Columbia City	Columbia City	46725	Living Free Recovery and Counseling Services
Connection Points Ministry - FW	Fort Wayne	46815	Living Free Recovery and Counseling Services
Connection Points Ministry - Grabill	Grabill	46741	Living Free Recovery and Counseling Services
VA of Northern Indiana - FW	Fort Wayne	46805	Mental Health Care, Veteran
St. Joseph Hospital	Fort Wayne	46802	Mental Health Services
FW-Allen County Dept of Health - Syringe Services	Fort Wayne	46806	Needle Exchange/Distribution Programs
Drug Free Noble County	Albion	46701	Substance Abuse Education
Bowen Center - Albion	Albion	46701	Substance Abuse Services
Bowen Center - Columbia City	Columbia City	46725	Substance Abuse Services
Bowen Center - FW	Fort Wayne	46808	Substance Abuse Services

Bowen Center - Huntington	Huntington	46750	Substance Abuse Services
Bowen Center - Syracuse	Syracuse	46567	Substance Abuse Services
Bowen Center - Wabash	Wabash	46992	Substance Abuse Services
Bowen Center - Warsaw	Warsaw	46580	Substance Abuse Services
Indiana Dream Center	Huntington	46750	Substance Abuse Services
Northeastern Center - Noble County	Albion	46701	Substance Abuse Services
Northeastern Center - Noble County Clinic	Kendallville	46755	Substance Abuse Services
Park Center - Carew Street	Fort Wayne	46805	Substance Abuse Services
Addiction Recovery Centers of Indiana - Columbia City	Columbia City	46725	Substance Use Disorder Services
Addiction Recovery Centers of Indiana - Lagrange	Lagrange	46761	Substance Use Disorder Services
Hope Alive	Fort Wayne	46808	Support Groups
Vocational Rehabilitation Services - Areas 7 & 8	Fort Wayne	46807	Substance Abuse Treatment, Outpatient
The Thirteen Step House	Fort Wayne	46802	Substance Abuse, Residential
Freedom House	Fort Wayne	46802	Transitional Housing
Road to Recovery	Fort Wayne	46805	Transitional Housing
Shepherd's House	Fort Wayne	46805	Transitional Housing
The Rose Home	Fort Wayne	46803	Transitional Housing
The Rose Home	Syracuse	46567	Transitional Housing
<b>MENTAL HEALTH</b>			
Center for Nonviolence	Fort Wayne	46807	Anger Management
Drug Free Noble County	Huntington	46750	Anger Management
Center for Nonviolence	Fort Wayne	46807	Batterer Intervention Program
Parkview Behavioral Health	Fort Wayne	46805	Behavioral Health Services
Healthvisions of Fort Wayne	Fort Wayne	46803	Bienvenido Program
Turnstone	Fort Wayne	46805	Caregiver Support Group
Northeastern Center - Dowling Street	Kendallville	46755	Children's Mental Health Initiative/Wraparound
Park Center - E State Boulevard	Fort Wayne	46805	Children's Mental Health Initiative/Wraparound
Friends Counseling Center - Huntington	Huntington	46750	Counseling
Friends Counseling Center - Wabash	Wabash	46992	Counseling
Vocational Rehabilitation Services - Areas 7 & 8	Fort Wayne	46807	Counseling
Northeastern Center - Main Street	Kendallville	46755	Crisis Line
Park Center - E State Boulevard	Fort Wayne	46805	Crisis Line
Park Center - E State Boulevard	Fort Wayne	46805	Dialectical Behavioral Therapy
Park Center - Carew Street	Fort Wayne	46805	Inpatient Mental Health
Bowen Center - Warsaw	Warsaw	46580	Inpatient Mental Health Facilities
Mental Health America Northeast Indiana	Fort Wayne	46807	Mental Health Association
VA of Northern Indiana - FW	Fort Wayne	46805	Mental Health Care, Veteran
St. Joseph Hospital	Fort Wayne	46802	Mental Health Services

Crossroad Child & Family Services	Fort Wayne	46805	Outpatient Mental Health Services
Crossroad Child & Family Services - Huntington	Huntington	46750	Outpatient Mental Health Services
Northeastern Center - Dowling Street	Kendallville	46755	Outpatient Mental Health Services
Northeastern Center - Lagrange County Clinic	Lagrange	46761	Outpatient Mental Health Services
Northeastern Center - Main Street	Albion	46701	Outpatient Mental Health Services
Park Center - Carew Street	Fort Wayne	46805	Outpatient Mental Health Services
Park Center - E State Boulevard	Fort Wayne	46805	Outpatient Mental Health Services
Bowen Center - Albion	Albion	46701	Outpatient Treatment Services
Bowen Center - Columbia City	Columbia City	46725	Outpatient Treatment Services
Bowen Center - Cromwell	Cromwell	46732	Outpatient Treatment Services
Bowen Center - FW	Fort Wayne	46808	Outpatient Treatment Services
Bowen Center - Huntington	Huntington	46750	Outpatient Treatment Services
Bowen Center - Lagrange	Lagrange	46761	Outpatient Treatment Services
Bowen Center - Syracuse	Syracuse	46567	Outpatient Treatment Services
Bowen Center - Wabash	Wabash	46992	Outpatient Treatment Services
Bowen Center - Warsaw	Warsaw	46580	Outpatient Treatment Services
Crossroad Child & Family Services	Fort Wayne	46805	Psychiatric Residential Treatment Facility
Hope Alive	Fort Wayne	46808	Support Groups
We The Living	Fort Wayne	46814	Support Groups
National Alliance on Mental Illness	Fort Wayne	46805	Support Groups - Family Support
National Alliance on Mental Illness	Fort Wayne	46805	Support Groups - Peer to Peer
National Alliance on Mental Illness	Fort Wayne	46805	Support Groups - Special Spousal Support
Youth Services Bureau Huntington County	Huntington	46750	Teen Suicide Prevention
Center for Nonviolence	Fort Wayne	46807	Women's Violence Intervention Program
Bowen Center - Columbia City	Columbia City	46725	Wraparound for Children's Mental Health
Bowen Center - Huntington	Huntington	46750	Wraparound for Children's Mental Health
Bowen Center - Warsaw	Warsaw	46580	Wraparound for Children's Mental Health
Bowen Center- Wabash	Wabash	46992	Wraparound for Children's Mental Health
<b>DIABETES</b>			
Healthvisions of Fort Wayne	Fort Wayne	46803	Diabetes Education
St. Joseph Hospital	Fort Wayne	46802	Diabetes Support Group
Parkview Center for Healthy Living	Kendallville	46755	Diabetes Workshop
Healthvisions of Fort Wayne	Fort Wayne	46802	Health Fair - FW Rescue Mission
<b>CANCER</b>			
American Cancer Society	Fort Wayne	46825	Appearance Enhancement Program
American Cancer Society	Fort Wayne	46825	Cancer Information and Referral

Cancer Services of Northeast Indiana	Fort Wayne	46825	Client Services
Francine's Friends	Fort Wayne	46845	Mobile Mammography
American Cancer Society	Fort Wayne	46825	Peer to Peer Breast Cancer Support
Cancer Services of Northeast Indiana	Fort Wayne	46825	Support Groups
<b>AGING</b>			
Aging and In - Home Services of NE Indiana	Fort Wayne	46805	Aging and Disability Resource Center
Turnstone	Fort Wayne	46805	Caregiver Support Group
Community Center	Fort Wayne	46802	Community Center
Huntington County Council on Aging	Huntington	46750	Information and Referral
Greater Indiana Chapter - FW	Fort Wayne	46804	Mental Health Information
Wellspring Interfaith Social Services	Fort Wayne	46802	Older Adult Program
Huntington County Council on Aging	Huntington	46750	Senior Center
Kosciusko Community Senior Services	Warsaw	46580	Senior Center
Lagrange County Council on Aging	Lagrange	46761	Senior Center
Neighborhood Health Clinics - Cedar Street	Kendallville	46755	Senior Center
Whitley County Council on Aging	Columbia City	46725	Senior Center
<b>CARDIOVASCULAR DISEASE</b>			
Wabash County Health Department	Wabash	46992	Health Screenings
Huntington County Health Dept	Huntington	46750	Heath Screenings
Living Well in Wabash County COA	Wabash	46992	Living Well Winchester Center
<b>HEALTHCARE ACCESS</b>			
Brightpoint	Fort Wayne	46802	Covering Kids and Families
Brightpoint	Fort Wayne	46805	Covering Kids and Families
Brightpoint	Huntington	46750	Covering Kids and Families
Brightpoint	Wabash	46992	Covering Kids and Families
Brightpoint	Warsaw	46580	Covering Kids and Families
Brightpoint	Kendallville	46755	Covering Kids and Families
Brightpoint	Lagrange	46761	Covering Kids and Families
Kosciusko Community Hospital	Warsaw	46580	Health Insurance
Neighborhood Health Clinics - South Calhoun Street	Fort Wayne	46802	Health Insurance
Parkview Center for Healthy Living	Kendallville	46755	Health Insurance
Parkview Huntington Hospital	Huntington	46750	Health Insurance
Parkview Lagrange Hospital	Lagrange	46761	Health Insurance
Parkview Wabash Hospital	Wabash	46992	Health Insurance
Huntington County Division of Family Resources	Huntington	46750	Medicaid/Hoosier Healthwise/Hoosier Care Connect
Kosciusko County Division of Family Resources	Warsaw	46580	Medicaid/Hoosier Healthwise/Hoosier Care Connect
Lagrange County Division of Family Resources	Lagrange	46761	Medicaid/Hoosier Healthwise/Hoosier Care Connect
SSA-FW Field	Fort Wayne	46819	Medicare
<b>STD TREATMENT</b>			

Lagrange County Health Department	Shipshewana	46565	Adult Immunizations
Lagrange County Health Department	Topeka	46571	Adult Immunizations
Super Shot	Fort Wayne	46806	Adult Immunizations
Super Shot	Grabill	46741	Adult Immunizations
Super Shot	Fort Wayne	46845	Adult Immunizations
Medical Annex	Fort Wayne	46803	Adult/Adolescent Immunizations
Medical Annex	Fort Wayne	46803	Clinic
Neighborhood Health Clinics - South Calhoun Street	Fort Wayne	46802	Family Planning
Northeast Indiana Positive Resource Connection	Fort Wayne	46806	HIV Care Coordination
Northeast Indiana Positive Resource Connection	Fort Wayne	46806	Prevention Outreach
Northeast Indiana Positive Resource Connection	Fort Wayne	46806	STD Testing