



COMMUNITY
HEALTH
NEEDS
ASSESSMENT
2018



BAPTIST HEALTH®

CORBIN

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Introduction

This Community Health Needs Assessment provides the foundation for Baptist Health Corbin and other local organizations to strategically plan services and improve the health of the community we serve. This document builds on Baptist Health Corbin's second Community Health Needs Assessment, published in August 2015.

Organization Description

Baptist Health Corbin

Baptist Health Corbin will celebrate 32 years of service to the Tri County area on July 23, 2018. The original hospital structure of Corbin Municipal Hospital was later referred to as Southeast Kentucky Baptist Hospital and was built in 1951. In the 1960s, medical offices were constructed across the street to provide easy access to patients needing to see a doctor. A hospital expansion occurred in the 1970s, more than doubling the size of the original structure.

By the time the 1980s rolled around, it was clearly evident that the hospital's size was inadequate. Perched on the side of a hill, it had no room available to expand and thus moved in 1986 to a larger and more spacious facility on US 25W. Baptist Regional Medical Center opened in July 23, 1986, as a 240-bed facility.

Today, Baptist Health Corbin, formerly Baptist Regional Medical Center, has 273 beds and offers residents of Whitley, Knox, Laurel, Bell, Jackson, Clay, McCreary, Harlan and Campbell counties in Kentucky and Jellico, Tenn., comprehensive healthcare services, including orthopedics; robotic surgery; rehab; mental health services; a women's center; dedicated breast care center; palliative care; expanding cancer, cardiac and neurologic programs; and advanced medical technology, from MRI to microsurgery.

Over the past 32 years, Baptist Health has made numerous changes to help provide the best patient care close to home, from relocating the main entrance, to becoming a smoke-free campus. Throughout each change, the No. 1 focus has been our patients, and this will remain our primary focus in the future. The health of the community depends on many different factors including the quality of healthcare provided.

Baptist Health Corbin primarily serves the Tri County area, including Whitley, Knox and Laurel counties. Our secondary market expands to include Bell, Clay and McCreary.

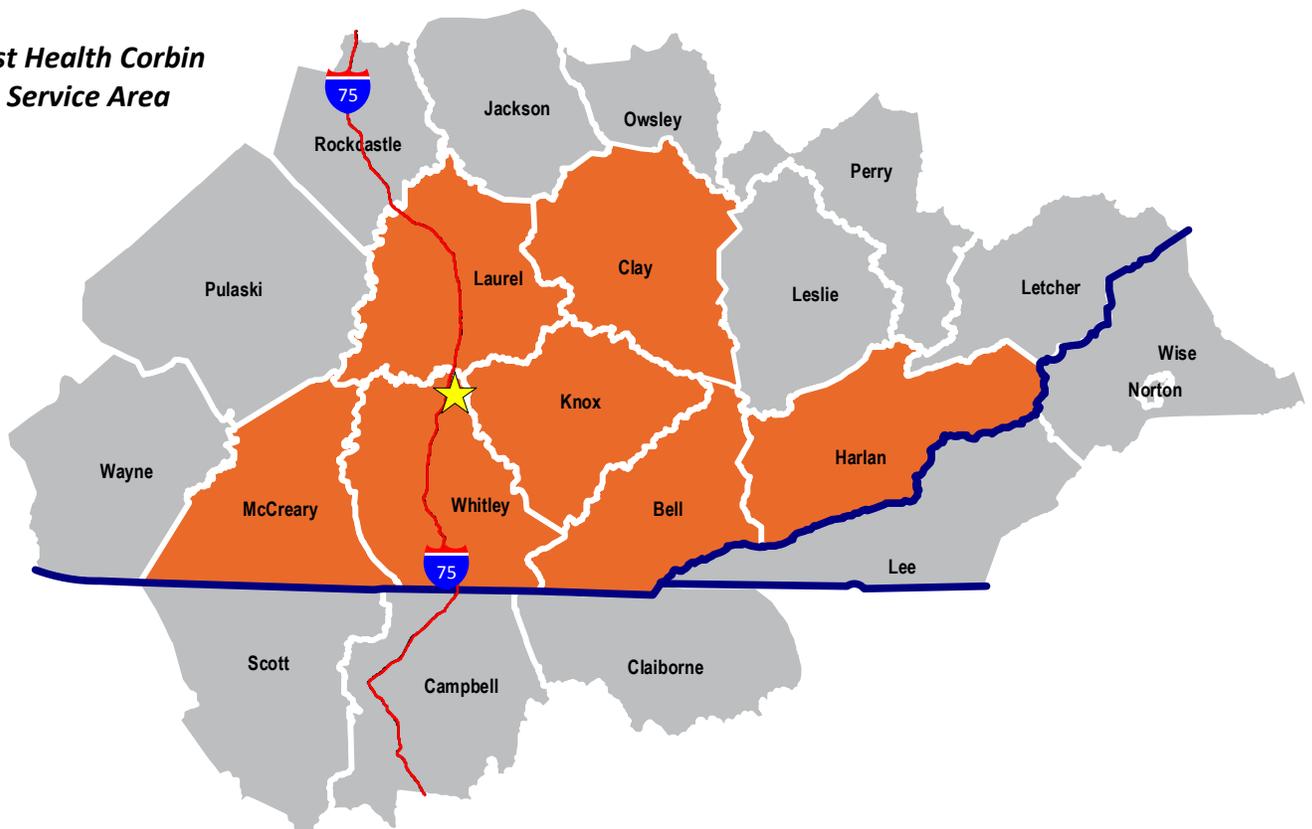
Baptist Health

Baptist Health Corbin is part of Baptist Health, a not-for-profit, 501(c)(3) healthcare corporation that owns and operates eight hospitals with 2,353 licensed beds located in Paducah, Madisonville, Louisville, La Grange, Lexington, Richmond, and Corbin in the commonwealth of Kentucky and in New Albany, Indiana. It also manages the 285-bed Hardin Memorial Hospital in Elizabethtown, Kentucky (which is expected to become part of Baptist Health in December 2018). In addition, Baptist Health Medical Group (BHMGM), a wholly owned subsidiary of Baptist Health, employs over 925 primary care physicians, specialty physicians, and mid-level providers and operates occupational health, physical therapy services, sports medicine, Express Care Clinics, hospice and home care services, and urgent care facilities. Baptist Health Home Care (BHHC) provides home health services in 38 counties in Kentucky, six in southern Indiana, and six in southern Illinois.

Service Area

Baptist Health Corbin defines its service area for this Community Health Needs Assessment by looking at where the majority of its inpatients reside. During FY 2017, over ninety percent (90.8%) of Baptist Health Corbin’s inpatients originated from Whitley, Laurel, Knox, Bell, McCreary, Clay and Harlan counties.

***Baptist Health Corbin
CHNA Service Area***

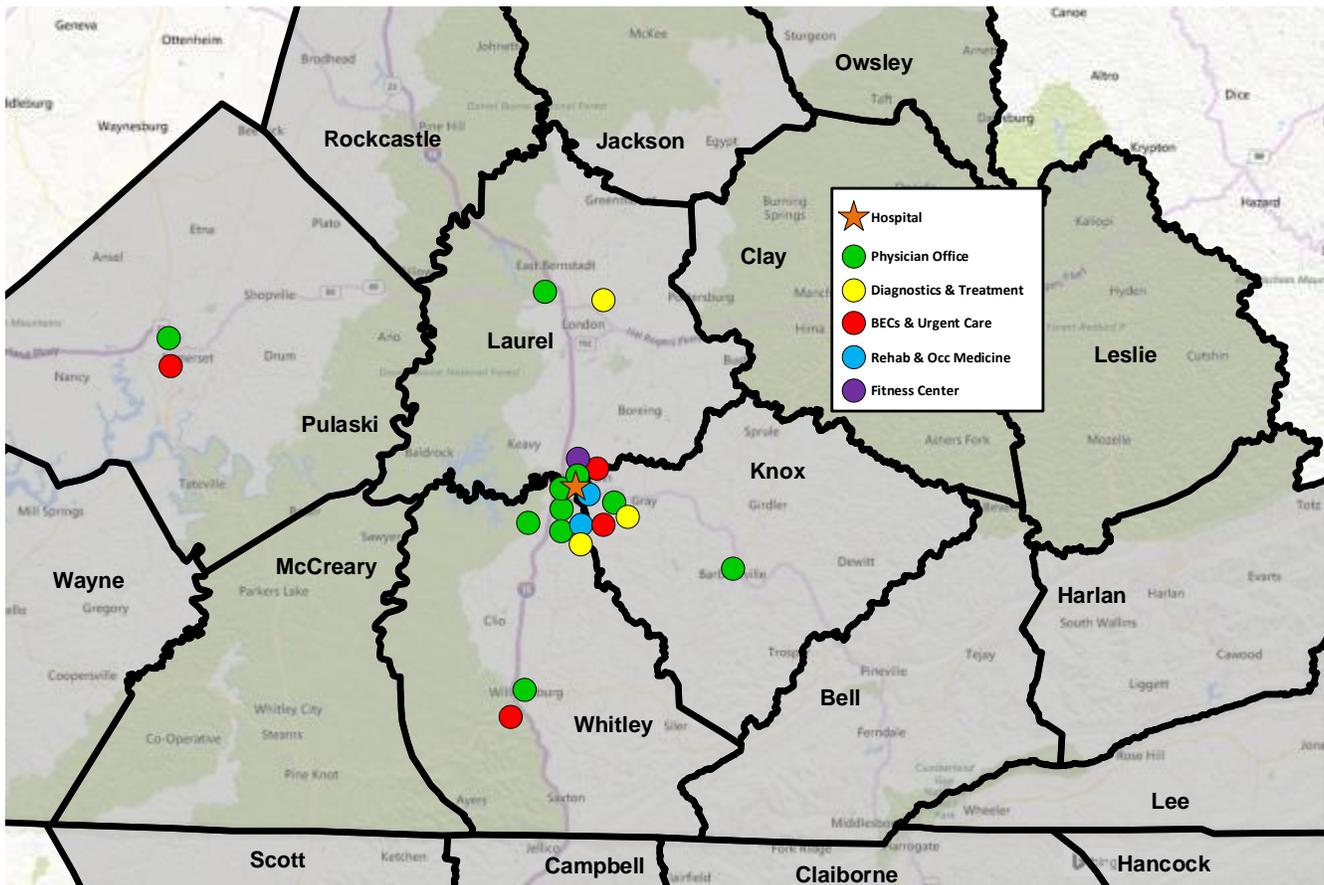


Total Discharges Patient Origin By County

County	Discharges	% of Total
Whitley County	4,072	51.1%
Laurel County	1,332	16.7%
Knox County	1,331	16.7%
Bell County	477	6.0%
McCreary County	405	5.1%
Clay County	194	2.4%
Harlan County	157	2.0%
Total CHNA Service Area	7,968	90.8%
* Other Areas	809	9.2%
Total Baptist Health Corbin Discharges	8,777	100.0%

*Other includes 63 other counties

Source: KHA InfoSuite, 10/1/2016 - 9/30/2017 discharges excluding normal newborns

Baptist Health Locations in Baptist Health Corbin Service Area


Mission, Vision, and Values

All Baptist Health Corbin employees are expected to help fulfill the mission, vision and value statements adopted by the system.

Mission

Baptist Health demonstrates the love of Christ by providing and coordinating care and improving health in our communities.

Vision

Baptist Health will lead in clinical excellence, compassionate care, and growth to meet the needs of our patients.

Faith-based Values

Integrity, Respect, Compassion, Excellence, Collaboration and Joy.

Purpose

The Patient Protection and Affordable Care Act enacted March 23, 2010, added new requirements that hospital organizations must satisfy in order to be described in section 501(c)(3). Two of these requirements for hospitals are to assess the health needs of their communities and adopt implementation strategies to address identified needs.

This Community Health Needs Assessment is performed for a variety of reasons, including:

- To help meet the hospital's mission to demonstrate the love of Christ by providing and coordinating care and improving health in our communities.
- To comply with the Patient Protection and Affordable Care Act of 2010 and maintain the hospital's tax-exempt status.
- To establish community health needs for the hospital's service area to help prioritize resource allocation.
- To gather data that can be used in other efforts to obtain grants and qualify for awards and certifications.
- To determine available resources in the hospital's service area and how the hospital can coordinate activities with other agencies.
- To involve appropriate individuals and groups in the process to ensure needs are identified, efforts are not duplicated, and the correct agencies to handle specific issues are identified in the strategic implementation plan.
- To create a sustainable process for conducting a Community Health Needs Assessment that can be replicated and continued for future assessments.

Executive Summary

The Patient Protection and Affordable Care Act of 2010 included a provision that requires every tax-exempt, non-governmental hospital to:

- Conduct a Community Health Needs Assessment (CHNA) at least every three years
- Adopt a Strategic Implementation Plan (SIP) that identifies how the needs identified in the assessment will be met and by whom
- Report to the Internal Revenue Service via its 990 tax form how it is meeting its implementation plan

The CHNA must show how broad input from the community served by the hospital was collected and must be made widely available to the public.

This report details the process used to gather, disseminate, and prioritize the information used in the assessment. Baptist Health Corbin worked closely with numerous institutions, agencies, and individuals representing public health, other hospitals, and community members.

Framework

A wide variety of community resources were consulted during this process. It began with meetings between the Baptist Health hospitals. During these meetings, updates to the 2015 CHNA were discussed.

Baptist Health Corbin determined its service area for the project using the most recent patient origin data (FY 2017), including over 90% of its discharges in the ZIP codes chosen. Further information about this area is found in the section headed *Service Area*, on page four.

There are a number of different health departments responsible for the counties Baptist Health Corbin serves: The Whitley County Health Department developed a community health plan effective years 2016 through 2019. Their plan identifies two strategic initiatives to address during their three year cycle: 1) Substance abuse 2) Chronic diseases.

The Laurel County Health Department completed its Community Health Improvement Plan and Assessment, which established goals and strategies by county for the period 2016 through 2019. They identified four strategic initiatives which include 1) Reduce substance abuse, 2) Reduce chronic disease prevalence and complications, 3) Reduce teen pregnancy rates and increase support for teen parents, and 4) Improve dental health.

Baptist Health Corbin also solicited public opinion on community health needs using a survey distributed via social media, the Baptist Health Corbin website and in paper form. Survey responses, coupled with the information from the respective health departments, were considered as primary data.

Secondary data, from demographics and socioeconomic sources, Kentucky vital statistics, disease prevalence, and health indicators and statistics, were collected. National, state, and local sources were used. This data will be shared in the next section.

Finally, the Community Health Needs Assessment Committee met to consider all the information. They discussed the data presented and created a revised list of the health issues that were identified in both primary and secondary data sources. After robust interaction, the committee prioritized the list and discussed various ways the hospital could help to meet these needs. This report was written and sent to all committee members for additional comments and suggestions. After these were incorporated, the CHNA was approved by the hospital and system boards.

Profile of the Community

Demographics and Socioeconomics

Baptist Health Corbin serves ZIP codes in Whitley, Laurel, Knox, Bell, McCreary, Clay and Harlan Counties in Kentucky. The following table shows the demographics and socioeconomic characteristics of Baptist Health Corbin's CHNA primary service area for the most recent period available.

Demographics Expert 2.7
 2017 Demographic Snapshot
 Area: BH Corbin CHNA PSA Service Area 12-13-17
 Level of Geography: ZIP Code

DEMOGRAPHIC CHARACTERISTICS						
	Selected Area	USA		2017	2022	% Change
2010 Total Population	126,283	308,745,538	Total Male Population	62,818	63,873	1.7%
2017 Total Population	128,347	325,139,271	Total Female Population	65,529	66,574	1.6%
2022 Total Population	130,447	337,393,057	Females, Child Bearing Age (15-44)	24,215	24,186	-0.1%
% Change 2017 - 2022	1.6%	3.8%				
Average Household Income	\$46,687	\$80,853				

POPULATION DISTRIBUTION						HOUSEHOLD INCOME DISTRIBUTION			
Age Group	Age Distribution					2017 Household Income	Income Distribution		
	2017	% of Total	2022	% of Total	USA 2017 % of Total		HH Count	% of Total	USA % of Total
0-14	24,750	19.3%	24,521	18.8%	18.8%	<\$15K	10,937	21.8%	11.8%
15-17	5,210	4.1%	5,307	4.1%	3.9%	\$15-25K	8,168	16.3%	10.1%
18-24	12,244	9.5%	12,758	9.8%	9.8%	\$25-50K	14,783	29.4%	22.9%
25-34	15,492	12.1%	15,551	11.9%	13.4%	\$50-75K	8,117	16.2%	17.4%
35-54	32,761	25.5%	31,152	23.9%	25.7%	\$75-100K	3,548	7.1%	12.1%
55-64	16,616	12.9%	16,654	12.8%	12.9%	Over \$100K	4,677	9.3%	25.7%
65+	21,274	16.6%	24,504	18.8%	15.5%				
Total	128,347	100.0%	130,447	100.0%	100.0%	Total	50,230	100.0%	100.0%

EDUCATION LEVEL				RACE/ETHNICITY			
2017 Adult Education Level	Education Level Distribution			Race/Ethnicity	Race/Ethnicity Distribution		
	Pop Age 25+	% of Total	USA % of Total		2017 Pop	% of Total	USA % of Total
Less than High School	10,900	12.7%	5.8%	White Non-Hispanic	122,520	95.5%	60.8%
Some High School	12,110	14.1%	7.7%	Black Non-Hispanic	1,329	1.0%	12.4%
High School Degree	32,895	38.2%	27.8%	Hispanic	1,860	1.4%	18.0%
Some College/Assoc. Degree	19,621	22.8%	29.1%	Asian & Pacific Is. Non-Hispanic	664	0.5%	5.7%
Bachelor's Degree or Greater	10,617	12.3%	29.6%	All Others	1,974	1.5%	3.2%
Total	86,143	100.0%	100.0%	Total	128,347	100.0%	100.0%

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There are approximately 101,891 persons in the adult population (16+) with a labor force of 50,831. Residents are less wealthy and much more racially and ethnically homogenous than the U.S. as a whole. Most are employed with lower than state average unemployment (see the table below).

Labor Force Characteristics
 Area: BH Corbin CHNA PSA Service Area 12-13-17
 2017 ZIP Code Report
 Ranked on 2017 Total Population 16+ (Desc)

ZIP Code	ZIP City Name	County	2017 Total Population 16+		Total Labor Force		Employed in Civilian Labor Force		Employed in Armed Forces		Unemployed in Labor Force		Females in Labor Force	
			Count	%Down	Count	%Across	Count	%Across	Count	%Across	Count	%Across	Count	%Across
40913	Beverly	Bell	260	0.3%	90	34.6%	81	31.2%	0	0.0%	9	3.5%	43	31.9%
40906	Barbourville	Knox	9,092	8.9%	3,937	43.3%	3,270	36.0%	0	0.0%	667	7.3%	1,869	39.5%
40734	Gray	Knox	2,944	2.9%	1,284	43.6%	1,084	36.8%	1	0.0%	199	6.8%	545	36.6%
40935	Flat Lick	Knox	1,811	1.8%	690	38.1%	607	33.5%	0	0.0%	83	4.6%	322	35.2%
40923	Cannon	Knox	873	0.9%	402	46.0%	320	36.7%	0	0.0%	82	9.4%	192	43.3%
40949	Heidrick	Knox	726	0.7%	297	40.9%	257	35.4%	0	0.0%	40	5.5%	142	37.9%
40943	Girdler	Knox	583	0.6%	276	47.3%	216	37.0%	0	0.0%	60	10.3%	132	44.9%
40953	Hinkle	Knox	525	0.5%	239	45.5%	191	36.4%	0	0.0%	48	9.1%	114	42.7%
40771	Woodbine	Knox	496	0.5%	240	48.4%	208	41.9%	0	0.0%	32	6.5%	116	44.8%
40915	Bimble	Knox	462	0.5%	191	41.3%	165	35.7%	0	0.0%	26	5.6%	91	38.2%
40903	Artemus	Knox	439	0.4%	177	40.3%	142	32.3%	0	0.0%	35	8.0%	87	38.2%
40997	Walker	Knox	238	0.2%	81	34.0%	74	31.1%	0	0.0%	7	2.9%	39	31.2%
40982	Scalf	Knox	231	0.2%	79	34.2%	72	31.2%	0	0.0%	7	3.0%	35	31.3%
40995	Trosper	Knox	200	0.2%	81	40.5%	57	28.5%	0	0.0%	24	12.0%	40	39.2%
40921	Bryants Store	Knox	156	0.2%	63	40.4%	44	28.2%	0	0.0%	19	12.2%	31	39.7%
40946	Green Road	Knox	106	0.1%	50	47.2%	39	36.8%	0	0.0%	11	10.4%	25	45.5%
40741	London	Laurel	18,422	18.1%	9,812	53.3%	8,745	47.5%	16	0.1%	1,051	5.7%	4,764	50.1%
40744	London	Laurel	14,858	14.6%	8,146	54.8%	7,124	47.9%	9	0.1%	1,013	6.8%	4,002	52.0%
40740	Lily	Laurel	2,237	2.2%	1,109	49.6%	916	40.9%	0	0.0%	193	8.6%	490	42.6%
40737	Keavy	Laurel	1,362	1.3%	716	52.6%	648	47.6%	4	0.3%	64	4.7%	378	54.1%
40729	East Bernstadt	Laurel	4,235	4.2%	2,236	52.8%	1,889	44.6%	0	0.0%	347	8.2%	1,028	48.6%
40701	Corbin	Whitley	24,665	24.2%	12,672	51.4%	10,841	44.0%	5	0.0%	1,826	7.4%	6,097	47.0%
40769	Williamsburg	Whitley	14,660	14.4%	6,833	46.6%	6,142	41.9%	7	0.0%	684	4.7%	3,299	44.4%
40759	Rockholds	Whitley	1,984	1.9%	987	49.7%	898	45.3%	3	0.2%	86	4.3%	457	45.7%
40763	Siler	Whitley	326	0.3%	143	43.9%	98	30.1%	0	0.0%	45	13.8%	70	43.2%
Total			101,891	100.0%	50,831	49.9%	44,128	43.3%	45	0.0%	6,658	6.5%	24,408	46.4%

Demographics Expert 2.7

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PSA Service Areas Defined: Knox, Laurel, and Whitley counties

ZIP codes in the Baptist Health Corbin service area are well below average in household income and home value. The % down column represents what proportion each ZIP code is of the whole.

Households by Socioeconomic Characteristics
Area: BH Corbin CHNA PSA Service Area 12-13-17
2017 ZIP Code Report
Ranked on 2017 Households (Desc)

ZIP Code	ZIP City Name	County	2017 Total Households		2017 Median HH Income	Median Age of Total Population	Median Home Value
			Count	%Down			
40913	Beverly	Bell	132	0.3%	\$21,250	40.7	\$48,750
40906	Barbourville	Knox	4,577	9.1%	\$28,150	38.8	\$82,373
40734	Gray	Knox	1,468	2.9%	\$24,466	41.2	\$84,313
40935	Flat Lick	Knox	933	1.9%	\$25,931	38.5	\$61,981
40923	Cannon	Knox	424	0.8%	\$29,375	38.9	\$77,931
40949	Heidrick	Knox	381	0.8%	\$25,463	39.9	\$93,103
40943	Girdler	Knox	290	0.6%	\$27,143	39.3	\$74,318
40953	Hinkle	Knox	252	0.5%	\$31,731	38.2	\$76,538
40771	Woodbine	Knox	238	0.5%	\$27,353	44.9	\$67,778
40915	Bimble	Knox	230	0.5%	\$27,917	40.4	\$94,063
40903	Artemus	Knox	218	0.4%	\$26,875	42.3	\$71,250
40997	Walker	Knox	128	0.3%	\$20,385	39.7	\$44,500
40982	Scaf	Knox	121	0.2%	\$26,389	34.7	\$50,000
40995	Trosper	Knox	102	0.2%	\$20,000	44.2	\$42,500
40921	Bryants Store	Knox	81	0.2%	\$26,500	40.8	\$55,000
40946	Green Road	Knox	51	0.1%	\$29,500	37.8	\$71,667
40741	London	Laurel	9,126	18.2%	\$37,256	40.8	\$102,753
40744	London	Laurel	7,305	14.5%	\$40,266	39.2	\$109,936
40729	East Bernstadt	Laurel	1,996	4.0%	\$31,047	40.4	\$66,771
40740	Lily	Laurel	1,072	2.1%	\$33,500	37.7	\$95,444
40737	Keavy	Laurel	660	1.3%	\$39,722	39.8	\$85,278
40701	Corbin	Whitley	12,572	25.0%	\$32,525	40.0	\$91,742
40769	Williamsburg	Whitley	6,743	13.4%	\$32,769	35.1	\$69,730
40759	Rockholds	Whitley	956	1.9%	\$36,475	38.3	\$78,140
40763	Siler	Whitley	174	0.3%	\$31,000	45.0	\$41,818
Total			50,230	100.0%	\$33,614	39.2	\$89,338

Demographics Expert 2.7

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PSA Service Areas Defined: Knox, Laurel, and Whitley counties

Mortality

The following table shows mortality rates by several leading causes of death in each county:

Age Adjusted Death Rates	Bell	Clay	Harlan	Knox	Laurel	McCreary	Whitley	KY	USA
Total	1166.4	1183.7	1241.7	1034.3	901.0	1158.3	1243.5	917.2	730.6
Coronary Heart Disease	333.5	281.7	280.8	218.1	215.1	259.8	315.8	202.5	168.3
Cancer	236.7	244.4	280.4	219.5	215.2	253.8	264.5	197.9	161
COPD & Pneumonia	104.2	121.9	127.2	110.2	80.8	117.4	120.9	82.4	55.1
Accidents	25.2	41.2	51.0	44.4	34.2	31.0	63.3	28.4	23.3
Stroke	48.5	52.6	56.7	41.7	35.8	41.7	50.8	41.8	36.9
Diabetes	52.4	31.9	49.3	47.5	16.2	42.8	28.9	26.0	21.1
Suicide	23.8	18.9	17.5	14.7	15.7	14.5	17.8	16.3	13
Homicide	*	12.3	*	9.2	6.8	*	*	4.6	4.6
Motor Vehicle Accidents	19.9	37.5	25.3	26.5	19.5	29.4	29.5	18.2	11.9
All Other Causes	322.2	341.3	353.5	302.5	261.7	367.9	352.0	299.1	235.4
	Significantly Below KY Rate								
	Significantly Above Ky Rate								

Source: wonder.cdc.gov CDC Compressed Mortality for 2012-2016

* Per CDC, There is no output if the data is unavailable or statistically unreliable

These rates are age-adjusted and signify the number of persons who expired per 100,000 population. The numbers in green are significantly below the Kentucky rates, while the numbers shown in red are significantly higher. These may indicate areas that are doing better (or worse) in the care of specific conditions.

Cancer Incidence Rates

Cancer Incidence rates are from the Kentucky Cancer Registry and cover a five-year span. Carroll, Henry and Trimble Counties has a higher than average incidence rate for lung cancer. This may show that the residents are not seeking or receiving the care they are in need of due to poor health behaviors or environmental hazards. The numbers in the table below that are highlighted in green are more favorable than the Kentucky average, and the ones in red less favorable.

Age Adjusted Cancer Incidence	Knox	Laurel	Whitley	Bell	Clay	Harlan	McCreary	KY
All Cancers	523.2	541.7	553.8	519.6	563.3	535.6	588.1	509.9
Prostate	92.3	127.4	111.7	76.6	118.6	70.2	86.1	108.8
Lung	148.9	120.9	157.1	127	164.7	147.5	187.9	112.8
Breast	95.7	111	108.1	92.7	110.4	99.6	142.9	125.0
Female Genitalia	*	10	*	*	*	*	*	10.4
Skin	16	30.9	25.4	22.4	20.7	22.2	*	25.7
Pancreas	13.8	13.4	19.3	18.6	18.9	12.5	*	13.3
All Other Cancers	156.5	128.1	132.2	182.3	130.0	183.6	171.2	113.9
	Significantly Below KY Rate							
	Significantly Above KY Rate							

Source: www.statecancerprofiles.cancer.gov, July 2018

2011-2015

Health Statistics and Rankings

Baptist Health Corbin collected health statistics and outcome measures from a wide variety of sources. The most recent data came from the Robert Wood Johnson County Health rankings, which were published in 2017. The table below shows health outcomes, health behaviors, clinical care availability, socioeconomic factors, and physical environment risks for each county in Baptist Health Corbin's service area. The rankings are based on the 120 counties in Kentucky. Whitley County is ranked 107 out of 120 Kentucky counties in health outcomes, and every county is ranked higher than 100, with the exception of Laurel County at 75.

Similar to the mortality and cancer incidence rates summaries, red highlights indicate a metric is significantly above Kentucky rates, and green highlights indicate a metric is significantly below Kentucky rates.

	Kentucky	Knox	Laurel	Whitley	Bell	Clay	Harlan	McCreary
Health Outcomes	46	102	75	107	111	112	116	108
Length of Life		106	61	109	108	105	115	98
Premature death	8,932	12,200	9,548	13,035	12,547	12,052	14,333	11,578
Quality of Life		103	81	106	115	120	111	116
Poor or fair health	21%	27%	23%	26%	29%	31%	27%	33%
Poor physical health days	4.7	5.9	5.3	5.6	6.3	6.3	5.7	6.5
Poor mental health days	4.4	4.8	4.4	4.7	5.1	5.0	4.8	5.0
Low birthweight	9%	10%	9%	11%	10%	12%	11%	10%
Health Factors	39	115	70	87	117	120	119	113
Health Behaviors		115	50	110	120	119	114	117
Adult smoking	26%	28%	21%	28%	29%	31%	28%	33%
Adult obesity	33%	39%	38%	36%	38%	38%	37%	34%
Food environment index	7.1	6.3	7	6.6	5.3	5.8	5.3	6
Physical inactivity	28%	35%	30%	35%	39%	32%	40%	30%
Access to exercise opportunities	70%	46%	70%	81%	58%	99%	44%	100%
Excessive drinking	16%	11%	12%	13%	10%	12%	11%	11%
Alcohol-impaired driving deaths	28%	26%	25%	28%	43%	49%	19%	19%
Sexually transmitted infections	401.9	361.7	238.4	209.7	236.7	140.4	119.3	339.1
Teen births	44.2	70.2	55.6	64.3	71.0	64.0	82.8	83.4
Clinical Care		106	52	34	112	114	117	108
Uninsured	10%	11%	10%	10%	11%	12%	12%	12%
Primary care physicians	1495:1	3975:1	2223:1	1109:1	2315:1	3525:1	2012:1	3573:1
Dentists	1617:1	3526:1	2732:1	1806:1	1953:1	10507:1	3463:1	17878:1
Mental health providers	564:1	5288:1	2732:1	83:1	6834:1	10507:1	5541:1	1375:1
Preventable hospital stays	77.02	159.18	64.58	93.24	162.37	144.87	191.3	99.3
Diabetic screening	86%	86%	85%	81%	78%	87%	82%	83%
Mammography screening	59%	56%	55%	54%	45%	36%	39%	44%
Social & Economic Factors		107	88	91	114	120	116	110
High school graduation	89%	89%	85%	94%	94%	81%	88%	88%
Some college	59%	36%	46%	47%	41%	33%	47%	37%
Unemployment	5.40%	8.25%	6.33%	6.96%	8.49%	9.67%	11.66%	8.29%
Children in poverty	25%	45%	33%	39%	57%	53%	48%	52%
Children in single-parent households	35%	42%	33%	35%	43%	35%	34%	27%
Violent crime	215	74	90	109	156	76	87	52
Injury deaths	85	111	90	128	134	139	121	92
Physical Environment		114	26	22	10	19	59	51
Air pollution - particulate matter	10	9.7	9.8	9.8	9.7	9.5	9.3	9.5
Drinking water violations	0%	Yes	No	No	No	No	Yes	No
Severe housing problems	14%	18%	12%	14%	17%	16%	15%	20%
Driving alone to work	82%	86%	85%	82%	75%	79%	80%	80%
Long commute - driving alone	29%	23%	20%	21%	28%	42%	30%	35%

Source: Robert Wood Johnson, CountyHealthRankings.org 2017 County Rankings

Data pulled: 12/14/17

Primary Data

There are numerous health departments in the Baptist Health Corbin service area responsible for the counties Baptist Health Corbin serves. The committee evaluated each health department’s community improvement plan, and those initiatives were considered throughout the process of determining the goals for the Baptist Health Corbin Community Health Needs Assessment.

Baptist Health Corbin also solicited public opinion on community health needs using a survey distributed via social media, the Baptist Health Corbin website and in paper form. Survey responses, coupled with the information from the respective health departments, were considered as primary data.

Community Healthcare Resources

There are many healthcare resources in Baptist Health Corbin’s service area. The Baptist Health Planning Department catalogued the various types and locations of these resources.

Hospitals

There are five hospitals in the Baptist Health Corbin service area. The following table lists the hospitals in the service area.

Hospital	Type	Licensed Beds	Location
Baptist Health Corbin	ACUTE	273	Corbin
Saint Joseph London	ACUTE	150	London
Middlesboro ARH	ACUTE	96	Middlesboro
Southeastern KY Medical Center	ACUTE	120	Pineville
Memorial Hospital	ACUTE	49	Manchester
Harlan ARH	ACUTE	30	Harlan

Source: Kentucky Office of the Inspector General, Hospital Directory, as of 12/20/17

Other Licensed Facilities

According to the Kentucky Office of the Inspector General, there are a number of other licensed healthcare facilities in Baptist Health Corbin’s service area. There are too many to mention for this report.

Health Departments

As stated earlier, there are a number of different health departments located in Baptist Health Corbin's service area.

Physicians

Baptist Health is conducting a primary care strategic plan in 2018, including a physician manpower study that counts the number of physicians in its service area as defined by Stark II regulations, which is slightly different from the CHNA service area. Using physician-to-population ratios and inventories of physicians in the area, shortages are determined. This plan guides Baptist Health Corbin to recruit and/or employ primary care to the area.

Committee Discussion

During the Community Health Needs Assessment Committee meeting, members expressed their thoughts about several health concerns in the area and where Baptist Health Corbin should concentrate its resources over the next three years. The committee included senior hospital leadership and specific department directors.

After studying the primary and secondary data, the committee discussed the issues. First and foremost the team unanimously agreed that the opioid crisis is the top of mind community health issue. The committee agreed that this health issue is creating additional stress on agencies throughout the community, including the hospital. The committee members briefly discussed the services Baptist Health Corbin already provides that are detailed in the annual Community Benefit Report (see Appendix D for the FY 2017 Baptist Health Corbin report).

Prioritized Health Issues

The committee identified a number of community health issues. Using a voting methodology, the team then identified the top five the hospital will focus on over the next three years. They are:

- Obesity
- Cancer
- Cardiovascular Disease
- Mental Health and Substance Abuse
- Patient Transportation

Obesity was the top community need according to the final tally of votes. Obesity has a significant impact on other health issues, such as cardiovascular disease, diabetes, pulmonary disease and joint deterioration. Through the combined efforts of medical professionals, schools, churches and government agencies we will be successful in educating and engaging individuals in caring for themselves. Kentucky has some of the highest rates in the nation for preventable health conditions and for behaviors that have been identified as unhealthy.

As cancer continues to be a leading cause of death in this service area, the committee ranked it as their third priority in terms of public health issues. The committee acknowledged the continued need for board-certified oncologists and easy access to cancer-related services, such as chemotherapy and radiation therapy.

Cardiovascular disease ranked as the committee's third priority and encompasses coronary artery disease, heart attack, arrhythmias, heart failure, cardiomyopathy and vascular disease. The discussion focused on education, prevention and treatment. The goal is to expand public awareness of disease root causes and common associated conditions to increase compliance with standard-of-care protocols.

Opioid abuse has become an epidemic across the country. The committee ranked it as their second priority in terms of public health issues. Locally, we are seeing a similar surge of opioid usage admissions and emergency room visits. Similar to obesity, opioid abuse has an impact on overall health and can lead to other co-morbidities. In addition, the service area is seeing a greater presence of drug-addicted newborns who must be sent to neonatal intensive care units to treat withdrawal symptoms.

Patient transportation is a major issue in the Baptist Health Corbin service area. Many patients do not own automobiles, and there are very limited resources for public transportation. The committee agreed it was important to explore the possibility of the hospital providing transportation services to patients.

Strategic Implementation Plan

Baptist Health Corbin will develop its implementation strategy over the next several months. This document will be published and made available in the same manner as this Community Health Needs Assessment within four and a half months after the end of the hospital's fiscal year.

Baptist Health Corbin Strategic Implementation Plan FY2019-FY2021

Identified Health Needs	Goals	Action Item(s)	
Cardiovascular Disease	Increase awareness of the importance of early detection and prevention of cardiovascular disease by implementing and/or maintaining current programs, education and preventive screenings.	Hands only CPR classes	
		- Local middle schools: assess offering hands only CPR classes to students	
			- Local Employers: assess partnerships with local factories, Lowes, etc to provide hands only CPR classes and stress importance of AED availability
	Develop community partnerships to educate local residents on healthy lifestyles and ways to manage cardiovascular disease.	Movie events	
		Health Talks	
		On-hold Messaging	
		Community Education	
			- Dedicate monthly article in local newspaper to cardiovascular education on a regular basis
			- Baby Fest
			Ladies in Red
		Cardiovascular Symposium	
		Blood Pressure Screenings	
		Chamber/Civic Organization Speakers or Sponsored Events	
		Partnerships with local EMS	
		- Round monthly with local EMS providers	
		- Hold quarterly meetings at the hospital to review data	
Mental Health & Substance Abuse	Expand access to and reduce stigma for behavioral health and	Increase access points	
		- Continue primary care integration	

Identified Health Needs	Goals	Action Item(s)
	<p>substance abuse services through integration with primary care and other hospital-based programs</p>	<ul style="list-style-type: none"> - Focus on reducing stigma Initiate new service lines - Explore adding service for pregnant addicted females - Mental health intensive outpatient track - Telemedicine services NAMI (National Alliance of Mental Illness) - Collaborative relationship with new local chapter D389 Operation Unite - Summer Camp at University of the Cumberlands - Hold Summit annually - Focus on suicide prevention efforts Opioid Stewardship Council Pursue Grant Opportunities
<p>Cancer</p>	<p>Increase the awareness of the importance of early detection and prevention of cancer through screening and educational programs for residents of Whitley, Knox and Laurel Counties</p> <hr/> <p>Develop community partnerships to educate local residents on healthy lifestyles and ways to prevent cancer.</p>	<ul style="list-style-type: none"> Physician Practice partnerships - Connect patients in local physician practices with hospital-based programs Increase Cancer Screenings - Lung cancer - Mammograms Commission on Cancer Accreditation Radiation Services - Explore the feasibility of adding radiation services Tri-County Cancer Coalition - partnership

Identified Health Needs	Goals	Action Item(s)
		<p>Community Education</p> <ul style="list-style-type: none"> - Dedicate monthly article in local newspaper to cancer education on a regular basis <p>Skin Cancer Awareness</p> <p>Movie events</p> <p>Health Talks</p> <p>On-hold Messaging</p> <p>Paint the Town Pink - Race held annually</p> <p>Website updates - keep information current</p>
Obesity	<p>Increase awareness and education on obesity-related issues, while collaborating with local partners to address food insecurity and promote physical activities.</p>	<p>Project Fit</p> <ul style="list-style-type: none"> - New sites - Previously installed sites <ul style="list-style-type: none"> - Incorporate nutritional education into Project Fit <p>Addressing Food Insecurity</p> <ul style="list-style-type: none"> - Provide community education through a booth set up at the local Farmers Market - Provide regular opportunities for "grocery store tours" - educating community members on how to choose healthy food options - Develop a Diabetes Outpatient Clinic through the campus Pharmacy, which will provide support and assistance to community members in managing diabetes

Identified Health Needs	Goals	Action Item(s)
		<ul style="list-style-type: none"> - Provide meals to the senior center Community Education - Dedicate monthly article in local newspaper to obesity education on a regular basis Diabetic Support Group - monthly meeting Diabetes Symposium
Transportation	Collaborate with community partners to address transportation issues, particularly as it relates to access to needed health care services.	<ul style="list-style-type: none"> Patient Transportation Program - Partner with RTEC and Whitley County Healthy Communities to complete feasibility analysis and explore grant opportunities for providing transportation services to patients in need

The committee reviewed the 2015-2017 Strategic Implementation Plan. It found the majority of goals and activities had been achieved. Those that are in areas covered by this plan will be continued and monitored.

Communications Plan

The IRS guidelines for a Community Health Needs Assessment call for making the results of the process widely available. To meet this requirement, Baptist Health Corbin will publish this document on its website and make hard copies available to the public upon request. These results will be incorporated into Baptist Healthcare System’s annual IRS tax form 990 submission.

Conclusions

Baptist Health Corbin will continue to use this Community Health Needs Assessment and Strategic Implementation Plan to allocate resources to improve the health of its service area. This is in keeping with its mission and is in its best interest, because improving population health will reduce healthcare costs.

Appendix A – Data Sources

Health Departments

Whitley County Health Department

<http://www.whitleycountyhealthdepartment.com/>

Laurel County Health Department

<http://www.laurelcohealthdept.org/>

McCreary County Health Department

<https://www.lcdhd.org/>

Knox County Health Department

<http://www.knoxcohealthdept.com/employment.html>

Kentucky Department of Public Health

<http://chfs.ky.gov/dph/>

National Sources

Robert Wood Johnson Foundation County Health Ranking and Roadmap

<http://www.countyhealthrankings.org>

Centers for Disease Control and Prevention

<http://www.cdc.gov/>

Rural Assistance Center

<http://www.raconline.org/states/kentucky.php>

U.S. Department of Health and Human Services – *Healthy People 2020*

<http://healthypeople.gov/2020/>

U.S. Department of Health and Human Services – Community Health Status Indicators

<http://www.communityhealth.hhs.gov/homepage.aspx>

State Sources

CEDIK – Community & Economic Development Initiative of Kentucky
<http://www2.ca.uky.edu/CEDIK/CountyDataProfiles>

Foundation for a Healthy Kentucky's Kentucky Health Facts
<http://www.kentuckyhealthfacts.org/>

Kentucky Department of Public Health's Center for Performance Management
<http://chfs.ky.gov/dph/CenterforPerformanceManagement.htm>

Kentucky Public Health Association
<http://www.kpha-ky.org/>

Kentucky Hospital Association
<http://www.kyha.com/>

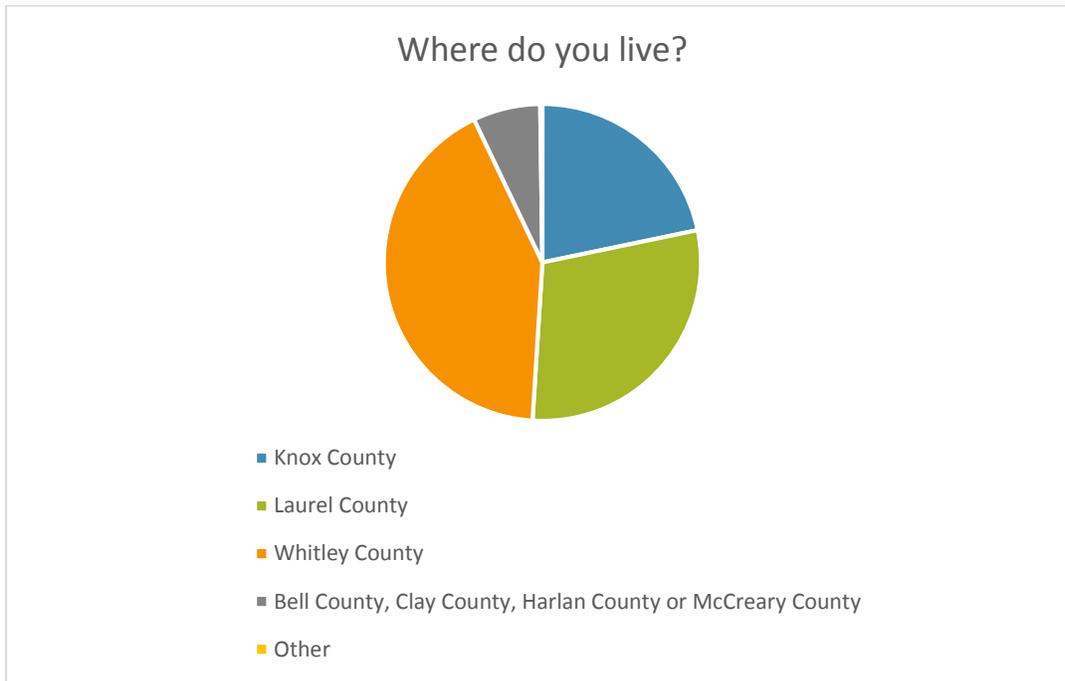
Kentucky Office of the Inspector General
<http://chfs.ky.gov/os/oig/>

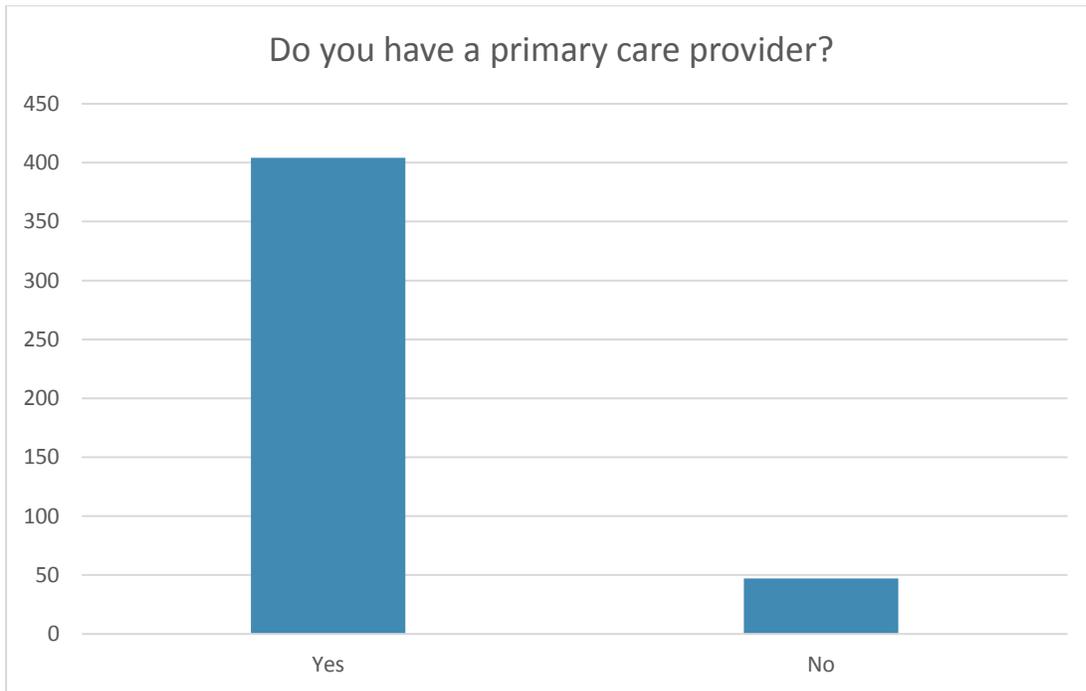
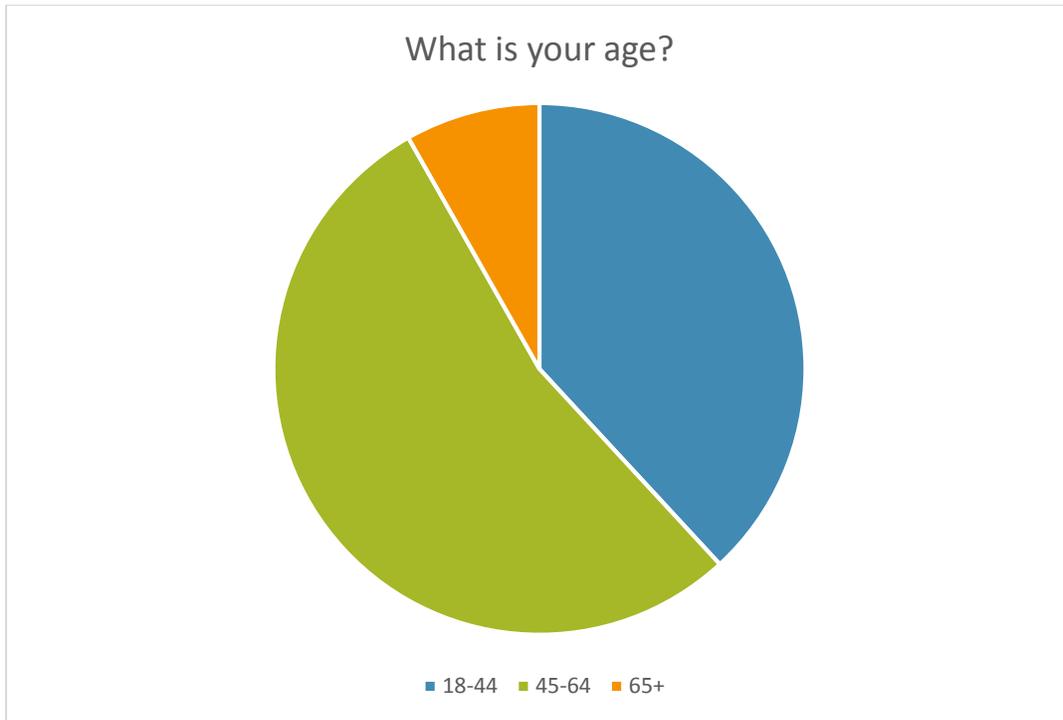
Kentucky State Data Center
<http://ksdc.louisville.edu/>

Seven Counties Services, Inc.
<http://www.sevencounties.org/>

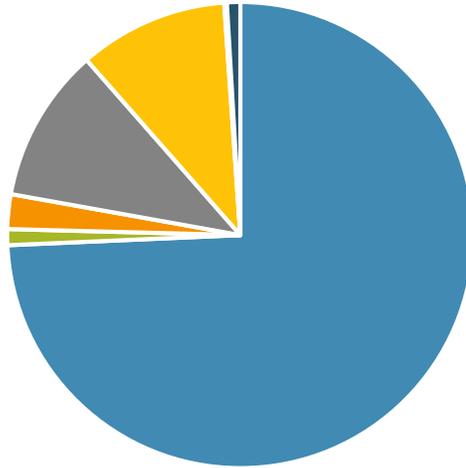
Appendix B – 2018 Baptist Health Corbin Public Survey Instrument

Baptist Health Corbin Community Health Needs Assessment Survey 2018

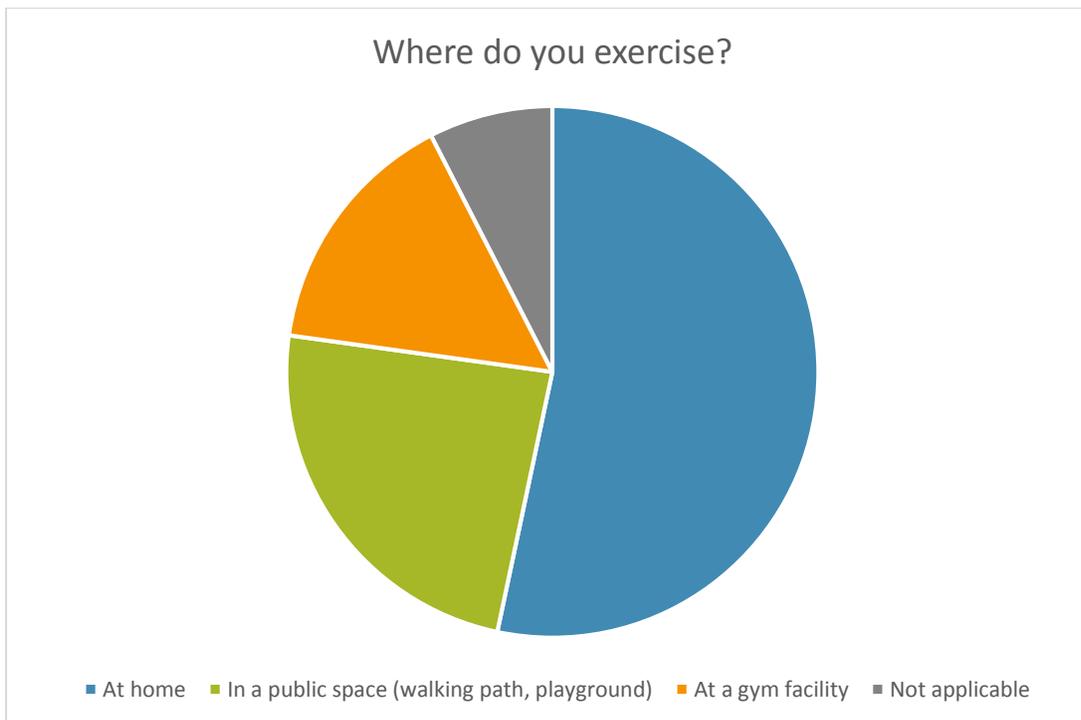
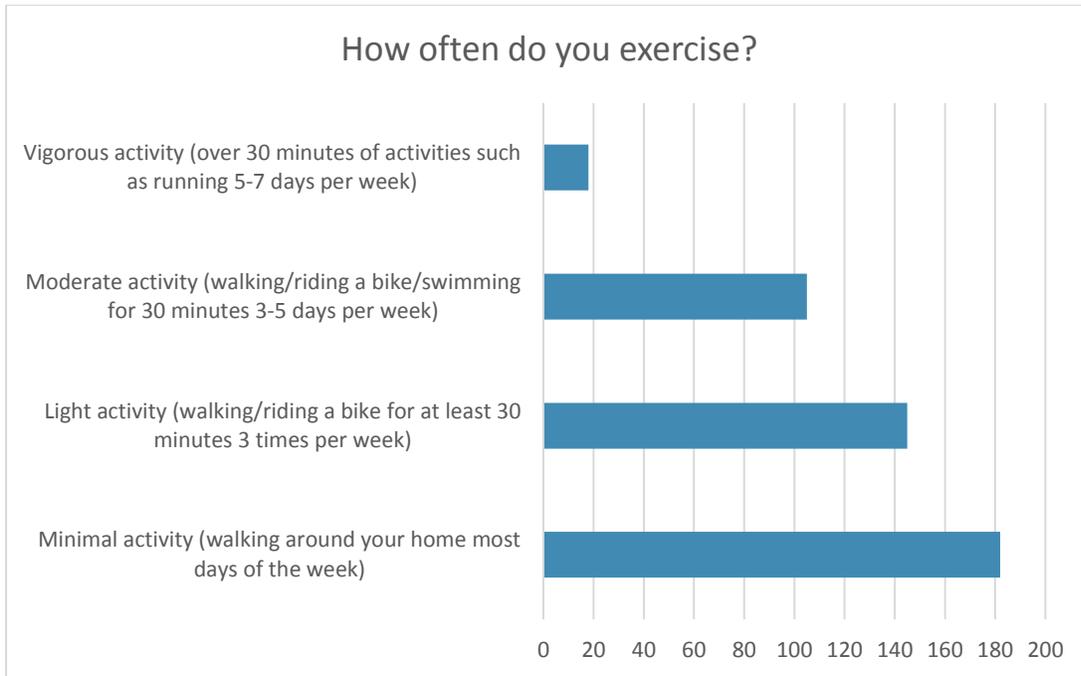


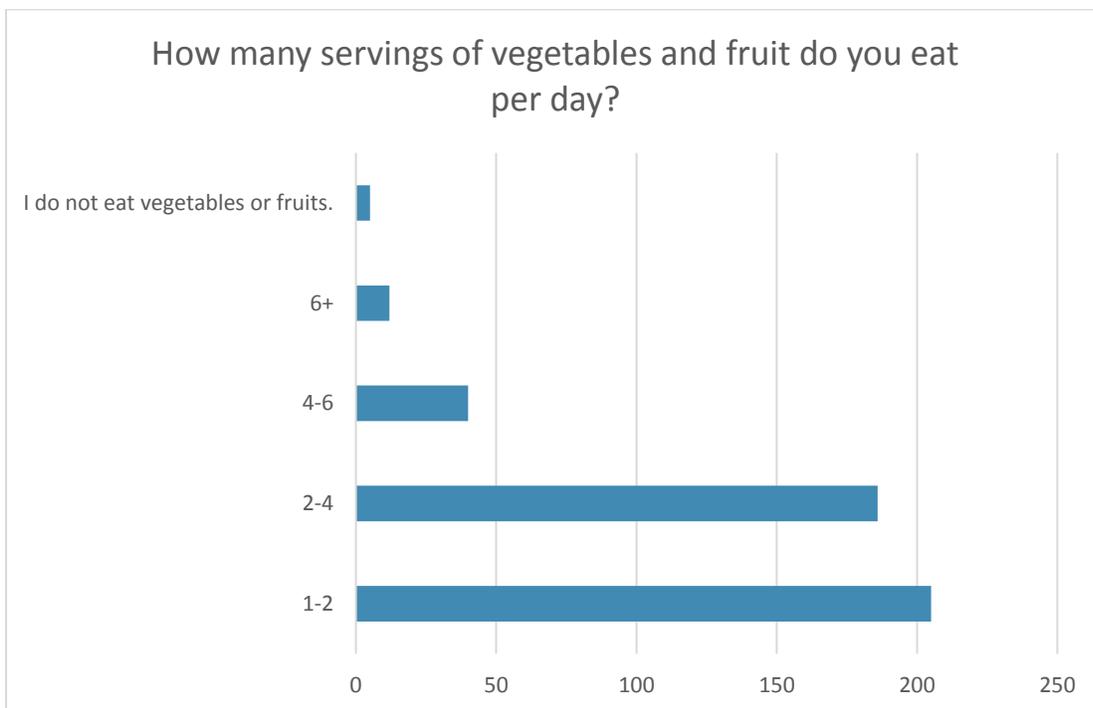
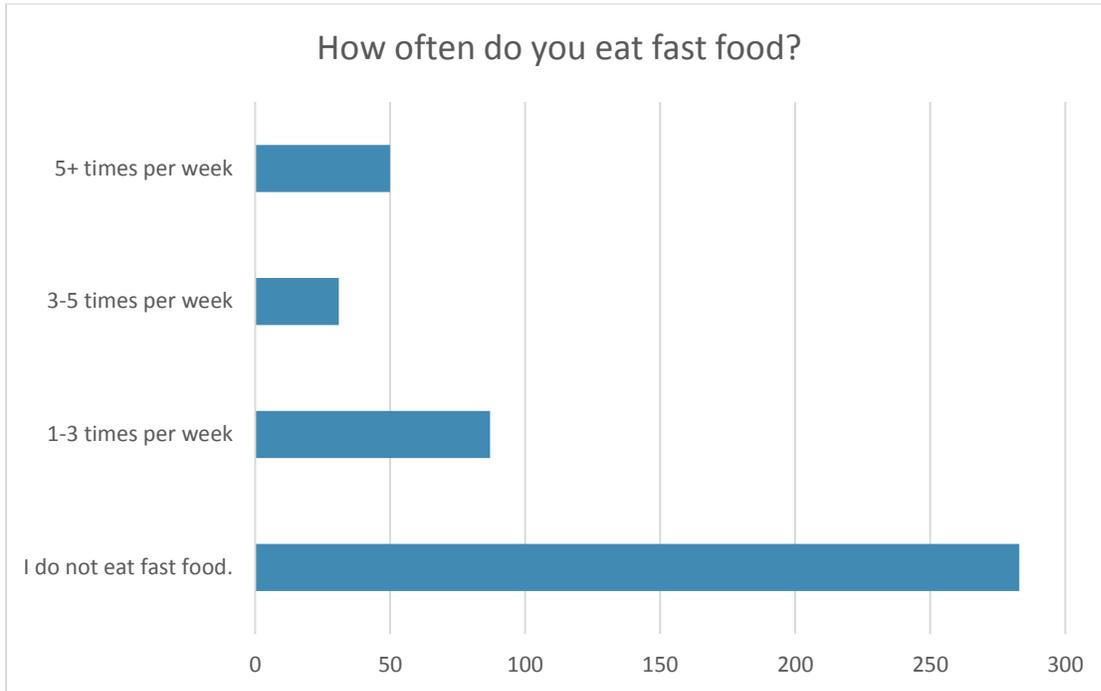


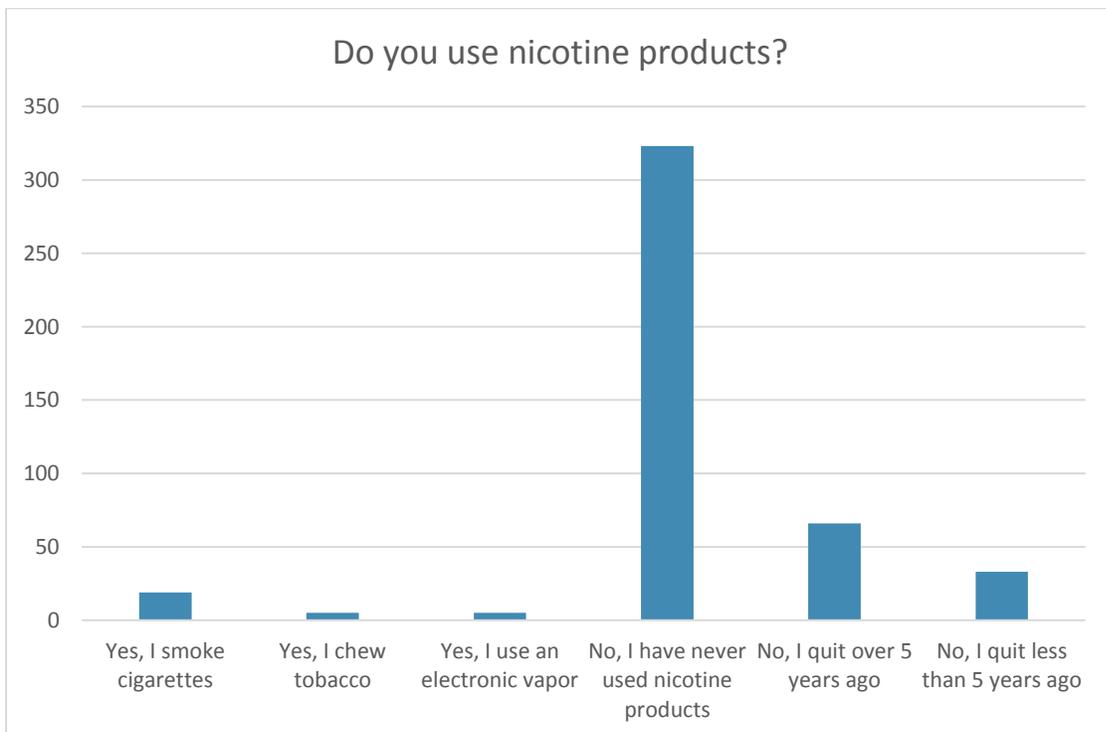
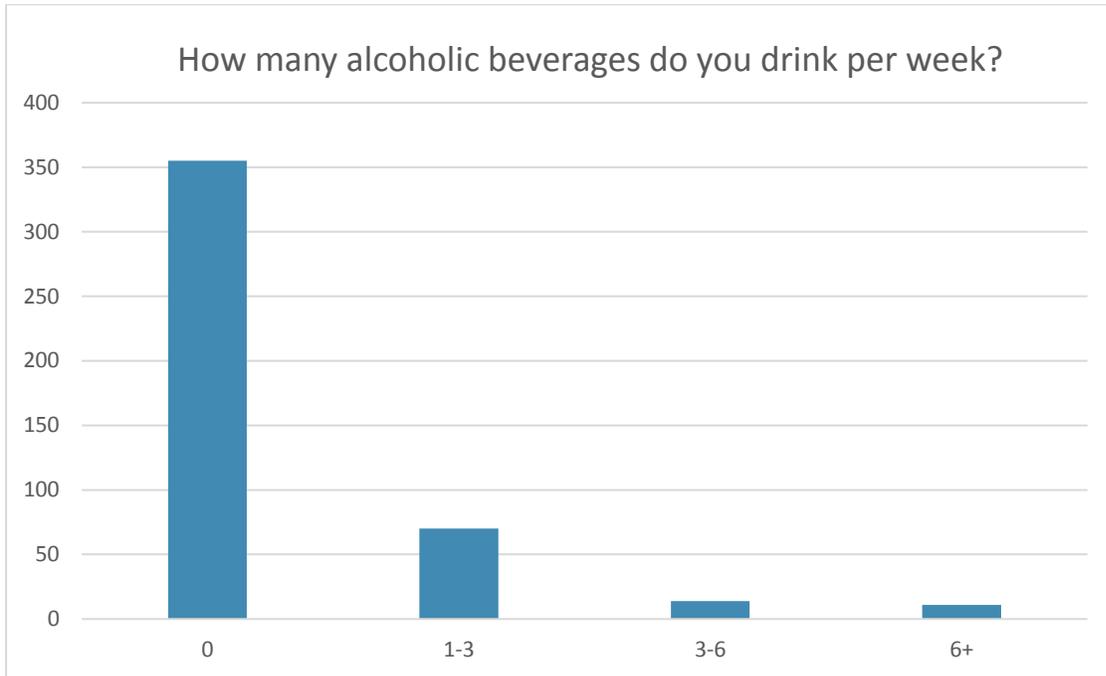
Where do you get medical care?

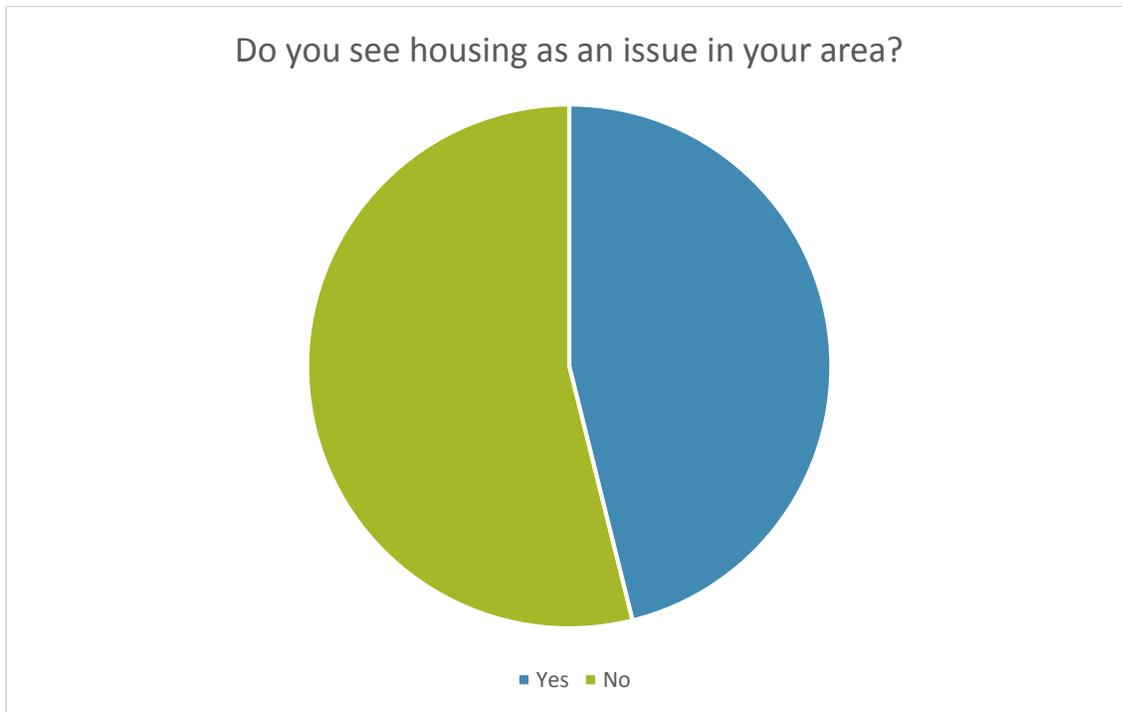
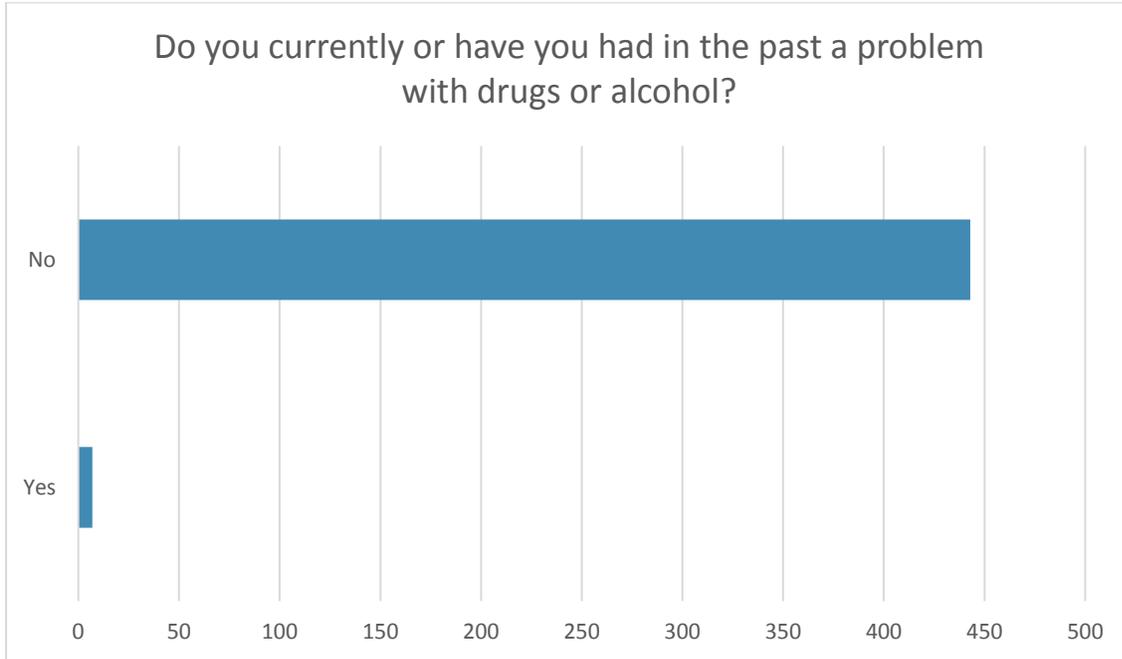


- Primary Care provider's office
- Health Department
- Emergency Room
- Express Care
- Urgent Care
- Virtual care
- Telemedicine

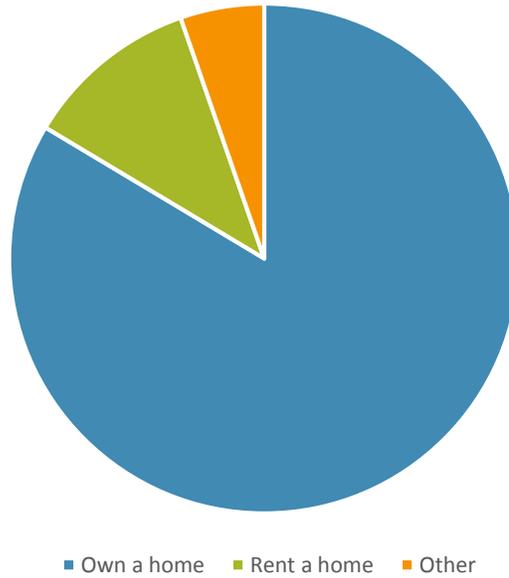




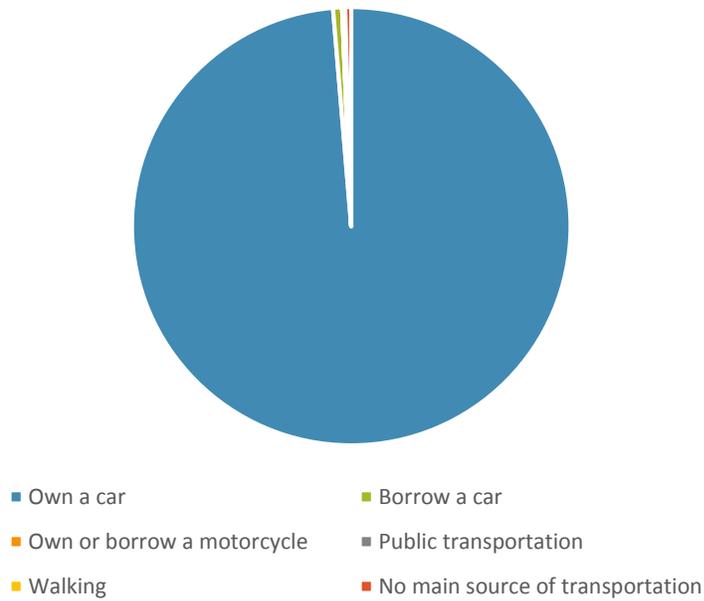


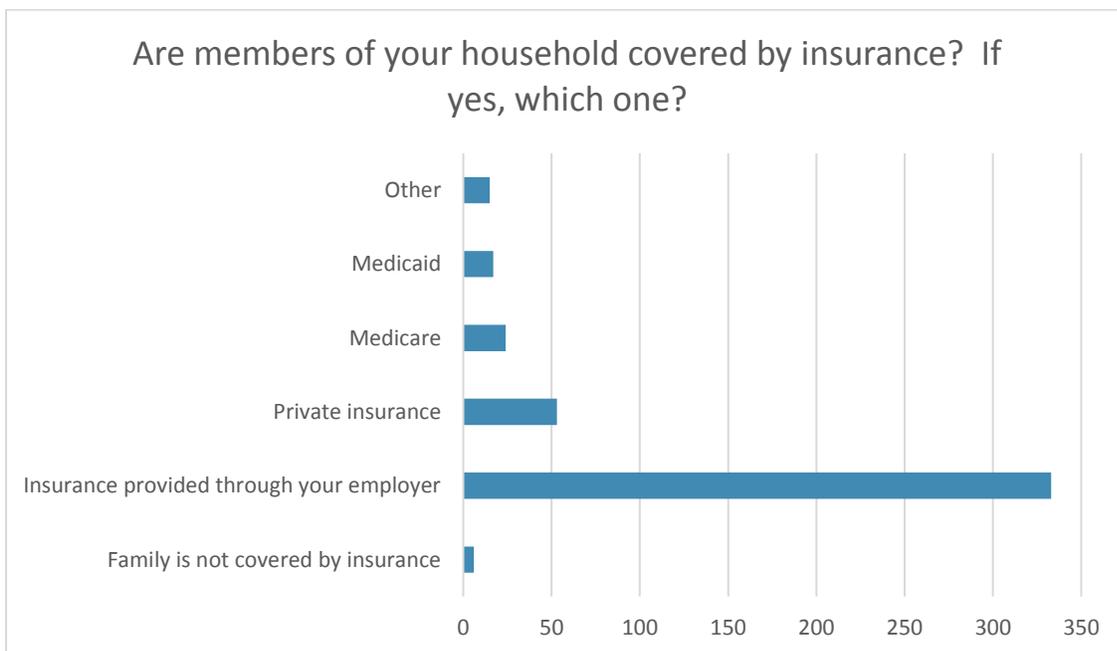
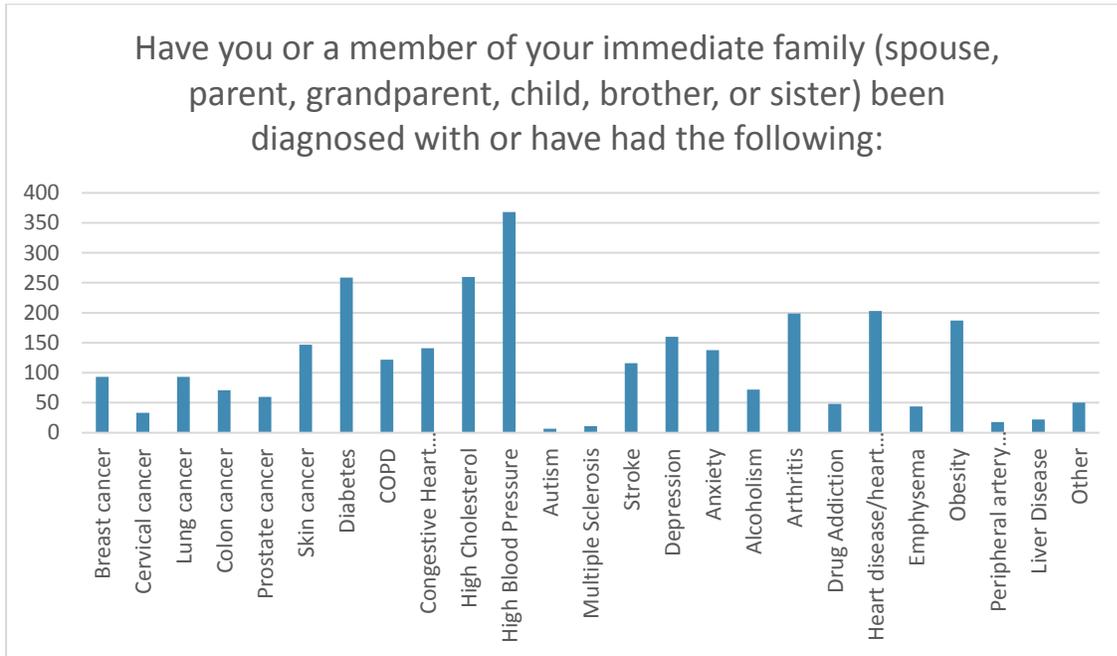


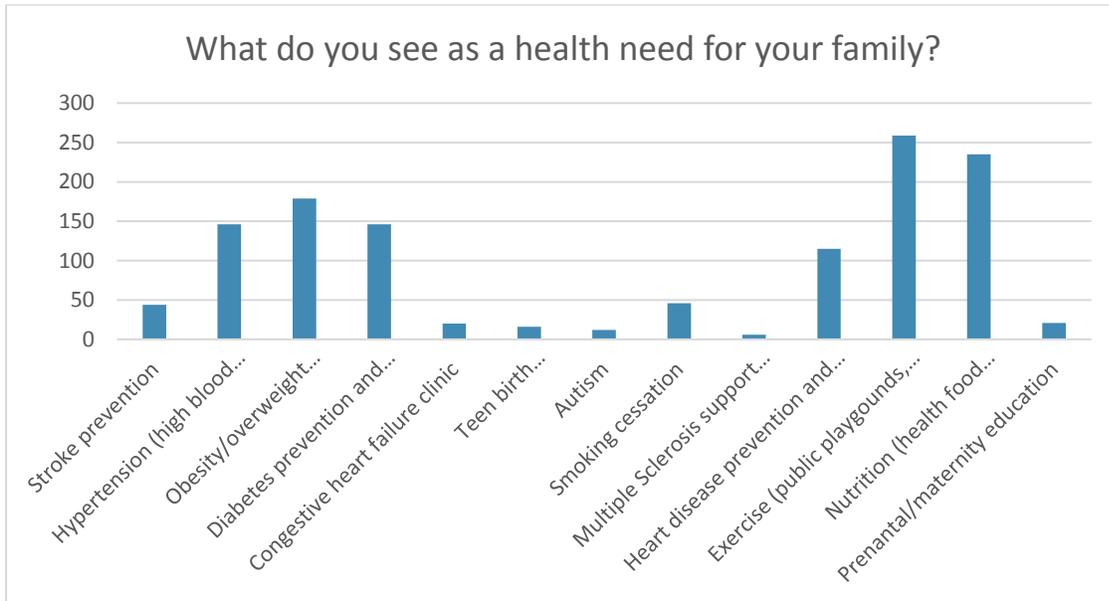
What is your housing situation?



What is your main source of transportation?







Appendix C – 2015 – 2018 SIP Results

Baptist Health Corbin Strategic Implementation Plan 2015-2018

Identified Health Needs	Goals	RESULTS
<p><i>Cardiovascular Disease Including Stroke, Hypertension, and Congestive Heart Failure</i></p>	<p>Increase awareness of the importance of early detection and prevention of cardiovascular disease by implementing and/or maintaining current programs, education and preventive screenings.</p>	<ul style="list-style-type: none"> > A Cardiovascular Symposium was held in March 2017, 219 participants > Your Heart and a Movie event held 2/26/15 with physician panel; 87 participants > A movie event with a physician panel was held 10/24/17 with 189 participants; topics included learning about the latest in diagnostic and early detection methods for cardiovascular disease > 7/5/17: Baptist Health Corbin received the Mission: Lifeline Bronze quality achievement award for implementing specific quality improvement measures outlined by the American Heart Association for the treatment of patients who suffer severe heart attacks > Baptist Health Corbin received full accreditation as a Chest Pain Center from the Society of Cardiovascular Patient Care (SCPC) on 8/11/16 > Hands only CPR and AED training to high school seniors (Med Camp): 4 students in 2015; 212 students in 216; 214 students in 2017 > 2017: Health Media Network placed TVs in cardiac offices running a loop of general cardiovascular information > 2017: Hands only CPR education provided for employees at AISIN factory > Health Talks aired on Facebook and TV: 2015 - Cardiac Rehab; 2016 - Heart Disease for Women; 2017 - Cardiac Rehab - Life after a Heart Attack; Acute Myocardial Infarction - A Patient's Experience > Every year Marketing creates a heart campaign utilizing billboard, print, social media, radio, and television

Identified Health Needs	Goals	RESULTS
Diabetes	Increase awareness of the importance of early detection and management of diabetes through education for residents of Whitley, Knox and Laurel Counties.	<p>> 2015: Diabetes support group, 100 participants; Diabetes kids cam, 20 participants; Diabetic symposium, 141 participants</p> <p>> 2016: Diabetes support group, 98 participants; Diabetic symposium, 137 participants</p> <p>> 2017: Diabetes support group, 100 participants; Diabetic symposium, 120 participants</p> <p>> Health Talks: 2016 - Diabetes; 2017 - Living with Diabetes</p> <p>> American Diabetes Associated certified outpatient program had 9 classes in 2017, 44 participants; in 2016, 8 classes were held with 71 participants; in 2015, 10 classes were held with 97 participants.</p> <p>> Community Health Fairs:</p> <ul style="list-style-type: none"> - Joining Community Forces, London KY: 50 participants - Shaping Out Appalachian Region; 120 participants - Senior Citizen Center; 75 participants - Parkway ministries; 50 participants
Cancer	Increase the awareness of the importance of early detection and prevention of cancer through screening and educational programs for residents of Whitley, Knox and Laurel Counties	<p>> Paint the Town Pink 2K Race: 2015; 403 participants registered, \$6,194 donated to Tri County Cancer Coalition</p> <p>> Paint the Town Pink 2K Race: 2016; 255 participants registered, \$6,204 donated to Harold Mauney Cancer Fund</p> <p>> Paint the Town Pink 2K Race: 10/28/17; 120 participants registered, \$2,680 raised and donated to Tri County Cancer Coalition</p> <p>> Baptist Health Corbin announced on 11/8/16 that the Outpatient Oncology program was named a 2016 Guardian of Excellence Award winner by Press Ganey; this award recognizes top-performing health care organizations that have consistently achieved the 95th percentile or above of performance in Patient Experience</p> <p>> Movie events with Tri Co Cineplex to promote awareness are held 1-2x/year as funding permits</p> <p>> KCP (KY Cancer Program) has some programs we have used in the past (Faces of Lung Cancer, Faces of Colon Cancer, Dermascan machine, Inflatable colong for educational events)</p> <p>> Health Talks: 2016 - Cancer</p>

Identified Health Needs	Goals	RESULTS
Obesity	Increase awareness of the importance of weight management through screening and educational programs for residents of Whitley, Knox and Laurel Counties.	> Fitness Five: 938 participants in 2016, 801 participants in 2017 > Silver Sneakers: avg. 745 visits/month July-December 2017

Appendix D – 2017 Baptist Health Corbin Community Benefit Report Summary

Baptist Health Corbin Community Benefit Report Fiscal Year 2017 Highlights	
Unreimbursed cost of charity care	515,921
Unreimbursed cost of Medicaid	5,937,387
Subsidized health services	714,691
Health improvements and other contributions	150,293
Total Community Benefit	7,317,292
Unreimbursed cost of Medicare	17,363,251
Unreimbursed cost of uncollectibles	1,793,254
Total	26,473,797

Baptist Health Corbin provided over \$26.5 million in community benefits during fiscal year 2017.