



Pictured above: Jon Thuerbach, Orthopedic Care success story.
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2022-2024
Baptist Health Louisville
Community Health Needs Assessment

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Introduction

This Community Health Needs Assessment provides the foundation for Baptist Health Louisville and other local organizations to strategically plan services and improve the health of the community we serve. This document builds on Baptist Health Louisville's third Community Health Needs Assessment, published in August 2018.

Organization Description

Baptist Health Louisville

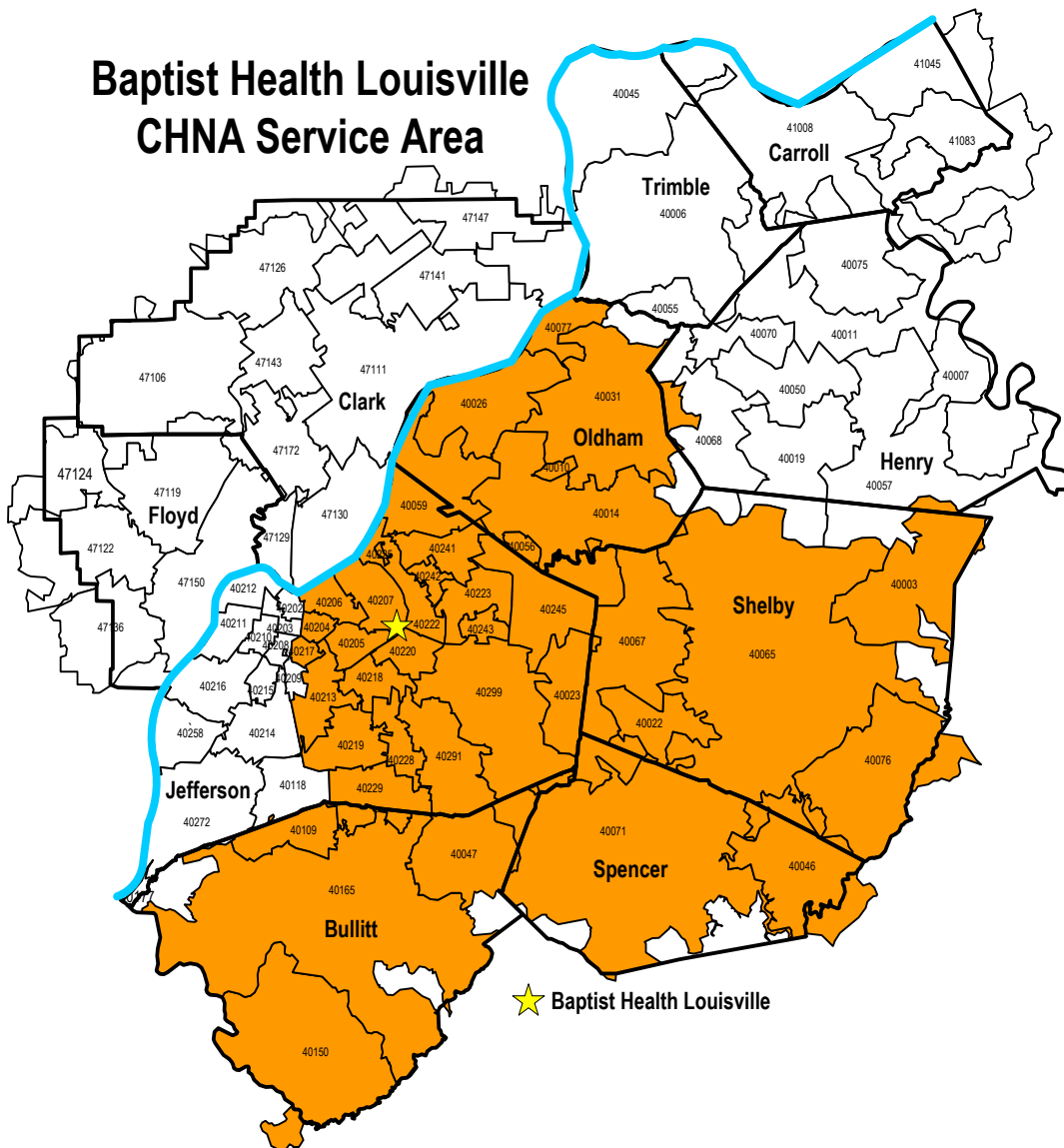
Baptist Health Louisville, a 519-bed tertiary acute care hospital located in the eastern part of Jefferson County, is a wholly owned subsidiary of Baptist Health. Baptist Health Louisville opened in 1975 and expanded in 1989 when Baptist Hospital Highlands closed, and its services and beds merged with Baptist Health Louisville. A significant addition of beds occurred in September 2008 when Baptist Health Louisville added the Park Tower, with 25 percent more licensed beds and 25 percent more surgery suites. Baptist Health Louisville provides virtually all inpatient services with the exception of transplantation and burn care. Baptist Health Louisville has 19 physical rehab beds, and 500 general medical/surgical acute care beds, included 12 Neonatal Intensive care beds. Baptist Health Louisville has a 24-hour Emergency Department that is one of the busiest in the state; laboratory; full imaging capabilities, including three MRIs; physical, speech, and occupational therapy; five cardiac catheterization labs; open heart surgery; chemotherapy infusion; and radiation therapy with three linear accelerators.

Baptist Health

Baptist Health Louisville is part of Baptist Health, a not-for-profit, 501(c)(3) healthcare corporation that owns and operates nine hospitals with 2,770 licensed beds located in Paducah, Madisonville, Louisville, La Grange, Lexington, Richmond, Corbin, and Hardin in the commonwealth of Kentucky and in New Albany, Indiana. In addition, Baptist Health Medical Group (BHMG), a wholly owned subsidiary of Baptist Health, employs over 1,556 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 40 counties in Kentucky, six in southern Indiana, and six in southern Illinois.

Service Area

Baptist Health Louisville defines its service area for this Community Health Needs Assessment looking at where the majority of its inpatients reside. In CY 2020, seventy-five (75%) of Baptist Health Louisville’s inpatients came from the eastern half of Jefferson, Bullitt, Oldham, Shelby, and Spencer Counties. While Baptist Health Louisville does serve some residents of the western portion of Jefferson County, it has relatively few resources in that part of the county. Oldham County is a shared service area between Baptist Health Louisville and Baptist Health La Grange, which is located in that county.



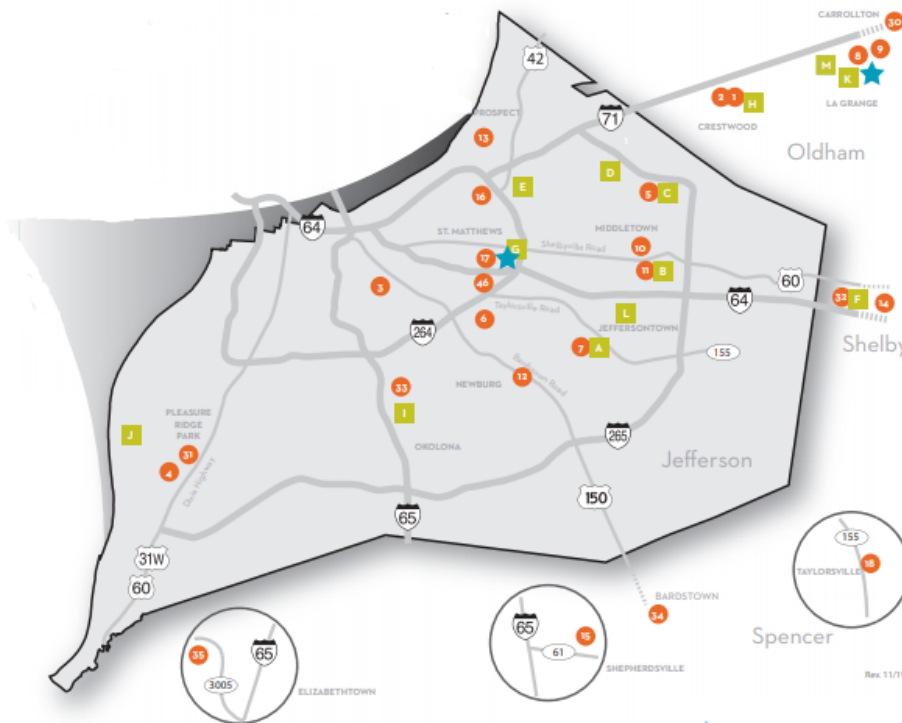
Total Discharges Patient Origin By County

County	Discharges	% of Total
Eastern Jefferson County	14,426	59.81%
Bullitt county	1,421	5.89%
Oldham County	860	3.57%
Shelby County	844	3.50%
Spencer County	545	2.26%
Total CHNA Service Area	18,096	75.02%
* Other Areas	6,025	24.98%
Total Baptist Health Louisville	24,121	100.00%

*Other includes 196 other counties and Jefferson County SSA Service Area

Source: Qlik Data Exports discharges excluding normal newborns

Baptist Health Locations in Baptist Health Louisville Service Area



Mission, Vision, and Values

All Baptist Health Louisville 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 includes 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 Louisville worked closely with numerous institutions, agencies, and individuals representing public health, other hospitals, and community members.

Framework

Baptist Health Louisville determined its service area for the project using the most recent patient origin data (CY 2020), including over 75 percent of its discharges in the ZIP codes chosen. Further information about this area is found in the section headed *Service Area*, on page five.

A wide variety of community resources were consulted during this update. There are four health departments responsible for the counties Baptist Health Louisville serves: Louisville Metro Public Health & Wellness (Jefferson County); the Bullitt County Health Department; the Oldham County Public Health Department; and the North Central District Health Department, which serves both Shelby and Spencer Counties. Louisville Metro Public Health & Wellness keeps health status data available and up to date through the vital statistics report. Oldham County health department is currently seeking public feedback via Survey monkey and does not anticipate having analyzed data before August 2020. Through these contacts, and data sources, Baptist Health Louisville is soliciting primary feedback on the updated health issues confronting its service area today.

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

Finally, the Community Health Needs Assessment Committee met to consider all the updated 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 Louisville serves ZIP codes in Jefferson, Bullitt, Oldham, Shelby, and Spencer Counties in Kentucky. The following table shows the demographics and socioeconomic characteristics of Baptist Health Louisville’s service area for the most recent period available.

2019 Demographic Snapshot					
Area: BH Louisville					
Level of Geography: Primary Service Area by ZIP Code					
DEMOGRAPHIC CHARACTERISTICS					
	Selected Area		USA		
	2019	2024	2019	2024	
2010 Total Population			308,745,538		Total Male Population
2019 Total Population	901,616	329,236,175			440,017
2024 Total Population	1,020,025	340,950,101			498,841
% Change 2019 - 2024	13.1%	3.6%			13.4%
Average Household Income	\$98,600	\$89,646			Total Female Population
					461,599
					521,184
					12.9%
					Females, Child Bearing Age (14-44)
					179,918
					199,071
					10.6%

POPULATION DISTRIBUTION					
Age Group	Age Distribution				USA 2019 % of Total
	2019	% of Total	2024	% of Total	
0-13	156,549	17.4%	172,030	16.9%	18.6%
14-20	79,520	8.8%	91,095	8.9%	3.9%
21-24	44,335	4.9%	50,861	5.0%	9.6%
25-34	123,072	13.7%	126,341	12.4%	13.5%
35-54	230,982	25.6%	258,752	25.4%	25.3%
55-64	120,510	13.4%	131,591	12.9%	12.9%
65+	146,648	16.3%	189,355	18.6%	16.2%
Total	901,616	100.0%	1,020,025	100.0%	100.0%

HOUSEHOLD INCOME DISTRIBUTION			
2019 Household Income	Income Distribution		
	HH Count	% of Total	USA % of Total
<\$15K	19,950	7.0%	11.2%
\$15-25K	20,864	7.3%	9.6%
\$25-50K	60,848	21.3%	22.6%
\$50-75K	50,985	17.9%	17.4%
\$75-100K	39,542	13.9%	12.4%
Over \$100K	93,210	32.7%	26.9%
Total	285,399	100.0%	100.0%

EDUCATION LEVEL			
2019 Adult Education Level	Pop Age 25		USA
	Pop	% of Total	% of Total
Less than High School	12,699	2.6%	5.4%
Some High School	26,772	5.4%	7.3%
High School Degree	122,240	24.7%	27.3%
Some College/Assoc. Degree	151,913	30.7%	29.0%
Bachelor’s Degree or Greater	180,962	36.6%	31.0%
Total	494,586	100.0%	100.0%

RACE/ETHNICITY			
Race/Ethnicity	Race/Ethnicity Distribution		
	2019 Pop	% of Total	USA % of Total
White Non-Hispanic	567,144	79.9%	60.0%
Black Non-Hispanic	71,309	10.0%	12.4%
Hispanic	35,815	5.0%	18.4%
Asian & Pacific Is. Non-Hispanic	18,859	2.7%	5.9%
All Others	16,838	2.4%	3.3%
Total	709,965	100.0%	100.0%

Source: Truven Health Analytics

Service Area Defined: Bullitt, Jefferson, Oldham, Shelby and Spencer Counties in Kentucky

Removed Louisville Zip Codes: 40202, 40203, 40208, 40209, 40210, 40211, 40214, 40215, 40216, 40218, 40258, 40272

There are approximately 571,143 persons in the previously defined adult population (16+) with a labor force of 380,561. Residents are slightly wealthier and less racially and ethnically homogenous than the U.S. as a whole. Most are employed with lower than state average unemployment.

Labor Force Characteristics
 Area: BH Corbin Service Area
 2019 ZIP Code Report

Ranked on 2019 Total Population 16+ (Desc)

ZIP Code	ZIP City Name	2019 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
40299	Louisville	34,020	6.0%	23,785	69.9%	22,998	67.6%	7	0.0%	780	2.3%	11,592	65.4%
40291	Louisville	31,696	5.5%	21,980	69.3%	21,287	67.2%	20	0.1%	673	2.1%	11,077	66.4%
40229	Louisville	31,665	5.5%	21,351	67.4%	20,078	63.4%	32	0.1%	1,241	3.9%	10,046	61.8%
40219	Louisville	30,371	5.3%	20,154	66.4%	18,805	61.9%	17	0.1%	1,332	4.4%	9,955	62.5%
40165	Shepherdsville	28,502	5.0%	18,858	66.2%	17,687	62.1%	49	0.2%	1,122	3.9%	8,976	61.9%
40245	Louisville	27,969	4.9%	19,376	69.3%	18,773	67.1%	3	0.0%	600	2.1%	9,132	61.8%
40220	Louisville	27,546	4.8%	18,636	67.7%	18,070	65.6%	4	0.0%	562	2.0%	8,989	61.5%
40241	Louisville	25,655	4.5%	17,139	66.8%	16,627	64.8%	27	0.1%	485	1.9%	8,228	60.9%
40065	Shelbyville	25,027	4.4%	16,582	66.3%	15,721	62.8%	19	0.1%	842	3.4%	8,207	62.8%
40207	Louisville	24,435	4.3%	16,452	67.3%	16,055	65.7%	0	0.0%	397	1.6%	7,796	59.7%
40031	La Grange	21,178	3.7%	11,052	52.2%	10,607	50.1%	87	0.4%	358	1.7%	4,936	58.7%
40205	Louisville	19,745	3.5%	13,372	67.7%	12,931	65.5%	27	0.1%	414	2.1%	6,491	62.1%
40223	Louisville	19,742	3.5%	13,231	67.0%	12,683	64.2%	37	0.2%	511	2.6%	6,351	60.2%
40222	Louisville	18,257	3.2%	11,828	64.8%	11,445	62.7%	19	0.1%	364	2.0%	5,558	57.1%
40047	Mount Washington	18,053	3.2%	12,094	67.0%	11,408	63.2%	13	0.1%	673	3.7%	5,864	62.9%
40014	Crestwood	17,790	3.1%	12,465	70.1%	11,935	67.1%	104	0.6%	426	2.4%	5,736	63.2%
40206	Louisville	16,614	2.9%	11,458	69.0%	10,965	66.0%	0	0.0%	493	3.0%	5,771	67.3%
40059	Prospect	16,253	2.8%	10,754	66.2%	10,371	63.8%	12	0.1%	371	2.3%	4,939	58.9%
40228	Louisville	15,262	2.7%	10,656	69.8%	10,241	67.1%	0	0.0%	415	2.7%	5,319	66.4%
40213	Louisville	13,435	2.4%	9,053	67.4%	8,375	62.3%	1	0.0%	677	5.0%	4,451	64.7%
40212	Louisville	13,407	2.3%	7,321	54.6%	6,149	45.9%	0	0.0%	1,172	8.7%	4,108	58.0%
40071	Taylorsville	12,409	2.2%	8,125	65.5%	7,663	61.8%	0	0.0%	462	3.7%	3,759	60.6%
40204	Louisville	12,227	2.1%	8,708	71.2%	8,402	68.7%	13	0.1%	293	2.4%	4,092	67.5%
40217	Louisville	10,776	1.9%	7,236	67.1%	6,854	63.6%	13	0.1%	369	3.4%	3,341	62.4%
40243	Louisville	9,397	1.6%	6,152	65.5%	6,006	63.9%	6	0.1%	140	1.5%	3,150	62.4%
40242	Louisville	8,554	1.5%	5,832	68.2%	5,595	65.4%	10	0.1%	227	2.7%	2,845	62.6%
40118	Fairdale	7,878	1.4%	4,927	62.5%	4,678	59.4%	0	0.0%	249	3.2%	2,291	56.5%
40067	Simpsonville	4,832	0.8%	2,868	59.4%	2,757	57.1%	0	0.0%	111	2.3%	1,248	48.7%
40026	Goshen	4,330	0.8%	3,272	75.6%	3,212	74.2%	5	0.1%	55	1.3%	1,530	69.7%
40023	Fisherville	4,293	0.8%	2,862	66.7%	2,758	64.2%	0	0.0%	104	2.4%	1,272	59.7%
40150	Lebanon Junction	3,691	0.6%	2,270	61.5%	2,178	59.0%	1	0.0%	91	2.5%	1,032	56.1%
40057	Pleasureville	2,653	0.5%	1,774	66.9%	1,684	63.5%	0	0.0%	90	3.4%	884	66.6%
40056	Pewee Valley	2,608	0.5%	1,816	69.6%	1,733	66.4%	6	0.2%	77	3.0%	895	65.0%
40076	Waddy	2,542	0.4%	1,705	67.1%	1,657	65.2%	0	0.0%	48	1.9%	780	61.7%
40109	Brooks	2,340	0.4%	1,441	61.6%	1,331	56.9%	0	0.0%	110	4.7%	723	61.8%
40046	Mount Eden	1,641	0.3%	1,129	68.8%	1,028	62.6%	0	0.0%	101	6.2%	529	65.6%
40003	Bagdad	1,640	0.3%	1,104	67.3%	1,064	64.9%	0	0.0%	40	2.4%	552	68.3%
40022	Finchville	745	0.1%	472	63.4%	457	61.3%	0	0.0%	15	2.0%	209	56.2%
40077	Westport	659	0.1%	443	67.2%	427	64.8%	0	0.0%	16	2.4%	217	64.4%
40292	Louisville	598	0.1%	371	62.0%	342	57.2%	0	0.0%	29	4.8%	177	62.1%
40010	Buckner	465	0.1%	324	69.7%	317	68.2%	2	0.4%	5	1.1%	131	58.2%
40041	Masonic Home	243	0.0%	133	54.7%	131	53.9%	0	0.0%	2	0.8%	61	45.2%
Total		571,143	49.8%	380,561	66.6%	363,485	63.6%	534	0.1%	16,542	2.9%	183,240	

Source: Truven Health Analytics

Service Area Defined: Bullitt, Jefferson, Oldham, Shelby and Spencer Counties in Kentucky

Removed Louisville Zip Codes: 40202, 40203, 40208, 40209, 40210, 40211, 40214, 40215, 40216, 40218, 40258, 40272

The north portion of Jefferson County is above average in household income and home value. Shelby County and the central portion of Jefferson County are all below average socioeconomically. The rest of the service area falls into the average categories for household income and home value. The % down column represents what proportion each ZIP code is of the whole.

Households by Socioeconomic Characteristics

Area: Licensed Area 7-6-15

2019 ZIP Code Report

Ranked on 2019 Households (Desc)

ZIP Code	ZIP City Name	2019 Total		2019	Median	Median
		Households	%Down	Median HH Income	Age of Total Population	Home Value
40299	Louisville	16,750	5.9%	\$81,850	40.8	\$240,568
40291	Louisville	15,744	5.5%	\$74,115	39.2	\$201,014
40219	Louisville	15,552	5.5%	\$47,874	38.0	\$139,695
40229	Louisville	15,071	5.3%	\$60,617	37.3	\$149,889
40220	Louisville	14,885	5.2%	\$63,506	40.9	\$186,317
40207	Louisville	14,188	5.0%	\$82,071	42.9	\$323,671
40165	Shepherdsville	13,262	4.7%	\$66,930	40.4	\$181,797
40241	Louisville	13,226	4.6%	\$85,136	41.2	\$284,759
40245	Louisville	12,826	4.5%	\$115,085	39.4	\$364,283
40065	Shelbyville	11,946	4.2%	\$61,635	38.3	\$188,847
40205	Louisville	10,512	3.7%	\$81,733	42.5	\$305,610
40223	Louisville	10,401	3.7%	\$84,337	42.3	\$292,026
40222	Louisville	10,150	3.6%	\$72,533	42.6	\$284,362
40206	Louisville	9,781	3.4%	\$52,100	40.3	\$249,911
40047	Mount Washington	8,560	3.0%	\$74,122	40.2	\$196,817
40014	Crestwood	7,699	2.7%	\$101,902	40.8	\$290,749
40031	La Grange	7,570	2.7%	\$72,814	38.8	\$236,751
40228	Louisville	7,525	2.6%	\$67,484	39.3	\$174,007
40204	Louisville	7,522	2.6%	\$54,356	40.3	\$222,416
40213	Louisville	7,431	2.6%	\$45,689	37.7	\$144,149
40059	Prospect	7,299	2.6%	\$138,405	44.9	\$467,226
40212	Louisville	6,821	2.4%	\$29,653	35.2	\$70,908
40217	Louisville	6,095	2.1%	\$51,301	38.4	\$155,647
40071	Taylorville	5,541	1.9%	\$73,717	42.7	\$232,488
40243	Louisville	5,015	1.8%	\$74,523	45.5	\$246,674
40242	Louisville	4,653	1.6%	\$66,066	39.8	\$220,187
40118	Fairdale	3,936	1.4%	\$52,165	36.7	\$126,730
40067	Simpsonville	2,056	0.7%	\$85,891	37.5	\$280,600
40023	Fisherville	1,895	0.7%	\$98,295	44.3	\$320,984
40026	Goshen	1,879	0.7%	\$114,736	41.1	\$288,986
40150	Lebanon Junction	1,722	0.6%	\$60,890	45.1	\$158,759
40057	Pleasureville	1,274	0.4%	\$56,838	42.2	\$140,625
40056	Pewee Valley	1,201	0.4%	\$83,422	42.5	\$276,042
40076	Waddy	1,196	0.4%	\$72,907	43.7	\$199,871
40109	Brooks	1,119	0.4%	\$60,523	47.3	\$173,640
40003	Bagdad	746	0.3%	\$71,857	43.6	\$190,179
40046	Mount Eden	745	0.3%	\$66,442	42.3	\$187,175
40022	Finchville	340	0.1%	\$94,444	48.8	\$295,977
40077	Westport	305	0.1%	\$74,224	44.3	\$254,598
40010	Buckner	190	0.1%	\$120,238	38.6	\$392,553
40041	Masonic Home	126	0.0%	\$58,000	40.7	\$500,000
40292	Louisville	23	0.0%	\$47,500	19.2	\$0
Total		284,778		\$73,760	40.66	\$234,226

Source: Truven Health Analytics

Service Area Defined: Bullitt, Jefferson, Oldham, Shelby and Spencer Counties in Kentucky

Removed Louisville Zip Codes: 40202, 40203, 40208, 40209, 40210, 40211, 40214, 40215, 40216, 40218, 40258, 40272

Mortality

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

BH Louisville							
Age Adjusted Mortality Rates 2015-2019	Bullitt	Jefferson	Oldham	Shelby	Spencer	KY	USA
Total	767.5	881.7	711.2	754.6	854.7	924.7	726.3
Coronary Heart Disease	187.7	225.2	184.9	193.8	247	255.4	218.6
Cancer	167.2	174.6	151.1	171.8	163.8	190.9	156.4
COPD & Pneumonia	88.1	86.6	66.3	79	110.5	104.4	70.2
Accidents	87	102.1	56.9	77	85.8	95.7	70.2
Stroke	58.8	68.9	66.3	57.2	53.4	62.7	55.1
Mental and behavioural disorders	49.7	61.5	64.1	53.9	65.1	51.2	34.5
Diabetes	34.2	38.3	33.1	29.6	34.4	43.5	33.0
All Other Causes	81.5	124.5	76.7	78.9	48.1	120.8	88.2
Significantly Below KY Rates							
Significantly Above KY Rates							
Source: wonder.cdc.gov CDC Mortality Rates for 2015-2019							

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. Jefferson County's death rate has declined compared to the CY 2018 CHNA, while the Coronary Heart Disease rate has increased compared to the CY 2015 CHNA.

The most troubling area seems to be Coronary Heart Disease and Mental and behavioral disorders in Jefferson County. All other counties in the region except Bullitt have seen significant reductions in the death rates for previous problem areas. Overall, though, in most death rate causes, the service area is average or better than average in death rates.

Cancer Incidence Rates

Cancer incidence rates are from the Kentucky Cancer Registry and cover a five-year span. Jefferson, Oldham, and Spencer Counties have higher than average incidence rates for prostate cancer, while Bullitt County has a higher than average incidence rate for breast cancer. These are two cancer sites that can be screened easily, thus the higher rates may be a function of access. On the other hand, there may actually be higher numbers of people contracting cancer in these sites due to poor health behaviors or environmental hazards.

Age Adjusted Cancer Incidence	KY	Jefferson	Bullitt	Oldham	Shelby	Spencer
All Cancers	519.6	525.5	550.0	525.5	516.2	522.6
Prostate	104.1	126.4	108.4	132.9	103.7	132.3
Lung	91.0	84.0	98.1	64.8	86.6	82.8
Breast	67.7	74.8	67.5	68.1	71.7	62.4
Female Genitalia	54.4	53.3	59.5	39.5	42.8	32.9
Skin	27.3	24.9	32.6	38.1	30.3	42.0
Pancreas	13.5	15.3	13.9	16.0	15.1	6.3
All Other Causes	161.6	146.8	170.0	166.1	166.0	163.9

Significantly Below KY Rates
 Significantly Above KY Rates

Source: Ky Cancer Registry, cancer-rates.info/ky 2013-2017

Health Statistics and Rankings

Baptist Health Louisville 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 published in 2020. The following two tables show health outcomes, health behaviors, clinical care availability, socioeconomic factors, and physical environment risks for each county in Baptist Health Louisville’s service area. The rankings are based on the 120 counties in Kentucky. Oldham County has the highest overall rankings in the Commonwealth, except in its physical environment rank which is ranked at 79th in Kentucky. Bullitt, Shelby and Spencer Counties also rank very high except in physical environment related categories. Access to mental health providers is an issue in every county of the service area outside of Jefferson County. Most counties have a high teen birth rate as well as high low birth weight rankings. Jefferson County has very high rates in Premature death, sexually transmitted infections, and Violent Crime.

	Kentucky	Jefferson (JE)	Bullitt (BI)	Oldham (OL)	Shelby (SH)	Spencer (SP)
Health Outcomes		37	6	1	7	3
Length of Life		48	11	1	5	7
Premature death	9,700	9,990	7,900	5,600	7,400	7,770
Quality of Life		28	5	1	13	3
Poor or fair health	24%	21%	18%	15%	19%	15%
Poor physical health days	5.1	4.4	4.2	3.7	4.4	3.7
Poor mental health days	5.0	4.3	4.4	3.9	4.4	3.9
Low birthweight	9%	9%	8%	7%	8%	7%
Health Factors		47	21	1	14	6
Health Behaviors		47	18	1	4	9
Adult smoking	25%	20%	20%	16%	19%	16%
Adult obesity	34%	32%	35%	22%	31%	22%
Food environment index	7.0	7.4	8.0	8.6	8.3	8.6
Physical inactivity	29%	25%	28%	20%	27%	20%
Access to exercise opportunities	71%	91%	74%	94%	74%	94%
Excessive drinking	17%	20%	18%	19%	17%	19%
Alcohol-impaired driving deaths	26%	26%	26%	20%	26%	20%
Sexually transmitted infections	433.7	706.1	214%	170.1	381.7	170.1
Teen births	34	28	25	9	24	9
Clinical Care		9	27	1	53	19
Uninsured	6%	6%	5%	4%	8%	4%
Primary care physicians	1,520:1	1,060:1	5,350:1	1,660:1	2,630:1	1,660:1
Dentists	1,540:1	960:1	3,000:1	2,560:1	2,700:1	2,560:1
Mental health providers	440:1	330:1	1,130:1	1,090:1	700:1	1,090:1
Preventable hospital stays	5,949	5,562	6,584	3,534	4,683	3,534
Mammography screening	40%	46%	43%	49%	42%	49%
Flu vaccinations	45%	51%	50%	52%	50%	52%
Social & Economic Factors		86	22	1	9	23
High school graduation	90%	88%	91%	98%	94%	98%
Some college	62%	69%	58%	76%	57%	76%
Unemployment	4.3%	4.1%	4.1%	3.3%	3.5%	3.5%
Children in poverty	22%	22%	13%	5%	14%	5%
Income inequality	5.1	4.9	3.7	3.9	4.6	3.9
Children in single-parent households	34%	42%	31%	17%	26%	17%
Social associations	10.7	10.0	6.4	6.3	9.5	6.3
Violent crime	222	612	122	82	118	82
Injury deaths	93	98	86	47	72	47
Physical Environment		104	105	79	80	81
Air pollution - particulate matter	10.7	12.9	12.4	11.9	11.5	11.9
Drinking water violations		No	No	No	No	No
Severe housing problems	14%	15%	11%	8%	14%	80%
Driving alone to work	82%	80%	85%	85%	85%	85%
Long commute - driving alone	30%	25%	49%	47%	43%	47%

Source: Robert Wood Johnson, CountyHealthRankings.org 2020 County Rankings
 Data extracted: 2/2/21

Significantly Below KY Rate
 Significantly Above KY Rate

Primary Data

There are four health departments responsible for the counties Baptist Health Louisville serves: Louisville Metro Public Health & Wellness (Jefferson County); the Bullitt County Health Department; the Oldham County Public Health Department; and the North Central District Health Department, which serves both Shelby and Spencer counties. The Louisville Metro Public Health & Wellness Health Equity Report 2017 proved to be valuable primary data for the committee. Oldham County health department is currently updating primary data for the 2021 CHNA report. Several members of BH Louisville leadership serve on various committees and boards throughout the community including Hospice/Hosparus, Center for Women and Families, Leadership Louisville, and various

educational school boards. Through these contacts, data resources, and public surveys, Baptist Health Louisville is soliciting primary feedback on the updated health issues confronting its service area today.

Community Healthcare Resources

There are a large number of healthcare resources in Baptist Health Louisville’s service area, but they are not distributed evenly. The Baptist Health Planning Department catalogued the various types and locations of these resources.

Hospitals

There are a large number of hospitals in the service area, with 3,950 licensed acute care beds, 955 psychiatric beds, 24 chemical dependency beds, and 164 rehab beds. The table below lists all of the non-government hospitals in the service area.

Hospital	Type	icensed Bed Location
Norton Hospital/Norton Medical Pavilion/Norton Children's Hospital	ACUTE	905 Louisville
Baptist Health Louisville	ACUTE	519 Louisville
UofL Health - Jewish Hospital	ACUTE	462 Louisville
Norton Audubon Hospital	ACUTE	432 Louisville
University of Louisville Hospital	ACUTE	404 Louisville
UofL Health - Peace Hospital	PSY	396 Louisville
Norton Women's and Children's Hospital	ACUTE	373 Louisville
Kindred Hospital Louisville	ACUTE	337 Louisville
UofL Health - Mary and Elizabeth Hospital	ACUTE	298 Louisville
Norton Brownsboro Hospital	ACUTE	197 Louisville
Central State Hospital	PSY	192 Louisville
UofL Health - Frazier Rehabilitation Institute	REHAB	135 Louisville
The Brook Hospital - KMI	PSY	98 Louisville
The Brook - Dupont	PSY	88 Louisville
Baptist Health La Grange	ACUTE	90 Lagrange
Kentucky Correctional Psychiatric Center	PSY	97 Lagrange
UofL Health - Shelbyville Hospital	ACUTE	70 Shelbyville

Source: Kentucky Office of the Inspector General, Hospital Directory, as of 2/9/21

The University of Louisville(U of L) purchased KentuckyOne Health in November of 2020. U of L purchased Jewish Hospital, St. Mary & Elizabeth Hospital, Jewish Hospital Shelbyville, and Our Lady of Peace Psychiatric Hospital. The facility names have been changed to reflect the new ownership. Jewish held a 60-bed acute care hospital CON in Bullitt County that transferred to UoL Health. UofL Health announced plans for UofL Medical Center South to be located in Bullitt County.

Norton Healthcare has four hospitals in Jefferson County. As such, it is the largest system in the Louisville area in number of beds. It also has the only children’s hospital in the state (Norton Hospital and Norton Children’s Hospital are part of the same license, and its licensed beds are counted together). Norton Brownsboro Hospital opened 80 of its 197 licensed beds in August 2009 in the

northeast portion of Jefferson County. Norton has also opened a pediatric outpatient center near Norton Brownsboro, capitalizing on its Norton Children's Hospital name recognition; this center houses a 24-hour emergency department for children and a four-operating room Ambulatory Surgery Center that is supposed to be for children, but is not so limited by its CON or license. Norton also operates a cancer center on its downtown campus. Norton Healthcare also has 17 immediate care facilities located throughout Jefferson and Bullitt County as well as southern Indiana. Norton employs the most physicians of any hospital-based system in the area.

Other Licensed Facilities

According to the Kentucky Office of the Inspector General, there are now 303 (versus 294 in 2018) licensed facilities other than hospitals in Jefferson County. They include ambulatory care facilities, adult day care centers, dialysis centers, rehabilitation agencies and special medical technology clinics. There are 15 licensed facilities in Bullitt County, 16 in Oldham County, 12 in Shelby County, and 1 in Spencer County.

Health Departments

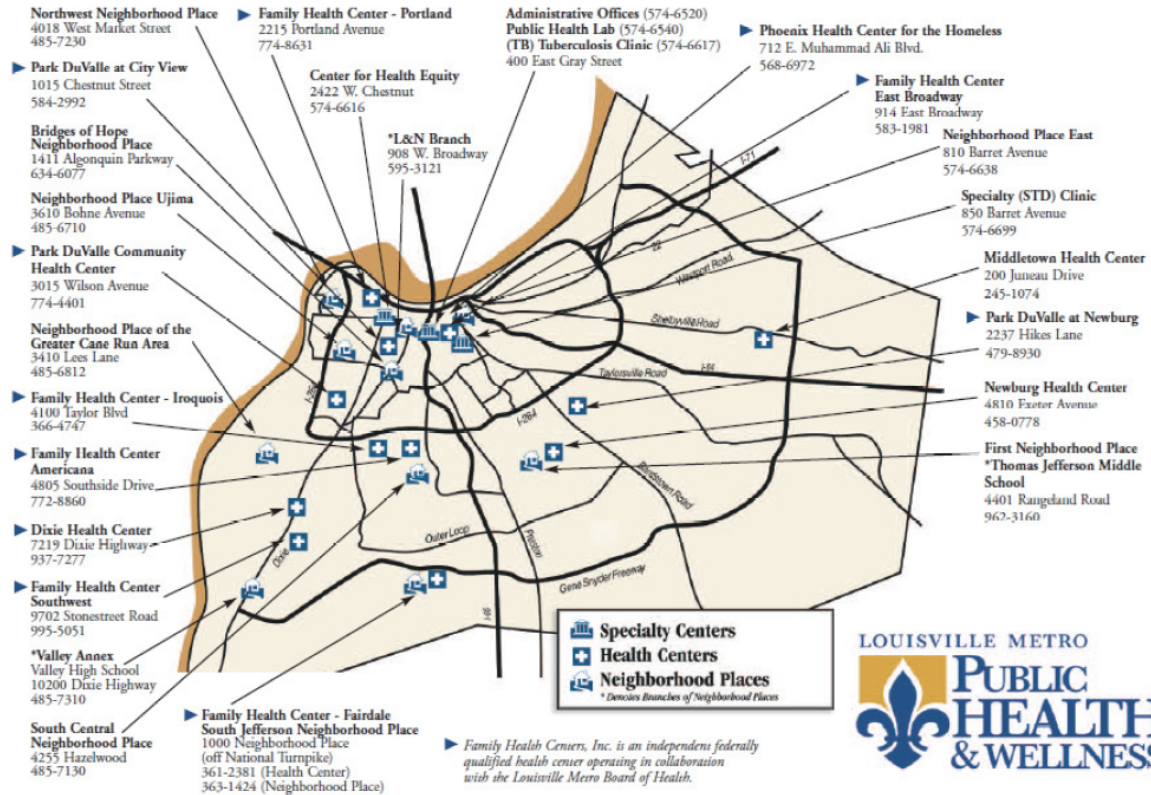
As stated earlier in this document, there are four separate health departments located in Baptist Health Louisville's CHNA service area: Louisville Metro Public Health & Wellness; Bullitt County Health Department; Oldham County Health Department; and North Central District Health Department, which serves Shelby, Spencer, Henry, and Trimble counties.

Louisville Metro Public Health & Wellness (LMPHW) provides a wide range of services to the people of Louisville, including offering health clinics across the community, providing information about Louisville's health policies and programs, inspecting eating establishments, preventing communicable diseases, and helping improve children's health. Although Louisville Metro Public Health & Wellness does not provide direct prenatal or primary care services, the department partners with community experts in the field to assure access to these services for the entire community.

The map shows the locations of the LMPHW public health clinics. Three health centers are located in Baptist Health Louisville's CHNA service area.



Public Health & Wellness Department, Family Health Center and Neighborhood Place Sites



The Oldham County Health Department’s mission is to protect and promote a healthy community through education, enforcement, and empowerment. To accomplish this, they control communicable disease, encourage healthy lifestyles, provide preventative screenings, and reduce hazards in the environment. The clinic provides adult health vaccinations, cancer screenings, a cardiovascular disease program, a dental program, diabetes care, family planning services, a new parent visitation program called HANDS, immunizations, nutrition counseling, prenatal care, smoking cessation, sexually transmitted disease prevention, teen pregnancy and sexual disease counseling, tuberculosis screening, and well child exams, and administers the Women/Infant/Children (WIC) nutrition program for the county.

The North Central District Health Department and the Bullitt County Health Department provide similar services.

Physicians

Baptist Health conducted 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. This plan guides Baptist Health Louisville to recruit and/or employ primary care to the area. The plan will be adjusted over time as strategic plans are implemented and patient access locations are opened throughout the service 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 Louisville 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. The committee agreed that the results of primary data along with data collected by community partners would be beneficial in highlighting the most pressing needs of the community. Comparing primary data from the survey conducted in 2018 to the results of the survey in 2021 did highlight areas of concern. There were noted increases in the number of people who have been directly impacted individually or family members, friends by mental health issues as well as opioid use. Obesity ranked high as in the last assessment in both primary and secondary data sources. Cancer rates for prostate remain high in the service area as well.

The committee members briefly discussed the services Baptist Health Louisville already provides as well as goals to improve access for outpatient mental health wellness programs. Secondary data sources supported the issues of mental health and opioid abuse. The committee agree that both obesity and cancer are areas of concern that can be addressed through preventative screenings and other support services.

Prioritized Health Issues

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

- Mental Health Services
- Health Equity – Heart Disease
- Preventative Health Screenings
- Opioid Reduction
- Maternal Child Health

The other two issues identified are obesity and diabetes. The consensus of the team that the focus on Preventative screenings will have an impact on both obesity and diabetes.

Mental Health Services was the top community need according to the final tally of committee votes. Mental Health issues and access to care has become a top need in the community as well as nationally. Mental Health has a significant impact on other health issues, such as obesity, substance abuse disorders including alcohol and drugs as well as many other social determinates of health. 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 a higher suicide rate than the United States, the suicide rate for Jefferson County is almost equal to that of the state.

Preventable Health Screenings will be made available online as well as through community partners. In review the data there were several health needs that the committee agreed can be identified early to prevent long term health issues such as: high blood pressure/heart disease, lung screenings and colorectal screenings.

Opioid abuse has become an epidemic across the country. The committee chose opioid abuse as a community need in 2018. Building on the work that has been done in the past 3 years BH Louisville will continue to focus on ways to prevent further opioid use as well as support services for individuals experiencing addiction. Similar to mental health issues, opioid abuse has an impact on overall health and can lead to other co-morbidities. Locally the percentage of individuals responding to the survey who have been or know someone who has been impacted by opioid abuse rose by over 20% compared to the last CHNA survey. In addition, the service area is not experiencing a decrease in drug-addicted newborns who must be sent to neonatal intensive care units to treat withdrawal symptoms.

Looking at secondary data as well as data from Louisville Metro Public Health and Wellness, Maternal Child Health was identified as a high priority need. Low birth weight, teen births, and children in single parent households, along with high infant mortality rates are issues effecting the primary service area.

Both Cancer and Obesity were identified as needs during the previous assessment. BH Louisville implemented Cancer screenings, online screening tools and nutrition services through diabetes management to combat these issues. The work that has been implemented in the past three years will continue and grow over the next three years.

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 Louisville will publish this

document on its website and make hard copies available to the public upon request. These results will be incorporated into Baptist Health's annual IRS tax form 990 submission.

Conclusions

Baptist Health Louisville will continue to use this Community Health Needs Assessment to allocate resources to improve the health of its service area. The committee will be working over the next three years to implement the action items outlined in the Strategic Implementation Plan and assess, via the identified key measures, our success.

Strategic Implementation Plan

The strategic implementation plan is outlined by each prioritized health need, with a goal(s) for each need, and specific strategies to meet those goals.

Mental Health Services

Identified Health Need: Mental Health Services				
Goal 1: Improve access to behavioral health services.				
<i>Strategy</i>	<i>Action Plan</i>	<i>Evaluation Plan</i>	<i>Internal Resource(s)</i>	<i>External Partner(s)</i>
1.1 Expand In-Person Services	<p>For those patients not comfortable receiving behavioral health services virtually or who do not have the option to access virtual care, expand in-person behavioral health services by:</p> <ol style="list-style-type: none"> 1. Adding behavioral health providers (like social workers) to existing primary care practices. 2. Designing freestanding behavioral health clinics with a psychiatrist/psychologist, advanced care provider, and social worker. 3. Offering service line specific support groups, including groups focused on new mothers and patients with cardiac conditions. 	<p>For each action item, the evaluation plan is:</p> <ol style="list-style-type: none"> 1. Onboard behavioral health staff for primary care offices by end fiscal year 2022. Track the number of patients seen by these staff. 2. Identify locations for freestanding clinics, allocate expenses for space renovation, and begin seeing patients. Track the number of patients seen at freestanding clinics. 3. Provide the space for support groups and staff to support and led groups. Track for participation in groups. 	<p>Baptist Health Medical Group</p> <p>System Behavioral Health</p> <p>Service Line Leaders</p>	TBD
1.2 Expand Virtual Health	<p>When in-person behavioral health services are not available, provide access to behavioral health through virtual care.</p>	<p>Track the number of number of patients receiving behavioral health services through virtual care.</p>	<p>Baptist Health Medical Group</p> <p>System Behavioral Health</p>	TBD

1.3 Develop Community Partnerships	Recognizing that community behavioral health needs extend beyond current patients, partner with community organizations that can provide different/additional resources to the community.	Evaluation plans will be flexible to depend on services offered by the community partner. This may include providing materials, expert speakers, space for support groups, physician privileges at Baptist Health hospitals to allow for consults, etc. Track outcomes of partnerships.	System Behavioral Health Hospital Behavioral Health	TBD
Goal 2: Increase education on mental health to reduce stigma.				
<i>Strategy</i>	<i>Action Plan</i>	<i>Evaluation Plan</i>	<i>Internal Resource(s)</i>	<i>External Partner(s)</i>
2.1 Add Behavioral Health Online Risk Assessments	Add behavioral health risk assessments for anxiety and depression on hospital website. Presenting these risk assessments for mental health in the same manner as physical health conditions improves perception that mental health is as important as physical health. Add phone number for National Suicide Hotline on the landing page for the behavioral health assessments.	Track the number of assessments completed, including those who are contacted by a BH Health provider as follow-up.	Digital Marketing System Behavioral Health	(none)

<p>2.2 Suicide Awareness</p>	<p>To cultivate dialogue on suicide awareness, continue messaging and campaigns every September during national Suicide Prevention Awareness month. Where possible, work with in-person teams to implement initiatives like "Chalk the Walk" to raise awareness and reduce stigma.</p>	<p>Track the types of communication on suicide awareness.</p>	<p>Digital Marketing System Behavioral Health Marketing</p>	<p>National Alliance on mental illness (NAMI)</p>
<p>2.3 Community Education at Events</p>	<p>Provide education to community about behavioral health influences, like stress and anxiety. At community events, present mental health as important as physical health by providing materials and talking to community members.</p>	<p>Track the number of events where information on behavioral health is provided.</p>	<p>Hospital Behavioral Health</p>	<p>TBD</p>
<p>2.4 Internal Education</p>	<p>Educate providers and staff (including those outside behavioral health) on behavioral health services provided by the system and what community resources available to patients.</p>	<p>Track the number of practices educated on behavioral health resources and develop a plan for ongoing education on resources.</p>	<p>System Behavioral Health Hospital Behavioral Health</p>	<p>(none)</p>

Health Equity – Heart Disease

Identified Health Need: Heart Disease

Goal 1: Partner with community based organization Have a Heart Clinic to provide services to underserved patients.

<i>Strategy</i>	<i>Action Plan</i>	<i>Evaluation Plan</i>	<i>Internal Resource(s)</i>	<i>External Partner(s)</i>
1.1 Clinical Support	Identify clinical support needs for cardiovascular care clinic that provides care regardless of a patient's ability to pay or their insurance coverage.	Hire a nurse practitioner to work with cardiologist at Have a Heart Clinic. Track the number of patients seen at clinic.	Baptist Health Louisville Administration	Have a Heart Clinic
1.2 Screenings	Offer in-person cardiovascular screenings in partnership with Have a Heart Clinic. Events will be held in underserved communities. Provide focused education on healthy eating habits & cardiovascular health and provide community members information on options available to them for access to care and transportation.	Track number of events held, total number of assessments completed, including total number of high risk assessments, and total number of community members that received any form of education on the social determinants of health.	Baptist Health Louisville Administration	Have a Heart Clinic

Goal 2: Provide education on heart health awareness.

<i>Strategy</i>	<i>Action Plan</i>	<i>Evaluation Plan</i>	<i>Internal Resource(s)</i>	<i>External Partner(s)</i>
2.1 Online Risk Assessments	Offer heart health assessment on the hospital website to provide information about a patient's risk of developing cardiovascular disease.	Track the number of assessments completed, including the percentage scoring as high-risk who are contacted by a BH Health provider.	Digital Marketing	(none)

Goal 3: Provide education and care around heart disease through a lens of improving health equity.				
<i>Strategy</i>	<i>Action Plan</i>	<i>Evaluation Plan</i>	<i>Internal Resource(s)</i>	<i>External Partner(s)</i>
3.1 Community Education & Events	Offer Heart Failure Winterization Clinic in Fall 2022. Focused on disease management during times where inclement weather and road conditions could prevent patients from making it to provider visits and other entities for care.	Conduct a community event at the hospital and track participation.	Baptist Health Louisville Cardiovascular Team and Supporting Departments	Various vendors

Preventative Health Screenings

Identified Health Need: Preventative Health Screenings				
Goal 1: Increase the number of screenings obtained for early cancer detection.				
<i>Strategy</i>	<i>Action Plan</i>	<i>Evaluation Plan</i>	<i>Internal Resource(s)</i>	<i>External Partner(s)</i>
1.1 Lung Cancer Screenings	Increase the number of low-dose CT scans.	Track the number of screenings and report annually, using data from Baptist Health hospitals and the CIN.	Decision Support CIN	American College of Surgeons' Commission on Cancer
1.2 Breast Cancer Screenings	Increase the number of mammograms.	Track the number of screenings and report annually, using data from Baptist Health hospitals and the CIN.	Decision Support CIN	American College of Surgeons' Commission on Cancer
1.3 Colon Cancer Screenings	Increase the number of colonoscopies.	Track the number of screenings and report annually, using data from Baptist Health hospitals and the CIN.	Decision Support CIN	(none)

Goal 2: Educate community members on relative health risks that may indicate need for further screening(s).				
<i>Strategy</i>	<i>Action Plan</i>	<i>Evaluation Plan</i>	<i>Internal Resource(s)</i>	<i>External Partner(s)</i>
2.1 Online Risk Assessments	Offer health risk assessments on the hospital website to provide information about a patient's risk of certain health conditions. Health assessments that may lead to further screenings that are not already mentioned in the SIP include: acid reflux, joint pain, healthy weight, stroke, and weight loss surgery.	Track the number of assessments scored as high-risk. These are the patients who are contacted by a BH Health provider and may receive recommendations for further preventable health conditions screenings.	Digital Marketing	(none)
2.2 Add Behavioral Health Online Risk Assessments (also listed as a strategy for Mental Health)	Add behavioral health risk assessments for anxiety and depression on hospital website. Presenting these risk assessments for mental health in the same manner as physical health conditions improves perception that mental health is as important as physical health. Add phone number for National Suicide Hotline on the landing page for the behavioral health assessments.	Track the number of assessments completed, including those who are contacted by a BH Health provider as follow-up.	Digital Marketing System Behavioral Health	(none)
2.3 Online Risk Assessments for Heart Health (also listed as a strategy for Heart Disease)	Offer heart health assessment on the hospital website to provide information about a patient's risk of developing cardiovascular disease.	Track the number of assessments completed, including the percentage scoring as high-risk who are contacted by a BH Health provider.	Digital Marketing	(none)

Goal 3: Improve efficiency of patient-facing processes to expedite screenings.				
<i>Strategy</i>	<i>Action Plan</i>	<i>Evaluation Plan</i>	<i>Internal Resource(s)</i>	<i>External Partner(s)</i>
3.1 Electronic Patient Packets	Offer patients the opportunity to complete an electronic patient packet for colonoscopies instead of mailing the forms.	Track the patients who complete their forms electronically. This speeds up the process of receiving a colonoscopy by about three weeks.	Gastroenterology Practice	(none)
Goal 4: Support organizations that promote early detection of cancer.				
<i>Strategy</i>	<i>Action Plan</i>	<i>Evaluation Plan</i>	<i>Internal Resource(s)</i>	<i>External Partner(s)</i>
4.1 Colon Cancer Prevention Project	Partner with local nonprofit dedicated to eliminating preventable colon cancer death by promoting timely screenings.	Track efforts of partnership, including support of and engagement with their community efforts.	Gastroenterology Practice	Colon Cancer Prevention Project

Opioid Reduction

Identified Health Need: Opioid Reduction				
Goal 1: Reduce the number of opioids reaching the streets.				
<i>Strategy</i>	<i>Action Plan</i>	<i>Evaluation Plan</i>	<i>Internal Resource(s)</i>	<i>External Partner(s)</i>
1.1 Opioid Stewardship Committee Alignment	Align work of the Louisville Opioid Stewardship Committee with the system committee, ultimately reporting to the system Pharmacy and Therapeutics Committee for greatest impact of efforts.	Track for continued alignment with system-level committees.	Baptist Health Louisville Opioid Stewardship Committee Baptist Health System Opioid Stewardship Committee System Pharmacy and Therapeutics Committee	(none)

1.2 Track and Monitor Opioid Prescriptions	Track and monitor trends in the Emergency Department and for select surgical procedures.	Continue to monitor trends to ensure compliance with best practices for opioid prescription that discourage overuse.	Opioid Stewardship Committee	(none)
1.3 Clinical Outcomes Impact	List a goal on the Clinical Impact Scorecard.	Comply with <18% as a goal for Discharge Opiate Prescriptions per Month.	Opioid Stewardship Committee	(none)
1.4 Prescription Take Back	Offer a prescription drop box in the Retail Pharmacy lobby for anyone to drop off unused and expired prescription medications.	Track for utilization of drop box.	Opioid Stewardship Committee Pharmacy	(none)
Goal 2: Provide patient and provider education on opioids.				
<i>Strategy</i>	<i>Action Plan</i>	<i>Evaluation Plan</i>	<i>Internal Resource(s)</i>	<i>External Partner(s)</i>
2.1 Patient Education Brochure	Provide Baptist Health-branded brochure to all patients receiving an opioid prescription from Baptist Health. Brochure includes information on opioid overdoses, Good Samaritan laws, and naloxone use to prevent, recognize, and address overdoses.	Track for compliance providing this education to all patients receiving an opioid prescription from Baptist Health Louisville.	Opioid Stewardship Prescription Pharmacy Emergency Department	(none)
2.2 Provider Education	Offer educational opportunities as they become available. Encourage activities that count toward credit for HB 1 education that providers need.	Track educational opportunities offered.	Opioid Stewardship Committee	(none)

Goal 3: Provide alternatives for patient pain control to reduce use of opioids.				
<i>Strategy</i>	<i>Action Plan</i>	<i>Evaluation Plan</i>	<i>Internal Resource(s)</i>	<i>External Partner(s)</i>
3.1 TENS Units	Make TENS units available for use in the Emergency Department to reduce dependence on opioids for patient pain control.	Track for use of TENS units and connection to reduction in opioid prescriptions.	Emergency Department Opioid Stewardship Committee	(none)

Maternal and Child Health

Identified Health Need: Maternal/Child Health				
Goal 1: Provide education to mothers and other infant caregivers to influence factors that will reduce infant morbidity and mortality.				
<i>Strategy</i>	<i>Action Plan</i>	<i>Evaluation Plan</i>	<i>Internal Resource(s)</i>	<i>External Partner(s)</i>
1.1 Safe Sleep	Use discharge instructions to educate mothers and other caregivers on safe infant sleep practices. Work with LMPHW to provide pack & plays to mothers needing a safe place for their babies to sleep.	Ensure 100% of new mothers are provided with safe sleep recommendations in discharge instructions. Nurses in appropriate areas will receive annual education module to ensure understanding of recommendations. Review ways to test for efficacy of safe sleep education for infant caregivers.	Motherhood Connection Labor/Delivery nurses Mother/Baby nurses NICU nurses	Louisville Metro Department for Public Health and Wellness (LMPHW) Cribs for Kids Health insurance companies
1.2 Smoking Cessation	During pre-natal office visits, providers document smoking status in the chart. Providers educate mothers on effect of smoking on infant health and provide smoking cessation information via the after-visit summary.	Track the number of patients for whom smoking cessation information is provided.	Motherhood Connection Program Baptist Health Medical Group Providers	StrongWell

<p>1.3 SUD Bundle</p>	<p>Develop substance use disorder bundle to establish a uniform process of identification and intervention for mothers with SUD and their newborns who have been exposed.</p> <p>Begin the process to incorporate a universal validated Opioid Use Disorder (OUD) screening tool for all patients prenatally and admitted to Labor/Delivery.</p>	<p>Track the number of patients for whom the bundle will direct care.</p> <p>Track the percentage of patients screened for OUD.</p>	<p>Labor/Delivery, Mother/Baby, and NICU nursing leadership</p>	<p>Kentucky Perinatal Quality Collaborative (KyPQC)</p> <p>Alliance for Innovation on Maternal Health</p> <p>findhelpnowKY.org</p>
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Goal 2: Implement post-partum hospital protocols to improve maternal and infant health.

<i>Strategy</i>	<i>Action Plan</i>	<i>Evaluation Plan</i>	<i>Internal Resource(s)</i>	<i>External Partner(s)</i>
<p>2.1 Breast Feeding</p>	<p>Improve rates of mothers who exclusively breast feed.</p> <p>Educate nurses on charting to clarify when infants are supplemented with breast milk versus formula.</p>	<p>Track the rates of exclusive breast-feeding in subsequent years versus baseline.</p>	<p>Lactation Consultants</p> <p>NICU nurses and providers</p> <p>Mother/Baby nurses and providers</p>	<p>Mommy Express</p>
<p>2.2 ERAS Post C-Section</p>	<p>Implement ERAS (Enhanced Recovery After Surgery) for mothers who undergo caesarian sections to reduce maternal need for opioid prescriptions.</p>	<p>Track reduced utilization of opioids.</p>	<p>Pharmacy</p> <p>Mother/Baby nurses and providers</p> <p>Labor/Delivery nurses and providers</p>	<p>(none)</p>

Appendix A – Data Sources

Health Departments

Louisville Metro Public Health & Wellness
<http://www.louisvilleky.gov/health/>

Bullitt County Public Health Department
<http://www.bullittcountyhealthdept.com/>

Oldham County Public Health Department
<http://oldhamcountyhealthdepartment.org/>

North Central District Health Department (Shelby and Spencer counties)
<http://www.ncdhd.com/>

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.raonline.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/>

LMPHW's Policy Planning and Evaluation Services

<http://www.louisvilleky.gov/Health/policyandplanning.htm>

Appendix B – 2021 Baptist Health Louisville Public Survey Instrument

1. In which county do you live?

- Bullitt
- Carroll
- Henry
- Jefferson
- Oldham
- Shelby
- Spencer
- Trimble
- Other

2. Do you have a primary care provider?

- Yes
- No

3. Where do you receive your medical care (select all that apply)?

- Emergency Room
- Health Department
- Primary care Provider's office
- Urgent or Express Care Clinic
- Virtual care/Telemedicine

4. How would you describe your overall health?

- Excellent
- Good
- Fair
- Poor



5. Please choose the health challenges you face (please select all that apply).

- Alcohol overuse
- Cancer
- Drug addiction
- Diabetes
- Lung disease
- Heart disease
- High blood pressure
- Joint pain or back pain
- Mental health issues
- Overweight/obesity
- Stroke
- I do not have any health challenges
- Other

6. Are you receiving the medical care you need?

- Yes
- No

7. What issues prevent you from accessing the care you need (select all that apply)?

- No issues prevent me from accessing the care I need
- Cultural/religious beliefs
- Don't know how to find doctors
- Don't understand the need to see a doctor
- Fear (e.g., not ready to face/discuss health problem)
- Lack of availability of doctors
- Language barriers
- No insurance and unable to pay for the care
- Transportation
- Unable to pay co-pays/deductibles
- Other



8. Do you have access to fresh fruits and vegetables?

- Yes
- No

9. Which of the following preventative procedures have you had in the past 12 months (select all that apply)?

- Blood pressure check
- Blood sugar check
- Bone density test
- Cardiovascular screening
- Cholesterol screening
- Colon/rectal exam
- Dental cleaning/X-rays
- Flu Shot
- COVID 19 vaccine
- Hearing screening
- Mammogram (if female)
- Pap smear (if female)
- Physical exam
- Prostate cancer screening (if male)
- Skin cancer screening
- Vision screening
- None of the above

10. Within the last three years, have you or someone you know been affected by opioid substance abuse?

- Yes
- No

11. Have you been diagnosed with COVID 19?

- Yes
- No

12. Do you see housing as an issue in your area?

- Yes
- No

13. What is your regular source of transportation?

- Bicycle
- Car
- Motorcycle
- Public transportation
- Walk
- Other

14. Have either you or an immediate family member (spouse, parent grandparent, child, brother, or sister) been diagnosed with any of the following health conditions (select all that apply)?

- Alcoholism
- Anxiety
- Arthritis
- Autism
- Breast Cancer
- Cervical cancer
- Colon cancer
- COPD
- COVID 19
- Depression
- Diabetes
- Drug addiction
- Emphysema
- Heart disease/heart attack
- Heart failure
- High blood pressure
- High cholesterol
- Liver disease
- Lung cancer
- Multiple Sclerosis



- Obesity
- Peripheral artery disease
- Prostate cancer
- Skin cancer
- Stroke
- None
-

15. What type of insurance do members of your household have (select all that apply)?

- Insurance provided through your employer
- Medicare
- Medicaid
- No insurance coverage (uninsured)
- Private insurance
-

16. What is needed to improve the health of your family and neighbors (select all that apply)?

- Free or affordable health screenings
- Healthier food
- Job opportunities
- Mental health services
- Recreation facilities
- Safe places to walk/play
- Specialty physicians
- Primary care providers
- Safe/adequate housing
- Internet access
- Insurance
- Substance abuse rehabilitation services
- Transportation
- Wellness services
- I don't know
-

17. Please choose all the statements that apply to you

- I abuse or overuse prescription drugs
- I have access to a wellness program through my employer
- I eat at least five servings of fruit or vegetables per day
- I eat fast food more than once per week
- I exercise at least three times per week
- I have more than two alcoholic drinks per day
- I get a flu shot every year
- I have been vaccinated for COVID 19
- I smoke cigarettes, e cigarettes, vape or use other nicotine products
- I use illegal drugs
- I use sunscreen or protective clothing for planned time in the sun
- None of the above apply to me

18. What is your age?

- 0 – 14
- 15 – 17
- 18 – 24
- 25 – 34
- 35 – 54
- 55 -64
- 65+

19. What is your sex?

- a. Male
- b. Female



20. What is your annual household income?

- Less than \$15,000
- \$15,000 - \$25,000
- \$25,000 - \$ 50,000
- \$50,000 - \$75,000
- \$75,000 - \$100,000
- Over \$100,000

21. What is the highest level of education you have attained?

- Less than high school
- Some high school
- High school degree
- Some college/Associates degree
- Bachelor's degree or higher

22. How would you describe your race?

- White non-Hispanic
- Black non-Hispanic
- Hispanic
- Asian & Pacific islander non-Hispanic
- Other

Appendix C – 2018-2021 SIP Results

Baptist Health Louisville Strategic Implementation Plan 2018-2021

Identified Health Needs	Goals	Results
Obesity	Enhance public understanding of their own obesity risk with a focus on the importance of lifestyle changes to improve health outcomes	Implemented Health Weight Survey Online Implemented Referral Program to the Diabetes Prevention program BHMG implemented assessment program for patients with a BMG >25 Attended Community Health fairs to promote health weight
Opioid Abuse	Equip providers with knowledge, skills, tools and attitudes to safely prescribe opioids for analgesia	Utilize Baptist Health Louisville and Baptist Health Opioid Measurement Committee to evaluate and educate providers.
Cancer	Enhance education and screening opportunities	Promoted BH Louisville website containing education tools and videos. Community Health Fairs promoting screens and providing education. Provided online Cancer assessment risk tool BHMG Cancer screening and referral program

	2019			2020			2021			Total		
	Screens	Visits	% Pts Screened	Screens	Visits	% Pts Screened	Screens	Visits	% Pts Screened	Screens	Visits	% Pts Screened
Screenings												
BMI > 25	62,416	87,037	72%	117,986	158,204	75%	67,538	99,637	68%	247,940	344,878	72%
Colonoscopy	30,531	43,010	71%	55,062	80,278	69%	33,500	48,107	70%	119,093	171,395	69%
Lung Screening	5,615	17,656	32%	9,588	34,074	28%	6,019	19,819	30%	21,222	71,549	30%
Mammogram	14,837	24,339	61%	32,363	46,933	69%	16,915	26,435	64%	64,115	97,707	66%

Appendix D – Baptist Health Louisville 2018 and 2021 CHNA Survey Response Comparison

