

MEMORIAL HERMANN GREATER HEIGHTS HOSPITAL

2019 Community Health Needs Assessment



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Executive Summary

Introduction & Purpose

Memorial Hermann Greater Heights Hospital (MHGH) is pleased to present its 2019 Community Health Needs Assessment (CHNA). This CHNA report provides an overview of the process and methods used to identify and prioritize significant health needs across Memorial Hermann Health System's regional service area (including MHGH), as federally required by the Affordable Care Act. Memorial Hermann Health System partnered with Conduent Healthy Communities Institute (HCI) to conduct the CHNA for 13 facilities:

- Memorial Hermann Katy Hospital
- Memorial Hermann Memorial City Medical Center
- Memorial Hermann Greater Heights Hospital
- Memorial Hermann Northeast Hospital
- Memorial Hermann Southeast Hospital
- Memorial Hermann Sugar Land Hospital
- Memorial Hermann Southwest Hospital
- Memorial Hermann The Woodlands Medical Center
- Memorial Hermann Rehabilitation Hospital Katy
- Memorial Hermann Texas Medical Center
- TIRR Memorial Hermann
- Memorial Hermann Surgical Hospital Kingwood
- Memorial Hermann Surgical Hospital First Colony

The purpose of this CHNA is to offer a comprehensive understanding of the health needs in MHGH's service area and guide the hospital's planning efforts to address those needs. Special attention has been given to the needs of vulnerable populations, unmet health needs or gaps in services, and input from the community. To standardize efforts across the Memorial Hermann Health System and increase the potential for impacting top health needs in the greater Houston region, community health needs were assessed and prioritized at a regional/system level.

Findings from this report will be used to identify and develop efforts to improve the health and quality of life of residents in the community.

Summary of Findings

The CHNA findings in this report result from the analysis of an extensive set of secondary data (over 100 indicators from national and state data sources) and primary data collected from community leaders, non-health professionals, and organizations serving the community at large, vulnerable populations, and/or populations with unmet health needs.

Through an examination of the primary and secondary data, the following top health needs were identified:



Memorial Hermann Health System's Significant Health Needs

- Access to Health Services
- Cancers
- Children's Health
- Diabetes
- Economy

- Education
- Food Insecurity
- Heart Disease/Stroke
- Lack of Health Insurance
- Low-Income/Underserved
- Mental Health
- Obesity
- Older Adults/Aging
- Substance Abuse
- Transportation

Prioritized Areas

In March 2019, stakeholders from the 13 hospital facilities in the Memorial Hermann Health System completed a survey to prioritize the significant health issues, based on criteria including health impact and risk as well as consideration of Memorial Hermann's strategic focus. The following four topics were identified as priorities to address:

Memorial Hermann Health System's CHNA Priorities

- Access to Healthcare
- Emotional Well-Being
- Food as Health
- Exercise Is Medicine

MHGH will develop strategies to address these priorities in its 2019 Implementation Strategy.



Introduction

Memorial Hermann Greater Heights Hospital

Located in the heart of Houston adjacent to The Houston Heights, Memorial Hermann Greater Heights Hospital has been caring for families since 1966. A 260-bed facility with more than 600 affiliated doctors, MH Greater Heights provides a wide range of medical specialties, including heart and vascular care, orthopedics, cancer treatment, sleep labs, diagnostic imaging, rehabilitation, women's care, and wound care.

Vision

Memorial Hermann will be the preeminent health system in the U.S. by advancing the health of those we serve through trusted partnerships with physicians, employees and others to deliver the best possible health solutions while relentlessly pursuing quality and value.

Mission Statement

Memorial Hermann is a not-for-profit, community-owned, health care system with spiritual values, dedicated to providing high quality health services in order to improve the health of the people in Southeast Texas.

Memorial Hermann Health System

One of the largest not-for-profit health systems in the nation, Memorial Hermann Health System is an integrated system with an exceptional affiliated medical staff and more than 26,000 employees. Governed by a Board of community members, the System services Southeast Texas and the Greater Houston community with more than 300 care delivery sites including 19 hospitals; the country's busiest Level 1 trauma center; an academic medical center affiliated with McGovern Medical School at UTHealth; one of the nation's top rehabilitation and research hospitals; and numerous specialty programs and services.

Memorial Hermann has been a trusted healthcare resource for more than 110 years and as Greater Houston's only full-service, clinically integrated health system, we continue to identify and meet our region's healthcare needs. Among our diverse portfolio is Life Flight, the largest and busiest air ambulance service in the United States; the Memorial Hermann Physician Network, MHMD, one of the largest, most advanced, and clinically integrated physician organizations in the country; and, the Memorial Hermann Accountable Care Organization, operating a care delivery model that generates better outcomes at lower costs to consumers, while providing residents of the Greater Houston area broad access to health insurance through the Memorial Hermann Health Insurance Company. Specialties span burn treatment, cancer, children's health, diabetes and endocrinology, digestive health, ear, nose and throat, heart and vascular, lymphedema, neurosurgery, neurology, stroke, nutrition, ophthalmology, orthopedics, physical and occupational therapy, rehabilitation, robotic surgery, sleep studies, transplant, weight loss, women's health, maternity and wound care. Supporting the System in its impact on overall population health is the Community Benefit Corporation. At a market share of 26.1% in the 'expanded' greater Houston area of 12 counties, our vision is that Memorial Hermann will be a preeminent integrated health system in the U.S. by advancing the health of those we serve.



Memorial Hermann Greater Heights Hospital Service Area

The service area for MHGH is within Harris County, Texas. The geographic boundaries of the service area are shown in Figure 1. The zip codes within MHGH's primary service area are listed in Table 1 and represent approximately 75% of inpatient discharges.

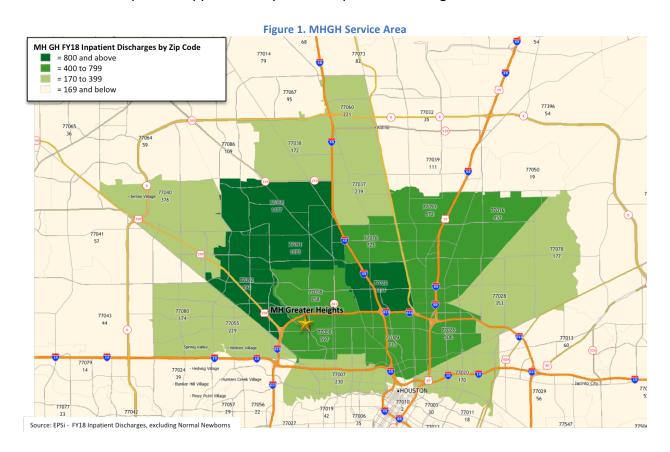


Table 1. Proportion of Patient Population Served by Zip Code

ZIP Code	Percent of Patient
	Population
77088	8.2%
77022	7.7%
77091	7.5%
77092	6.2%
77018	5.3%
77009	5.1%
77076	5.0%
77093	4.7%
77008	4.2%
77026	3.5%
77016	3.1%
77040	2.6%
77028	2.5%
77037	1.7%
77007	1.6%



ZIP Code	Percent of Patient
	Population
77055	1.6%
77060	1.5%
77038	1.2%
77078	1.2%
77080	1.2%

Consultants

Memorial Hermann Health System commissioned Conduent Healthy Communities Institute (HCI) to conduct its 2019 Community Health Needs Assessment. HCI works with clients across the nation to drive community health outcomes by assessing needs, developing focused strategies, identifying appropriate intervention programs, establishing monitoring systems, and implementing performance evaluation processes. To learn more about Conduent Healthy Communities Institute, please visit https://www.conduent.com/community-population-health.



Evaluation of Progress Since Prior CHNA

The CHNA process should be viewed as a three-year cycle. An important part of that cycle is revisiting the progress made on priority topics from previous CHNAs. By reviewing the actions taken to address priority areas and evaluating the impact of these actions in the community, an organization can better focus and target its efforts during the next CHNA cycle.

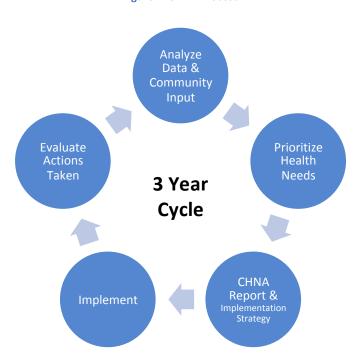


Figure 2. CHNA Process

Priority Health Needs and Impact from Prior CHNA

MHGH's last CHNA was conducted in 2016. The priority areas in FY16-18 were:

- **Healthy Living**: Encourage and foster healthy lifestyles through education, awareness and early detection to prevent illness.
- **Healthcare Access:** Improve community knowledge about healthcare access points and reduce perceived barriers to care.
- Behavioral Health: Ensure that all community members who are experiencing a mental
 health crisis have access to appropriate psychiatric specialists at the time of their crisis,
 are redirected away from the ER, are linked to a permanent, community based mental
 health provider, and have the necessary knowledge to navigate the system, regardless
 of their ability to pay.

Each of the above health topics correlates well with the priorities identified for the current CHNA (detailed below); thus MHGH will be building upon efforts of previous years. A detailed



table describing the strategies/action steps and indicators of success for each of the preceding priority health topics can be found in Appendix A. MHGH's preceding CHNA was made available to the public via the website and community feedback directed to Memorial Hermann's Community Benefit Department:

http://www.memorialhermann.org/locations/heights/community-health-needs-assessment-greater-heights/. No comments or feedback were received on the preceding CHNA at the time this report was written.



Methodology

Overview

Two types of data were used in this assessment: primary and secondary data. Primary data are data that have been collected for the purposes of this community assessment. Primary data were obtained through a community survey and key informant interviews. Secondary data are health indicator data that have already been collected by public sources such as government health departments. Each type of data was analyzed using a unique methodology. Findings were organized by health topics and then synthesized for a comprehensive overview of the health needs in MHGH's service area.

Secondary Data Sources & Analysis

Secondary data used for this assessment were collected and analyzed from HCl's community indicator database. This database, maintained by researchers and analysts at HCl, includes over 100 community indicators from at least 15 state and national data sources. HCl carefully evaluates sources based on the following three criteria: the source has a validated methodology for data collection and analysis; the source has scheduled, regular publication of findings; and the source has data values for small geographic areas or populations.

Secondary Data Scoring

HCl's Data Scoring Tool® was used to systematically summarize multiple comparisons in order to rank indicators based on highest need. For each indicator, the community value was compared to a distribution of Texas and US counties, state and national values, Healthy People 2020, and significant trends were noted. These comparison scores range from 0-3, where 0 indicates the best outcome and 3 the worst. Availability of each type of comparison varies by indicator and is dependent upon the data source, comparability with data collected for other communities, and changes in methodology over time. The comparison scores were summarized for each indicator, and indicators were then grouped into topic areas for a systematic ranking of community health needs. Please see Appendix B for further details on the quantitative data scoring methodology as well as secondary data scoring results.

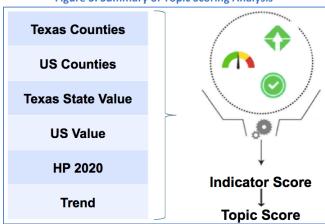


Figure 3. Summary of Topic Scoring Analysis



Disparities Analysis

When a given indicator has data available for subgroups like race/ethnicity, age or gender – and values for these subgroups include confidence intervals – significant differences between the subgroups' value and the overall value can be determined. A significant difference is defined as two values with non-overlapping confidence intervals. Only significant differences in which the value for a subgroup is worse than the overall value are identified. Confidence intervals are not available for all indicators. In these cases, there are not enough data to determine if two values are significantly different from each other.

Primary Data Methods & Analysis

Community input for Memorial Hermann Health System was collected to expand upon the information gathered from the secondary data. Primary data used in this assessment consisted of a community survey in English and Spanish as well as key informant interviews. See Appendix C for the survey and interview questions.

Community Survey

Input from community residents was collected through an online survey. This survey consisted of 11 questions related to top health needs in the community, individuals' perception of their overall health, and weekly exercise habits. The community survey was distributed online through SurveyMonkey® from October 23rd through November 27th of 2018. The survey was made available in both English and Spanish. Paper surveys were also made available and answers to the paper survey were entered into the SurveyMonkey tool. A total of 285 responses were collected. Results in this report are based on the service area for Memorial Hermann Health System. This was a convenience sample, which means results may be vulnerable to selection bias and make the findings less generalizable to the population as a whole.

Table 2. Community Survey Outreach

Community Event	Description
Step Health Event –	Community event hosted by Memorial Hermann providing park activation,
Moody Park, 77009	walking tours, Zumba instruction, and (through a partnership with Houston Food
	Bank) food distribution to low-income, at-risk, and mostly uninsured residents.
Step Health Event –	Community event hosted by Memorial Hermann providing park activation,
Castillo Park, 77009	walking tours, Zumba instruction, and (through a partnership with Houston Food
	Bank) food distribution to low-income, at-risk, and mostly uninsured residents.
Memorial Hermann	10 school-based health clinics in 5 school districts (74 schools) in Harris and Fort
Health Centers for	Bend Counties, providing medical, mental health, and dental care, along with
Schools	nutrition, navigation, and summer boot camp programs to uninsured and
	underinsured children throughout the Greater Houston area.
West Orem YMCA,	A community-centered organization that brings people together to bridge the
77085	gaps in community needs (underserved residents), nurtures residents' potential
	to learn, grow, and thrive, and mobilizes the local community to effect lasting,
	meaningful change.
Spring Branch	A Federally Qualified Health Center (FQHC) providing quality, affordable
Community	healthcare services to the underserved and uninsured communities of Spring



HealthCenter, 77080	Branch and West Houston.
Wesley Community Center, 77009	A multi-purpose social service agency providing residents of Houston: short-term rent, utility, and food assistance to prevent homelessness and maintain family financial stability; a career and personal financial service center; and Early Head Start, a child development program serving infants to toddlers to promote school readiness.
Complete Communities, Houston	Program initiated by the Mayor of Houston in five communities - all historically under-resourced, each with a base level of community involvement and support, and with diverse populations. The program is designed to enhance access to quality affordable homes, jobs, well-maintained parks and greenspace, improved streets and sidewalks, grocery stores and other retail, good schools and transit options. Communities: Acres Homes [77018, 77088, 77091], Gulfton [77056, 77057, 77081], Near Northside [77009, 77022, 77026], Second Ward [77003, 77011, 77020], and Third Ward [77003, 77004, 77204].
Healthy Living Matters	A Houston/Harris County Childhood Obesity Collaborative - A collaborative of multi-sector leaders that promote policy aimed at system-level and environmental change to reduce the incidence of childhood obesity. Priority communities were selected due to the lack of access to healthy food options and opportunities to engage in physical activity as well as for their community assets and readiness for change. Priority Communities: City of Pasadena [77058, 77059, 77502, 77503, 77504, 77505, 77506, 77507, 77536, 77571, 77586], Near Northside [77009, 77022, 77026], and Fifth Ward/Kashmere Gardens [77020, 77026, and 77028]
Greater Northside Health Collaborative	Non-profit collaborative whose goal is to expand active living resources and increase access to quality healthcare and healthy food by promoting resident leadership and civic participation.

The race/ethnicity make-up of survey respondents is shown in Figure 4. The largest proportion of respondents identified as Hispanic/Latino (47.2%), 22.4% as White, 20.8% as Black/African American, and the remaining 9.6% of respondents as Asian/Pacific Islander, Other and Native American.



3.60% __1.20%

Hispanic

White

African American

Asian/Pacific Islander

Other

Native American

Figure 4. Survey Respondents by Race/Ethnicity

Survey respondents were asked to select top issues most affecting the community's quality of life. As shown in Figure 5, the majority of respondents identified Diabetes, Obesity/Overweight, Substance Abuse, and Mental Health & Mental Disorders as top issues in the community.

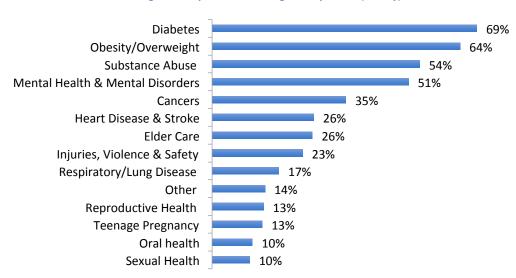


Figure 5. Top Issues Affecting Quality of Life (Survey)

Key Informant Interviews

Community input was also collected through key informant interviews.

Memorial Hermann Health System joined with the Episcopal Health Foundation (EHF) in their key informant interview initiative supporting four Greater Houston area hospital systems in preparing their community health needs assessments. The collaborating hospitals of this initiative include Memorial Hermann, CHI St. Luke's Health, Houston Methodist, and Texas Children's (Table 3). Through this partnership, a total of 53 interviews were conducted with



stakeholders from a range of sectors such as government, healthcare, business, and community service organizations. Community leaders with specific experience working with priority populations, such as women, children, people of color, the disabled, and more, were also interviewed.

Table 3. Memorial Hermann Collaborative Partners

Episcopal Health Foundation's mission is to advance the Kingdom of God with specific focus on human health and well-being through grants, research, and initiatives in support of the work of the Diocese, spanning 57 counties. Through informed action, collaboration, empowerment, stewardship, transparency, and accountability the foundation strives for the transformation of human lives and organizations with compassion for the poor and powerless.

CHI St. Luke's Health, a part of Catholic Health Initiatives (CHI), one of the nation's largest health systems, is dedicated to a mission of enhancing community health through high-quality, cost-effective care. Through partnerships with physicians and community partners, CHI St. Luke's Health serves Greater Houston with its commitment to excellence and compassion in caring for the whole person while creating healthier communities.

Houston Methodist is a nonprofit health care organization serving Greater Houston, dedicated to excellence in research, education, and patient care. Houston Methodist brings compassion and spirituality to all its endeavors to help meet the health needs of the community through the system's I CARE values: integrity, compassion, accountability, respect, and excellence.

Texas Children's Hospital is a not-for-profit organization whose mission is to create a healthier future for children and women throughout Greater Houston and the global community by leading in patient care, education, and research. Texas Children's is committed to creating a healthy community for children by providing the best pediatric care possible, through groundbreaking research and emphasis on education, while also offering a full continuum of family-centered care for women, from obstetrics to well-woman care.

In total, 64 key informant interviews were conducted by phone from August through November 2018; 53 key informant interviews were conducted through the collaborative and 11 interviews were conducted by HCI.

Interviewees who were asked to participate were recognized as having expertise in public health, special knowledge of community health needs and/or represented the broad interest of the community served by the hospital, and/or could speak to the needs of medically underserved or vulnerable populations. Efforts were made to identify interviewees working in and/or knowledgeable about the counties in Memorial Hermann Health System's service area. As seen in Table 4, some interviewees were identified with knowledge of multiple counties.

Table 4. Key Informants by County

County	Key Informants
Austin	Included in Multiple Counties
Brazoria	3
Chambers	2



County	Key Informants
Fort Bend	10
Galveston	7
Harris	28
Liberty	1
Montgomery	4
San Jacinto	Included in Multiple Counties
Walker	Included in Multiple Counties
Waller	2
Wharton	2
Multiple Counties*	5
	64
Total	

^{*}Five (5) of the Key Informant Interviews represented 2 or more counties, including: Austin, Brazoria, Chambers, Fort Bend, Galveston, Harris, Liberty, Montgomery, San Jacinto, Walker, Waller, and Wharton counties.

Interviews were transcribed and analyzed using the qualitative analytic tool, Dedoose¹. Interview excerpts were coded by relevant topic areas and key health themes. Three approaches were used to assess the relative importance of the needs discussed in these interviews. These approaches included: the frequency by which a health topic was discussed across all interviews; the frequency by which a topic was described by the key informant as a barrier/challenge; and the frequency by which a topic was mentioned per interviewee.

Data Considerations

Several limitations of data should be considered when reviewing the findings presented in this report. Although the topics by which data are organized cover a wide range of health and health-related areas, data availability varies by health topic. Some topics contain a robust set of secondary data indicators, while others may have a limited number of indicators or limited subpopulations covered by those specific indicators.

Data scores represent the relative community health need according to the secondary data for each topic and should not be considered to be a comprehensive result on their own. In addition, these scores reflect the secondary data results for the population as a whole, and do not represent the health or socioeconomic need that is much greater for some subpopulations. Moreover, many of the secondary data indicators included in the findings are collected by survey, and though specific methods are used to best represent the population at large, these measures are subject to instability, especially for smaller populations. The Index of Disparity is

¹ Dedoose Version 8.0.35, web application for managing, analyzing, and presenting qualitative and mixed method research data (2018). Los Angeles, CA: SocioCultural Research Consultants, LLC www.dedoose.com



also limited by data availability, where indicator data varies based on the population groups and service areas being analyzed.

Race/Ethnic Groupings

The secondary data presented in this report derive from multiple sources, which may present race and ethnicity data using dissimilar nomenclature. For consistency with data sources throughout the report, subpopulation data may use different terms to describe the same or similar groups of community members.

Zip Codes and Zip Code Tabulation Areas

This report presents both ZIP Code and ZIP Code Tabulation Area (ZCTA) data. ZIP or Zone Improvement Plan Codes were created by the U.S. Postal Service to improve mail delivery service. They are based on postal routes, which factor in delivery-area, mail volume and geographic location. They are not designed to be used for statistical reporting and may change frequently. Some ZIP Codes may only include P.O. boxes or cover large unpopulated areas. ZCTAs or ZIP Code Tabulation Areas were created by the U.S. Census Bureau and are generalized representations of ZIP Codes that have been assigned to census blocks. Therefore, ZCTAs are representative of geographic locations of populated areas. In most cases, the ZCTA will be the same as its ZIP Code. ZCTAs will not necessarily exist for ZIP Code areas with only businesses, single or multiple addresses, or for large unpopulated areas. Since ZCTAs are based on the most recent Census data, they are more stable than ZIP Codes and do not change as frequently.

Demographics for this report are sourced from the United States Census Bureau, which presents ZCTA estimates. Tables and figures in the Demographics section of this report reference ZIP Codes in title (for purposes of familiarity) but show values of ZCTAs. Data from other sources is representative by ZIP Codes and are labeled as such.

Prioritization

In order to focus efforts on a smaller number of the most significant community issues, sixteen representatives from the Memorial Hermann Health System (one or more representing each facility) participated in an online prioritization process to prioritize the fifteen significant health needs identified through the secondary and primary data analyses. The prioritized health needs will be under consideration for the development of an implementation plan that will address some of the community's most pressing health issues.

Prioritization Process

To prioritize significant health needs, Memorial Hermann stakeholders participated in an online webinar on March 7, 2019 to review data synthesis results followed by completion of a prioritization matrix listing significant health needs and four criteria by which to rate each need. Participants scored each need for each of the criteria on a scale from 1-5, with 1 meaning the respondent strongly disagrees to 5 meaning the respondent strongly agrees that the health need meets the criterion. Respondents were also able to select "Don't Know/Unsure" for each health need.



The criteria for prioritization included to what extent an issue:

- Impacts many people in the community
- Significantly impacts subgroups in the community (gender, race/ethnicity, LGBTQ, etc.)
- Has inadequate existing resources in the community
- Has high risk for disease or death

Completion of the prioritization matrix in Appendix D resulted in numerical scores for each health need that corresponded to how well each health need met the criteria for prioritization. The scores were ranked from highest to lowest (Table 5).

Table 5. Results from Memorial Hermann Prioritization Matrix

Significant Health Need	Impact on Community	Impact on Subgroups	Inadequate Resources	High Risk	Average Score
Obesity (Exercise,	4.69	4.00	3.19	4.50	4.09
Nutrition and Weight)					
Mental Health	4.44	3.44	4.50	3.75	4.03
Diabetes	4.50	4.00	3.25	4.19	3.98
Lack of Health Insurance	4.31	4.19	3.38	4.00	3.97
Low-	4.19	4.19	3.44	4.00	3.95
Income/Underserved					
Heart Disease/ Stroke	4.44	3.82	2.81	4.44	3.88
Substance Abuse	3.56	3.88	3.63	4.19	3.81
Access to Health	4.00	3.94	3.25	3.88	3.77
Services					
Older Adults and Aging	4.38	3.81	3.13	3.75	3.76
Food Insecurity	3.88	4.00	3.44	3.50	3.70
Cancers	4.19	3.19	3.00	4.31	3.67
Education	3.88	3.81	3.00	3.13	3.45
Transportation	4.00	3.88	2.81	3.00	3.42
Children's Health	4.00	3.50	3.00	3.19	3.42
Economy	3.31	3.31	2.69	2.88	3.05

In addition to rating each need in the matrix, prioritization participants were asked to rate the level of importance of Memorial Hermann's 4 strategic pillars.

- 1. Improving **Access to Healthcare** through programming, education, and social service support;
- Addressing Emotional Well-being (mental and behavioral health) through innovative access points;
- 3. Promoting the importance of a healthy diet through screening and creating access to nutritious **Food as Health**; and,
- 4. Fostering improved health through **Exercise Is Medicine** with culturally appropriate activities.



Each of these intersecting pillars connect to each other through various points in Memorial Hermann programs and initiatives advancing the health of our communities (Figure 6).

Advancing the Health of our Communities

We will never change the status of our community by focusing on health alone

ACCESS EMOTIONAL FOOD AS EXERCISE IS MEDICINE

WELL-BEING HEALTH

Figure 6. Memorial Hermann's Four Pillars for Community Health

Over 93% of participants responded that the 4 pillars were important or very important. The Memorial Hermann Community Benefit team reviewed these findings, and taking into account the alignment of top needs with Memorial Hermann's strategic focus areas, a decision was made to integrate:

- Lack of Health Insurance, Low-Income/Underserved, and Access to Health Services into Pillar 1: Access to Healthcare
- Mental Health and Substance Abuse into Pillar 2: Emotional Well-Being
- Diabetes, Food Insecurity and Heart Disease/Stroke into Pillar 3: Food as Health
- Obesity (Exercise, Nutrition and Weight) into Pillar 4: Exercise Is Medicine

Through this system-wide prioritization process, the following four priorities for Memorial Hermann Health System are:

- Access to Healthcare (addressing Access to Health Services, Lack of Health Insurance, and Low-Income/Underserved)
- Emotional Wellbeing (addressing Mental Health and Substance Abuse)
- Food as Health (addressing Diabetes, Food Insecurity, and Heart Disease/Stroke)
- Exercise Is Medicine (addressing Obesity)

These four health topics will be explored further in order to understand how findings from the secondary and primary data analyses resulted in each issue being a high priority health need for Memorial Hermann Health System.



Demographics

The following section explores the demographic profile of MHGH's service area, consisting of Harris County. The demographics of a community significantly impact its health profile. Different race/ethnic, age, and socioeconomic groups have unique needs and require different approaches to health improvement efforts. All demographic estimates are sourced from the U.S. Census Bureau's 2013-2017 American Community Survey unless otherwise indicated. Furthermore, tables in this section list indicator values for the top 75% of zip codes within MHGH's service area in descending order of inpatient discharges unless otherwise noted.

Population

According to the U.S. Census Bureau's 2013-2017 American Community Survey, Harris County had a population of 4,652,980. Figure 7 illustrates the population size by county and Table 6 by zip code. As shown in Table 6, the most populous zip codes in MHGH's service area are 77088 and 77040.

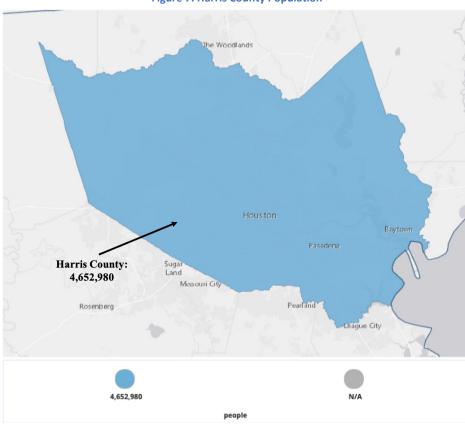


Figure 7. Harris County Population

Table 6. Population by Zip Code

ZIP Code	Total Population Estimate
77088	56,716
77022	27,364
77091	25,277
77092	38,476



ZIP Code	Total Population Estimate
77018	28,073
77009	37,751
77076	35,144
77093	44,428
77008	34,491
77026	22,799
77016	29,597
77040	48,273
77028	15,725
77037	20,038
77007	35,822
77055	45,003
77060	44,549
77038	30,653
77078	15,820
77080	45,665

American Community Survey, 2013-2017

Age

Figure 8 shows MHGH's service area population that is under 18 years old. Almost 27% of Harris County's population is under 18. Harris County has a higher proportion of residents under 18 compared to the state and national values (26% and 22.6%, respectively).

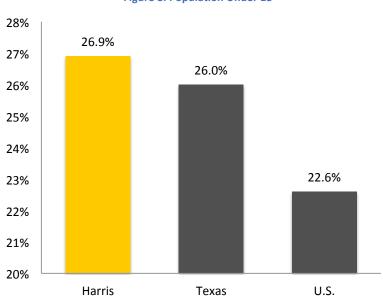


Figure 8. Population Under 18

As shown in Figure 9, Harris County has a smaller proportions of older adults compared to Texas (12.3%) and the U.S. (15.6%). In Harris County, 10.2% of residents are over 65.



Figure 9. Population Over 65

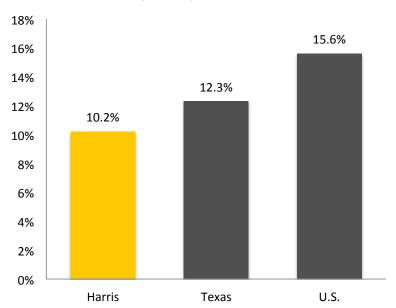


Figure 10 shows that Harris County has a larger proportion of residents under 5 years old (7.7%) compared to both Texas (7.2%) and the U.S. (6.1%).

9% 7.7% 8% 7.2% 7% 6.1% 6% 5% 4% 3% 2% 1% 0% U.S. Harris **Texas**

Figure 10. Population Under 5

Race/Ethnicity

The race and ethnicity composition of a population is important in planning for future community needs, particularly for schools, businesses, community centers, health care and child care. Race and ethnicity data are also useful for identifying and understanding disparities in housing, employment, income, and poverty.

Figure 11 shows the racial composition of residents in Harris County with 42.2% of residents identifying as Hispanic or Latino (of any race); 30.6% as White; 18.5% as Black or African



American; 6.8% as Asian; and 1.9% as American Indian and Alaska Native, Native Hawaiian and Other Pacific Islander, "Some other race", or "Two or more races".

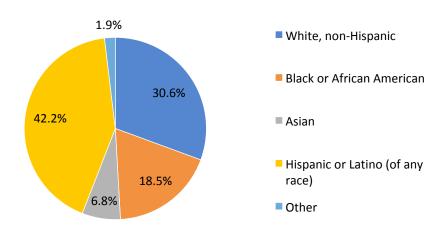


Figure 11. Race/Ethnicity in Harris County

Language

Language is an important factor to consider for outreach efforts in order to ensure that community members are aware of available programs and services.

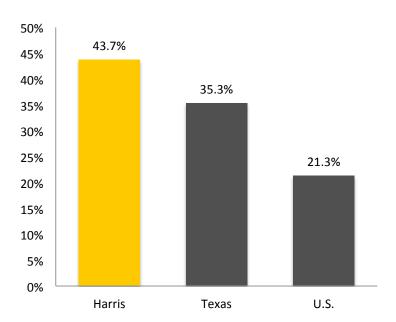


Figure 12. Language Other than English Spoken at Home

Figure 12 shows the proportion of residents in Harris County who speak a language other than English at home. Almost 44% of residents in Harris County speak a language other than English as compared to 35.3% in Texas and 21.3% in the U.S. This is an important consideration for the effectiveness of services and outreach efforts, which may be more effective if conducted in languages other than English alone.

Table 7. Population with Difficulty Speaking English by Zip Code

	Difficulty Speaking
	English
ZIP Code	
77088	27.3%
77022	44.6%
77091	22.7%
77092	30.3%
77018	13.1%
77009	22.8%
77076	63.9%
77093	51.2%
77008	5.9%
77026	23.0%
77016	14.7%
77040	25.8%
77028	9.2%
77037	72.3%
77007	4.7%
77055	30.2%
77060	55.4%
77038	52.9%
77078	16.9%
77080	37.1%
Harris	20.4%
Texas	14.1%

American Community Survey, 2013-2017

As shown in Table 7, Harris County has a larger proportion of residents with difficulty speaking English (20.4%) compared to the state of Texas (14.1%). In Harris County, over half of residents in zip codes 77076, 77093, 77037, 77060, and 77038 have difficulty speaking English. Within MHGH's top zip codes for inpatient discharges (77088 and 77022), over a quarter of community members have difficulty speaking English.

Social and Economic Determinants of Health

This section explores the economic, environmental, and social determinants of health in MHGH's service area. Social determinants are the conditions in which people are born, grow, work, live, and age, and the wider set of forces and systems shaping the conditions of daily life.

Income

Median household income reflects the relative affluence and prosperity of an area. Areas with higher median household incomes are likely to have a greater share of educated residents and lower unemployment rates.

Figure 13 compares the median household income values for Harris County to the median household income value for Texas and the U.S. As shown, Harris County's median household



income (\$57,791) is slightly higher than the state and national values (\$57,051 and \$57,652, respectively).

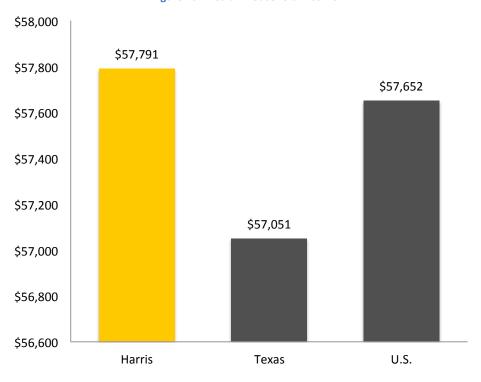


Figure 13. Median Household Income

As displayed in Table 8, MHGH's top zip codes for inpatient discharges reveal a relatively low range in median household income. The top four zip codes all have median household incomes lower than the state value (\$57,051), ranging between \$30,164 in zip code 77022 and \$44,472 in zip code 77088.

Table 8. Median Household Income by Zip Code

ZIP Code	Median Household	
	Income	
77088	\$44 <i>,</i> 472	
77022	\$30,164	
77091	\$32,500	
77092	\$39,921	
77018	\$81,565	
77009	\$49,383	
77076	\$34,842	
77093	\$30,837	
77008	\$97,690	
77026	\$26,644	
77016	\$32,302	
77040	\$55,438	
77028	\$30,233	



ZIP Code	Median Household	
	Income	
77037	\$41,491	
77007	\$121,458	
77055	\$52,269	
77060	\$28,948	
77038	\$41,347	
77078	\$35,770	
77080	\$44,386	
Harris	\$57,791	
Texas	\$57,051	

American Community Survey, 2013-2017

Poverty

Federal poverty thresholds are set every year by the Census Bureau and vary by size of family and ages of family members. A high poverty rate is both a cause and a consequence of poor economic conditions.

Figure 14 shows the proportion of residents living below the poverty level in Harris County compared to the state and the U.S. The percentage of residents living below the poverty level in Harris County is 16.8%, which is higher than the national value (14.6%) and slightly higher than the state value (16.0%).

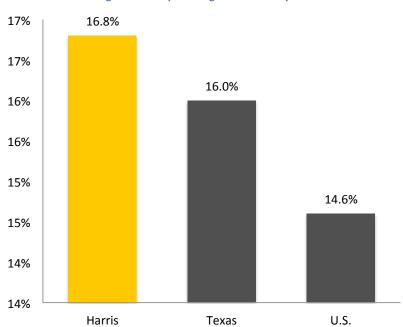


Figure 14. People Living Below Poverty Level

Figure 15 shows the proportion of residents living below the poverty level by race/ethnicity. In Harris County, 22.6% of Hispanic or Latino residents and 21.8% of Black or African American



residents live below the poverty level, compared to 7% White and 11.4% Asian residents. The percentage of Black and Asian residents living below the poverty level in Harris County is higher than the state values for Black and Asian residents.

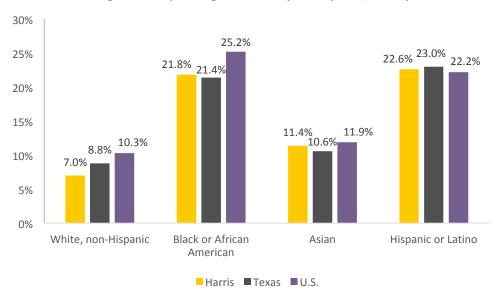
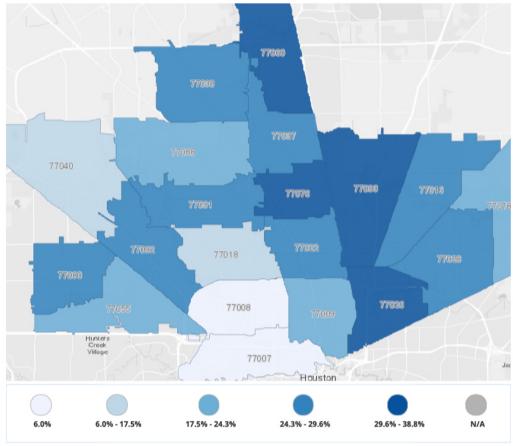


Figure 15. People Living Below Poverty Level by Race/Ethnicity





The poverty rate in Harris County (16.8%) is similar to the Texas value (16.0%) (Table 9.) As shown in Figure 16 and Table 9, within MHGH's service area, over 30% of residents in zip codes 77076, 77093, 77026, and 77060 are living below the poverty level. MHGH's top zip codes for inpatient discharges, 77088 and 77022, have over 20% of residents living below the poverty level.

Table 9. People Living Below Poverty Level by Zip Code

ZIP Code	People Living Below	
	Poverty Level	
77088	21.0%	
77022	29.6%	
77091	28.5%	
77092	26.5%	
77018	17.5%	
77009	24.3%	
77076	33.7%	
77093	36.6%	
77008	6.0%	
77026	38.8%	
77016	26.1%	
77040	13.2%	
77028	28.0%	
77037	26.3%	
77007	6.0%	
77055	22.8%	
77060	37.1%	
77038	25.8%	
77078	21.9%	
77080	25.1%	
Harris	16.8%	
Texas	16.0%	

American Community Survey, 2013-2017

Food Insecurity

The Supplemental Nutrition Assistance Program (SNAP) is a federal assistance program that provides low-income families with electronic benefit transfers (EBTs) that can be used to purchase food. The goal of the program is to increase food security and reduce hunger by increasing access to nutritious food.

Table 10 shows the percent of households with children that participate in SNAP in the zip codes within MHGH's service area. Harris County has a slightly higher proportion of households with children receiving SNAP (67.7%) compared to the state of Texas (64.3%). Within MHGH's top ten zip codes for inpatient discharges, 77092, 77076, and 77093 all have proportions higher



than 70%. Furthermore, zip codes 77037, 77038, and 77080 all have more than 80% of households with children receiving SNAP.

Table 10. Households with Children Receiving SNAP by Zip Code

ZIP Code	Households with Children	
	Receiving SNAP	
77088	67.8%	
77022	52.7%	
77091	50.8%	
77092	71.4%	
77018	49.0%	
77009	58.7%	
77076	77.4%	
77093	71.6%	
77008	34.6%	
77026	49.2%	
77016	57.4%	
77040	65.6%	
77028	41.6%	
77037	81.7%	
77007	15.4%	
77055	72.4%	
77060	77.3%	
77038	81.1%	
77078	74.0%	
77080	81.3%	
Harris	67.7%	
Texas	64.3%	

American Community Survey, 2013-2017

Unemployment

The unemployment rate is a key indicator of the local economy. Unemployment occurs when local businesses are not able to supply enough appropriate jobs for local employees and/or when the labor force is not able to supply appropriate skills to employers. A high rate of unemployment has personal and societal effects. During periods of unemployment, individuals are likely to feel severe economic strain and mental stress. Unemployment is also related to access to health care, as many individuals receive health insurance through their employer. A high unemployment rate places strain on financial support systems, as unemployed persons qualify for unemployment benefits and food stamp programs.

Figure 17 displays the rate of unemployment in Harris County between May 2017 and November 2018. Although the unemployment rate has exhibited a decrease, it remains higher (3.8%) compared to the state and national rates (both 3.5%) in November 2018.



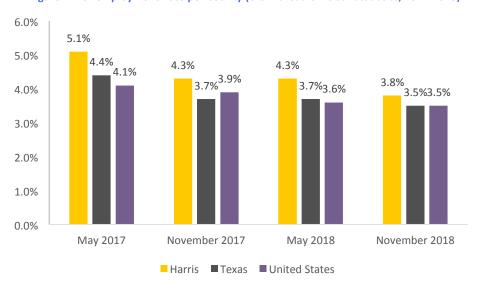


Figure 17. Unemployment Rate per County (U.S. Bureau of Labor Statistics, 2017-2018)

Education

Graduating from high school is an important personal achievement and is essential for an individual's social and economic advancement. Graduation rates can also be an important indicator of the performance of an educational system. Having a bachelor's degree opens up career opportunities in a variety of fields and is often a prerequisite for higher-paying jobs.

Figure 18 displays the proportion of residents in Harris County who are 25 years and older with at least a high school degree. Approximately 80% of residents 25 years and older in Harris County have at least a high school degree, which is lower than the U.S. (87.3%) and Texas (82.8%).

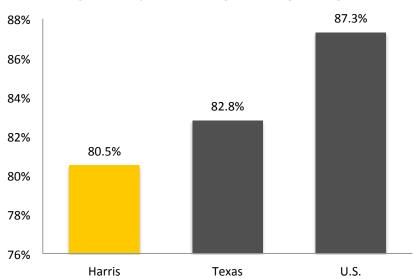


Figure 18. People 25+ with a High School Degree or Higher

Figure 19 shows the proportion of residents in Harris County who are 25 years and older with a bachelor's degree or higher. The proportion of residents 25 and older with a bachelor's degree in Harris County (30.5%) is higher than the rate in Texas (28.7%) and similar to the rate for the entire U.S. (30.9%).

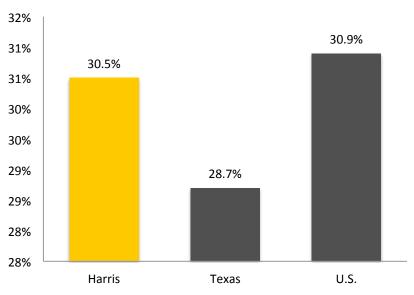


Figure 19. People 25+ with a Bachelor's Degree or Higher

Table 11 displays the educational attainment indicators for residents 25 years and older by zip code in MHGH's service area. For high school degree attainment, the zip code with the highest rate is 77007 (95.5%) and the zip code with the lowest rate is 77037 (44.0%). Similarly, for attainment of a bachelor's degree, the zip code with the highest rate is 77007 (74.8%) and the zip code with the lowest rate is 77037 (2.8%). The zip codes with highest proportions of MHGH inpatient discharges, zip codes 77088 and 77022, have more than 55% of people 25 years and older with a high school degree. However, less than 14% of residents 25 years and older have a bachelor's degree or higher in these two zip codes.

Table 11. People 25+ with a High School Degree and People 25+ with a Bachelor's Degree by Zip Code

ZIP Code	High School Degree or Higher	Bachelor's Degree or Higher
77088	70.9%	13.5%
77022	55.7%	6.6%
77091	74.2%	14.1%
77092	73.4%	16.6%
77018	85.0%	47.2%
77009	70.2%	29.6%
77076	52.1%	3.9%
77093	48.7%	3.2%
77008	93.0%	61.9%
77026	62.5%	7.5%
77016	71.9%	9.3%
77040	78.6%	27.6%

ZIP Code	High School Degree or Higher	Bachelor's Degree or Higher
77028	74.5%	7.7%
77037	44.0%	2.8%
77007	95.5%	74.8%
77055	72.5%	33.9%
77060	55.1%	6.1%
77038	55.7%	8.1%
77078	69.6%	9.7%
77080	67.6%	17.3%
Harris	80.5%	30.5%
Texas	82.8%	28.7%

American Community Survey, 2013-2017

Transportation

There are numerous ways in which transportation may influence community health. Public transportation offers mobility, particularly to people without cars. Transit can help bridge the spatial divide between people and jobs, services, and training opportunities. Public transportation also reduces fuel consumption, minimizes air pollution, and relieves traffic congestion. Walking to work helps protect the environment, while also providing the benefit of daily exercise.

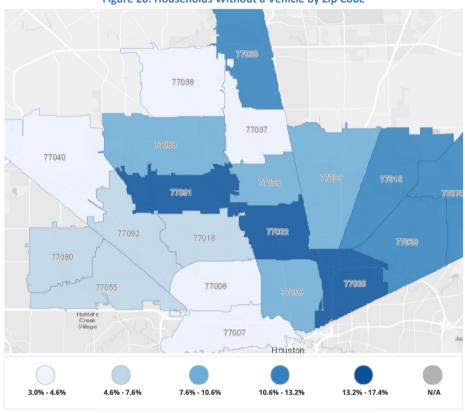


Figure 20. Households Without a Vehicle by Zip Code



Figure 20 shows the percentage of households without a vehicle within MHGH's service area. As shown, more than 13% of households in zip codes 77022, 77026 and 77091 do not have a vehicle.

Table 12. Modes of Commuting by Zip Code

ZIP Code	Commute by Walking	Commute by Biking		Commute by Public Transportation
77088	0.5%	0.1%	79.1%	3.9%
77022	2.0%	0.6%	78.2%	3.8%
77091	0.9%	0.3%	79.8%	6.2%
77092	1.7%	0.1%	76.5%	2.5%
77018	0.5%	0.5%	82.6%	1.6%
77009	3.7%	0.7%	72.9%	3.9%
77076	1.3%	0.4%	77.0%	2.5%
77093	0.9%	0.2%	76.5%	2.1%
77008	1.5%	0.5%	81.8%	2.3%
77026	1.9%	0.0%	70.6%	8.1%
77016	1.4%	0.0%	80.1%	4.0%
77040	1.4%	0.1%	81.8%	1.6%
77028	0.9%	0.0%	78.3%	4.8%
77037	2.1%	0.2%	80.9%	1.4%
77007	0.9%	0.4%	83.9%	2.4%
77055	2.9%	0.5%	70.4%	4.0%
77060	2.3%	0.2%	71.7%	5.2%
77038	0.8%	0.2%	82.6%	1.7%
77078	0.2%	0.0%	78.4%	6.0%
77080	3.1%	0.7%	71.5%	2.7%
Harris	1.5%	0.3%	79.3%	2.7%
Texas	1.6%	0.3%	80.5%	1.5%

American Community Survey, 2013-2017

Table 12 displays the different modes of commuting used by residents of Harris County. In Harris County, 1.5% of residents commute by walking and 0.3% commute by biking. The majority of residents (79.3%) commute by driving alone, which is similar to the state value (80.5%). Public transportation is used by Harris County residents (2.7%) more so than the state of Texas as a whole (1.5%). Considering the top ten zip codes for inpatient discharges within MHGH's service area, zip codes 77091 and 77026 have the highest proportions of residents commuting by public transportation (6.2% and 8.1%, respectively).

SocioNeeds Index®

Conduent Healthy Communities Institute developed the SocioNeeds Index® to easily compare multiple socioeconomic factors across geographies. This index incorporates estimates for six different social and economic determinants of health – income, poverty, unemployment, occupation, educational attainment, and linguistic barriers – that are associated with poor health outcomes including preventable hospitalizations and premature death.



Zip codes within each county are assigned an index value from 0 (low need) to 100 (high need), based on how those zip codes compare to others in the U.S. Within each county, the zip codes are then ranked from 1 (low need) to 5 (high need) to identify the relative level of need. Zip codes with populations under 300 persons are excluded.

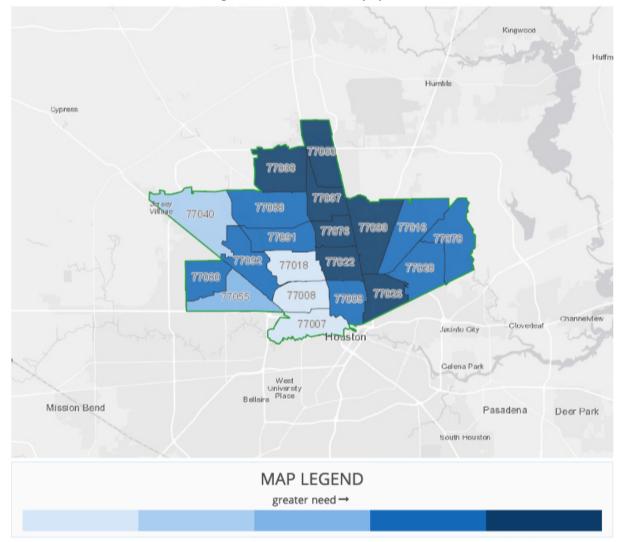


Figure 21. SocioNeeds Index by Zip Code

As shown in Figure 21 and Table 13, the majority of zip codes (13 out of 20) within MHGH's service area have SocioNeeds Index values greater than 95. The zip codes with the largest proportion of inpatient discharges at MHGH, zip codes 77088 and 77022, have SocioNeeds Index values of 95.6 and 98.6, respectively.

Table 13. SocioNeeds Index by Zip Code (In Order of SocioNeeds Index Value)

ZIP Code	SocioNeeds Index Value
77060	99.5
77093	99.3



ZIP Code	SocioNeeds Index Value
77076	99.1
77026	98.9
77037	98.9
77022	98.6
77038	97.6
77028	96.9
77078	96.6
77016	96.3
77080	95.6
77088	95.6
77091	95.5
77092	93.4
77009	90.2
77055	82.6
77040	71.8
77018	28.1
77008	7.8
77007	4.6

Conduent SocioNeeds Index, 2019



Data Synthesis

All forms of data have their own strengths and limitations. To gain a comprehensive understanding of the significant health needs for Memorial Hermann Health System, the findings from both the primary data and the secondary data were compared and studied together. The secondary data, key informant interviews and community survey were treated as three separate sources of data.

The secondary data were analyzed using data scoring, which identified health areas of need based on the values of indicators for each topic area (Appendix B). Table 14 displays the data scores for Health and Quality of Life Topics for Harris County.

Table 14. Harris County Topic Scores

Topic	Score
Transportation	1.82
Women's Health	1.81
Immunizations & Infectious Diseases	1.78
Other Chronic Diseases	1.78
Public Safety	1.65
Maternal, Fetal & Infant Health	1.64
Prevention & Safety	1.58
Social Environment	1.58
Education	1.56
Economy	1.55
Heart Disease & Stroke	1.54
Children's Health	1.52
Older Adults & Aging	1.50
Access to Health Services	1.48
Exercise, Nutrition, & Weight	1.48
Wellness & Lifestyle	1.42
Men's Health	1.38
Diabetes	1.34
Environment	1.34
Substance Abuse	1.33
Cancer	1.31
Mortality Data	1.29
Mental Health & Mental Disorders	1.26
Respiratory Diseases	0.99

This methodology was applied to each of the 12 counties within Memorial Hermann Health System's primary service area and then data scores calculated for the region in order to determine significant health needs across the system. Table 15 lists the resulting data scores for Health & Quality of Life Topics.



Table 15. Memorial Hermann Region Topic Scores

Topic	Score
Transportation	1.84
Heart Disease & Stroke	1.82
Access to Health Services	1.79
Older Adults & Aging	1.60
Exercise, Nutrition, & Weight	1.56
Other Chronic Diseases	1.52
Mental Health & Mental Disorders	1.50
Children's Health	1.47
Immunizations & Infectious Diseases	1.43
Education	1.43
Women's Health	1.42
Social Environment	1.42
Wellness & Lifestyle	1.41
Maternal, Fetal & Infant Health	1.41
Respiratory Diseases	1.41
Economy	1.41
Environment	1.40
Public Safety	1.36
Cancer	1.31
Prevention & Safety	1.26
Substance Abuse	1.23
Men's Health	1.21

The analysis of key informant interviews occurred using the qualitative software: Dedoose¹. For the community survey, HCI performed a simple review and analysis to identify top health needs. Overall, each method produced individual results that represent the community input in this report. This consolidated input leads to the prioritized heath needs in this report. This triangulated approach is shown in Figure 22.

Health Indicator Community Data Survey (Data Scoring Analysis) Analysis) Health

Figure 22. Visual of Data Synthesis Approach



The team used the triangulated approach to identify significant health needs for Memorial Hermann Health System. Figure 23 displays the results of this synthesis. For many of the health topics evidence of need was present across multiple data sources, including Obesity, Mental Health, Access to Health Services, Transportation, and Uninsured. For other health topics the evidence was present in just one source of data, however it should be noted that this may be reflective of the strength and limitations of each type of data that was considered in this process.

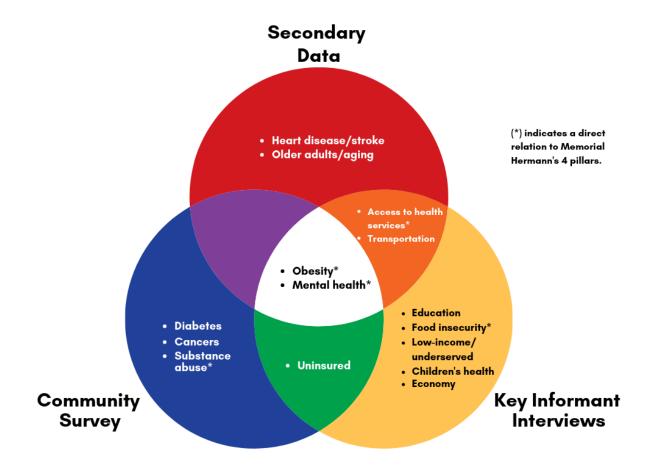


Figure 23. Data Synthesis Results

Prioritized Significant Health Needs

Prioritization Results

Upon completion of the online prioritization survey, four health areas were identified for subsequent implementation planning by Memorial Hermann Health System. These four health priorities are: Access to Care, Emotional Well-Being, Food as Health, and Exercise Is Medicine.

The following section will dive deeper into each of these health topics in order to understand how findings from the secondary and primary data led to each health topic becoming a priority health issue for Memorial Hermann Health System. For each prioritized health need, key issues are summarized; secondary data scores are noted for indicators of concern; and community input is described.

Secondary Data Scoring Methodology

For each indicator, each county in MHGH's service area was assigned a score based on its comparison to other communities, whether health targets have been met, and the trend of the indicator value over time. These comparison scores range from 0-3, where 0 indicates the best outcome and 3 the worst. Availability of each type of comparison varied by indicator and was dependent upon the data source, comparability with data collected for other communities, and changes in methodology over time. Please see Appendix B for further information on HCI Data Scoring methodology.

Access to Healthcare

Key Issues:

- Range of barriers, including transportation, access to specialty care, lack of awareness, and fear or stigma
- Lack of health insurance
- Low income and vulnerable groups

Secondary Data

Access to Health Services, Lack of Insurance and Low-Income/Underserved were identified as significant needs for Memorial Hermann Health System. As shown in Table 16, there are several indicators related to Access to Health Services with data scores equal to or greater than 1.75.

In Harris County, indicators of concern include: Adults Unable to Afford to See a Doctor, Adults with Health Insurance, Children with Health Insurance, and Persons with Health Insurance. Over 22% of Harris County adults are unable to afford to see a doctor, which is higher than the proportion in Texas (18.3%) and the U.S. (12.1%). Moreover, approximately 20% of residents in Harris County do not have health insurance.



Table 16. Secondary Data Scoring Results: Access to Health Services

		County		County Value Compared to:						
Indicator	Name	Value	Data Score	TX Counties	TX Value	US Value	HP 2020 Target	Trend Over Time		
Adults Unable to Afford to See a Doctor [10] (2015)	Harris	22.1 percent	2	1.5	3	3	1.5	1.5		
[10] Texas Behavioral Risk	Factor Su	rveillance System								
Adults with Health Insurance: 18-64 [9] (2016)	Harris	74.7 percent	1.75	2	2	1.5	3	0		
Children with Health Insurance [9] (2016)	Harris	89.4 percent	1.81	1	2	1.5	3	1		
Persons with Health Insurance [9] (2016)	Harris	79.3 percent	1.75	2	2	1.5	3	0		
[9] Small Area Health Insu	ırance Estir	mates								
Primary Care Provider Rate [4] (2015)	Harris	57.2 providers/ 100,000 population	1.61	0	2	3	1.5	2		
[4] County Health Ranking	gs									

When considering Access to Health Services, it is important to take into account the economy and how financial barriers impact community residents' ability to access care. As shown in Table 17, there are several economic indicators with data scores greater than 2 in Harris County.

Economic indicators of concern, including: Homeownership, Severe Housing Problems, Students Eligible for the Free Lunch Program, Median Monthly Owner Costs for Households without a Mortgage, SNAP Certified Stores, Median Household Gross Rent, Families Living Below Poverty Level, and Food Insecurity Rate. Less than 50% of Harris County residents own a home. Over 20% of residents in Harris County have severe housing problems. And more than 58% of students are eligible for the free lunch program compared to the national value of 42.6%. In Harris County, there are over 14% of families living below the poverty level compared to 13% in Texas and 11% in the U.S.

Table 17. Secondary Data Scoring Results: Economy

		=	0							
		County			County Value Compared to:					
Indicator	Name	Value	Data Score	TX Counties	TX Value	US Value	HP 2020 Target	Trend Over Time		
Child Food Insecurity Rate [5] (2016)	Harris	23.5 percent	1.67	1	2	3	1.5	0		
[5] Feeding America										



Children Living Below Poverty Level [1] (2012-2016)	Harris	26.0 percent	1.67	2	2	3	1.5	0
[1] American Community	Survey							
Families Living Below Poverty Level [1] (2012-2016)	Harris	14.4 percent	2.06	2	3	3	1.5	1
[1] American Community	Survey							
Food Insecurity Rate [5] (2016)	Harris	16.6 percent	2.06	2	2	3	1.5	1
[5] Feeding America								
Homeownership [1] (2012-2016)	Harris	49.6 percent	2.44	3	2	3	1.5	2
[1] American Community	Survey							
Median Household Gross Rent [1] (2012- 2016)	Harris	937 dollars	2.08	3	2	1	1.5	3
[1] American Community	Survey							
Median Monthly Owner Costs for Households without a Mortgage [1] (2012- 2016)	Harris	534 dollars	2.14	3	3	3	1.5	1
[1] American Community	Survey							
Mortgaged Owners Median Monthly Household Costs [1] (2012-2016)	Harris	1504 dollars	1.81	3	2	2	1.5	1
[1] American Community	Survey							
People 65+ Living Below Poverty Level [1] (2012-2016)	Harris	11.3 percent	1.89	2	2	3	1.5	1
[1] American Community	Survey							
People Living Below Poverty Level [1] (2012-2016)	Harris	17.4 percent	1.67	2	2	3	1.5	0
[1] American Community	Survey							
Severe Housing Problems [4] (2010- 2014)	Harris	20.9 percent	2.39	3	3	3	1.5	1
[4] County Health Ranking	gs							
SNAP Certified Stores [17] (2016)	Harris	0.6 stores/ 1,000 population	2.11	3	1.5	1.5	1.5	2
[17] U.S. Department of A	Agriculture	- Food Environment Atla	S					
Students Eligible for the Free Lunch Program [8] (2015-	Harris	58.2 percent	2.22	2	3	3	1.5	1



2016)								
[8] National Center for Ed	lucation Sta	atistics						
Total Employment Change [16] (2014- 2015)	Harris	2.4 percent	1.67	1	3	2	1.5	1.5
[16] U.S. Census - County	Business P	atterns						
Unemployed Workers in Civilian Labor Force [15] (July 2018)	Harris	4.4 percent	1.94	2	2	2	1.5	2
[15] U.S. Bureau of Labor	Statistics		•					

Primary Data

During the key informant interview process, Access to Health Services was discussed over 160 times and was raised by participants almost 50 times in relation to barriers or challenges to achieving health in the community. The primary themes related to barriers or challenges were limitations to procuring specialty care services, transportation to services and hours of operation. In addition to the primary themes, two additional barriers or challenges stood out as key factors impacting access to health care services, lack of knowledge and stigma or fear preventing people from seeking care.

The issue that interview participants were most concerned with was patients being able to access follow up care with specialty care providers. Multiple participants raised concerns that even if patients are able to access preventative or primary care services, they may not be able to access the appropriate follow up care with a specialty care provider. Some participants raised this concern in context of patients not living near a specialist and others raised in context of patients not being able to afford the cost of follow up care. A concern brought up by a few participants, that for serious chronic conditions, patients would ultimately end up seeking care from emergency services instead.

Another common concern raised by interview participants was transportation to services and hours of operation of services limiting patients' access to care. Participants described how these factors determine whether patients decide to take off from work and seek services in the first place. A few participants described the many services and resources that are available to the community but that many may not be aware how they can access or benefit from them. One participant described resources being concentrated in certain geographic areas and more remote locations not being well connected or knowledgeable about how they may also benefit from these resources. Participants described the potential for more collaboration and partnership to connect communities to one another. Several participants described a downturn in people seeking preventative care service and hypothesized that one of the factors may be related to the immigrant community in the region experiencing fear or stigma related to having to show identification or proof of citizenship.



"Even though we at the Health District do not ask for proof of immigration status, people don't understand that, particularly since we're a government agency, and it's been a real challenge to get some of these folks to come in for services."

There were almost 80 references to the uninsured population in the key informant interviews and lack of health insurance was raised as a barrier or challenge to achieving health in the community 19 times. Lack of health insurance was most often brought up in context of patients having limited financial resources and a factor to not accessing health care services. Participants discussed patients not having the ability to pay fees for multiple appointment co-pays or not seeking care due to competing financial priorities. While health care services may be available in the community, for those who are lacking health insurance, accessing health care services is not necessarily an option. Lack of health insurance creates a particular challenge for those who require specialty care services.

"I think those are the biggest two—access, again, with the majority of our adult population being uninsured, having them try to find a provider that, again, will take sliding fee scale, or reduced rates. Once they're able to access those services, then it becomes a matter of paying for the things that are needed. The patient comes in and we diagnose them with diabetes, then comes the cost of medications, and if that patient is needing specialty care outside of the scope of primary care, access to specialists."

Participants brought up issues related to low income or groups who may be underserved in the community 115 times during the key informant interview process. Particular groups that participants felt may experience added challenges accessing health care services included the immigrant population, individuals with disabilities, families with young children, and the elderly. Several participants raised fees related to co-pays or out of pocket expenses as a barrier to patients seeking initial preventative services or ongoing treatment for chronic conditions. Participants identified several groups they felt were underserved in the community. Multiple participants discussed the unique and specific challenges with providing culturally appropriate care for a diverse and recent immigrant population in the community. Participants felt that families with young children and the elderly population are particularly vulnerable groups in the community that experience barriers and challenges accessing health care services. Specifically, participants discussed these groups experiencing high levels of poverty placing them at higher risk for poor health outcomes.

"Most of them are extremely low income and they fall in those categories where we have a significant number of elderly disabled, single moms and their children, so vulnerable folks here in Houston."

Emotional Well-Being

Key Issues:

- Mental health as part of overall health
- Need for more behavioral health services and providers
- Alcohol and substance abuse
- Alzheimer's and dementia



Secondary Data

Mental Health and Substance Abuse were identified as significant needs for Memorial Hermann Health System. As shown in Table 18, there are several indicators related to Mental Health & Mental Disorders with data scores greater than 1.5. In Harris County, 11.4% of the Medicare Population has Alzheimer's Disease or Dementia, which is higher than the U.S. value (9.9%). Moreover, 80% of residents in Harris County reported having 5 or more poor mental health days in the past month.

Table 18. Secondary Data Scoring Results: Mental Health & Mental Disorders

		County		County Value Compared to:					
Indicator	Name	Value	Data Score	TX Counties	TX Value	US Value	HP 2020 Target	Trend Over Time	
Alzheimer's Disease or Dementia: Medicare Population [3] (2015)	Harris	11.4 percent	1.89	2	1	3	1.5	1	
[3] Centers for Medicare	& Medicaio	Services							
Poor Mental Health: 5+ Days [4] (2016)	Harris	80.0 percent	1.53	1.5	1	1.5	1.5	2	
[4] County Health Ranking	[4] County Health Rankings								

Substance Abuse is another topic of concern in Harris County. The proportion of alcohol-impaired driving deaths is higher than the state and the U.S. There were 37.8% alcohol-impaired driving deaths in Harris County, compared to 28.3% and 29.3% in Texas and the U.S., respectively (Table 19).

Table 19. Secondary Data Scoring Results: Substance Abuse

		County			County Value Compared to:					
			Data	тх	TX	US	HP	Trend		
Indicator	Name	Value	Score	Counties	Value	Value	2020 Target	Over Time		
Alcohol-Impaired		37.8								
Driving Deaths [4]	Harris		2.17	3	3	3	1.5	0		
(2012-216)		percent								
[4] County Health Rankin	gs									

Primary Data

Approximately 50% of community survey respondents cited Mental Health as one of the top issues most affecting the quality of life in their community and 52% of respondents noted Substance Abuse. In interviews with key informants, Mental Health was discussed 113 times and was raised by participants 33 times as a needs or concern for the health of the community. The primary themes related to Mental Health were treating mental health as part of overall health, address behavioral health in school, need for behavioral health providers and services and older adults with Alzheimer's and dementia.



Some participants discussed a recent shift in care delivery and the continued need to address mental health as part of a person's total health similarly to how chronic disease is managed. One particularly vulnerable population that would benefit from a broader approach to treatment, inclusive of mental health, is the homeless population. Several participants brought up issues regarding a need for more behavioral health providers and services in the community.

"(...) I think there needs to be more work around funding for behavioral health but also funding for recruiting and training therapists and behavioral health specialists to address substance abuse, anxiety, depression and suicidality."

One participant observed recent increases and changes within the local population. From the participant's perspective, there should be more programs or services to address the growing need for addressing mental health in the community. Another participant suggested solutions for addressing the need for more behavioral health providers in the community such as expanding residency programs for psychiatrists and developing comprehensive telemedicine programs to provide services more efficiently.

Furthermore, participants recommended addressing behavioral health with younger populations in the schools. Schools that provide behavioral health services through telemedicine have been received well in the community and the perception is that they are effective. Some participants believe that these programs should be expanded and available across the community.

"There [are] the mental health units that have gone out into the schools. They're not school-based but that's the venue they will drive to with their mobile units. They have a big impact. They're seeing thousands of kids. They've done some telemedicine with mental health, behavioral health, with some of the high schools. From what I've heard, (...) it's been pretty effective and well received."

A challenge that health care providers identified for the medical community is adequately addressing dementia and Alzheimer's within the geriatric population.

"Dementia's a terminal illness. (...) Much more needs to be done with healthcare systems around routine screening and identification of it as an issue. (...) So, that is the first thing that needs to happen. Then there needs to be an understanding that there are things – there are medications that can be helpful to the systems of the dementia. (...) But you can affect it by addressing some of the symptoms."

Substance Abuse was discussed 55 times and was raised by participants 15 times as a need or concern for the health of the community. Multiple unique themes emerged from the key informant interviews related to Substance Abuse: funding for treatment programs, invisibility of alcoholism, overcoming stigma of seeking treatment, and emerging shifts in outreach models. Participants identified funding for programs and availability of services for those who may not be able to afford treatment out-of-pocket as issues the community is facing to address substance abuse. One participant raised alcohol abuse specifically as an issue in the community that does not get the amount of attention of other substance abuse topics but may in fact be impacting a larger proportion of the population and connected to many other health issues.



Multiple participants identified cultural stigma as a barrier for those who may benefit from seeking treatment. Stigma or fear may be unique and vary from population to population in the community.

"With substance abuse, it's culture and stigma. Nobody goes to substance abuse treatment on their own. They may not be adjudicated but someone is really, really pushing them, family member, boss. No one goes to treatment if they're not under duress."

A few participants described unique approaches to outreach and substance abuse treatment in the community that would support removing barriers for people having to take the first step on their own.

"For instance, it's pretty new, but there's an initiative that's called the Heroes Project that's looking at overdoses, so when an overdose happens, they're sending a team to the ER. So, it's got a peer support specialist, the EMP is involved – but they actually go in to the ER and they do an intervention there to try to help with linkage to treatment so that we can assist the patients."

Food as Health

Key Issues:

- Food insecurity and limited access to healthy foods
- Diabetes and heart disease linked to socioeconomic factors
- Sedentary lifestyle and driving culture

Secondary Data

The topics of Diabetes and Heart Disease & Stroke emerged as significant health needs. Heart Disease & Stroke rose to the top of the secondary data scoring results for Memorial Hermann Health System. Although Diabetes was not in the top results of the secondary data scoring, an indicator of concern for Harris County is the proportion of diabetes in the Medicare population, which, at 28.1%, is higher than the national value (26.5%) (Table 20).

Table 20.	Secondary	/ Data	Scoring	Results:	Diabetes
I doic 20.	Secondar	Dutu	JCOI III B	itcourto.	Diabetes

		County			County Value Compared to:					
Indicator	Name	Value	Data Score	TX Counties	TX Value	US Value	HP 2020 Target	Trend Over Time		
Diabetes: Medicare Population [3] (2015)	Harris	28.1 percent	1.67	2	1	2	1.5	1.5		
[3] Centers for Medicare & Medicaid Services										

As shown in Table 21, another indicator of concern is Stroke in the Medicare Population with a proportion of 5.2% in Harris County, compared to 4% in the U.S.



Table 21. Secondary Data Scoring Results: Heart Disease & Stroke

		County			County Value Compared to:				
Indicator	Name	Value	Data Score	TX Counties	TX Value	US Value	HP 2020 Target	Trend Over Time	
Heart Failure: Medicare Population [3] (2015)	Harris	16.0 percent	1.89	1	2	3	1.5	1	
Stroke: Medicare Population [3] (2015)	Harris	5.2 percent	2.61	3	3	3	1.5	2	
[3] Centers for Medicare & Medicaid Services									

Table 22 reveals food-related indicators of concern, including SNAP Certified Stores as well as Food Insecurity Rate.

Table 22. Secondary Data Scoring Results: Nutrition

	Id	County			County Value Compared to:					
Indicator	Name	Value	Data Score	TX Counties	TX Value	US Value	HP 2020 Target	Trend Over Time		
Child Food Insecurity Rate [5] (2016)	Harris	23.5 percent	1.67	1	2	3	1.5	0		
[5] Feeding America										
Fast Food Restaurant Density [17] (2014)	Harris	0.7 restaurants/ 1,000 population	1.67	2	1.5	1.5	1.5	1.5		
[17] U.S. Department of A	Agriculture	- Food Environment Atla	S							
Food Insecurity Rate [5] (2016)	Harris	16.6 percent	2.06	2	2	3	1.5	1		
[5] Feeding America										
SNAP Certified Stores [17] (2016)	Harris	0.6 stores/ 1,000 population	2.11	3	1.5	1.5	1.5	2		
[17] U.S. Department of Agriculture - Food Environment Atlas										

Primary Data

Food-related topics emerged in the community input gathered through the survey and key informant interviews. Food Insecurity, Food Programs and Food Knowledge issues were discussed over 170 times during the key informant interviews and were raised by participants 34 times in relation to barriers or challenges to achieving health in the community. The primary themes related to barriers or challenges that emerged in the interviews were access to healthy foods and affordability, knowledge gaps and limited food familiarity and program limitations.



The most common issue raised by key informant participants related to food insecurity was community members not being able to access healthy foods in their community. Multiple participants believed that in many communities, healthy food options were not available to people within a five-mile radius from their home or work. Participants described 'food deserts' as a top issue affecting health in the community and how limited access to healthy foods also was closely associated with people also being not being able to afford healthy foods.

Participants also discussed the imbalance of healthy food options for those communities with lower housing prices and in general, lower average incomes. One participant described the link between people securing affordable housing in the community, which may limit their options for access to healthy food choices.

"We have a grocery store on every corner but not every corner in the poor neighborhoods. It's been my personal experience that eating healthy is expensive. It costs more money to buy healthy fruits and vegetables and more healthy food, in general than it does to buy food that's not so healthy, that's high fat, high carb, high sugar.... It costs more money. It takes longer to prepare. When you have a mom and a dad or either and they're trying to handle two jobs, if not three. They've got kids of varying ages. The mechanics of shopping and preparing meals is probably an activity that gets let go."

Some participants had direct experience with educating the community about healthy foods and eating. These participants shared that for some community members, their knowledge of fresh fruits and vegetables is limited as well as proper food storage for foods without preservatives.

In Memorial Hermann's community survey, 67% of respondents selected Diabetes as one of the top issues most affecting the quality of life in their community. During key informant interviews, Diabetes was discussed 64 times and was raised by participants 32 times as a health need or concern in the community. For those participants who raised Diabetes as a top health issue in the community, unique themes emerged regarding how diabetes is impacting specific groups in the community and the way a sedentary lifestyle impacts diabetes. Multiple participants attributed the surge in obesity and diabetes in general in the U.S. to a shift to a more sedentary lifestyle while others specifically identified the local climate and driving culture as key factors leading to an increase in sedentary lifestyles impacting the region.

Heart Disease & Stroke was discussed 34 times during the key informant interviews and was raised by participants 16 times as a health need or concern in the community. For those participants who raised Heart Disease & Stroke as a top health issue in the community, the unique themes that emerged in the interviews were chronic disease risk related to socioeconomic status and challenges with managing heart-related conditions.

"You have so many communities that are food deserts so, of course, I think we are all at risk for things like diabetes and hypertension, obesity, stroke – but, I think in addition to that, those that are most are already marginalized. People who are low income. Low socioeconomic status. So, education, and all of those indicators are probably even more at risk for chronic diseases than someone, for example, who has access to care and insurance. So, they probably are doubly at risk."



Exercise Is Medicine

Key Issues:

- Obesity
- Walkability of communities
- Safety of outdoor spaces and places to exercise

Secondary Data

Exercise, Nutrition & Weight was the fifth highest-ranking topic in the secondary data scoring results for Memorial Hermann Health System. Although Exercise, Nutrition & Weight did not rise to the top of the secondary data scoring results for Harris County, there are indicators of concern (Table 23). In particular, an exercise-related indicator with score above 2 is: Workers Who Walk to Work.

Table 23. Secondary Data Scoring Results: Exercise , Nutrition & Weight

	lable 23. Se	County County Value Compared to:							
Indicator	Name	Value	Data Score	TX Counties	TX Value	US Value	HP 2020 Target	Trend Over Time	
Child Food Insecurity Rate [5] (2016)	Harris	23.5 percent	1.67	1	2	3	1.5	0	
[5] Feeding America									
Adults (18+ Years) Who Are Obese [10] (2016)	Harris	32.0	1.67	1.5	1	2	2	2	
Are obese [10] (2010)		percent							
[10] Texas Behavioral Risk	k Factor Su	rveillance System							
Fast Food Restaurant Density [17] (2014)	Harris	0.7 restaurants/ 1,000 population	1.67	2	1.5	1.5	1.5	1.5	
[17] U.S. Department of A	griculture	- Food Environment Atla	S						
Food Insecurity Rate [5] (2016)	Harris	16.6 percent	2.06	2	2	3	1.5	1	
[5] Feeding America									
SNAP Certified Stores [17] (2016)	Harris	0.6 stores/ 1,000 population	2.11	3	1.5	1.5	1.5	2	
[17] U.S. Department of Agriculture - Food Environment Atlas									
Workers who Walk to Work [1] (2012-2016)	Harris	1.5 percent	2.17	2	2	3	3	1.5	
[1] American Community	Survey								



Primary Data

Over 60% of Memorial Hermann's community survey respondents noted Obesity as a top issue affecting the quality of life in their community. In key informant interviews, Exercise, Nutrition & Weight was discussed almost 170 times and was raised by participants 42 times as a need or concern for achieving health in the community. The primary barriers related to Exercise, Nutrition & Weight identified by participants were walkability, access to safe outdoor spaces and programming that may not meet the needs of communities facing financial limitations.

Several participants discussed barriers to healthy lifestyle changes and described communities where sidewalks are limited or pedestrian pathways are not available. The ability for community members to make small shifts in their daily lives, such as walking regularly, may be more feasible than undertaking an exercise regimen. The limitations of pedestrian pathways and safer walking spaces prevent those in some sections of the community from making these shifts.

For individuals who may not be able to afford gym memberships nor attend classes due to work schedules, outdoor activities and fitness areas offer a free alternative. Participants felt that in many neighborhoods, these outdoor spaces are not available due to disrepair or unsafe environments.

"I think the built environment is huge, too. If you live out in a planned community, they usually have walking trails, or they have a pretty fountain area for you to walk around it. They have those little exercise things that you stop on part way around the trail and you do your little push-ups and your situps and your pull-ups (...) You go into these poorer areas and there's no sidewalks. There's no lights at night. There's a park—it's all rusted equipment."

Participants also described programs and facilities that are either limited or lacking. These programs included free exercise programs with child care options, youth sports leagues and recess in the schools and free or low-cost options for air-conditioned facilities during times of the year when the weather does not permit outdoor activities.

"In poor areas of Houston, there's just not a lot of parks. There's no little league, and there's no soccer leagues, and so, there's not a lot of recess in the schools. There's just not—the culture among the kids is just not being created around physical activity."



Non-Prioritized Significant Health Needs

The following additional significant health needs emerged from a review of the primary and secondary data. With the need to focus on the prioritized health needs described above, these topics are not specifically prioritized efforts in the 2019-2022 Implementation Strategy. However, due to the interrelationships of social determinant needs many of these areas fall, tangentially, within the prioritized health needs and will be addressed through the upstream efforts of the prioritized health needs. Additionally, many of them are addressed within ongoing programs and services. Examples of these efforts are provided below by topic area.

Older Adults and Aging

Secondary Data

The secondary data scoring results revealed the topic of Older Adults and Aging as a significant health need for Harris County. Older Adults and Aging received a topic score of 1.5 in the secondary data results for Harris County. Indicators of note included: Chronic Kidney Disease and Stroke in the Medicare Population as well as Age-Adjusted Death Rate due to Falls.

Primary Data

Key informants and stakeholders discussed Older Adults and Aging. Over 62% of participants in Memorial Hermann Health System's prioritization process cited Older Adults as one of the groups most affected by poor health outcomes. Interviews with key informants noted the growing population of older adults and needs related to specialized care, financial assistance and outreach.

"...[W]e are going to watch the literal doubling of the number of Americans over the age of 65 in the next 25 years. Every day, between now and 2030, day after day, 10,000 Americans will turn 65, so we are watching an extraordinary expansion of challenges of aging. (...) [M]ore and more Americans are going to be getting old, so caring for this massive increase in the aging population is going to be one of the great challenges I think."

Efforts

Memorial Hermann Health System includes two freestanding Rehabilitation Hospitals (TIRR and Katy) as well as a senior living facility (University Place), featuring independent living, personal assistance services, and a separate, but attached, nursing center.

Additional community outreach includes health education on: Alzheimer's disease, Discounted Diabetes Education, Education/outreach for Seniors, Injury Prevention, Fall Prevention, and support groups for various populations, including: Alzheimer's, Amputees, Cardiac patients, Chronic disease, Diabetics, Grief, Parkinson's disease, Stroke, Survivorship, and more.

Cancers

Secondary Data

Although Cancer was not one of the top ten topics in the secondary data scoring results for Harris County, there are certain indicators to note. Several indicators are of concern including: Cervical Cancer Incidence Rate and Age-Adjusted Death Rate due to Breast Cancer (both with



indicator scores above 2), Cancer in the Medicare Population, Colon Cancer Screening, and Age-Adjusted Death Rate due to Prostate Cancer.

Primary Data

In Memorial Hermann's community survey, over one third of respondents noted Cancer as a top issue affecting the quality of life in their community. Interviews with key informants revealed the importance of making cancer screening services and specialty care available and accessible (e.g., telehealth, mobile mammography).

Efforts

As leading providers of cancer treatment in Houston, Memorial Hermann Cancer Centers are committed to cancer treatment, prevention, and research. Their broad geographical coverage makes cancer treatment extremely accessible and convenient to where patients live or work. All eight Memorial Hermann Cancer Centers are approved by the American College of Surgeons Commission on Cancer (ACoS CoC); only 25 percent of hospitals across the country have received this special recognition. With guaranteed access to comprehensive care, collaborative team approach for coordinating the best available treatment options, state-of-the-art equipment and services, education and support, and lifelong patient follow-up through the Cancer Registry, patients are able to access a full menu of therapies and treatment options.

Additional outreach includes education and support groups for cancer patients: Art, Self-guided Art Therapy, Lymphedema, Brest Cancer, Oncology Nutrition Therapy, Stress Relief, Look Good Feel Better, Yoga, Meditation, and Healthy Eating Advices.

Education

Secondary Data

Education received a topic score of 1.56 in the secondary data results for Harris County. There are several education-related indicators to consider: Infants Born to Mothers with Less Than 12 Years of Education (with a value of 27.5% in Harris County, compared to 21.3% in Texas and 15.9% in the U.S.), Student-to-Teacher Ratio, High School Drop Out Rate, and People 25+ with a High School Degree or Higher.

Primary Data

During key informant interviews, the topic of Education came up frequently and in relation to different focus areas and target audiences, including children, general community members as well as providers. The link between individuals' level of education and quality of life was emphasized. Key informants recommended finding opportunities to expand the availability of education (related to health and non-health topics) as well as integrating health education into existing activities in both clinical and non-clinical settings, such as schools and churches. Opportunities were also pointed out to educate healthcare providers (and provide continuing education) on available community linkages and resources and on how to initiate conversations with patients regarding different health topics.



"We want to go into different groups and educate them on what they should be doing or shouldn't be doing. (...) I think education is a huge component but we've got to figure out how to integrate that. The education, without the integration into somebody's lifestyle, doesn't do them any good."

Efforts

Memorial Hermann operates ten Health Centers for Schools, established in 1996, offering access to primary medical, dental and mental health services to underserved children at 82 schools in the Greater Houston Area. Research shows that school-based health centers increase educational success by providing medical and mental health care that allows students to stay in school and learn. The primary goal of the program is to keep children healthy and feeling well so that they stay in school and can perform well academically, creating a foundation for a brighter future. By providing improved access to health care to at-risk children across the region, Memorial Hermann has demonstrated success in creating healthier outcomes for kids, including improvements in their physical health, their mental wellbeing, and even their attendance rate at school.

Transportation

Secondary Data

Transportation rose to the top of the secondary data scoring results for Harris County, with a topic score of 1.82. Indicators of concern include: Solo Drivers with a Long Commute, Mean Travel Time to Work, and Workers who Walk to Work. Furthermore, there exist high disparities for a few of these indicators.

Primary Data

Participants raised the topic of Transportation 59 times in relation to barriers or challenges to achieving health in the community – more than any other topic. Key informants repeatedly noted that the Houston region has significant transportation issues (including availability, accessibility) that impact community members' ability to access health programs and services. In addition to limited options for public transportation, travel cost and time were brought up. Moreover, for certain populations, like older adults or people with disabilities, public transportation is not a feasible option.

"This remarkable spread-out city, the size of Massachusetts, is the Greater Houston Metropolitan Area. (...) This is not a city and a suburb anymore, it's a metropolitan region with eight to ten centers of activity that are larger than downtown San Diego, spread out over this massive area, but getting from one place to another is an increasing challenge. Poverty also means inadequate transportation, we have no really good transit system because it's almost impossible to develop a good transit system for a city so lacking in density and so spread out as Houston is. We haven't solved that problem, and a lot of the healthcare issues come because people [are] without a car trying to get to a hospital, or to healthcare..."

Efforts

Memorial Hermann provides bus and taxi tokens as required for discharge and continuity of care needs.



One Memorial Hermann strategic effort to not only provide the right care at the right time in the right place, but also provide the opportunity to access help/care via the telephone is the Memorial Hermann Nurse Health Line. Established in 2014, the Nurse Health Line is a free telephone service for Greater Houston residents who are experiencing a health concern and are unsure of what to do or where to go. Experienced, bilingual nurses use their training and expertise to conduct assessments by phone, and are available to answer calls 24 hours a day, seven day a week for any resident living in Harris or surrounding counties. They help callers decide when and where to go for medical care and assist with social service referrals and transportation needs.

Children's Health

Secondary Data

Children's Health received a topic score of 1.52 in Harris County. Particular indicators to note include: Children with Health Insurance, Child Food Insecurity Rate, and Children with Low Access to a Grocery Store. Close to 10% of children in Harris County do not have health insurance.

Primary Data

When discussing Children's Health, key informants pointed out specific issues such as childhood obesity, access to services and being uninsured. Some participants advised efforts to engage children, families and communities more comprehensively.

"Texas ranks very low in dollars spent on health for children. We rank low in our ranking, generally, in children's health. We're not putting enough money and resources into it. I think we need to shift our attention and (...) give more attention to children's health and how important it is for early childhood development and for brain development and ongoing health in the rest of their lives. I would say put that as a priority. Put children's health as a priority. Not just saying the early years, not just saying zero to five but also throughout early adolescence, pre-adolescence, early adolescence and into the teens."

Efforts

Children's Memorial Hermann Hospital, licensed under Memorial Hermann Texas Medical Center, was founded in 1986 and is the primary teaching hospital for the pediatric and obstetrics/gynecology programs at The University of Texas Medical School at Houston. Children's Memorial Hermann offers care in more than thirty pediatric and women's related specialties including the latest advances in maternal-fetal medicine and neonatal critical care services, and renowned programs in pediatric trauma, neurosciences, pulmonology and cardiac care. More than 37,000 children come to Children's Memorial Hermann Hospital each year. In addition to Memorial Hermann's school-based health efforts described above, Memorial Hermann is an on-going financial collaborator with Children at Risk, a 501 non-profit organization that drives change for children through research, education, and influencing public policy.



Economy

Secondary Data

With a topic score of 1.55, Economy was one of the top ten topics in the secondary data scoring results for Harris County. In particular, eight economic indicators had scores above 2: Homeownership, Severe Housing Problems, Students Eligible for the Free Lunch Program, Median Monthly Owner Costs for Households without a Mortgage, SNAP Certified Stores, Median Household Gross Rent, Families Living Below Poverty Level, and Food Insecurity Rate. Eight additional indicators received scores between 1.5 and 2.

Primary Data

Key informants discussed food insecurity and food deserts as factors related to poor health outcomes. They pointed out that, although individuals might understand that eating healthy foods is recommended, they may not have access to grocery stores or be able to afford healthier food options. Key informants noted the importance of addressing socioeconomic barriers to improve health and wellbeing.

"(...) That's a matter of money. You can educate [a] woman all day long, but if she's got a couple of kids to feed and she can feed them all for seven dollars as opposed to 25, she's going to go to McDonald's."

Efforts

It's a daunting task in a region like Greater Houston, which has an estimated 7 million people and one of the highest rates of uninsured and underinsured in the country. But Memorial Hermann believes that we can ONLY impact the health of our community, and the health of individuals, by focusing on the multiple determinants of health that play the greatest role in influencing a person's overall health and wellbeing.



Other Findings

Critical components in assessing the needs of a community are identifying barriers and disparities in health care. The identification of barriers and disparities helps inform and focus strategies for addressing prioritized health needs. The following section outlines barriers across Memorial Hermann Health System and disparities as they pertain to MHGH's service area.

Barriers to Care

Community input revealed a wide range of barriers to care and wellbeing. As discussed in the previous section, transportation was the most frequently cited barrier in the community, followed by other barriers such as access to health services, healthy food and exercise options, low income, and food insecurity. Overall, the secondary and primary data confirmed that socioeconomic factors impact community members' ability to achieve good health.

"Many things come back to poverty and lack of disposable income."

Key informants described the influence of social determinants of health (including income, poverty, language, education, employment) on health outcomes. Participants discussed the importance of addressing social and economic factors to get at the root causes of poor health and wellbeing.

"I think you have to understand that a lot of folks work from paycheck to paycheck, so if they actually end up at one of these medical centers and they require a thirty dollar copay or ten dollars or fifteen dollars, then they're not going to have it. So, they're going to walk away until they do have that money and that could be months later. So, if they are sick, they're just going to become sicker. So, that's one of the big barriers."

Disparities

Significant community health disparities are assessed in both the primary and secondary data collection processes. Table 24 identifies the number of secondary data health indicators with a health disparity for MHGH's service area. See Appendix B for the specific indicators with significant disparities.

Table 24. Number of Health Disparities Identified in Secondary Data Analysis

Harris County
Black or African American (13)
White (8)
Hispanic or Latino (8)
Other Race (7)
American Indian or Alaska Native (6)
Male (10)
Female (3)
<6 years of age (2)
25-44 years of age (2)
45-64 years of age (2)
65+ years of age (2)



Geographic disparities were identified using the SocioNeeds Index. As shown earlier in Table 13, the majority of zip codes within MHGH's service area (including the top zip codes for inpatient discharges, zip codes 77088 and 77022) have SocioNeeds Index greater than 95, potentially indicating poorer health outcomes for residents in those areas.



Conclusion

The Community Health Needs Assessment for MHGH utilized a comprehensive set of secondary data indicators to measure the health and quality of life needs for MHGH's service area. Furthermore, this assessment was informed by input from knowledgeable and diverse individuals representing the broad interests of the community. Memorial Hermann's system-wide prioritization process resulted in four focus areas or pillars: Access to Healthcare, Emotional Well-Being, Food as Health, and Exercise Is Medicine. MHGH will review these priorities more closely during the Implementation Strategy development process and design a plan for addressing these pillars moving forward.

In addition, MHGH invites your feedback on this CHNA report to help inform the next Community Health Needs Assessment process. If you have any feedback or remarks, please send them to: Deborah.Ganelin@memorialhermann.org.



Appendix

Appendix A: Evaluation Since Prior CHNA

Appendix B. Secondary Data Methodology

Secondary Data Sources

Secondary Data Scoring

Data Scoring Results

Appendix C. Primary Data Methodology

Community Input Participants

Key Informant Interview Questionnaire (Episcopal Health Foundation)

Key Informant Interview Questionnaire (Conduent Healthy Communities Institute)

Community Survey (English)

Community Survey (Spanish)

Appendix D. Prioritization Tool

Prioritization Survey

Appendix E. Community Resources



Appendix A. MH Greater Heights Impact Report

Evaluation Since Prior CHNA

Priority 1: Healthy Living

Early Detection and Son Detective 1.1: Increased	reening se awareness and provide early detection screenings for our	community			
Outcome Indicators:		Annual Baseline	Year 1	Year 2	FY 2020 Targe
Number of screening	gs provided	Establish Baseline	600	700	5% > Baseline
Number of education	n/support group events hosted or participated in	61/year	40	35	75/year
Strategies:			Year 1 Notes	Year 2 Notes	Timeline: Year 1,2,3
1.1.1: Conduct free screenings (cancer, HIV, Hepatitis C, Vascular (screening for blocked arteries diabetes, etc.)		arteries diabetes, etc.)			1, 2, 3
1.1.2: Conduct supp	ort groups on diabetes, cancer, wound care, amputation, COPD, and	stroke (See 1.5.1)			1, 2, 3
1.1.3: Conduct Lune	h and Learns for employers, organizations and community members	(See 1.3.5)			1, 2, 3
1.1.4: Provide infor 1.3.5)	mation on services available and conduct education sessions at healt	h fairs (See 1.2.3 and			1, 2, 3
	 Monitoring/Evaluation Approach: Counts and data assessed and entered in a database Quarterly Community Benefit Steering Committee Potential Partners: Community organizations that work with at-risk point 	Review		net resources	

Obesity Prevention Objective 1.2: Educate the community to live healthier lifestyles through nutrition and exercise					
Outcome Indicators: Annual Bas		Year 1	Year 2	FY 2020 Target	
Pounds of produce distributed to community partners via community garde	n Establish Baseline Year 1	500 lbs	500	5% > Baseline	
 Number of times co-op distributes food at facility 	Establish Baseline Year 1	12	12	Monthly	
Number educational events connected with nutrition and exercise	5	5	8	10	
Strategies:		Year 1 Notes	Year 2 Notes	Timeline: Year 1,2,3	
1.2.1: Provide financial support and coordinate volunteers to establish a community garden with a lower income neighborhood (See 1.3.3)				1, 2, 3	
1.2.2: Establish a co-op for fresh fruits and vegetables at the hospital for st 1.3.4)	aff and community members (See			1, 2, 3	
1.2.3: Host educational sessions about nutrition and exercise (See 1.1.4)				1, 2, 3	
Monitoring/Evaluation Approach: • Weighing pounds of food donated/di • Amount of time co-op pick-up is avail • Count of education events/participar • Quarterly review by Community Bene Potential Partners: • Diabetes organizations • Local schools, churches, civic organizations • Local farmer's market	able at hospital ts that have nutrition focus aggregated fit Steering Committee	and entered in aft	er each event		

Access to Healthy Food Objective 1.3: Provide education of	n healthy food options and healthier food at	a lower cost for our comm	unity members		
Outcome Indicators:		Annual Baseline	Year 1	Year 2	FY 2020 Target
program	food insecurity via the MH ER Navigation	2,162	3581	3414	2,162
 Number of CHW referrals to community program 	inity food pantries via the MH ER Navigation	709	1951	1827	709
 Number of supported community e Navigation program 	vents hosted by local partners via the MH ER	0	1	12	2
Establishment of community garden Not Implemented		Identified	Supporting Garden	Implemente	
Pounds of produce distributed to community partners Establish Baseline Year 1		Establish Baseline Year 1	500 lbs	500 lbs	5% > Baselin
Strategies:		Year 1 Notes	Year 2 Notes	Timeline: Year 1,2,3	
1.3.1 Continue to participate in the insecurity and referred to foo			1, 2, 3		
1.3.2: Collect food to support food pantries or special events hosted by community partners					1,2,3
neighborhood (See 1.2.1)	coordinate volunteers to establish a community g				1,2,3
1.3.4: Establish a co-op for fresh fru 1.2.2)	its and vegetables at the hospital for staff and com	nmunity members (See			1,2,3
	Ithy portions and healthy food choices to employer Ith fairs and Lunch and Learns (See strategies unde	_			1,2,3
•	Community Garden Workplan Milestones Co-op distribution frequency and participants Count of educational events/participants Patient activity documented and reported within tential Partners: Local schools, churches, civic organizations, HOA Local farmer's market Ministry Assistance of the New Northwest Alliand Wesley Community Center LINC's Greenspoint Pantry Comunidad de Gracia MH Community Benefit Corporation	s and employers	onic record system	1	

Time for/Safety During Physical Activity Objective 1.4: Encourage healthy lifestyles through safe exercise practices						
Outcome Indicators:	Annual Baseline	Year 1	Year 2	FY 2020 Target		
Number of students reached in coordination with free physicals	102/year	250	300	150		
Partner with local organizations to create safe recreational areas O locations		2	0	3 locations		
Strategies:		Year 1 Notes	Year 2 Notes	Timeline: Year 1,2,3		
1.4.1: Provide financial support to local Little League to support space for fields.				1, 2, 3		
1.4.2: Provide free physical examinations for the area schools (i.e., Waltrip and other h	high schools)			1,2,3		
1.4.3: Provide financial support for the revitalization of Little Thicket Park, Woodlawn	Park, and Shady Acres Park	Provided Financial support for B- Cycle Program at Woodlawn Park		2		
Monitoring/Evaluation Approach: • Roster of student physicals provided • Dollars invested in revitalizing parks Potential Partners: • Physicians • Local schools, organizations and employers • TIRZ 5 • Sports associations						

Outcome Indicators:		Annual Baseline	Year 1	Year 2	FY 2020 Targe
Number of types of chronic disease support groups (Diabetes, COPD)		4	5	5	6
HIV Screenings in ER 561/ye		561/year	901	1,135	600/year
tratogias		Year 1 Notes	Year 2 Notes	Timeline:	
Strategies:					Year 1,2,3
1.5.1: Maintain cu CHF) (See 1	rrent support groups and establish new chronic disease suppor .1.2)	t groups (e.g., diabetes, COPD,	X reference 1.1.2	X reference 1.1.2	1,2,3
1.5.2: Conduct HI	screenings in the ER through the CDC grant				1,2,3
	Monitoring/Evaluation Approach:		1	•	1
	 Count of support group/participants 				
	 Count of HIV screenings/ % tested positive 				
	Potential Partners:				
	 Local schools 				
	• Churches				
	Civic organizations				
	• HOAs				
	Employers				
	 Vendors with chronic disease education ma 	terial			

Priority 2: Access to Health Care

Priority 2: Health Care Access							
Goal 2: Help the patient get to the right location, at the right cost, at the right time.							
Availability of Primary Care and Specialty Providers Objective 2.1: Provide multiple options and avenues for patients to access primary and specialty providers							
Outcome Indicators:	Annual Baseline	Year 1	Year 2	FY 2020 Target			
Number of visits at Greater Heights affiliated MH-Urgent Care	1,209 (March – July)	5,883	10,869	9,000 / year			
Number of visits at Neighborhood Health Center Northwest	6,829	6629	6850	7,000			
Number of ER referrals to the Neighborhood Health Center Northwest	330	601	627	345			
Number of Memorial Hermann Medical Group PCPs & NPs	4	5	5	6			
Number of telemedicine consultations	187/year	216	149	187/year			
Strategies:		Year 1 Notes	Year 2 Notes	Timeline: Year 1,2,3			
2.1.1: Recruit Primary and Specialty Care Providers to meet	community need			1,2,3			
2.1.2: Establish a second urgent care center in the Greater H				1,2,3			
2.1.3: Provision of 24/7 neurological consultations to Greate through the use of telemedicine technologies such as time video conferencing providing patients with contitracked process, and the most effective drug therapie	digital imaging and real- nuity in treatment, a fast-			1,2,3			
Mo	nitoring/Evaluation App	roach:					
	 Count of MHMG PCPs and NPs – Size of Panels Track volumes of under/uninsured treated at Urgent Care, Neighborhood Health Center and CCC 						
Pot	Potential Partners: Other MHHS entities Local schools, churches, civic organizations, HOAs and employers						

Health Insurance Coverage and Costs

Objective 2.2: Provide resources to increase awareness, education, and health insurance coverage and reduce costs for uninsured and underinsured populations

Outcom	e Indicators:	Annual Baseline	Year 1	Year 2	FY 2020 Target
Hea	nber of Class D Prescriptions to the Hogg School- Based Ith Center in support of primary medical care provided to sured children and teens at no cost	1,709	165	626	1,709
• Neig	shborhood Health Center GH vouchers issued	330	666	1222	345
• Nei	Neighborhood Health Center GH vouchers used 228		376	627 seen 238 not seen (865 total)	240
	f patients Cardon is able to help assist to get medical rance coverage	21%	21.82%	21.35%	23%
Strategi			Year 1 Notes	Year 2 Notes	Timeline: Year 1,2,3
2.2.1:	Provide Class D Prescriptions to the Hogg School Based Hoprimary medical care provided to uninsured children and			1, 2, 3	
2.2.2:					1,2,3
 2.2.3: Contract with Cardon to consult on all patients who are uninsured or underinsured to connect them with available payor resources Cardon is a third-party eligibility vendor (paid by MHSL) to assist patients with the application process for Medicaid, County Indigent, Affordable Care Act Insurance Exchange, and other third-party payors. 				1,2,3	
2.2.4	Contract with physicians to provide care for uninsured pati	ents			1,2,3
	• Co	oring/Evaluation Approach: bunt of vouchers issued and used bunt of patients consulted/conver ial Partners:	·	basis	
	• Ne • Lo • Ha • Ca	eighborhood Health Center Great cal schools, churches, civic organ arris Health (Community Safety No ardon emorial Hermann Community Be	izations, HOAs and employer et)	s	

Transportation Objective 2.3: Provide patients in need with just-in-time transportation resources							
Outcome Indicators:		Annual Baseline	Year 1	Year 2	FY 2020 Target		
Patient Transportation Fees		\$48,000/year	\$355,076	\$297,797	\$50,000 year		
Strategies:			Year 1 Notes	Year 2 Notes	Timeline: Year 1,2,3		
2.3.1: Provide bus passes, cab vouche transportation to and from app		eelchair vans for free			1,2,3		
		Monitoring/Evaluation Approach: • Number of vouchers or dollars contributed to subsidized transportation monthly					
	• Metr	Potential Partners: • Metro, taxi, bus system • Partner organizations who provide free or reduced cost for transportation					

	Year 1	Year 2	FY 2020 Targe
ealth 28,581	28624	29615	28,581
2,332	3387	3300	2,332
4,500	8498	9332	4,500
es 5,671	8810	7445	5,671
302	470	332	302
4	4	4	5
61/year	6961	X Ref. 1.1	75/year
	Year 1 Notes	Year 2 Notes	Timeline: Year 1,2,3
rity can call to discuss their health riate setting for care, and get ogram in which patients are referred			1, 2, 3
ncluding oncology, joint, bariatric,			1,2,3
iealth fairs, physicals and utilize the ients with the necessary tools to ider Objective 1.1)			1,2,3
			em
	4,500 s 5,671 302 4 61/year ine that community members ty can call to discuss their health riate setting for care, and get ogram in which patients are referred including oncology, joint, bariatric, ealth fairs, physicals and utilize the ients with the necessary tools to der Objective 1.1) Ionitoring/Evaluation Approach: Patient activity documented and re Patient calls documented within th	4,500 8498 s 5,671 8810 302 470 4 4 61/year 6961 Year 1 Notes The that community members ty can call to discuss their health riate setting for care, and get Ogram in which patients are referred Including oncology, joint, bariatric, ealth fairs, physicals and utilize the ients with the necessary tools to der Objective 1.1) Ionitoring/Evaluation Approach: Patient activity documented and reported within the ER Navigati Patient calls documented within the Nurse Health Line electronic	s 5,671 8810 7445 302 470 332 4 4 4 4 61/year 6961 X Ref. 1.1 Year 1 Notes Year 2 Notes The that community members ty can call to discuss their health riate setting for care, and get Ogram in which patients are referred Including oncology, joint, bariatric, ealth fairs, physicals and utilize the lients with the necessary tools to der Objective 1.1) Ionitoring/Evaluation Approach: Patient activity documented and reported within the ER Navigation electronic record system Patient calls documented within the Nurse Health Line electronic record system

Priority 3: Behavioral Health

The following tables provide strategies and outcome indicators that reflect an MHHS system-wide approach to Behavioral Health. Data is not specific to MH Greater Heights Hospital but to the community at large with the exception of reduction in ER encounters that result in a psychiatric inpatient stay through linkages with a network of behavioral partners.

Priority 3: Behavioral Health

Goal 3: Ensure that all community members who are experiencing a mental health crisis have access to appropriate psychiatric specialists at the time of their crisis, are redirected away from the ER, are linked to a permanent, community based mental health provider, and have the necessary knowledge to navigate the system, regardless of their ability to pay.

Objective 3.1: Create nontraditional access points around the community (crisis/ambulatory, acute care, and community-based chronic care management), and link those who need services to permanent providers and resources in the community

Outcome Indicators:	Annual Baseline	Year 1	Year 2	FY 2020 Target
Decrease in the number of ER encounters that result in psychiatric inpatient stay	1,146	1,213	1,135	1,089 5% reduction of baseline
 Decrease in number of ER encounters that result in psychiatric inpatient stay at Greater Heights 	114	121	114	108
Number of Memorial Hermann Crisis Clinic total visits	5,400	5,590	5,154	5% over baseline
Number of Psychiatric Response Care Management total visits	1,200	1,103	1,259	5% over baseline
Strategies:		Year 1 Notes	Year 2 Notes	Timeline: Year 1,2,3
3.1.1: Provide mental health assessment, care, and linkage to service care setting, 24x7 to services at Greater Heights	ces in an acute	An uptick in acute care volume over the past fiscal year has contributed to a higher number of psychiatric transfers overall.	An increase in acute care volume and number of acute care sites over the past fiscal year have contributed to a higher number of psychiatric transfers overall.	1,2,3

Priority 3 Goal 3:	Ensure that all community members who are experiencing at the time of their crisis, are redirected away from the ER, and have the necessary knowledge to navigate the system,	are linked to a permaner	nt, community based men	
3.1.2:	Create nontraditional community access to psychiatric providers for individuals experiencing a mental health crisis. Clinical Social Workers connect the target population to on-going behavioral health care		Recruiting mental health providers willing to commit to a nontraditional schedule remains a challenge. Continuing this urgent care model of treatment remains a priority, due to limited mental health treatment access in the community	1,2,3
3.1.3:	Engage individuals with a chronic mental illness and work to maintain engagement with treatment and stability in the community via enrollment in community-based mental health case management program	Staffing issues impeded year one target. Identifying appropriately licensed clinicians willing to consider a career that is community based with the requirement of making home visits and working non –traditional hours is an ongoing challenge.	Case Managers partner with their clients to identify specific recovery goals and utilize evidence- based practices to facilitate client achievement. We continue to partner with community providers to address the mental health needs of the Greater Houston Community.	1,2,3
	Monitoring/Evaluation Ap	•	le conservation A	
	Potential Partners: System acute care camp Memorial Hermann Me		y, montniy)	
	Network of public and p	•		

Objective 3.2: Reduce stigma in order to promote mental well- overall well-being		- , and a control	part or priyo	
Outcome Indicators:	Annual Baseline	Year 1	Year 2	FY 2020 Target
 Number of presentations/educational sessions for healthcare professionals within MHHS 	50 sessions per year	63	71	5% increase ove
Number of presentations/educational sessions for corporations	5	7	8	5% over baselin
 Number of trainings at GH ER Nursing Trainings (time includes training material development and implementation) 	5 trainings (8 hours)	0	0	5 trainings (8 hours)
GH Med Floor Nursing debriefing	1 training (3 hours)	0	0	1 training (3 hours)
 GH Management and communication with disruptive patients (time includes training material development and implementation) 	1 training (4 hours)	0	0 1 trainir hour	
Training on Acute Care Concepts - system nurse resident program	15 trainings (45 hours total/3 hours each)*	18	9	15 trainings (45 hours total/ hours each)*
Training on CMO Roundtable - system-wide	1 training (2 hours)*	0	4	1 training (2 hours)*
*Total time includes training material development and implementation			531.6	
Strategies:	Year 1 Notes	Year 2 Notes	Timeline: Year 1,2,3	
3.2.1: Provide mental health education sessions within the MH he physicians			1,2,3	
3.2.2: Work with employer solutions group to provide education a on MH topics (stress, PTSD)	nd training with corporations			1,2,3
· · · · · · · · · · · · · · · · · · ·	g/Evaluation Approach: sts for presentations and sessio	ns tracked via calendar/excel		
• System	Partners: In acute care campuses In Marketing and Communication In yer solutions group	ns		

Outcome Indicators:		Ann	ual Baseline	Year 1	Year 2	FY 2020 Target		
Number of Memorial Hermann Crisis Clinic follow-ups post discharge with clinic patients			st	7,716	6,431	5,154	5% over baseline	
Psychiatric Response Case Management reduction in system ER utilization			em ER	54.4%	53.0%	50%	5% increase over baseline	
Strategies:				Year 1 Notes	Year 2 Notes	Timeline:		
							Year 1,2,3	
3.3.1:	1: MHCC follow-up with discharged patients and their families to assess well-being and connect them to community resources						1,2,3	
3.3.2: Psychiatric Response Case Management Program utilizes evide interventions (motivational interviewing, MH First Aid, CAMS, e utilization for program enrollees				-			1,2,3	
		Mo	onitoring/Evaluatio	n Approach:				
		•	Social work logs (E	xcel spreadsheet)				
		Po	tential Partners:					
			System acute care	campuses				
• Commu				nity-based clinical providers				
		•	Network of public	k of public and private providers				

Appendix B. Secondary Data Methodology

Secondary Data Sources

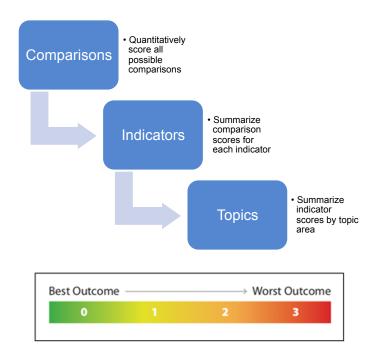
The main source for the secondary data, or data that have been previously collected, is the community indicator database maintained by Conduent Healthy Communities Institute. The following is a list of both local and national sources used in Memorial Hermann Greater Heights' Community Health Needs Assessment.

Harris County

- 1. American Community Survey
- 2. American Lung Association
- 3. Centers for Medicare & Medicaid Services
- 4. County Health Rankings
- 5. Feeding America
- 6. Institute for Health Metrics and Evaluation
- 7. National Cancer Institute
- 8. National Center for Education Statistics
- 9. Small Area Health Insurance Estimates
- 10. Texas Behavioral Risk Factor Surveillance System
- 11. Texas Department of Family and Protective Services
- 12. Texas Department of State Health Services
- 13. Texas Education Agency
- 14. Texas Secretary of State
- 15. U.S. Bureau of Labor Statistics
- 16. U.S. Census County Business Patterns
- 17. U.S. Department of Agriculture Food Environment Atlas
- 18. U.S. Environmental Protection Agency

Secondary Data Scoring

Data scoring is done in three stages:



For each indicator, each county in Memorial Hermann Greater Heights' service area is assigned a score based on its comparison to other communities, whether health targets have been met, and the trend of the indicator value over time. These comparison scores range from 0-3, where 0 indicates the best outcome and 3 the worst. Availability of each type of comparison varies by indicator and is dependent upon the data source, comparability with data collected for other communities, and changes in methodology over time.

Indicators are categorized into topic areas and each topic area receives a score. Indicators may be categorized in more than one topic area. Topic scores are determined by the comparisons of all indicators within the topic.

Comparison to a Distribution of County Values: Within State and Nation

For ease of interpretation and analysis, indicator data on the Community Dashboard is visually represented as a green-yellow-red gauge showing how the community is faring against a distribution of counties in the state or the United States. A distribution is created by taking all county values within the state or nation, ordering them from low to high, and dividing them into three groups (green, yellow, red) based on their order. Indicators with the poorest comparisons ("in the red") scored high, whereas indicators with good comparisons ("in the green") scored low.

Comparison to Values: State, National, and Targets

Each county is compared to the state value, the national value, and target values. Target values include the nation-wide Healthy People 2020 (HP2020) goals. Healthy People 2020 goals are national objectives for improving the health of the nation set by the Department of Health and Human Services' (DHHS) Healthy People Initiative. For all value comparisons, the scoring depends on whether the county value is better or worse than the comparison value, as well as how close the county value is to the target value.

Trend Over Time

The Mann-Kendall statistical test for trend was used to assess whether the county value is increasing over time or decreasing over time, and whether the trend is statistically significant. The trend comparison uses the four most recent comparable values for the county, and statistical significance is determined at the 90% confidence level. For each indicator with values available for four time periods, scoring was determined by direction of the trend and statistical significance.

Missing Values

Indicator scores are calculated using the comparison scores, availability of which depends on the data source. If the comparison type is possible for an adequate proportion of indicators on the community dashboard, it will be included in the indicator score. After exclusion of comparison types with inadequate availability, all missing comparisons are substituted with a neutral score for the purposes of calculating the indicator's weighted average. When information is unknown due to lack of comparable data, the neutral value assumes that the missing comparison score is neither good nor bad.

Indicator Scoring

Indicator scores are calculated as a weighted average of all included comparison scores. If none of the included comparison types are possible for an indicator, no score is calculated and the indicator is excluded from the data scoring results.

Topic Scoring

Indicator scores are averaged by topic area to calculate topic scores. Each indicator may be included in up to three topic areas if appropriate. Resulting scores range from 0-3, where a higher score indicates a greater level of need as evidenced by the data. A topic score is only calculated if it includes at least three indicators.

Data Scoring Results

The following tables list each indicator by topic area for Memorial Hermann Greater Heights' service area (Harris County). Secondary data for this report are up to date as of November 2, 2018.

Harris County

SCORE	ACCECC TO HEALTH CERVICES	UNITS	HARRIS	1102020	TEXAS	11.6	MEASUREMENT PERIOD	LUCII DICDADITV*	Course
SCORE	ACCESS TO HEALTH SERVICES Adults Unable to Afford to See a	UNITS	COUNTY	HP2020	TEXAS	U.S.	PERIOD	HIGH DISPARITY*	Source
2.00	Doctor	percent	22.1		18.3	12.1	2015		10
		регсепс				12.1			
1.81	Children with Health Insurance	percent	89.4	100	90.3		2016		9
	Adults with Health Insurance: 18-								
1.75	64	percent	74.7	100	77.4		2016		9
1.75	Persons with Health Insurance	percent	79.3	100	81.4		2016		9
		providers/100,000							
1.61	Primary Care Provider Rate	population	57.2		59.9	75.5	2015		4
		providers/100,000							
1.44	Mental Health Provider Rate	population	103.7		98.8	214.3	2017		4
	Non-Physician Primary Care	providers/100,000							
1.00	Provider Rate	population	72.2		66.8	81.2	2017		4
		dentists/ 100,000							
0.50	Dentist Rate	population	66.3		55.9	67.4	2016		4
			HARRIS				MEASUREMENT		
SCORE	CANCER	UNITS	COUNTY	HP2020	TEXAS	U.S.	PERIOD	HIGH DISPARITY*	Source
JCOKE	CANCER	cases/ 100,000	COONTI	111 2020	ILAAS	0.5.	FEMOD	HIGH DISPARIT	Jource
2.53	Cervical Cancer Incidence Rate	females	11	7.3	9.2	7.5	2011-2015		7
	Certical Carreer metacrice mate	jemares		7.0	3.2	7.0	1011 1010		
	Age-Adjusted Death Rate due to	deaths/ 100,000							
2.25	Breast Cancer	females	23.2	20.7	20.2	20.9	2011-2015	Black	7
1.94	Cancer: Medicare Population	percent	7.6		7.1	7.8	2015		3
4.50	Colon Cancer Screening:		F7.6		C2 2		2016		10
1.58	Sigmoidoscopy or Colonoscopy	percent	57.6		62.3	1	2016		10
	Age-Adjusted Death Rate due to	deaths/ 100,000							
1.53	Prostate Cancer	males	19.8	21.8	18.1	19.5	2011-2015		7
		cases/ 100,000							
1 20	Brazet Cancar Incidanca Rata	famales	112 7		111 7	12/17	2011_2015		7

		cases/ 100,000							
1.33	Prostate Cancer Incidence Rate	males	102.5		95.4	109	2011-2015		7
1.22	Age-Adjusted Death Rate due to Colorectal Cancer	deaths/ 100,000 population	14.6	14.5	14.4	14.5	2011-2015		7
1.00	All Cancer Incidence Rate	cases/ 100,000 population	402.6		401.3	441.2	2011-2015		7
0.94	Age-Adjusted Death Rate due to Cancer	deaths/ 100,000 population	157.8	161.4	156.4	163.5	2011-2015	Black, Male	7
0.94	Colorectal Cancer Incidence Rate	cases/ 100,000 population	38.8	39.9	38.1	39.2	2011-2015		7
0.89	Oral Cavity and Pharynx Cancer Incidence Rate	cases/ 100,000 population	10.9		10.9	11.6	2011-2015		7
0.50	Lung and Bronchus Cancer Incidence Rate	cases/ 100,000 population	50.9		53.1	60.2	2011-2015		7
0.33	Age-Adjusted Death Rate due to Lung Cancer	deaths/ 100,000 population	37.5	45.5	39	43.4	2011-2015		7
SCORE	CHILDREN'S HEALTH	UNITS	HARRIS COUNTY	HP2020	TEXAS	U.S.	MEASUREMENT PERIOD	HIGH DISPARITY*	Source
1.81	Children with Health Insurance	percent	89.4	100	90.3		2016		9
1.67	Child Food Insecurity Rate	percent	23.5		23	17.9	2016		5
1.50	Children with Low Access to a Grocery Store	percent	5.4				2015		17
1.11	Substantiated Child Abuse Rate	cases/ 1,000 children	5.4		8.5		2017		11
SCORE	DIABETES	UNITS	HARRIS COUNTY	HP2020	TEXAS	U.S.	MEASUREMENT PERIOD	HIGH DISPARITY*	Source
1.67	Diabetes: Medicare Population	percent	28.1		28.2	26.5	2015		3
1.44	Adults with Diabetes	percent	10.2		11.2	10.5	2016		10
0.92	Age-Adjusted Death Rate due to Diabetes	deaths/ 100,000 population	20.2		21.7	21.2	2010-2014	Black, Hispanic, Male	12

SCORE	ECONOMY	UNITS	HARRIS COUNTY	HP2020	TEXAS	U.S.	MEASUREMENT PERIOD	HIGH DISPARITY*	Source
2.44	Homeownership	percent	49.6		55	55.9	2012-2016		1
2.39	Severe Housing Problems	percent	20.9		18.3	18.8	2010-2014		4
2.22	Students Eligible for the Free Lunch Program	percent	58.2		52.9	42.6	2015-2016		8
2.14	Median Monthly Owner Costs for Households without a Mortgage	dollars stores/ 1,000	534		467	462	2012-2016		1
2.11	SNAP Certified Stores	population	0.6				2016		17
2.08	Median Household Gross Rent	dollars	937		911	949	2012-2016		1
2.06	Families Living Below Poverty Level	percent	14.4		13	11	2012-2016	American Indian or Alaska Native, Black or African American, Hispanic or Latino, Other	1
2.06	Food Insecurity Rate	•	16.6		15.4	12.9	2016	Other	5
1.94	Unemployed Workers in Civilian Labor Force	percent percent	4.4		4	4.1	July 2018		15
1.89	People 65+ Living Below Poverty Level	percent	11.3		10.8	9.3	2012-2016	Asian, Black or African American, Hispanic or Latino, Other, Female, 75+	1
1.81	Mortgaged Owners Median Monthly Household Costs	dollars	1504		1444	1491	2012-2016		1
1.67	Child Food Insecurity Rate	percent	23.5		23	17.9	2016		5
	Children Living Below Poverty							American Indian or Alaska Native, Black or African American, Hispanic or Latino,	
1.67	Level	percent	26		23.9	21.2	2012-2016	Other, <6 American Indian or	1
1.67	People Living Below Poverty Level	percent	17.4		16.7	15.1	2012-2016	Allaska Native, Black	1

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							or African American, Hispanic or Latino, Other, Female, <6, 6-11, 12-17, 18-24	
1.67	Total Employment Change	percent	2.4	3.2	2.5	2014-2015		16
1.50	Renters Spending 30% or More of Household Income on Rent	percent	46.8	48	47.3	2012-2016		1
1.42	Persons with Disability Living in Poverty (5-year)	percent	25.4	25.1	27.6	2012-2016		1
1.33	Low-Income and Low Access to a Grocery Store	percent	6.3			2015		17
1.33	People Living 200% Above Poverty Level	percent	61.6	62.8	66.4	2012-2016		1
1.08	Median Housing Unit Value	dollars	145600	142700	184700	2012-2016		1
0.97	Persons with Disability Living in Poverty	percent	22.9	24.2	26.6	2016		1
0.94	Female Population 16+ in Civilian Labor Force	percent	59.8	57.7	58.3	2012-2016		1
0.94	Population 16+ in Civilian Labor Force	percent	68.3	64.2	63.1	2012-2016		1
0.89	Households with Cash Public Assistance Income	percent	1.5	1.6	2.7	2012-2016		1
0.67	Homeowner Vacancy Rate	percent	1.5	1.6	1.8	2012-2016		1
0.50	Median Household Income	dollars	55584	54727	55322	2012-2016	American Indian or Alaska Native, Black or African American, Hispanic or Latino, Other	1
							American Indian or Alaska Native, Black or African American, Hispanic or Latino, Native Hawaiian or	-
0.50	Per Capita Income	dollars	29850	27828	29829	2012-2016	Other Pacific	1

								Islander, Other, Two	
								or More Races	
SCORE	EDUCATION	UNITS	HARRIS COUNTY	HP2020	TEXAS	U.S.	MEASUREMENT PERIOD	HIGH DISPARITY*	Source
1.92	Infants Born to Mothers with <12 Years Education	percent	27.5		21.6	15.9	2013		12
1.89	Student-to-Teacher Ratio	students/ teacher	16.4		15.4	17.7	2015-2016		8
1.67	High School Drop Out Rate	percent	2.6		2		2016		13
1.67	People 25+ with a High School Degree or Higher	percent	80.2		82.3	87	2012-2016	Male, 35-44, 45-64, 65+	1
0.67	People 25+ with a Bachelor's Degree or Higher	percent	30.1		28.1	30.3	2012-2016	American Indian or Alaska Native, Black or African American, Native Hawaiian or Other Pacific Islander, Other, 45- 64, 65+	1
SCORE	ENVIRONMENT	UNITS	HARRIS COUNTY	HP2020	TEXAS	U.S.	MEASUREMENT PERIOD	HIGH DISPARITY*	Source
2.39	Severe Housing Problems	percent	20.9		18.3	18.8	2010-2014		4
2.11	SNAP Certified Stores	stores/ 1,000 population	0.6				2016		17
1.75	Annual Ozone Air Quality	grade	F				2014-2016		2
1.69	Annual Particle Pollution	grade	С				2014-2016		2
1.67	Fast Food Restaurant Density	restaurants/ 1,000 population	0.7				2014		17
1.61	Recognized Carcinogens Released into Air	pounds	1962916				2017		18
1.50	Children with Low Access to a Grocery Store	percent	5.4				2015		17

		markets/ 1,000							
1.50	Farmers Market Density	population	0				2016		17
		stores/ 1,000							
1.50	Grocery Store Density	population	0.2				2014		17
	Low-Income and Low Access to a								
1.33	Grocery Store	percent	6.3				2015		17
	,	facilities/ 1,000							
1.33	Recreation and Fitness Facilities	population	0.1				2014		17
1.25	Drinking Water Violations	percent	1.7		6.6		FY 2013-14		4
1.17	PBT Released	pounds	210516				2017		18
1.00	Food Environment Index		7.2		6	7.7	2018		4
	Households with No Car and Low								
1.00	Access to a Grocery Store	percent	0.9				2015		17
		,							
1.00	People 65+ with Low Access to a		1.4				2015		17
1.00	Grocery Store	percent stores/ 100,000	1.4				2015		17
0.89	Liquor Store Density	population	6.3		6.8	10.5	2015		16
0.67	Access to Exercise Opportunities	percent	90.4		80.6	83.1	2018		4
0.17	Houses Built Prior to 1950	percent	6.2		7.4	18.2	2012-2016		1
		p 0. 00							_
			HARRIS				MEASUREMENT		
SCORE	EXERCISE, NUTRITION, & WEIGHT	UNITS	COUNTY	HP2020	TEXAS	U.S.	PERIOD	HIGH DISPARITY*	Source
2.17	Workers who Walk to Work	percent	1.5	3.1	1.6	2.8	2012-2016	White, non-Hispanic	1
		stores/1,000							
2.11	SNAP Certified Stores	population	0.6				2016		17
2.06	Food Insecurity Rate	percent	16.6		15.4	12.9	2016		5
1.67	Adults (18+ Years) Who Are Obese	percent	32	30.5	33.6	29.9	2016		10
1.67	Child Food Insecurity Rate	percent	23.5		23	17.9	2016		5
		restaurants/ 1,000							
1.67	Fast Food Restaurant Density	population	0.7				2014		17
1.50	Adults who are Overweight or	percent	66.7		68.4	65.2	2016		10

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	Obese								
1.50	Children with Low Access to a Grocery Store	percent	5.4				2015		17
1.50	Farmers Market Density	markets/ 1,000 population	0				2016		17
1.50	Grocery Store Density	stores/ 1,000 population	0.2				2014		17
1.42	Adult Fruit and Vegetable Consumption	percent	18.7		17.2		2015		10
1.33	Low-Income and Low Access to a Grocery Store	percent	6.3				2015		17
1.33	Recreation and Fitness Facilities	facilities/ 1,000 population	0.1				2014		17
1.00	Food Environment Index		7.2		6	7.7	2018		4
1.00	Households with No Car and Low Access to a Grocery Store	percent	0.9				2015		17
1.00	People 65+ with Low Access to a Grocery Store	percent	1.4				2015		17
0.67	Access to Exercise Opportunities	percent	90.4		80.6	83.1	2018		4
SCORE	HEART DISEASE & STROKE	UNITS	HARRIS COUNTY	HP2020	TEXAS	U.S.	MEASUREMENT PERIOD	HIGH DISPARITY*	Source
2.61	Stroke: Medicare Population	percent	5.2		4.5	4	2015		3
1.89	Heart Failure: Medicare Population	percent	16		15.5	13.5	2015		3
1.50	Atrial Fibrillation: Medicare Population	percent	7.3		7.4	8.1	2015		3
1.44	Hyperlipidemia: Medicare Population	percent	43.2		46.1	44.6	2015		3
1.42	Age-Adjusted Death Rate due to Cerebrovascular Disease (Stroke)	deaths/ 100,000 population	41.5	34.8	42	37.3	2010-2014	Black	12
1.33	Ischemic Heart Disease: Medicare	percent	28.8		28.8	26.5	2015		3

	Population								
1.22	Hypertension: Medicare Population	percent	55.5		57.5	55	2015		3
0.92	Age-Adjusted Death Rate due to Heart Disease	deaths/ 100,000 population	167.6		173	171.9	2010-2014	Black, White, Male	12
SCORE	IMMUNIZATIONS & INFECTIOUS DISEASES	UNITS	HARRIS COUNTY	HP2020	TEXAS	U.S.	MEASUREMENT PERIOD	HIGH DISPARITY*	Source
2.33	Gonorrhea Incidence Rate	cases/ 100,000 population	182.1		160.2		2017		12
2.33	Syphilis Incidence Rate	cases/ 100,000 population	59.3		40.6		2017		12
2.11	Chlamydia Incidence Rate	cases/ 100,000 population	571.4		511.6		2017		12
1.83	Tuberculosis Incidence Rate	cases/ 100,000 population	6.6	1	4.5		2013-2017		12
1.78	Adults 65+ with Influenza Vaccination	percent	57.2		57.3	58.6	2016		10
1.67	HIV Diagnosis Rate	cases/ 100,000 population	26.3		16.1		2016		12
1.17	Adults 65+ with Pneumonia Vaccination	percent	73.5	90	71.3	73.4	2016		10
1.00	Age-Adjusted Death Rate due to Influenza and Pneumonia	deaths/ 100,000 population	14		14.2	15.2	2010-2014	Black, Male	12
SCORE	MATERNAL, FETAL & INFANT HEALTH	UNITS	HARRIS COUNTY	HP2020	TEXAS	U.S.	MEASUREMENT PERIOD	HIGH DISPARITY*	Source
2.36	Infant Mortality Rate	deaths/ 1,000 live births	6.8	6	5.8	6	2013		12
1.97	Mothers who Received Early Prenatal Care	percent	56.1	77.9	59.2	74.2	2013		12
1.92	Infants Born to Mothers with <12 Years Education	percent	27.5		21.6	15.9	2013		12

1.61 Babies with Very Low Birth Weight percent 1.5 1.4 1.4 1.4 2013 1.25 Preterm Births percent 11.8 9.4 12 11.4 2013 0.58 Teen Births percent 2.5 2.8 4.3 2014 SCORE MEN'S HEALTH UNITS COUNTY HP2020 TEXAS U.S. MEASUREMENT PERIOD HIGH DISPARITY* Sc Age-Adjusted Death Rate due to Prostate Cancer deaths/100,000 males 19.8 21.8 18.1 19.5 2011-2015 201	12 12 12 12 12 7 7 6
1.25 Preterm Births percent 11.8 9.4 12 11.4 2013 0.58 Teen Births percent 2.5 2.8 4.3 2014 SCORE MEN'S HEALTH UNITS HARRIS COUNTY HP2020 TEXAS U.S. MEASUREMENT PERIOD HIGH DISPARITY* So Age-Adjusted Death Rate due to Prostate Cancer deaths/100,000 males 19.8 21.8 18.1 19.5 2011-2015 1.33 Prostate Cancer Incidence Rate males 102.5 95.4 109 2011-2015 1.28 Life Expectancy for Males years 76.4 76.2 76.7 2014 SCORE MENTAL HEALTH & MENTAL DISORDERS UNITS HARRIS COUNTY HP2020 TEXAS U.S. MEASUREMENT PERIOD HIGH DISPARITY* Sc	12 12 Source 7
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SCORE DISORDERS UNITS COUNTY HP2020 TEXAS U.S. PERIOD HIGH DISPARITY* So Alzheimer's Disease or Dementia:	
Alzheimer's Disease or Dementia:	
	Source
1.89 Medicare Population	3
1.53 Poor Mental Health: 5+ Days <i>percent</i> 80 81.5 2016	10
Poor Mental Health: Average	
1.50 Number of Days	4
providers/ 100,000	
1.44 Mental Health Provider Rate population 103.7 98.8 214.3 2017	4
1.17 Frequent Mental Distress percent 11.2 10.6 15 2016	4
Age-Adjusted Death Rate due to deaths/ 100,000 Suicide population 10.3 10.2 11.7 12.5 2010-2014 White, Male	12
0.94 Depression: Medicare Population percent 14.8 17 16.7 2015	3
Age-Adjusted Death Rate due to deaths/ 100,000	
0.64Alzheimer's Diseasepopulation17.926.624.52010-2014White, Female	12

SCORE	OLDER ADULTS & AGING	UNITS	HARRIS COUNTY	HP2020	TEXAS	U.S.	MEASUREMENT PERIOD	HIGH DISPARITY*	Source
2.67	Chronic Kidney Disease: Medicare Population	percent	20.9		19.9	18.1	2015		3
2.61	Stroke: Medicare Population	percent	5.2		4.5	4	2015		3
2.06	Age-Adjusted Death Rate due to Falls	deaths/ 100,000 population	10.4	7.2	7.4	8.3	2010-2014	White, Male	12
1.94	Cancer: Medicare Population	percent	7.6		7.1	7.8	2015		3
1.89	Alzheimer's Disease or Dementia: Medicare Population	percent	11.4		11.7	9.9	2015		3
1.89	Heart Failure: Medicare Population	percent	16		15.5	13.5	2015		3
1.89	People 65+ Living Below Poverty Level Adults 65+ with Influenza	percent	11.3		10.8	9.3	2012-2016	Asian, Black or African American, Hispanic or Latino, Other, Female, 75+	1
1.78	Vaccination	percent	57.2		57.3	58.6	2016		10
1.72	Osteoporosis: Medicare Population	percent	6.3		6.5	6	2015		3
1.67	Diabetes: Medicare Population	percent	28.1		28.2	26.5	2015		3
1.50	Atrial Fibrillation: Medicare Population	percent	7.3		7.4	8.1	2015		3
1.44	Hyperlipidemia: Medicare Population	percent	43.2		46.1	44.6	2015		3
1.44	People 65+ Living Alone	percent	24.4		23.9	26.4	2012-2016		1
1.33	Ischemic Heart Disease: Medicare Population	percent	28.8		28.8	26.5	2015		3
1.22	Hypertension: Medicare Population	percent	55.5		57.5	55	2015		3
1.17	Adults 65+ with Pneumonia Vaccination	percent	73.5	90	71.3	73.4	2016		10
1.00	People 65+ with Low Access to a Grocery Store	percent	1.4				2015		17

0.94	Asthma: Medicare Population	percent	7.3		8.2	8.2	2015		3
0.94	Depression: Medicare Population	percent	14.8		17	16.7	2015		3
0.94	Rheumatoid Arthritis or Osteoarthritis: Medicare Population	percent	27.8		31.6	30	2015		3
0.64	Age-Adjusted Death Rate due to Alzheimer's Disease	deaths/ 100,000 population	17.9		26.6	24.5	2010-2014	White, Female	12
0.39	COPD: Medicare Population	percent	9.6		11.1	11.2	2015		3
SCORE	OTHER CHRONIC DISEASES	UNITS	HARRIS COUNTY	HP2020	TEXAS	U.S.	MEASUREMENT PERIOD	HIGH DISPARITY*	Source
2.67	Chronic Kidney Disease: Medicare Population	percent	20.9		19.9	18.1	2015		3
1.72	Osteoporosis: Medicare Population	percent	6.3		6.5	6	2015		3
0.94	Rheumatoid Arthritis or Osteoarthritis: Medicare Population	percent	27.8		31.6	30	2015		3
SCORE	PREVENTION & SAFETY	UNITS	HARRIS COUNTY	HP2020	TEXAS	U.S.	MEASUREMENT PERIOD	HIGH DISPARITY*	Source
2.39	Severe Housing Problems	percent	20.9		18.3	18.8	2010-2014		4
2.06	Age-Adjusted Death Rate due to Falls	deaths/ 100,000 population	10.4	7.2	7.4	8.3	2010-2014	White, Male	12
1.19	Death Rate due to Drug Poisoning	deaths/ 100,000 population	10.2		9.8	16.9	2014-2016		4
0.69	Age-Adjusted Death Rate due to Unintentional Injuries	deaths/ 100,000 population	36.1	36.4	37.6	39.2	2010-2014	White, Male	12
SCORE	PUBLIC SAFETY	UNITS	HARRIS COUNTY	HP2020	TEXAS	U.S.	MEASUREMENT PERIOD	HIGH DISPARITY*	Source

2.17	Alcohol-Impaired Driving Deaths	percent	37.8		28.3	29.3	2012-2016		4
	·	crimes/ 100,000							
1.67	Violent Crime Rate	population	713.7		407.6		2012-2014		4
1.11	Substantiated Child Abuse Rate	cases/ 1,000 children	5.4		8.5		2017		11
1.11	Substantiated Child Abuse Rate	cmiaren	5.4		8.5		2017		11
SCORE	RESPIRATORY DISEASES	UNITS	HARRIS COUNTY	HP2020	TEXAS	U.S.	MEASUREMENT PERIOD	HIGH DISPARITY*	Source
		cases/ 100,000							
1.83	Tuberculosis Incidence Rate	population	6.6	1	4.5		2013-2017		12
4.70	Adults 65+ with Influenza		57.0		F7.2	50.6	2016		10
1.78	Vaccination Adults 65+ with Pneumonia	percent	57.2		57.3	58.6	2016		10
1.17	Vaccination	percent	73.5	90	71.3	73.4	2016		10
1.00	Age-Adjusted Death Rate due to Influenza and Pneumonia	deaths/ 100,000	14		14.2	15.2	2010-2014	Black, Male	12
		, ,						Diack, iviale	
0.94	Asthma: Medicare Population	percent	7.3		8.2	8.2	2015		3
0.50	Lung and Bronchus Cancer Incidence Rate	cases/ 100,000 population	50.9		53.1	60.2	2011-2015		7
0.39	COPD: Medicare Population Age-Adjusted Death Rate due to	percent deaths/ 100,000	9.6		11.1	11.2	2015		3
0.33	Lung Cancer	population	37.5	45.5	39	43.4	2011-2015		7
SCORE	SOCIAL ENVIRONMENT	UNITS	HARRIS COUNTY	HP2020	TEXAS	U.S.	MEASUREMENT PERIOD	HIGH DISPARITY*	Source
2.67	Mean Travel Time to Work	minutes	28.6		25.9	26.1	2012-2016	Male	1
2.50	Linguistic Isolation	percent	11.8		7.9	4.5	2012-2016		1
2.44	Homeownership	percent	49.6		55	55.9	2012-2016		1
2.17	Single-Parent Households	percent	36.2		33.3	33.6	2012-2016		1
2.14	Median Monthly Owner Costs for Households without a Mortgage	dollars	534		467	462	2012-2016		1

2.08	Median Household Gross Rent	dollars	937		911	949	2012-2016		1
2.08	iviedian Household Gross Rent	uonars	937		911	949	2012-2016		1
	Mortgaged Owners Median								
1.81	Monthly Household Costs	dollars	1504		1444	1491	2012-2016		1
1.75	Persons with Health Insurance	percent	79.3	100	81.4		2016		9
1.67	Children Living Below Poverty Level	percent	26		23.9	21.2	2012-2016	American Indian or Alaska Native, Black or African American, Hispanic or Latino, Other, <6	1
1.67	People 25+ with a High School Degree or Higher	percent	80.2		82.3	87	2012-2016	Male, 35-44, 45-64, 65+	1
1.67	People Living Below Poverty Level	percent	17.4		16.7	15.1	2012-2016	American Indian or Alaska Native, Black or African American, Hispanic or Latino, Other, Female, <6, 6-11, 12-17, 18-24	1
1.67	Total Employment Change	percent	2.4		3.2	2.5	2014-2015		16
1.67	Voter Turnout: Presidential Election	percent	58.4		58.8		2016		14
1.44	People 65+ Living Alone	percent	24.4		23.9	26.4	2012-2016		1
1.11	Substantiated Child Abuse Rate	cases/ 1,000 children	5.4		8.5		2017		11
1.08	Median Housing Unit Value	dollars	145600		142700	184700	2012-2016		1
0.94	Female Population 16+ in Civilian Labor Force	percent	59.8		57.7	58.3	2012-2016		1
0.94	Population 16+ in Civilian Labor Force	percent	68.3		64.2	63.1	2012-2016		1
0.67	People 25+ with a Bachelor's	norcent	30.1		28.1	30.3	2012-2016	American Indian or Alaska Native, Black or African American, Native Hawaiian or Other Pacific Islander, Other, 45-	1
0.67	Degree or Higher	percent	50.1		28.1	3U.3	2012-2016	64, 65+	1

			Т			1	1		
								American Indian or	
								Alaska Native, Black	
								or African American,	
								Hispanic or Latino,	
0.50	Median Household Income	dollars	55584		54727	55322	2012-2016	Other	1
								American Indian or	
								Alaska Native, Black	
								or African American,	
								Hispanic or Latino,	
								Native Hawaiian or	
								Other Pacific	
								Islander, Other, Two	
0.50	Per Capita Income	dollars	29850		27828	29829	2012-2016	or More Races	1
			HARRIS				MEASUREMENT		
SCORE	SUBSTANCE ABUSE	UNITS	COUNTY	HP2020	TEXAS	U.S.	PERIOD	HIGH DISPARITY*	Source
		ONTIS		111 2020			-	THOTI DISPARTIT	
2.17	Alcohol-Impaired Driving Deaths	percent	37.8		28.3	29.3	2012-2016		4
1.50	Adults who Drink Excessively	percent	18.1	25.4	19.4	18	2016		4
	Adults (18+ Years) Reporting Binge								
	Drinking Within the Last 12								
1.28	months	percent	16.6	24.2	17.9	16.9	2016		10
		deaths/ 100,000							
1.19	Death Rate due to Drug Poisoning	population	10.2		9.8	16.9	2014-2016		4
0.94	Adults who Smoke	percent	12.1	12	14.3	17.1	2016		10
		stores/ 100,000							
0.89	Liquor Store Density	population	6.3		6.8	10.5	2015		16
			HARRIS				MEASUREMENT		
SCORE	TRANSPORTATION	UNITS	COUNTY	HP2020	TEXAS	U.S.	PERIOD	HIGH DISPARITY*	Source
SCORE		UNITS		HP2020			PERIOD	HIGH DISPARITY	Source
2.83	Solo Drivers with a Long Commute	percent	45.8		36.9	34.7	2012-2016		4
2.67	Mean Travel Time to Work	minutes	28.6		25.9	26.1	2012-2016	Male	1
2.17	Workers who Walk to Work	percent	1.5	3.1	1.6	2.8	2012-2016	White, non-Hispanic	1
								White, non-	
1.44	Workers who Drive Alone to Work	percent	79.1		80.3	76.4	2012-2016	Hispanic, 25-44, 55-	1

⁹⁰ Memorial Hermann Greater Heights Hospital CHNA 2019

								59	
1.33	Households without a Vehicle	percent	6.4		5.6	9	2012-2016		1
1.28	Workers Commuting by Public Transportation	percent	2.8	5.5	1.5	5.1	2012-2016	Hispanic or Latino, Native Hawaiian or Other Pacific Islander, Two or More Races, White, non-Hispanic, Male, 25-44	1
1.20		percent	2.0	3.3	1.5	3.1	2012 2010	23 44	1
1.00	Households with No Car and Low Access to a Grocery Store	percent	0.9				2015		17
SCORE	WELLNESS & LIFESTYLE	UNITS	HARRIS COUNTY	HP2020	TEXAS	U.S.	MEASUREMENT PERIOD	HIGH DISPARITY*	Source
1.83	Self-Reported General Health Assessment: Poor or Fair	percent	18.2		18.2	16	2016		4
1.75	Poor Physical Health: 5+ Days	percent	80.6		81.5	10	2016		10
1.67	Insufficient Sleep	percent	33.9		32.7	38	2016		4
1.28	Life Expectancy for Males	years	76.4		76.2	76.7	2014		6
1.17	Frequent Physical Distress	percent	11.5		10.8	15	2016		4
1.17	Poor Physical Health: Average Number of Days	days	3.6		3.5	3.7	2016		4
1.06	Life Expectancy for Females	years	81		80.8	81.5	2014		6
SCORE	WOMEN'S HEALTH	UNITS	HARRIS COUNTY	HP2020	TEXAS	U.S.	MEASUREMENT PERIOD	HIGH DISPARITY*	Source
SCORE	WOIVIEN 3 REALIN	cases/ 100,000	COUNTY	1772020	IEVAS	0.3.	PENIOD	THOR DISPARITY	Source
2.53	Cervical Cancer Incidence Rate	females	11	7.3	9.2	7.5	2011-2015		7
2.25	Age-Adjusted Death Rate due to Breast Cancer	deaths/ 100,000 females	23.2	20.7	20.2	20.9	2011-2015	Black	7

⁹¹ Memorial Hermann Greater Heights Hospital CHNA 2019

		cases/ 100,000					
1.39	Breast Cancer Incidence Rate	females	113.2	111.7	124.7	2011-2015	7
1.06	Life Expectancy for Females	years	81	80.8	81.5	2014	6

Appendix C. Primary Data Methodology

Community Input Participants

AccessHealth (FQHC) (Fort Bend Family

Health Center)

AIDS Foundation of Houston

Association for the Advancement of

Mexican Americans

Avenue CDC

Catholic Charities - Archdiocese of

Galveston

Catholic Charities - Fort Bend Child Advocates of Fort Bend

Children at Risk Christ Clinic

City of Houston, Department of Parks and

Recreation

Coastal Area Health Education Centers

(AHEC)

Community Health Choice El Centro de Corazon

Episcopal Health Foundation

Fort Bend County Health and Human

Services

Fort Bend County Sheriff's Office

Fort Bend Regional Council On Substance

Abuse

Fort Bend Seniors Meals on Wheels

Fort Bend Women's Center Galveston County Health District

Galveston County Mental Health Deputies

Greater Houston Partnership

Greater Houston Women's Chamber of

Commerce

Gulf Coast Medical Foundation Harris County Public Health

Healthcare for the Homeless - Houston

HOPE Clinic (FQHC) **Houston Food Bank**

Houston Health Department **Houston Housing Authority**

Houston Independent School District

Interfaith Community Clinic

Kinder Institute

Legacy Community Health Liberty County Sheriff's Office Lone Star Family Health Center

Midtown Arts and Theater Center Houston Montgomery County Women's Center

Baker-Ripley Early Head Start

Patient Care Intervention Center (PCIC)

Prairie View A&M University Santa Maria Hostel, Inc. The Arc of Fort Bend County

The Harris Center for Mental Health and

IDD (formerly MHMRA)

The Rose

The Women's Home

Tri-County Services Behavioral Healthcare

United Way of Brazoria County United Way of Greater Houston

United Way of Harris and Montgomery

County

West Chambers Medical Center (FQHC)

YMCA of Greater Houston

Key Informant Interview Questionnaire (Episcopal Health Foundation)

- Good morning/afternoon [NAME OF INFORMANT]. My name is [NAME OF INTERVIEWER], and I am with Health Resources in Action, a non-profit public health organization based in Boston. Thank you for speaking with me today.
- As we mentioned in our interview invitation, the Episcopal Health Foundation is coordinating an interview initiative to support four Greater Houston area hospital systems in preparing their community health needs assessments. The collaborating hospitals include CHI St. Luke's, Houston Methodist Hospital, Memorial Hermann Health System, and Texas Children's Hospital.
- The purpose of this interview is to gain a greater understanding of the health status and wellbeing of residents in the Greater Houston area and determine how these health needs are currently being addressed. Interviews like this one are being conducted with about 70 stakeholders from a range of sectors such as government, healthcare, business, and community service organizations. We are also interviewing community leaders with specific experience working with priority populations such as women, children, people of color, and the disabled to name a few.
- We are interested in hearing people's feedback on the needs of the broader Greater
 Houston community and the populations you work with as a leader in your community. The
 Foundation and the four hospitals welcome your critical feedback and suggestions for health
 improvement activities in the future. Your honesty during today's interview is encouraged
 and appreciated.
- As we mentioned in our interview invitation, the interview will last between 45 minutes to an hour and it will be recorded. After all the interviews are completed, Health Resources in Action will provide a transcript of your interview to the four hospitals for use in preparing their community health needs assessment reports. Each hospital will keep your interview transcript confidential and accessible only to the team that is preparing the community health needs assessment report. Health Resources in Action will also be preparing a report of the general themes that emerge across all the interviews to help the hospitals prepare their reports.
- The Foundation has asked Health Resources in Action to ask all interviewees how they wish any quotes from today's interview to be presented in reports. There are three options. Quotes may be presented anonymously without your name or organization, presented with your name and organization, or presented with only the sector you represent. Which option would you like to choose?
 - RECORD RESPONSE FROM INTERVIEWEE:
 ☐ Anonymous ☐ Name and organization ☐ Sector
- Thank you. We will note your choice in the transcript that we provide to the hospitals.

- IF THE RESPONDENT IS UNSURE AT THE TIME OF THE INTERVIEW: Ok, please feel free to think it over and we will follow up with you for your decision before we send the transcript to the hospitals.
- Do you have any questions before we begin? BEGIN RECORDING THE INTERVIEW

INTERVIEW QUESTIONNAIRE (55 MINUTES)

NOTES TO INTERVIEWER:

- INTERVIEW QUESTIONS MAY BE ADDED OR TAILORED TO MEET THE SPECIFIC POSITION/ROLE OF THE INTERVIEWEE
- THE QUESTIONS IN THE INTERVIEW QUESTIONNAIRE ARE INTENDED TO SERVE AS A <u>GUIDE</u>, NOT A SCRIPT

BACKGROUND (5 MINUTES)

- Can you tell me a little bit about your role at your organization/agency?
 - Has your organization/agency ever partnered with any of the four hospitals involved in this shared community health needs assessment before? IF SO, PROBE IN WHAT CAPACITY/PROGRAM
- How would you describe the community you represent/the community your organization serves/the Greater Houston population at large? What are some of its defining characteristics in terms of demographics? INTERVIEWER: ESTABLISH WHAT THE INFORMANT CONSIDERS THE COMMUNITY TO BE FROM THEIR PERSPECTIVE

COMMUNITY ISSUES (20 minutes)

INTERVIEWER: VARY THE LABEL OF 'COMMUNITY' BASED ON THE INFORMANT'S BACKGROUND AND HOW HE OR SHE DESCRIBES THE COMMUNITY; BE SURE TO PROBE ON WOMEN'S AND CHILDREN'S ISSUES TO ENSURE WE ADDRESS THE NEEDS OF THE CHILDREN'S HOSPITALS IN ALL OUESTIONS AS RELEVANT

- Thinking about the status of the community today, how would you rate the overall health status of residents on a scale of 1 to 5 with 1 being poor and 5 being very healthy?
- If you had to pick your top 3 <u>health</u> concerns in the community, what would they be? PROBE IN-DEPTH BASED ON INFORMANT AREA OF EXPERTISE
 - Who do you consider to be the populations in the community most vulnerable or at risk for these conditions/issues?
 - IF NOT YET MENTIONED, PROBE SPECIFICALLY ON PRIORITY POPULATION RELEVANT TO THE INFORMANT'S EXPERTISE: What do you think are the most pressing <u>health</u> concerns in the community for [PRIORITY POPULATION]?

- FOR INFORMANTS EXPERTISE WITH WOMEN AND CHILDREN: What do you think are the most pressing health concerns in the community for children and their families? How about for women?
- IF NOT YET DISCUSSED: Of the top three issues you mentioned, which would you rank as your top issue? How do you see this issue affecting community members' daily lives and their health? PROBE IN-DEPTH IN SPECIFIC FOCUS AREAS; MAY ASK ABOUT ONE ISSUE AT TIME AND FOCUS ON PERSON'S AREA OF EXPERTISE.
- From your experience, what are residents' biggest barriers to addressing the top 3 health issues you identified?

o PROBE: Social determinants of health?

PROBE: Barriers to accessing medical care?

PROBE: Barriers to accessing preventive services or programs?

FOCUS AREA: HEALTHY LIVING (5 MINUTES)

- I'd like to ask you about barriers affecting healthy living and the prevention of obesity.
 - What are some of the barriers to healthy eating and physical activity among the communities you serve?
 - What populations are most affected by barriers to healthy living and physical activity? PROBE ABOUT FOOD INSECURITY AND ACCESS TO SAFE SPACES FOR PHYSICAL ACTIVITY
 - What efforts or programs are you aware of that promote healthy living? PROBE ABOUT HEALTHY LIVING MATTERS COLLABORATIVE

ACCESS TO HEALTH CARE AND PUBLIC HEALTH/PREVENTION SERVICES (15 MINUTES)

- I'd like to ask you about access to health care and social services in your community.
 - What do you see as the strengths of the health care and social services in your community?
 - o What do you see as its limitations?
- What challenges/barriers do residents in your community face in accessing health care and social services? [PROBE IN DEPTH FOR BARRIERS TO CARE: INSURANCE ISSUES, LANGUAGE BARRIERS, ACCESS TO HEALTH INFORMATION/HEALTH LITERACY, LACK OF TRANSPORTION, CHILD CARE, ETC.]
 - What do you think needs to happen in the community you serve to help residents overcome or address these challenges?
- What programs, services, or policies are you aware of in the community that address access to health care and social services?
 - o In your opinion, how effective have these programs, services, or policies been at addressing the health needs of residents?
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 What program, services, or policies are currently not available that you think should be?

IMPROVING THE HEALTH OF THE COMMUNITY/RESIDENTS (10 MINUTES)

- What do you think needs to happen in the community you serve to help residents overcome or address the challenges they face in being able to be healthy?
- Earlier in this interview, you mentioned [TOP ISSUE] as being your top health priority for area residents. What do you think needs to be done to address [TOP ISSUE HERE]?
 - What do you think hospitals can do to address this issue that they aren't doing right now? Do you have any suggestions about how hospitals can be creative or work outside their traditional role to address this issue and improve community health?
 - What kinds of opportunities are currently out there that can be seized upon to address these issues? For example, are there some "low hanging fruit" – current collaborations or initiatives that can be strengthened or expanded?

VISION FOR THE COMMUNITY (5 MINUTES)

• The hospitals involved in this initiative will be planning their strategy to improve the health of the communities they serve. What advice do you have for the group developing the plan to address the top health needs you've mentioned?

CLOSING (5 MINUTES)

Thank you so much for your time. That's it for my questions. Is there anything else that you would like to mention that we didn't discuss today?

As I mentioned, after all of the interviews are completed, we will be sending your interview transcripts to the four hospitals. Each hospital will make their community health needs assessment reports publicly available when they are complete. If you have any questions, please feel free to reach out to Jennifer Mineo at the Episcopal Health Foundation who is coordinating this effort on behalf of the four hospitals. Thank you again. Have a good morning/afternoon.

Key Informant Interview Questionnaire (Conduent Healthy Communities Institute)

Good morning/afternoon [NAME OF INFORMANT]. My name is [NAME OF INTERVIEWER], and I am with Conduent Healthy Communities Institute. My colleague [name] is also on the line. We are working with Memorial Hermann Health System to conduct a Community Health Needs Assessment.

- The purpose of this interview is to gain a greater understanding of the health status and wellbeing of residents in the Greater Houston area and determine how these health needs are currently being addressed. Interviews like this one are being conducted with about 12 stakeholders from a range of sectors such as government, healthcare, business, and community service organizations. We are also interviewing community leaders with specific experience working with priority populations such as women, children, people of color, and the disabled to name a few.
- We are interested in hearing people's feedback on the needs of the community and the
 populations you work with as a leader in your community. Memorial Hermann welcome
 your critical feedback and suggestions for health improvement activities in the future. Your
 honesty during today's interview is encouraged and appreciated.
- As we mentioned in our interview invitation, the interview will last between 45 minutes to an hour and it will be recorded. After all the interviews are completed, we will analyze and summarize all the interviews to incorporate into the community health needs assessment reports. Each MH hospital will keep your interview transcript confidential and accessible only to the team that is preparing the community health needs assessment report.
- Memorial Hermann has asked HCl to ask all interviewees how they wish any quotes from today's interview to be presented in reports. There are three options. Quotes may be presented anonymously without your name or organization, presented with your name and organization, or presented with only the sector you represent.
 - Which option would you like to choose?
 - RECORD RESPONSE FROM INTERVIEWEE:
 ☐ Anonymous ☐ Name and organization ☐ Sector
- Thank you. We will note your choice in the transcript that we provide to the hospitals.
 - IF THE RESPONDENT IS UNSURE AT THE TIME OF THE INTERVIEW: Ok, please feel free to think it over and we will follow up with you for your decision before we send the transcript to the hospitals.
 - Do you have any questions before we begin? BEGIN RECORDING THE INTERVIEW

INTERVIEW QUESTIONNAIRE (55 MINUTES)

NOTES TO INTERVIEWER:

- INTERVIEW QUESTIONS MAY BE ADDED OR TAILORED TO MEET THE SPECIFIC POSITION/ROLE OF THE INTERVIEWEE
- THE QUESTIONS IN THE INTERVIEW QUESTIONNAIRE ARE INTENDED TO SERVE AS A <u>GUIDE</u>, NOT A SCRIPT

BACKGROUND (5 MINUTES)

- Can you tell me a little bit about your role at your organization?
 - Has your organization/agency ever partnered with MH's community health needs assessment before? IF SO, PROBE IN WHAT CAPACITY/PROGRAM
- How would you describe the community you represent/the community your organization serves? What are some of its defining characteristics in terms of demographics?
 INTERVIEWER: ESTABLISH WHAT THE INFORMANT CONSIDERS THE COMMUNITY TO BE FROM THEIR PERSPECTIVE

COMMUNITY ISSUES (20 minutes)

INTERVIEWER: VARY THE LABEL OF 'COMMUNITY' BASED ON THE INFORMANT'S BACKGROUND AND HOW HE OR SHE DESCRIBES THE COMMUNITY; BE SURE TO PROBE ON WOMEN'S AND CHILDREN'S ISSUES TO ENSURE WE ADDRESS THE NEEDS OF THE CHILDREN'S HOSPITALS IN ALL QUESTIONS AS RELEVANT

- Thinking about the status of the community today, how would you rate the overall health status of residents on a scale of 1 to 5 with 1 being poor and 5 being very healthy?
- If you had to pick your top 3 <u>health</u> concerns in the community, what would they be?
 PROBE IN-DEPTH BASED ON INFORMANT AREA OF EXPERTISE
 - Who do you consider to be the populations in the community most vulnerable or at risk for these conditions/issues?
 - IF NOT YET MENTIONED, PROBE SPECIFICALLY ON PRIORITY POPULATION RELEVANT TO THE INFORMANT'S EXPERTISE: What do you think are the most pressing <u>health</u> concerns in the community for [PRIORITY POPULATION]?
 - FOR INFORMANTS EXPERTISE WITH WOMEN AND CHILDREN: What do you think are the most pressing health concerns in the community for children and their families? How about for women?
 - IF NOT YET DISCUSSED: Of the top three issues you mentioned, which would you rank as your top issue? How do you see this issue affecting

community members' daily lives and their health? PROBE IN-DEPTH IN SPECIFIC FOCUS AREAS; MAY ASK ABOUT ONE ISSUE AT TIME AND FOCUS ON PERSON'S AREA OF EXPERTISE.

- From your experience, what are residents' biggest barriers to addressing the top 3 health issues you identified?
 - o PROBE: Social determinants of health?
 - PROBE: Barriers to accessing medical care?
 - PROBE: Barriers to accessing preventive services or programs?

FOCUS AREA: HEALTHY LIVING (5 MINUTES)

- I'd like to ask you about barriers affecting healthy living and the prevention of obesity.
 - What are some of the barriers to healthy eating and physical activity among the communities you serve?
 - What populations are most affected by these barriers to healthy living and physical activity? PROBE ABOUT FOOD INSECURITY AND ACCESS TO SAFE SPACES FOR PHYSICAL ACTIVITY
 - What efforts or programs are you aware of that promote healthy living? PROBE ABOUT HEALTHY LIVING MATTERS COLLABORATIVE

ACCESS TO HEALTH CARE AND PUBLIC HEALTH/PREVENTION SERVICES (15 MINUTES)

- I'd like to ask you about access to health care and social services in your community.
 - O What ARE the strengths of the health care and social services in your community?
 - O What are some of their limitations?
- What challenges/barriers do residents in your community face when accessing health care
 and social services? [PROBE IN DEPTH FOR BARRIERS TO CARE: INSURANCE ISSUES,
 LANGUAGE BARRIERS, ACCESS TO HEALTH INFORMATION/HEALTH LITERACY, LACK OF
 TRANSPORTION, CHILD CARE, ETC.]
 - What do you think needs to happen in the community to help residents overcome or address these challenges?
- What programs, services, or policies are you aware of that address access to health care and social services?
 - In your opinion, how effective have these programs, services, or policies been at addressing the health needs of residents?
 - What program, services, or policies not available that you think should be?

IMPROVING THE HEALTH OF THE COMMUNITY/RESIDENTS (10 MINUTES)

- What do you think needs to happen in the community to help residents overcome or address the challenges they face in being able to be healthy?
- Earlier in this interview, you mentioned [TOP ISSUE] as being your top health priority for area residents. What do you think needs to be done to address [TOP ISSUE HERE]?
 - What do you think hospitals can do to address this issue that they are not doing right now?
 - Do you have any suggestions about how hospitals can be creative or work outside their traditional role to address this issue and improve community health?
 - What kinds of opportunities are currently out there that can be seized upon to address these issues? For example, are there some "low hanging fruit" – current collaborations or initiatives that can be strengthened or expanded?

VISION FOR THE COMMUNITY (5 MINUTES)

• The hospitals involved in this initiative will be planning their strategy to improve the health of the communities they serve.

What advice do you have for the group developing the plan to address the top health needs you've mentioned?

CLOSING (5 MINUTES)

Thank you so much for your time. That's it for my questions. Is there anything else that you would like to mention that we didn't discuss today?

As I mentioned, after all of the interviews are completed, we will be sending your interview transcripts to Memorial Hermann. The community health needs assessment reports will be **publicly** available when they are complete. If you have any questions, please feel free to reach out to Deborah Ganelin at Memorial Hermann who is coordinating this effort. Thank you again. Have a good morning/afternoon.

Community Survey (English)

Memorial Hermann Health System is conducting a Community Health Needs Assessment for the Greater Houston area. This assessment allows Memorial Hermann to better understand the health status and needs of the community and use the knowledge gained to implement programs that will benefit the community.

We can better understand community needs by gathering voices from the community. This survey allows community members like you to tell us about what you feel are important issues for your community.

We estimate that it will take about 5 minutes to complete this survey.

Thank you very much for your input and your time!

1.	lease look at this list of community issues. In your opinion, what are the top 5 issues mos
	ffecting the quality of life in your community?
	□ Diabetes
	☐ Obesity/Overweight
	Respiratory/Lung Disease (asthma, COPD, etc.)
	☐ Cancers
	Mental Health and Mental Disorders
	Injuries, Violence and Safety
	Substance Abuse (alcohol, tobacco, drugs, etc.)
	Oral Health
	☐ Heart Disease and Stroke
	Sexual Health (HIV/AIDS, STDs, etc.)
	☐ Teenage Pregnancy
	☐ Elder Care
	Reproductive Health (family planning)
	Other (please specify):
2.	low would you rate your own personal health?
	☐ Very healthy
	☐ Somewhat healthy
	☐ Unhealthy
	√ Very unhealthy
3.	sbout how many times a week do you exercise or perform a physical activity like walking,
	unning, bicycling, etc.?
	Less than 1 time a week
	2-3 times a week
	☐ 5 or more times a week
	□ Never
	7 Other (please specify):

□ No □ No □ I do □ Fee □ Nor □ No □ Lact	re some of the barriers or challenges to places to exercise time to exercise on't like exercising all unsafe exercising in the community one of my friends or family exercise childcare k of funds to pay for gym or classes transportation are (please specify):	exercising o	on a regula	r basis for yo	u?
5. How mu	uch do you agree or disagree with each o	Agree	ments belo	Disagree	Disagree
		strongly			strongly
_	od parks for children, adults and people of one of one of the community				
In the past 13	2 months, I had a problem getting the				
health care I	needed for me or a family member from				
any type of hother facility	nealth care provider, dentist, pharmacy, or				
I don't know	where to get services for myself when I am				
sad, depresse	ed or need someone to talk to				
	nt I can get an appointment when I need to				
	or fairly quickly				
•	e to receive medical care other than the				
emergency r					
	ast 12 months, I worried whether my food				
•	ut before I got money to buy more				
	ast 12 months, the food I bought just didn't				
•	n't have money to get more				
	any options for healthy and affordable food				
in my commi					
	unity				1
☐ Higl ☐ Higl ☐ Can ☐ Dial ☐ Obe ☐ Astl ☐ Hea	betes esity hma art disease ner (please specify):				
Now, a few asked.	questions so that we can see how differ	ent types o	f people fe	eel about the	questions
7. Zip code	e where you live:				
o. Wildt 15	your age?				

9.	Wh	at is your race/ethnicity?
		White
		Black/African American
		Hispanic/Latino
		Asian/Pacific Islander
		Native American
		Other (please specify):
10.	Wh	at are the ages of children living in your household?
		11 and younger
		12-18 years old
		18 and older
		None
11.	Wh	at kind of medical insurance or coverage do you have?
		Private
		Employer-sponsored
		Medicaid
		Medicare
		None
		Other (please specify):

Thank you for completing this survey!

Community Survey (Spanish)

Memorial Hermann Health System está realizando una Evaluación de las Necesidades de Salud de la Comunidad en el área metropolitana de Houston. Esta evaluación permite a Memorial Hermann comprender mejor el estado de salud y las necesidades de la comunidad, así como usar la información obtenida para poner en práctica programas que beneficien a la comunidad.

Calculamos que le tomará unos 5 minutos completar esta encuesta.

<u>afectan</u> la calidad de vida en su comunidad?	
□ Diabetes	□ Salud bucal
□ Obesidad/sobrepeso	☐ Enfermedades cardíacas y accidentes
□ Enfermedades respiratorias/pulmonares	cerebrovasculares
(asma, enfermedad pulmonar obstructiva	☐ Salud sexual (VIH/sida, enfermedades
crónica [EPOC], etc.)	de transmisión sexual [ETS], etc.)
□ Cáncer	□ Embarazos de adolescentes
□ Salud mental y trastornos mentales	□ Cuidado de ancianos
☐ Lesiones, violencia y seguridad	□ Salud reproductiva (planificación familiar)
☐ Drogodependencia (alcohol, tabaco, drogas,	
etc.)	
□ Otros, (especifique):	
2. ¿Cómo calificaría su propia salud personal?	
□ Muy buena	□ Mala
□ Bastante buena	□ Muy mala
3. ¿Aproximadamente, cuántas veces por semana had	ce ejercicio o alguna actividad física, como caminar,
correr, andar en bicicleta, etc.?	,
□ Menos de 1 vez por semana	□ 5 o más veces por semana
□ De 2 a 3 veces por semana	□ Nunca
□ Otros, (especifique):	
4. ¿Cuáles son algunas de las barreras o dificultades q	uuo la impidan hacar ajarcicia ragularmenta?
□ No tengo un lugar donde hacer ejercicio.	☐ No tengo con quién dejar a mis hijos mientras
□ No tengo tiempo para hacer ejercicio.	hago ejercicio.
□ No me gusta hacer ejercicio.	□ No tengo dinero para pagar un gimnasio o
□ No me siento seguro/a haciendo ejercicio en	clases.
mi comunidad.	□ No tengo acceso a transporte.
□ Ninguno de mis amigos o familiares hacen	u No tengo acceso a transporte.
ejercicio.	
Otros (especifique):	

5. ¿Le ha dicho su médico alguna de las siguientes afecci	ones? (Mar	que todas	las opciones	que
correspondan).	- Ob a si d			
	□ Obesid	au		
□ Colesterol alto	□ Asma		_	
□ Cáncer	□ Enferm	edad cardi	íaca	
□ Diabetes				
□ Otros, (especifique):				
6. ¿En qué medida está de acuerdo o en desacuerdo con				
	Muy de acuerdo	De	En	Muy en desacuerdo
En mi comunidad, hay buenos parques para niños, adultos y	acuerdo	acuerdo	desacuerdo	desacuerdo
personas con todo tipo de capacidades para nuestro				
disfrute.				
En los últimos 12 meses, tuve un problema para obtener el				
cuidado médico que necesitaba para mí o para un familiar				
por parte de cualquier tipo de proveedor de cuidado de la				
salud, dentista, farmacia u otro centro sanitario.				
No sé dónde obtener servicios para mí cuando estoy triste,				
deprimido/a, o necesito hablar con alguien.				
Sé con seguridad que puedo obtener una cita con mi médico				
con cierta rapidez.				
Tengo a mi disposición un lugar para recibir cuidados				
médicos que no sea una sala de emergencias.				
En los últimos 12 meses, me preocupé de si la comida se				
agotaría antes de obtener dinero para comprar más alimentos.				
En los últimos 12 meses, los alimentos que compré				
simplemente no duraron lo suficiente y no tuve dinero para				
comprar más.				
En mi comunidad hay muchas opciones para comprar				
alimentos saludables y asequibles.				
, .				l
Ahora le haremos algunas preguntas para poder de personas acerca de las pregu				tos grupos
7. Código postal de su casa:				
8. ¿Cuántos años tiene?				
9. ¿Cuál es su raza/origen étnico?				
□ Blanco/a	□ Asiátic	o/a o isleño	o/a del Pacífio	20
□ Negro/a o afroamericano/a		na america:		
☐ Hispano/a o latino/a	_			
⊔ HISPAHO/A O IAUHO/A		, (especifiq	ue):	
10. ¿Cuántos años tienen los niños/as que viven en su ca	ısa?			
□ 11 y menos	□ Más de	e 18 años		
□ Entre 12 y 18 años	□ Ningun			

11. ¿Qué tipo de seguro médico o cobertura tiene?	
□ Privado	□ Medicare
□ Patrocinado por un empleador	□ Ninguno
□ Medicaid	□ Otro, (especifique):

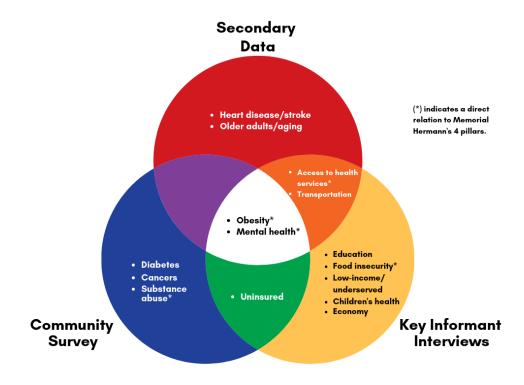
Appendix D. Prioritization Tool

Prioritization Survey

Thank you for your participation in this prioritization process.

The Community Health Needs Assessment (CHNA) process has multiple steps. After thorough research has been completed to identify the significant health needs in the community, these significant health needs must be prioritized for further strategic planning and implementation. Prioritization is the process of determining the most important or urgent health needs to address in communities.

Below is a diagram that shows the methods that were used to identify key issues across Memorial Hermann's service areas. These three methods included: a secondary data review, a community survey and key informant interviews. As you see, some issues revealed themselves across multiple methods. Reviewing this diagram may help you complete this survey.



1. The following health needs are not listed by order of importance. For each health need, click on the arrow on the drop down box and select your agreement with each statement. If you are on a tablet or phone, please scroll all the way to the right for each row.

The issue impacts	This issue	There are not	This issue has
many people in	significantly	enough existing	high risk for
my community	impacts	and adequate	disease or death
	subgroups	resources to	

İ			
	(subgroups by	address this issue	
	age, gender,	in my community	
	race/ethnicity,		
	LGBTQ, etc.)		
Access to Health			
Services			
Heart Disease and			
Stroke			
Older Adults and			
Aging			
Obesity (Exercise,			
Nutrition and			
Weight)			
Transportation			
Mental Health			
Diabetes			
Substance Abuse			
Cancers			
Lack of Health			
Insurance			
Education			
Food Insecurity			
Low-			
Income/Underserved			
Children's Health			
Economy			

2. Indicate the level of importance that should be given towards each of Memorial Hermann's 4 Pillars. Key definitions are listed below.

	Not	Somewhat	Important	Very	Not Sure
	Important	Important		Important	
Access to care (including					
healthcare access, healthcare					
resource awareness,					
healthcare navigation /					
literacy)					
Food as health (including food					
insecurity, food programs,					
food knowledge)					
Exercise as medicine					
(including obesity, access to					
parks, safe places to exercise)					
Emotional well-being					
(including emotional health,					
mental health, substance					
abuse)					

Key definitions:

Healthcare navigation/literacy: need for education in navigating health systems Food insecurity: lacking reliable access to healthy food options

Food knowledge: one's understanding of healthy foods 3. Who in your community is most affected by poor health outcomes? (Select up to 5) ☐ Lesbian, Gay, Bisexual, Transgender, Queer or Questioning (LGBTQ) ☐ Older Adults ☐ Persons with Disabilities (cognitive, sensory or physical disability) ☐ Racial/Ethnic Minority Populations □ Veterans ☐ Immigrants or other undocumented persons ☐ Persons experiencing homelessness or precariously housed ☐ Other Populations (please specify): ______ 4. Please provide your name: ______ 5. Please provide your email address: ______ 6. Please select the name(s) of the healthcare facility or facilities you represent. You may choose more than one. ☐ Memorial Hermann Katy ☐ Memorial Hermann Memorial City ☐ Memorial Hermann Greater Heights ☐ Memorial Hermann Northeast ☐ Memorial Hermann Southeast ☐ Memorial Hermann Sugar Land ☐ Memorial Hermann Southwest ☐ Memorial Hermann The Woodlands ☐ Katy Rehab ☐ Texas Medical Center ☐ TIRR Memorial Hermann ☐ Memorial Hermann Surgical Hospital Kingwood ☐ Memorial Hermann Surgical Hospital First Colony ☐ Memorial Hermann First Colony Hospital (ER)

Food programs: programs, efforts or services designed to address food issues

Thank you for your input and participation in the Community Health Needs Assessment process.

☐ Memorial Hermann Tomball Hospital (ER)☐ Other (please specify): _______

Appendix E. Community Resources

The following is a list of community resources mentioned by community input participants.

2-1-1 Texas City of Pasadena

A.C. Taylor Health Center Coastal Area Health Education Centers

AccessHealth (AHEC)

Acres Home Health Center Community Health Choice County Indigent Health Care Program AIDS Foundation Houston Covenant with Christ Community Service Aldine Health Center

American Heart Association Center

American Red Cross Cypress Health Center

Danny Jackson Health Center Amistad Community Health Center

Area Agency on Aging Dental Hygiene Clinic

Association for the Advancement of E. A. "Squatty" Lyons Health Center

Mexican Americans El Centro De Corazon

Avenue 360 Health & Wellness El Franco Lee Health Center Avenue CDC **Episcopal Health Foundation**

Baker-Ripley Family Services (Galveston County)

Bastrop Community Health Center Fort Bend Connect

Baylor Teen Health Clinic Fort Bend County Collaborative Information

Bayside Clinic System

Baytown Health Center Fort Bend County Health and Human

Bee Busy Wellness Center Services **Boat People SOS** Fort Bend County Sheriff's Office

Bo's Place Fort Bend Regional Council On Substance

Brighter Bites Ahuse

Fort Bend Seniors Meals on Wheels Brownsville Community Health Center Buffalo Bayou Partnership Fort Bend Women's Center

Burleson Family Medical Center Galveston County Health District

BVCAA - HealthPoint Galveston County Mental Health Deputies Can Do Houston Go Healthy Houston Task Force

Casa de Amigos Health Center GoodRx Casa El Buen Samaritano **Greater Houston Partnership**

Catholic Charities of the Archdiocese of Greater Houston Women's Chamber of Galveston-Houston-Fort Bend

Central Care Community Health **Gulf Coast Community Services Association**

Chambers Community Health Center **Gulf Coast Medical Foundation**

CHI St. Luke's Health Gulfgate Health Center

Child Advocates of Fort Bend Harmony House Respite Center

Children at Risk Harris Center Crisis Line **Christ Clinic** Harris County Public Health and

Christian Community Services Center (CCSC) **Environmental Services (HCPHES)**

CHRISTUS Health System Harris County Rides

Cities Changing Diabetes Harris County Social Services

City of Houston Harris Health System

City of Houston, Department of Parks and Harvest Green (Development)

Recreation **HEAL Initiative** Health Center of Southeast Texas Healthcare for the Homeless - Houston Healthy Living Matters (Harris County)

Helping Hands Food Pantry

HOPE Clinic (FQHC)
Houston Food Bank

Houston Health Department Houston Housing Authority

Houston Independent School District Houston Ryan White Planning Council

Houston Shifa Synott Clinic

Huntsville Memorial Hospital Clinic

IbnSina Foundation
India House Charity Clinic
Interfaith Community Clinic

Interfaith Ministries Meals on Wheels

Interfaith of The Woodlands

Kinder Institute

La Nueva Casa Health Center

Legacy Health (FQHC)

Leon County Community Health Center

Liberty County Sheriff's Office

Lone Star Family Heath Center (FQHC)

Long Branch Health Center Long Term Recovery Group

Los Barrios Unidos Community Clinic

Magnolia Health Center

Mamie George Community Center Martin Luther King Jr. Health Center

Medical Plus Supplies

MEHOP - Matagorda Episcopal Health

Outreach Program MET Head Start Methodist Hospital

Metrolift

Midtown Arts and Theater Center Houston

Montgomery County Food Bank Montgomery County Women's Center

Neighborhood Health Center

Northwest Assistance Ministry's Children's

Clinic

Northwest Health Center Nuestra Clinica del Valle

Pat McWaters Health Clinic- Second Mile

Mission

Patient Care Intervention Center (PCIC)
Pearland Community Health Center

Pediatric & Adolescent Health Center

Physicians at Sugar Creek Planned Parenthood

Prairie View A&M University Quentin Mease Hospital

Regional Association of Grant Makers

Regional Medical Center Robert Carrasco Health Clinic

RSVP Med Spa San Jose Clinic

Santa Maria Hostel, Inc. Settegast Health Center

Seva Clinic Charity Medical Facility

Sheltering Arm Senior Services Division of

Baker Ripley Shifa Clinic Smith Clinic

Social Security Administration

Spring Branch Community Health Center

St. Hope Foundation St. Vincent's House

Stephen F. Austin Community Health

Network

Strawberry Health Center Texana Behavioral Health

Texas A&M AgriLife Extension Service

Texas Children's Hospital

Texas Medicaid and CHIP Medical

Transportation Program
The Arc of Fort Bend County

The Beacon

The Harris Center for Mental Health and

IDD (formerly MHMRA)

The Rose

The Women's Home

Thomas Street Health Center

TOMAGWA Clinic

Tri-County Services Behavioral Healthcare

Uber Health

United Way of Brazoria County United Way of Greater Houston United Way Project Blueprint University of Houston - College of

Optometry

University of Texas Health - Dental University of Texas Health Services University of Texas Physicians

Urban Harvest

UTMB

Valbona Health Center
VCare Clinic
Vecino Health Center
West Chambers Medical Center (FQHC)
West Houston Assistance Ministries
(WHAM)
Whole Life Service Center
Women's Care Center
Workforce Solutions
YMCA of Greater Houston