



## **MEMORIAL HERMANN REHABILITATION HOSPITAL — KATY**

2019 Community  
Health Needs  
Assessment

MEMORIAL<sup>®</sup>  
HERMANN  
Rehabilitation Hospital  
Katy

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## Executive Summary

### Introduction & Purpose

Memorial Hermann Rehabilitation Hospital Katy (MH Rehab Katy) 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 MH Rehab Katy), 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 MH Rehab Katy'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		
<ul style="list-style-type: none"> <li>• Access to Health Services</li> <li>• Cancers</li> <li>• Children's Health</li> <li>• Diabetes</li> <li>• Economy</li> </ul>	<ul style="list-style-type: none"> <li>• Education</li> <li>• Food Insecurity</li> <li>• Heart Disease/Stroke</li> <li>• Lack of Health Insurance</li> <li>• Low-Income/Underserved</li> </ul>	<ul style="list-style-type: none"> <li>• Mental Health</li> <li>• Obesity</li> <li>• Older Adults/Aging</li> <li>• Substance Abuse</li> <li>• Transportation</li> </ul>

**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
<ul style="list-style-type: none"> <li>• Access to Healthcare</li> <li>• Emotional Well-Being</li> <li>• Food as Health</li> <li>• Exercise Is Medicine</li> </ul>

MH Rehab Katy will develop strategies to address these priorities in its 2019 Implementation Strategy.

## Introduction

### Memorial Hermann Rehabilitation Hospital Katy

Memorial Hermann Rehabilitation Hospital – Katy optimizes patient results through a customized approach at its 35-bed facility. The team of affiliated physicians and clinicians work with patients and their families to set goals tailored to their individual needs. These advanced treatment services have received accreditation from the Commission on Accreditation of Rehabilitation Facilities (CARF) and are backed by an affiliation with TIRR Memorial Hermann, a national leader in rehabilitation medicine and McGovern Medical School at UTHealth.

### 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 Rehabilitation Hospital Katy Service Area

The service area for MH Rehab Katy includes Austin, Fort Bend, Harris, and Waller counties in Texas. The geographic boundaries of the service area are shown in Figure 1. The zip codes within MH Rehab Katy’s primary service area are listed in Table 1 and represent approximately 75% of inpatient discharges (3.2% in Austin County, 15.8% in Fort Bend County, 52.3% in Harris County, and 2.4% in Waller County).

Figure 1. MH Rehab Katy Service Area

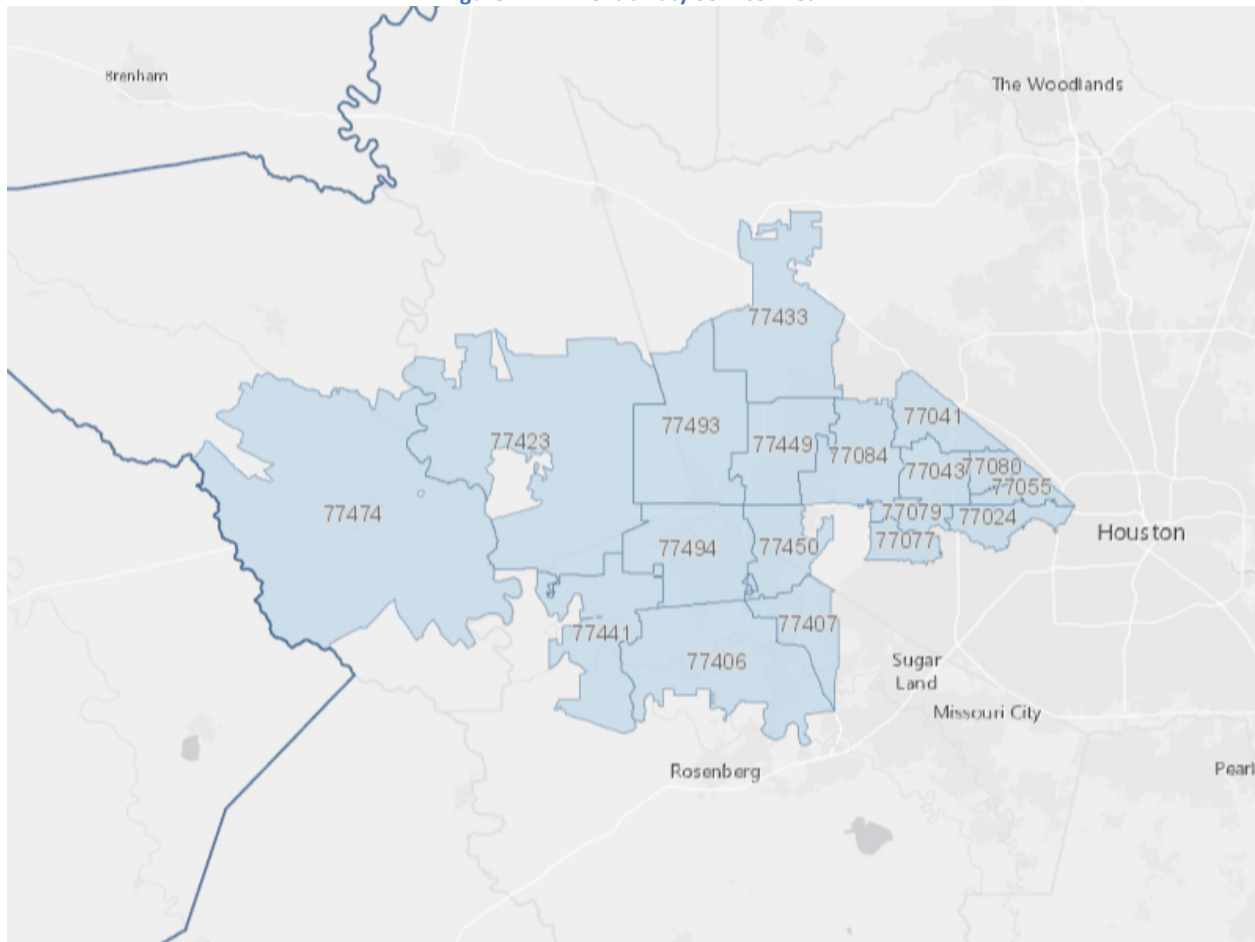


Table 1. Proportion of Patient Population Served by Zip Code

ZIP Code	County	Percent of Patient Population
<b>77450</b>	Harris	11.5%
<b>77449</b>	Harris	11.2%
<b>77494</b>	Fort Bend	10.5%
<b>77084</b>	Harris	7.3%
<b>77493</b>	Harris	5.2%
<b>77077</b>	Harris	3.4%

ZIP Code	County	Percent of Patient Population
<b>77474</b>	Austin	3.2%
<b>77079</b>	Harris	2.7%
<b>77433</b>	Harris	2.7%
<b>77423</b>	Waller	2.4%
<b>77024</b>	Harris	2.0%
<b>77407</b>	Fort Bend	2.0%
<b>77043</b>	Harris	1.9%
<b>77080</b>	Harris	1.7%
<b>77406</b>	Fort Bend	1.7%
<b>77441</b>	Fort Bend	1.6%
<b>77041</b>	Harris	1.4%
<b>77055</b>	Harris	1.3%

### Consultants

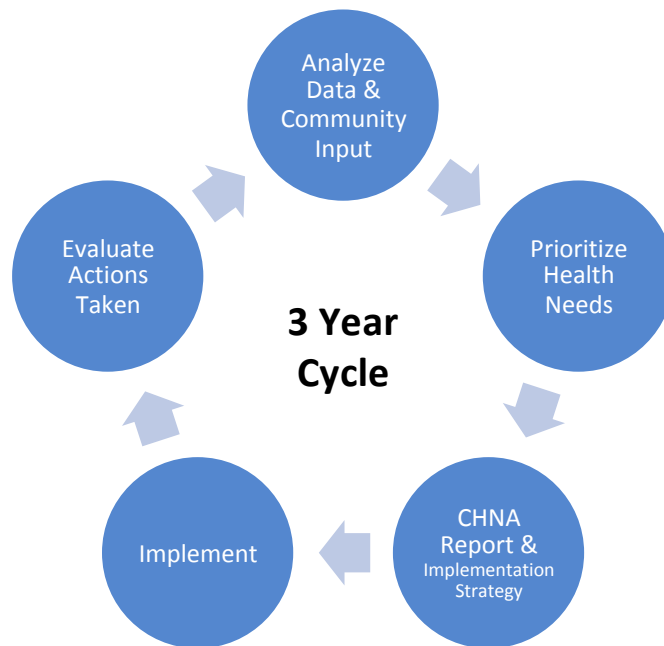
Memorial Hermann Health System commissioned Conduent Healthy Communities Institute (HCI) to conduct its 2019 Community Health Needs Assessment. HCI works with clients across the nation to drive community health outcomes by assessing needs, developing focused strategies, identifying appropriate intervention 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

MH Rehab Katy'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 MH Rehab Katy 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. MH Rehab Katy'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/katy/community-health-needs-assessment-katy-rehab/>. 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 MH Rehab Katy's service area.

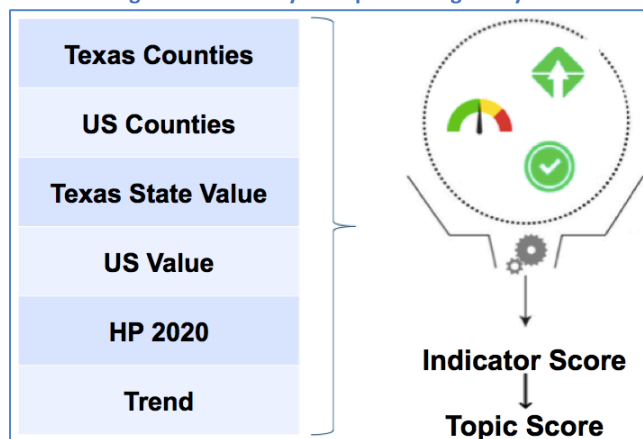
### Secondary Data Sources & Analysis

Secondary data used for this assessment were collected and analyzed from HCI's community indicator database. This database, maintained by researchers and analysts at HCI, includes over 100 community indicators from at least 15 state and national data sources. HCI 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

HCI's Data Scoring Tool<sup>®</sup> 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 23<sup>rd</sup> through November 27<sup>th</sup> 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.

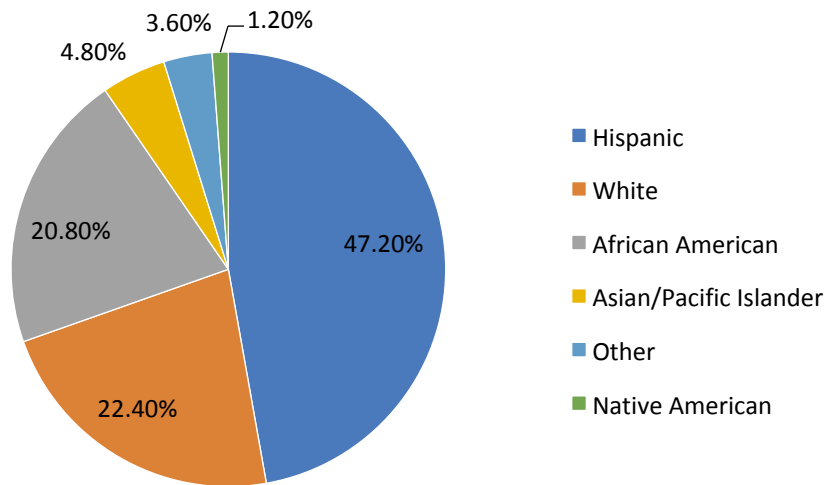
Table 2. Community Survey Outreach

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

<b>HealthCenter, 77080</b>	Branch and West Houston.
<b>Wesley Community Center, 77009</b>	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.
<b>Complete Communities, Houston</b>	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].
<b>Healthy Living Matters</b>	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]
<b>Greater Northside Health Collaborative</b>	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.

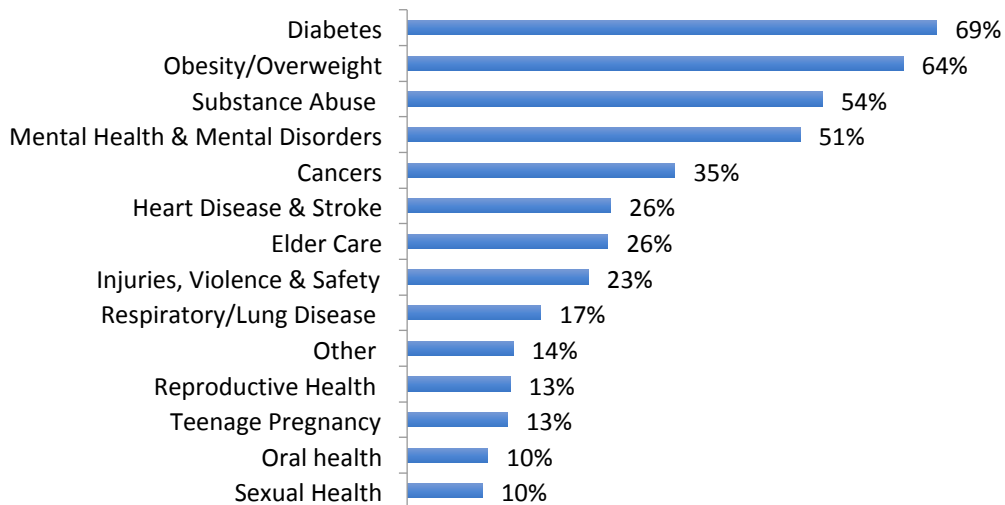
The race/ethnicity make-up of survey respondents is shown in Figure 4. The largest proportion of respondents identified as Hispanic/Latino (47.2%), 22.8% as White, 20.4% as Black/African American, and the remaining 9.6% of respondents as Asian/Pacific Islander, Other and Native American.

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	<i>Included in Multiple Counties</i>
Brazoria	3
Chambers	2

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

*\*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, Dedoose<sup>1</sup>. 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 also limited by data availability, where indicator data varies based on the population groups and service areas being analyzed.

<sup>1</sup> 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](http://www.dedoose.com)



## 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

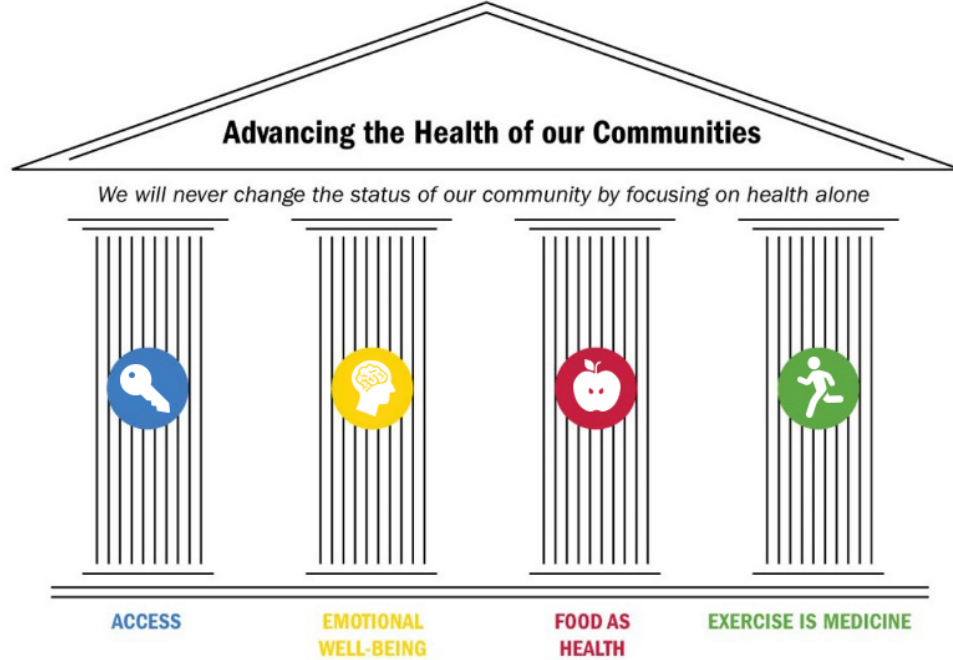
Significant Health Need	Impact on Community	Impact on Subgroups	Inadequate Resources	High Risk	Average Score
<b>Obesity (Exercise, Nutrition and Weight)</b>	4.69	4.00	3.19	4.50	4.09
<b>Mental Health</b>	4.44	3.44	4.50	3.75	4.03
<b>Diabetes</b>	4.50	4.00	3.25	4.19	3.98
<b>Lack of Health Insurance</b>	4.31	4.19	3.38	4.00	3.97
<b>Low-Income/Underserved</b>	4.19	4.19	3.44	4.00	3.95
<b>Heart Disease/ Stroke</b>	4.44	3.82	2.81	4.44	3.88
<b>Substance Abuse</b>	3.56	3.88	3.63	4.19	3.81
<b>Access to Health Services</b>	4.00	3.94	3.25	3.88	3.77
<b>Older Adults and Aging</b>	4.38	3.81	3.13	3.75	3.76
<b>Food Insecurity</b>	3.88	4.00	3.44	3.50	3.70
<b>Cancers</b>	4.19	3.19	3.00	4.31	3.67
<b>Education</b>	3.88	3.81	3.00	3.13	3.45
<b>Transportation</b>	4.00	3.88	2.81	3.00	3.42
<b>Children's Health</b>	4.00	3.50	3.00	3.19	3.42
<b>Economy</b>	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;
2. 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).

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 MH Rehab Katy’s service area, including Austin, Fort Bend, Harris, and Waller counties. 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 MH Rehab Katy’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, the 4 counties in MH Rehab Katy’s service area had populations of 29,786 (Austin County), 764,828 (Fort Bend County), 4,652,980 (Harris County), and 51,307 (Waller County). Figure 7 illustrates the population size by county and Table 6 by zip code. The most populous zip codes in MH Rehab Katy’s service area are 77449 (Harris County), 77494 (Fort Bend County), and 77084 (Harris County).

Figure 7. Population by County

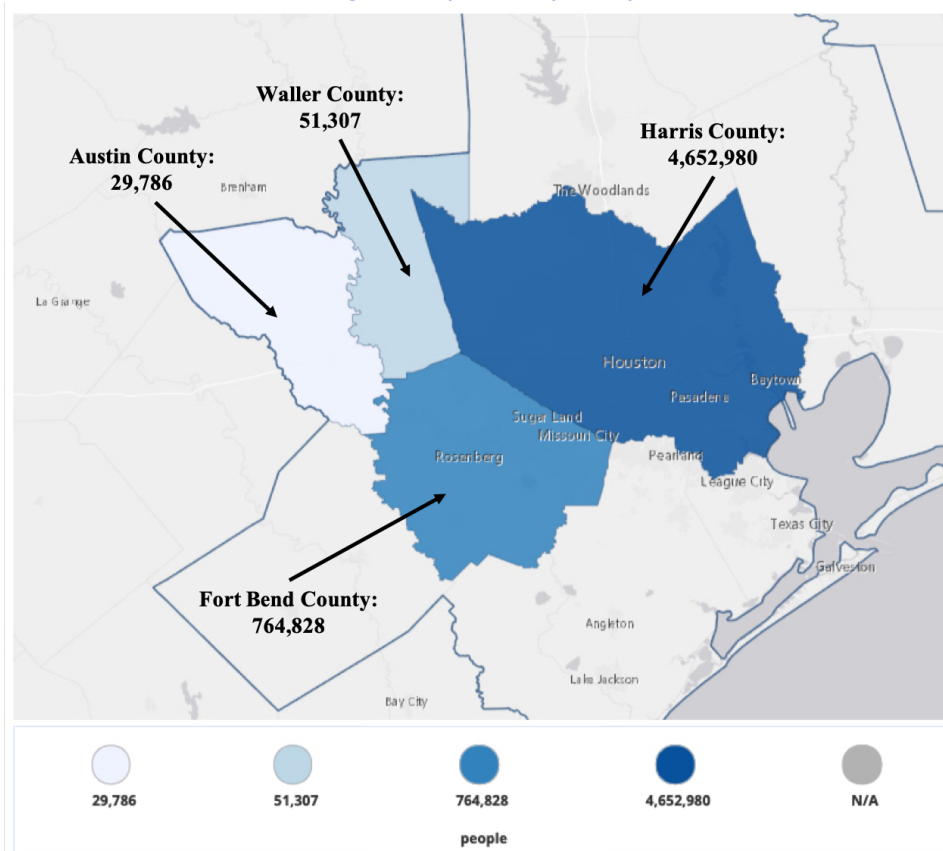


Table 6. Population by Zip Code

ZIP Code	County	Total Population Estimate
77450	Harris	74,631

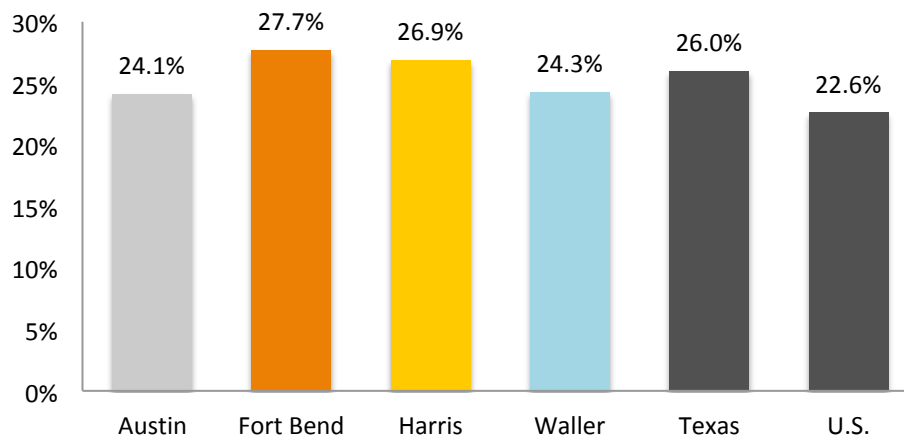
ZIP Code	County	Total Population Estimate
77449	Harris	119,204
77494	Fort Bend	105,854
77084	Harris	104,582
77493	Harris	29,984
77077	Harris	57,757
77474	Austin	12,993
77079	Harris	33,577
77433	Harris	75,008
77423	Waller	11,551
77024	Harris	38,110
77407	Fort Bend	48,157
77043	Harris	25,838
77080	Harris	45,665
77406	Fort Bend	41,008
77441	Fort Bend	9,919
77041	Harris	35,372
77055	Harris	45,003

American Community Survey, 2013-2017

## Age

Figure 8 shows MH Rehab Katy's service area population that is under 18 years old. As shown, 24.1% of Austin County's population is under 18 and 24.3% of Waller County's population is under 18. Fort Bend and Harris counties have higher proportions of residents under 18 (27.7% and 26.9%, respectively) compared to the state and national values.

Figure 8. Population Under 18



As shown in Figure 9, Austin County has a bigger proportion of older adults compared to Texas and the U.S. Fort Bend, Harris, and Waller counties all have smaller proportions of older adults compared to both the state and national values.

Figure 9. Population Over 65

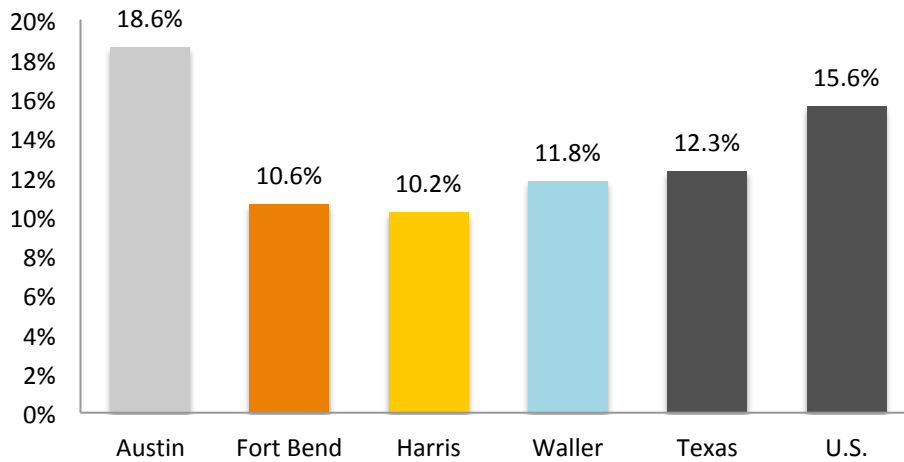
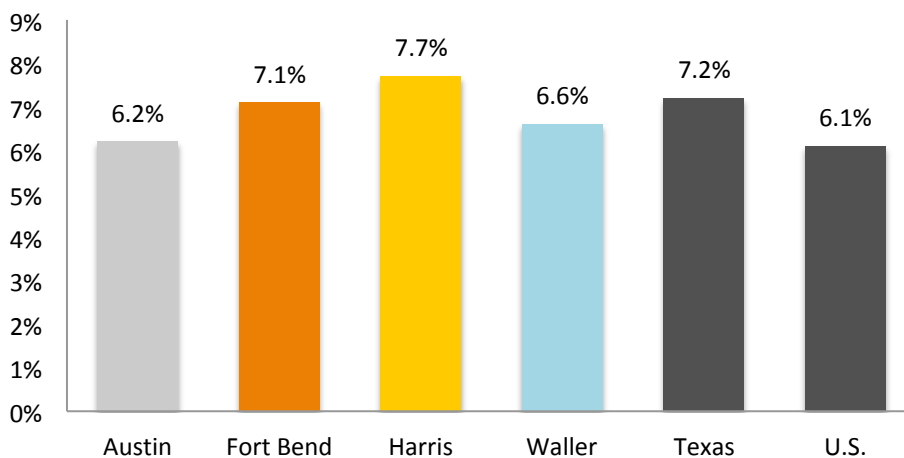


Figure 10 shows that Harris County has a larger proportion of residents under 5 years old compared to both Texas and the U.S. Austin County has the lowest percentage (6.2%) of the four counties in the service area.

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.

A larger number of residents in Austin, Fort Bend, and Waller counties identify as White, non-Hispanic while in Harris County there are a larger number of residents who identify as Hispanic or Latino. Figure 11 shows the racial composition of residents in Austin County with 63.3% of residents identifying as White, non-Hispanic; 25.9% as Hispanic or Latino (of any race); 8.9% as

Black or African American; 0.2% as Asian; and 1.7% as American Indian and Alaska Native, Native Hawaiian and Other Pacific Islander, “Some other race”, and/or “Two or more races”.

Figure 11. Race/Ethnicity in Austin County

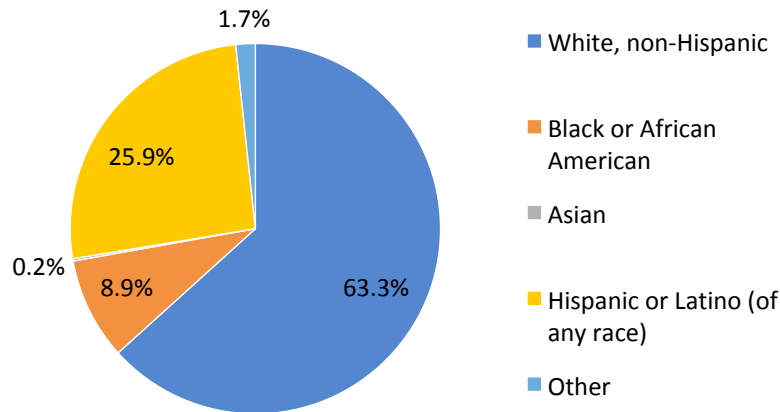


Figure 12 shows the racial composition of residents in Fort Bend County with 34.4% of residents identifying as White, non-Hispanic; 24.2% as Hispanic or Latino (of any race); 20.2% as Black or African American; 19.2% as Asian; and 2% as American Indian and Alaska Native, Native Hawaiian and Other Pacific Islander, “Some other race”, and/or “Two or more races”.

Figure 12. Race/Ethnicity in Fort Bend County

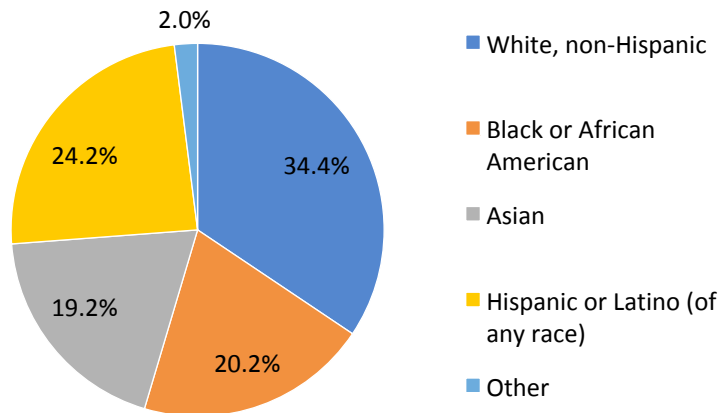


Figure 13 shows the racial composition of residents in Harris County with 42.2% of residents identifying as Hispanic or Latino (of any race); 30.6% as White; 18.5% as Black or African American; 6.8% as Asian; and 1.9% as American Indian and Alaska Native, Native Hawaiian and Other Pacific Islander, “Some other race”, and/or “Two or more races”.

Figure 13. Race/Ethnicity in Harris County

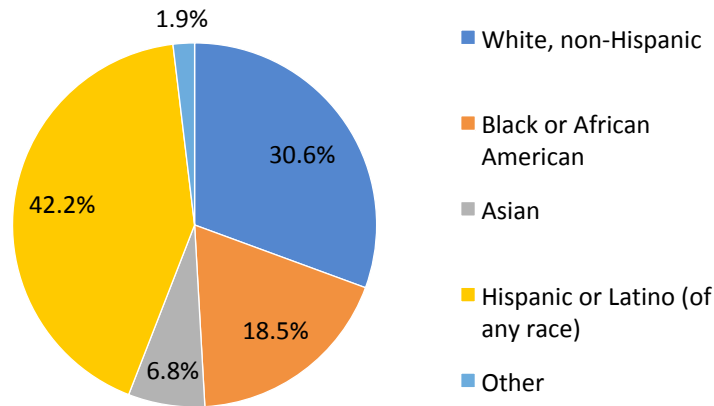
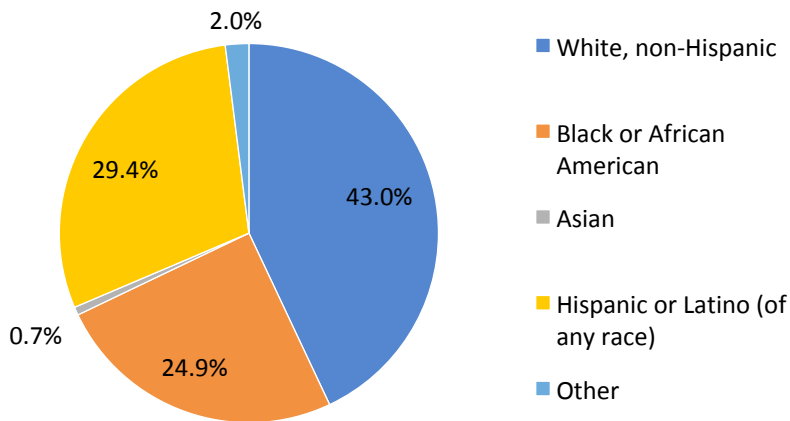


Figure 14 shows the racial composition of residents in Waller County with 43.0% of residents identifying as White, non-Hispanic; 29.4% as Hispanic or Latino (of any race); 24.9% as Black or African American; 0.7% as Asian; and 2% as American Indian and Alaska Native, Native Hawaiian and Other Pacific Islander, “Some other race”, and/or “Two or more races”.

Figure 14. Race/Ethnicity in Waller 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 15. Language Other than English Spoken at Home

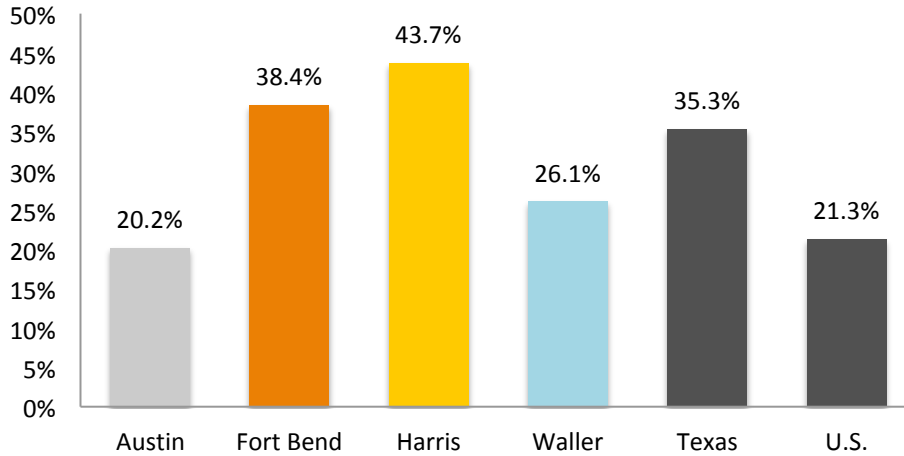


Figure 15 shows the proportion of residents in Austin, Fort Bend, Harris, and Waller counties who speak a language other than English at home. As shown, 43.7% of residents in Harris County and 20.2% of residents in Austin County speak a language other than English as compared to 35.3% in Texas and 21.3% 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

ZIP Code	County	Difficulty Speaking English
77450	Harris	10.8%
77449	Harris	17.2%
77494	Fort Bend	8.9%
77084	Harris	18.5%
77493	Harris	10.8%
77077	Harris	12.5%
77474	Austin	10.8%
77079	Harris	10.9%
77433	Harris	9.8%
77423	Waller	18.8%
77024	Harris	6.9%
77407	Fort Bend	14.6%
77043	Harris	24.8%
77080	Harris	37.1%
77406	Fort Bend	3.4%
77441	Fort Bend	2.1%
77041	Harris	21.9%
77055	Harris	30.2%
Austin	--	8.8%

<b>Fort Bend</b>	--	<b>13.0%</b>
<b>Harris</b>	--	<b>20.4%</b>
<b>Waller</b>	--	<b>12.9%</b>
<b>Texas</b>	--	<b>14.1%</b>

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 other three counties and the state of Texas (14.1%). In zip codes 77080 and 77055, over a third of residents have difficulty speaking English.

### Social and Economic Determinants of Health

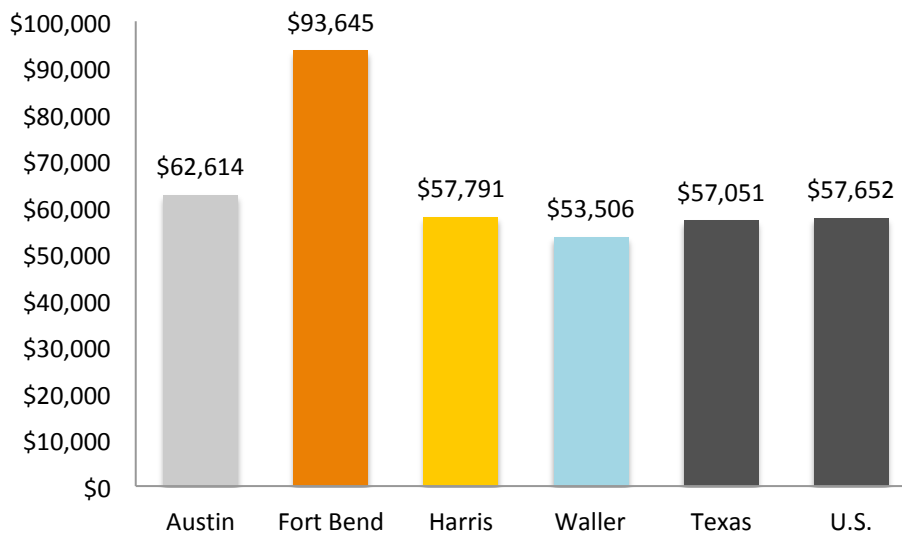
This section explores the economic, environmental, and social determinants of health in Memorial Hermann Katy’s service area. Social determinants are the conditions in which people are born, grow, work, live, and age, and the wider set of forces and systems shaping the conditions of daily life.

#### 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 16 compares the median household income values for all four counties in MH Rehab Katy’s service area to the median household income value for Texas and the United States. Fort Bend County’s median household income of \$93,645 is greater than that of Austin, Harris, and Waller counties. Harris County’s median household income is similar to the state and national values.

Figure 16. Median Household Income



As shown in Table 8, MH Rehab Katy’s service area reveals a range in median household income. Nine out of the top 10 zip codes for inpatient discharges have a median household

income higher than the state of Texas (\$57,051); zip codes 77494, 77433 and 77450 have values above \$100,000. On the other hand, zip code 77080 in Harris County has a median household income of \$44,386, which is approximately \$13,000 lower than the state value.

**Table 8. Median Household Income by Zip Code**

ZIP Code	County	Median Household Income
<b>77450</b>	Harris	\$101,240
<b>77449</b>	Harris	\$72,397
<b>77494</b>	Fort Bend	\$137,600
<b>77084</b>	Harris	\$65,617
<b>77493</b>	Harris	\$85,865
<b>77077</b>	Harris	\$66,587
<b>77474</b>	Austin	\$63,152
<b>77079</b>	Harris	\$98,774
<b>77433</b>	Harris	\$103,773
<b>77423</b>	Waller	\$52,019
<b>77024</b>	Harris	\$118,561
<b>77407</b>	Fort Bend	\$96,947
<b>77043</b>	Harris	\$60,043
<b>77080</b>	Harris	\$44,386
<b>77406</b>	Fort Bend	\$114,696
<b>77441</b>	Fort Bend	\$160,162
<b>77041</b>	Harris	\$79,503
<b>77055</b>	Harris	\$52,269
<b>Austin</b>	--	<b>\$62,614</b>
<b>Fort Bend</b>	--	<b>\$93,645</b>
<b>Harris</b>	--	<b>\$57,791</b>
<b>Waller</b>	--	<b>\$53,506</b>
<b>Texas</b>	--	<b>\$57,051</b>

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 17 shows the proportion of residents living below the poverty level in Austin, Fort Bend, Harris, and Waller counties compared to the state of Texas and the U.S. The percentage of residents living below the poverty level is 16.8% for Harris County and 18% for Waller County, both higher than the national value (14.6%) and the state value (16%). In Fort Bend County, 8.1% of residents live below the poverty value, which is lower than the state and national values and less than half the value of Waller County.

Figure 17. People Living Below Poverty Level

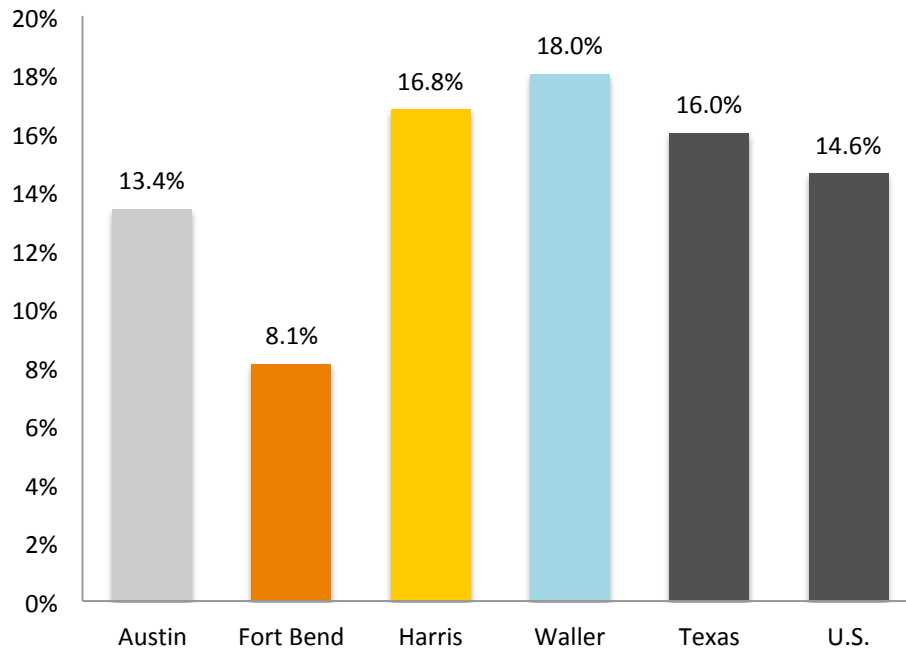


Figure 18 shows the proportion of residents living below the poverty level by race/ethnicity. In Fort Bend County, 14.8% of residents identifying as Hispanic or Latino live below the poverty level, compared to 3.8% White, 5.9% Asian and 9.4% Black or African American residents. In Harris County, 22.6% 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 residents living below the poverty level in Austin and Waller counties (27.2% and 35.7%, respectively) is much higher than the state value (21.4%). In Austin County, the proportion of Hispanic or Latino residents living below the poverty level (27.7%) is greater than the values of the other counties, Texas and the U.S.

Figure 18. People Living Below Poverty Level by Race/Ethnicity

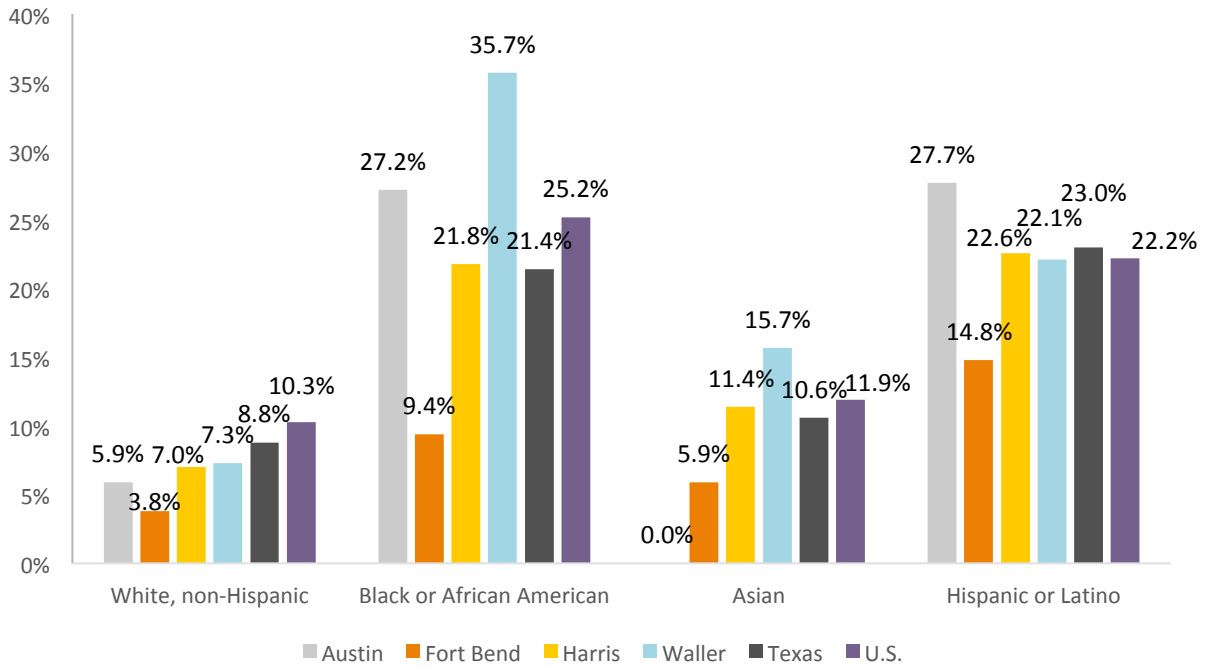
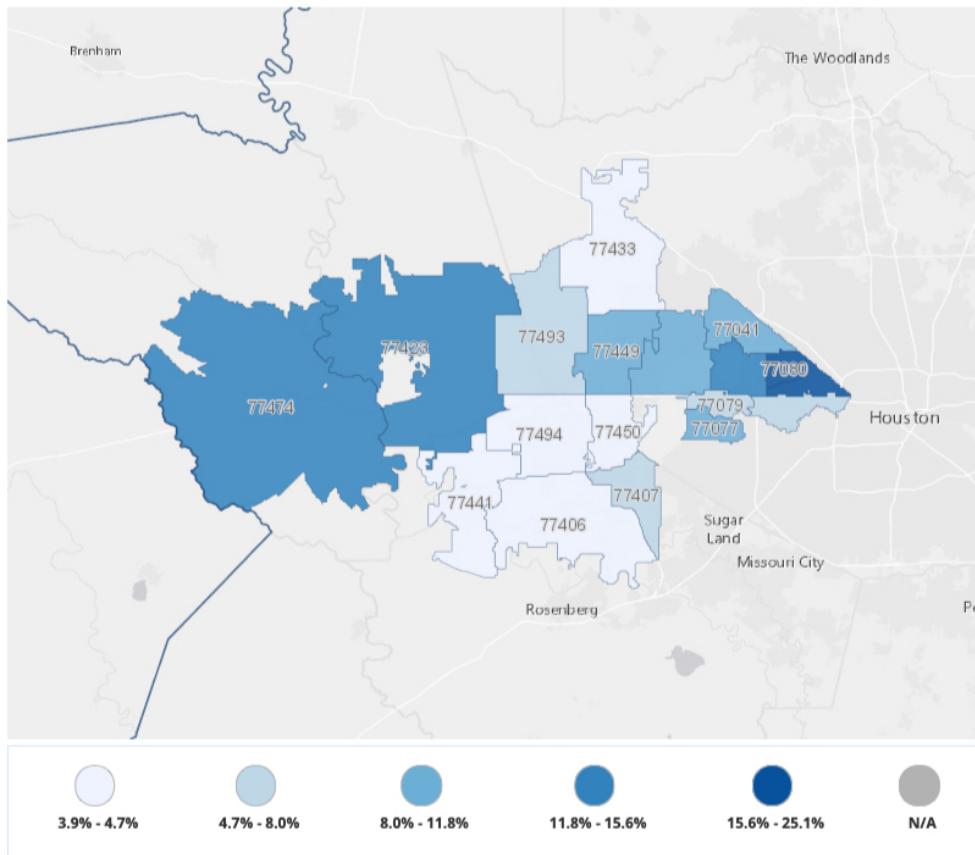


Figure 19. People Living Below Poverty Level by Zip Code



Poverty rates are over twice as high in Harris County (16.8%) and Waller County (18.0%) compared to Fort Bend County (8.1%). As shown in Figure 19 and Table 9, within MH Rehab Katy’s service area, the zip codes with the highest poverty rates are located in Harris County. One quarter of residents in zip code 77080 and almost 23% of residents in zip code 77055 are living below the poverty level. Within the top zip codes for inpatient discharges, zip code 77084 has close to 12% of residents living below the poverty level.

**Table 9. People Living Below Poverty Level by Zip Code**

ZIP Code	County	People Living Below Poverty Level
<b>77450</b>	Harris	4.6%
<b>77449</b>	Harris	9.5%
<b>77494</b>	Fort Bend	3.9%
<b>77084</b>	Harris	11.8%
<b>77493</b>	Harris	5.9%
<b>77077</b>	Harris	10.4%
<b>77474</b>	Austin	15.6%
<b>77079</b>	Harris	8.0%
<b>77433</b>	Harris	4.4%
<b>77423</b>	Waller	14.5%
<b>77024</b>	Harris	5.8%
<b>77407</b>	Fort Bend	6.4%
<b>77043</b>	Harris	14.6%
<b>77080</b>	Harris	25.1%
<b>77406</b>	Fort Bend	3.9%
<b>77441</b>	Fort Bend	4.7%
<b>77041</b>	Harris	10.2%
<b>77055</b>	Harris	22.8%
<b>Austin</b>	--	<b>13.4%</b>
<b>Fort Bend</b>	--	<b>8.1%</b>
<b>Harris</b>	--	<b>16.8%</b>
<b>Waller</b>	--	<b>18.0%</b>
<b>Texas</b>	--	<b>16.0%</b>

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 MH Rehab Katy’s service area. Both Fort Bend and Harris counties have higher proportions of households with children receiving SNAP (73.5% and 67.7%, respectively)

compared to the state of Texas (64.3%). Zip codes 77084, 77493 and 77080 (all in Harris County) have over 80% of households with children receiving SNAP.

**Table 10. Households with Children Receiving SNAP by Zip Code**

ZIP Code	County	Households with Children Receiving SNAP
<b>77450</b>	Harris	73.8%
<b>77449</b>	Harris	77.4%
<b>77494</b>	Fort Bend	57.2%
<b>77084</b>	Harris	85.6%
<b>77493</b>	Harris	84.7%
<b>77077</b>	Harris	62.0%
<b>77474</b>	Austin	62.7%
<b>77079</b>	Harris	79.2%
<b>77433</b>	Harris	69.5%
<b>77423</b>	Waller	59.7%
<b>77024</b>	Harris	71.4%
<b>77407</b>	Fort Bend	73.5%
<b>77043</b>	Harris	77.3%
<b>77080</b>	Harris	81.3%
<b>77406</b>	Fort Bend	69.2%
<b>77441</b>	Fort Bend	72.2%
<b>77041</b>	Harris	60.6%
<b>77055</b>	Harris	72.4%
<b>Austin</b>	--	<b>58.3%</b>
<b>Fort Bend</b>	--	<b>73.5%</b>
<b>Harris</b>	--	<b>67.7%</b>
<b>Waller</b>	--	<b>58.7%</b>
<b>Texas</b>	--	<b>64.3%</b>

American Community Survey, 2013-2017

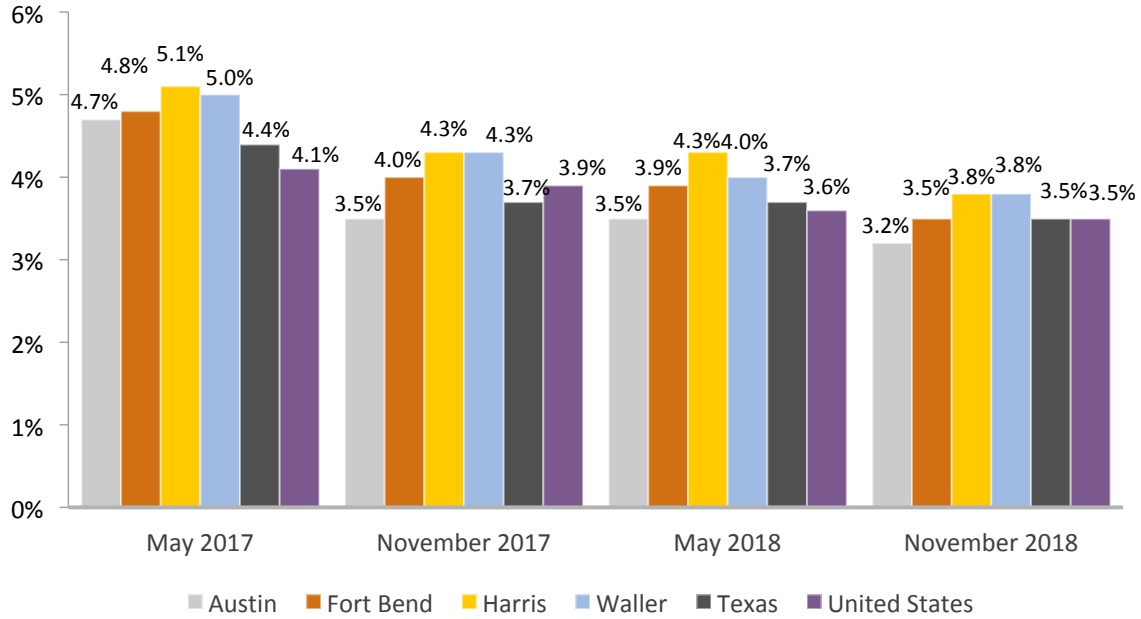
### Unemployment

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 20 displays the rate of unemployment in Austin, Fort Bend, Harris, and Waller counties between May 2017 and November 2018. In all four counties, the unemployment rate has exhibited a decrease. In November 2018, the Fort Bend County rate was equivalent to the state

and national rate. However, the unemployment rates in Harris County (3.8%) and Waller County (3.8%) remain higher than Texas and the U.S.

Figure 20. 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 21 displays the proportion of residents in Austin, Fort Bend, Harris, and Waller counties who are 25 years and older with at least a high school degree. Nearly 90% of residents 25 years and older in Fort Bend County have at least a high school degree. Austin County (82.2%), Harris County (80.5%), and Waller County (78.3%) all have lower values than the U.S. (87.3%) and Texas (82.8%).



Figure 21. People 25+ with a High School Degree or Higher

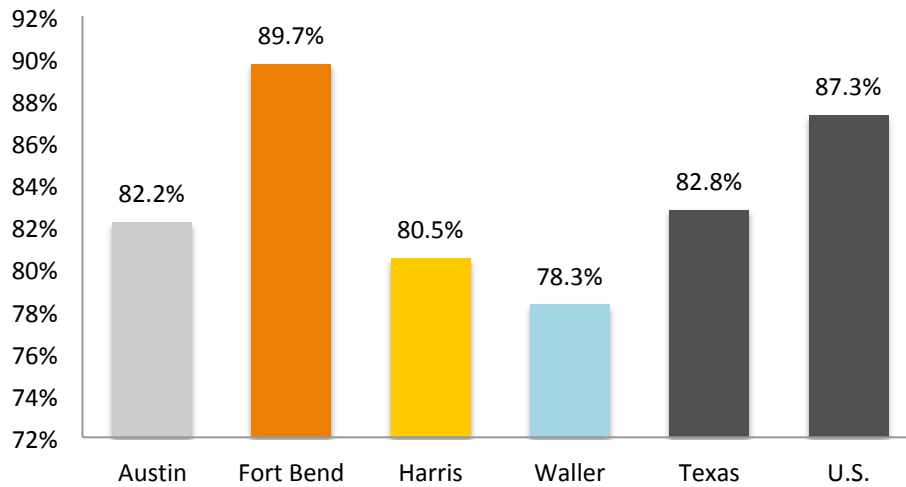


Figure 22 shows the proportion of residents in Austin, Fort Bend, Harris, and Waller counties who are 25 years and older with a bachelor’s degree or higher. With nearly 46% of residents 25 and older having a bachelor’s degree in Fort Bend, this county has an economic advantage compared to the other three counties in the service area. The proportion of residents 25 and older with a bachelor’s degree in Austin County (22.3%) and Waller County (19.2%) are both lower than that of Texas (28.7%) and the U.S. (30.9%).

Figure 22. People 25+ with a Bachelor's Degree or Higher

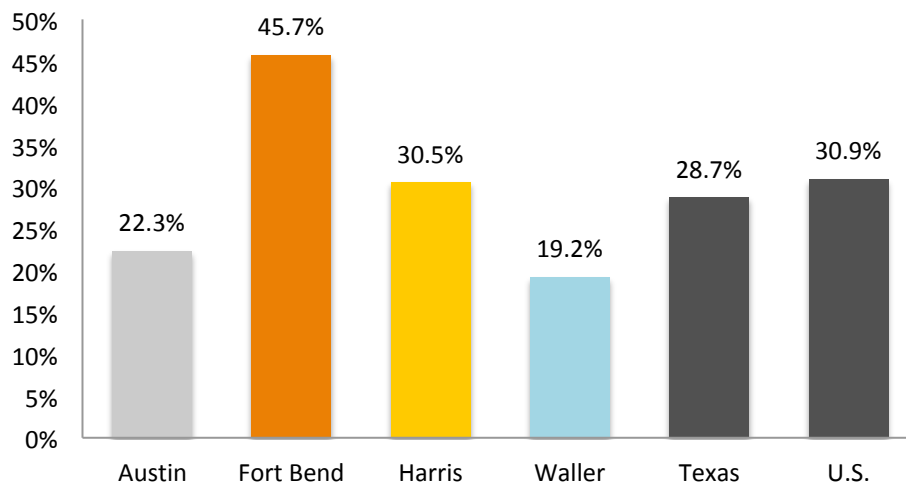


Table 11 displays the educational attainment indicators for residents 25 years and older by zip code in MH Rehab Katy’s service area. For high school degree attainment, the zip code with the highest rate is 77024 (96.9%) in Harris County and the zip code with the lowest rate is 77080 (67.6%) also in Harris County. For attainment of a bachelor’s degree, the zip code with the highest rate is 77024 (75.8%) in Harris County and the zip code with the lowest rate is 77080 (17.3%) in Harris County. The zip codes with highest proportions of MH Rehab Katy’s inpatient

discharges, zip codes 77450 and 77449, have more than 84% of people 25 years and older with a high school degree. However, in zip code 77449, only approximately 25% of residents 25 years and older have a bachelor's degree or higher.

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

ZIP Code	County	High School Degree or Higher	Bachelor's Degree or Higher
<b>77450</b>	Harris	94.3%	52.5%
<b>77449</b>	Harris	84.3%	25.8%
<b>77494</b>	Fort Bend	96.4%	61.7%
<b>77084</b>	Harris	84.8%	28.8%
<b>77493</b>	Harris	87.1%	30.1%
<b>77077</b>	Harris	95.6%	54.6%
<b>77474</b>	Austin	79.6%	18.2%
<b>77079</b>	Harris	93.4%	64.3%
<b>77433</b>	Harris	91.7%	47.3%
<b>77423</b>	Waller	76.1%	18.6%
<b>77024</b>	Harris	96.9%	75.8%
<b>77407</b>	Fort Bend	93.7%	48.7%
<b>77043</b>	Harris	79.0%	34.7%
<b>77080</b>	Harris	67.6%	17.3%
<b>77406</b>	Fort Bend	94.1%	44.1%
<b>77441</b>	Fort Bend	94.3%	59.2%
<b>77041</b>	Harris	83.3%	34.1%
<b>77055</b>	Harris	72.5%	33.9%
<b>Austin</b>	--	<b>82.2%</b>	<b>22.3%</b>
<b>Fort Bend</b>	--	<b>89.7%</b>	<b>45.7%</b>
<b>Harris</b>	--	<b>80.5%</b>	<b>30.5%</b>
<b>Waller</b>	--	<b>78.3%</b>	<b>19.2%</b>
<b>Texas</b>	--	<b>82.8%</b>	<b>28.7%</b>

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 23. Households Without a Vehicle by Zip Code

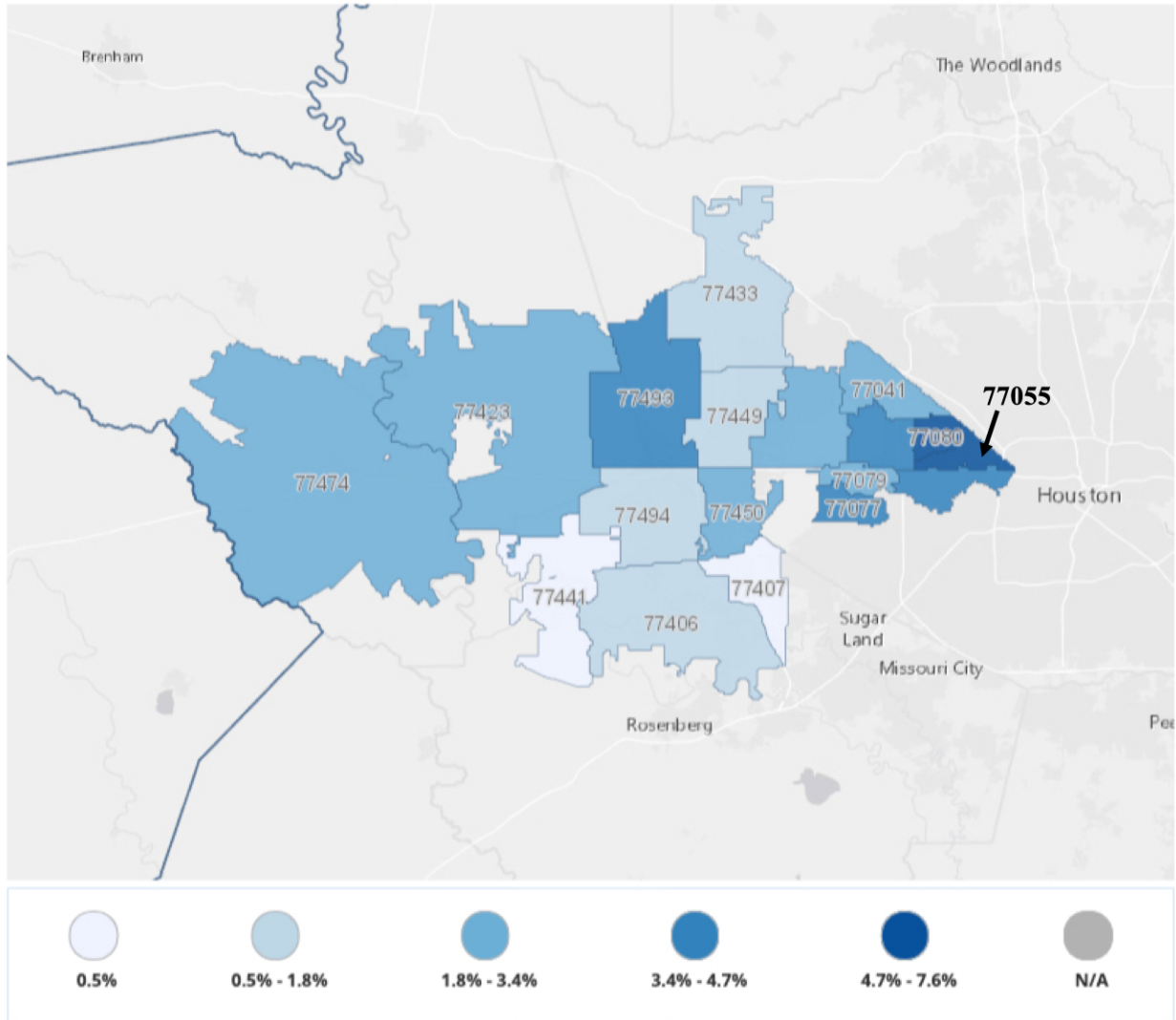


Figure 23 shows the percentage of households without a vehicle. As shown, over 6% of households in zip codes 77055 and 77080 do not have a vehicle.

Table 12. Modes of Commuting by Zip Code

ZIP Code	County	Commute by Walking	Commute by Biking	Commute by Driving Alone	Commute by Public Transportation
77450	Harris	0.4%	0.2%	80.4%	2.2%
77449	Harris	0.2%	0.2%	81.5%	1.3%
77494	Fort Bend	0.3%	0.1%	78.9%	2.4%
77084	Harris	1.5%	0.0%	81.3%	1.6%
77493	Harris	0.8%	0.0%	80.8%	1.1%
77077	Harris	1.4%	0.6%	83.8%	2.1%
77474	Austin	1.3%	0.0%	82.9%	0.1%
77079	Harris	1.2%	0.2%	81.9%	3.5%

ZIP Code	County	Commute by Walking	Commute by Biking	Commute by Driving Alone	Commute by Public Transportation
<b>77433</b>	Harris	0.2%	0.1%	83.7%	1.5%
<b>77423</b>	Waller	1.3%	0.4%	81.0%	1.4%
<b>77024</b>	Harris	1.8%	0.0%	84.8%	0.7%
<b>77407</b>	Fort Bend	0.3%	0.0%	79.9%	1.5%
<b>77043</b>	Harris	1.5%	0.4%	81.7%	1.8%
<b>77080</b>	Harris	3.1%	0.7%	71.5%	2.7%
<b>77406</b>	Fort Bend	0.3%	0.0%	82.6%	0.9%
<b>77441</b>	Fort Bend	1.1%	0.0%	75.6%	2.2%
<b>77041</b>	Harris	0.7%	0.0%	85.3%	1.1%
<b>77055</b>	Harris	2.9%	0.5%	70.4%	4.0%
<b>Austin</b>	--	<b>1.9%</b>	<b>0.0%</b>	<b>81.6%</b>	<b>0.1%</b>
<b>Fort Bend</b>	--	<b>0.5%</b>	<b>0.1%</b>	<b>82.0%</b>	<b>1.6%</b>
<b>Harris</b>	--	<b>1.5%</b>	<b>0.3%</b>	<b>79.3%</b>	<b>2.7%</b>
<b>Waller</b>	--	<b>3.9%</b>	<b>0.2%</b>	<b>78.7%</b>	<b>0.9%</b>
<b>Texas</b>	--	<b>1.6%</b>	<b>0.3%</b>	<b>80.5%</b>	<b>1.5%</b>

American Community Survey, 2013-2017

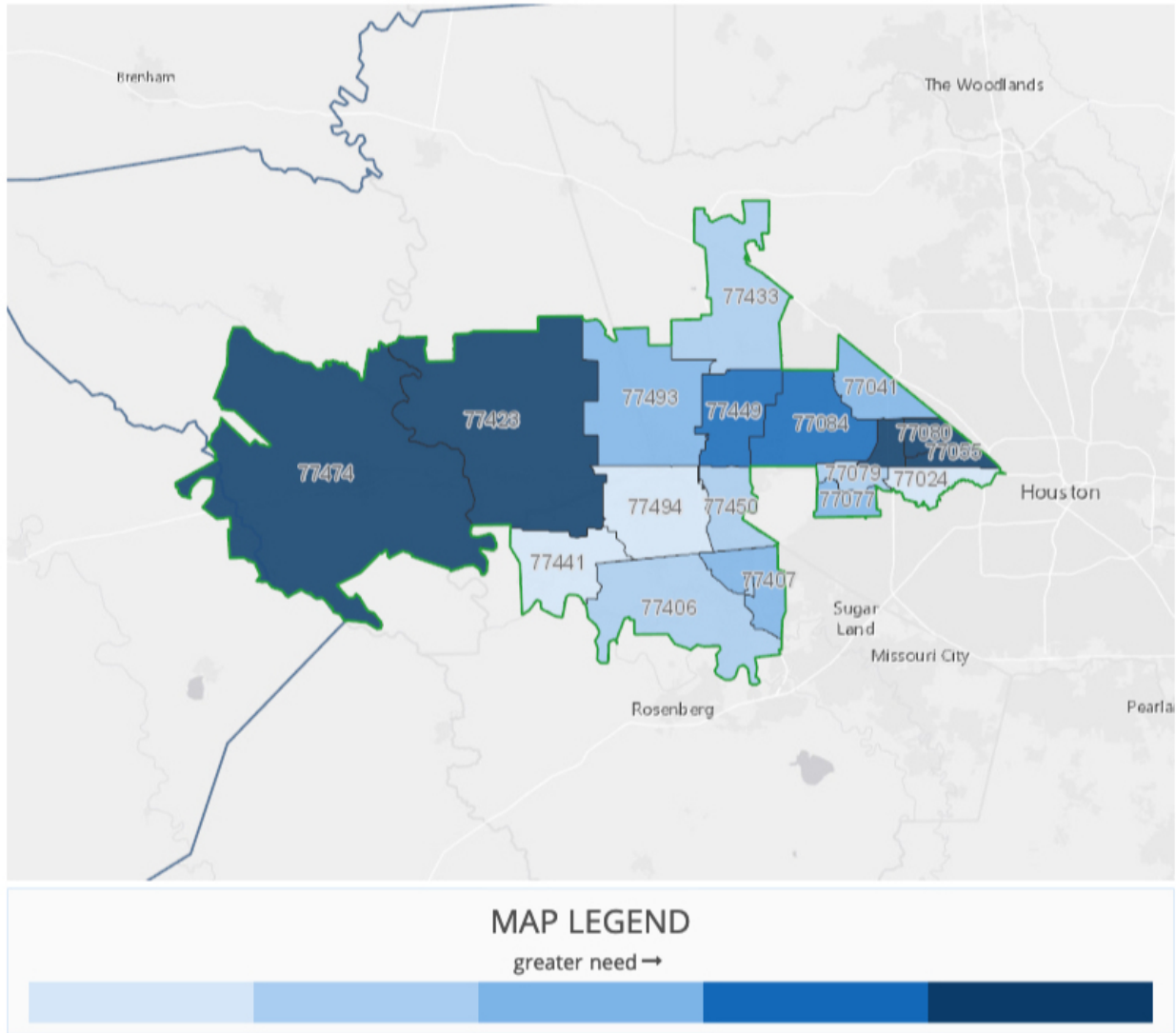
Table 12 displays the different modes of commuting used by residents of Austin, Fort Bend, Harris, and Waller counties. In Fort Bend County, less than 1% of the population commutes by walking or biking. More residents in Waller County commute by walking (3.9%) than the other three counties. The majority of residents (around 80%) in each county of the service area commute by driving alone. Considering the top zip codes for inpatient discharges within MH Rehab Katy's service area, zip codes 77494, 77450 and 77077 have the highest proportions of residents commuting by public transportation (over 2%). In zip code 77055, 4% of residents commute by public transportation. Public transportation is used by Harris County residents (2.7%) more so than the other three counties, perhaps indicative of differences in public transportation infrastructure.

### 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 24. SocioNeeds Index by Zip Code



As shown in Figure 24 and Table 13, the zip codes within MH Rehab Katy’s service area that have the highest SocioNeeds Index values are in Harris County; zip code 77080 has a value of 95.6 and zip code 77055 has a value of 82.6. The zip codes with largest proportion of inpatient discharges at MH Rehab Katy, zip codes 77450 and 77449, have SocioNeeds Index values of 9.9 and 53.4, respectively.

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

ZIP Code	County	SocioNeeds Index Value
<b>77080</b>	Harris	95.6
<b>77055</b>	Harris	82.6
<b>77423</b>	Waller	71.4
<b>77043</b>	Harris	70.7
<b>77474</b>	Austin	66.5
<b>77449</b>	Harris	53.4

ZIP Code	County	SocioNeeds Index Value
<b>77084</b>	Harris	49.0
<b>77041</b>	Harris	29.3
<b>77493</b>	Harris	26.8
<b>77407</b>	Fort Bend	22.3
<b>77077</b>	Harris	21.4
<b>77450</b>	Harris	9.9
<b>77433</b>	Harris	8.4
<b>77406</b>	Fort Bend	5.5
<b>77079</b>	Harris	5.0
<b>77494</b>	Fort Bend	2.7
<b>77441</b>	Fort Bend	1.8
<b>77024</b>	Harris	1.3

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). The following tables display the data scores for Health and Quality of Life Topics for Austin, Fort Bend, Harris, and Waller counties.

**Table 14. Austin County Topic Scores**

Topic	Score
Access to Health Services	1.97
Transportation	1.77
Heart Disease & Stroke	1.69
Maternal, Fetal & Infant Health	1.67
Education	1.48
Mental Health & Mental Disorders	1.48
Exercise, Nutrition, & Weight	1.45
Immunizations & Infectious Diseases	1.43
Social Environment	1.42
Children's Health	1.40
Older Adults & Aging	1.40
Economy	1.32
Environment	1.26
Other Chronic Diseases	1.26
Respiratory Diseases	1.26
Cancer	1.20
Wellness & Lifestyle	1.18
Mortality Data	1.07
Prevention & Safety	0.99
Women's Health	0.94
Public Safety	0.81
Substance Abuse	0.81

**Table 15. Fort Bend County Topic Scores**

Topic	Score
Transportation	1.83
Immunizations & Infectious Diseases	1.47
Exercise, Nutrition, & Weight	1.45
Other Chronic Diseases	1.44
Public Safety	1.37
Heart Disease & Stroke	1.32

Topic	Score
Environment	1.27
Substance Abuse	1.24
Maternal, Fetal & Infant Health	1.23
Older Adults & Aging	1.19
Access to Health Services	1.18
Children's Health	1.15
Social Environment	1.03
Mental Health & Mental Disorders	0.95
Economy	0.91
Education	0.83
Prevention & Safety	0.78
Men's Health	0.75
Women's Health	0.71
Wellness & Lifestyle	0.68
Respiratory Diseases	0.63
Mortality Data	0.61
Cancer	0.53

Table 16. 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



Table 17. Waller County Topic Scores

Topic	Score
Access to Health Services	2.38
Heart Disease & Stroke	2.01
Prevention & Safety	1.93
Education	1.75
Economy	1.71
Wellness & Lifestyle	1.69
Exercise, Nutrition, & Weight	1.65
Environment	1.62
Older Adults & Aging	1.61
Social Environment	1.60
Other Chronic Diseases	1.54
Transportation	1.51
Women's Health	1.47
Mental Health & Mental Disorders	1.46
Children's Health	1.42
Respiratory Diseases	1.26
Mortality Data	1.23
Immunizations & Infectious Diseases	1.19
Maternal, Fetal & Infant Health	1.02
Substance Abuse	0.99
Cancer	0.88
Public Safety	0.80

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 18 lists the resulting data scores for Health & Quality of Life Topic Areas.

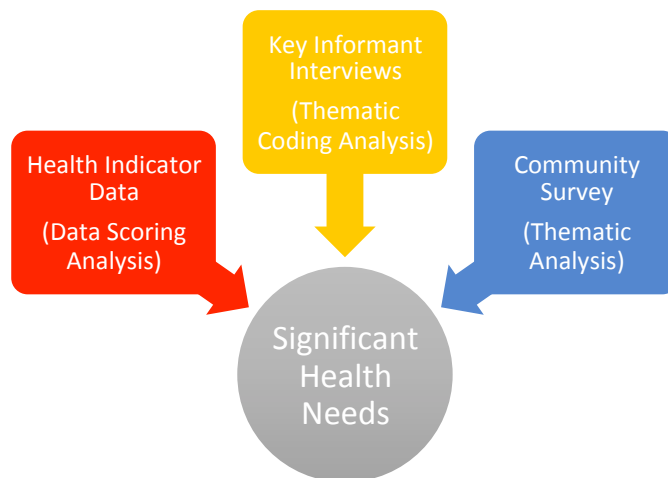
Table 18. Memorial Hermann Region Topic Scores

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

Topic	Score
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

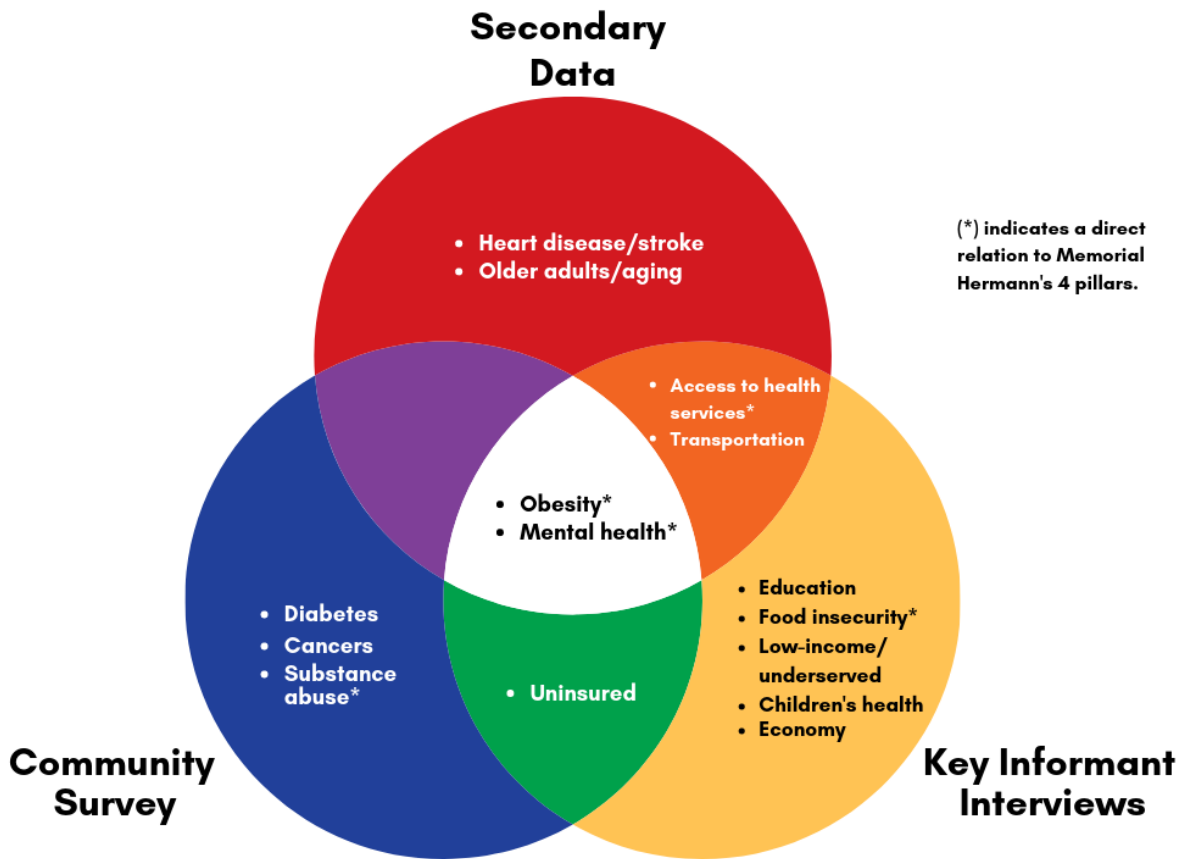
The analysis of key informant interviews occurred using the qualitative software: Dedoose<sup>1</sup>. For the community survey, HCI performed a simple review and analysis to identify top health needs. Overall, each method produced individual results that represent the community input in this report. This consolidated input leads to the prioritized health needs in this report. This triangulated approach is shown in Figure 25.

Figure 25. Visual of Data Synthesis Approach



The team used the triangulated approach to identify significant health needs for Memorial Hermann Health System. Figure 26 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 26. 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 MH Rehab Katy'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 19, there are several indicators related to Access to Health Services with data scores equal to or greater than 1.75; with Waller County overall having a greater number of indicators of concern compared to Austin, Fort Bend, and Harris counties.

In Austin County, concerning indicators are: Dentist Rate, Mental Health Provider Rate, Non-Physician Primary Care Provider Rate, and Primary Care Provider Rate. In Fort Bend County, Mental Health Provider Rate is an indicator of concern with 59.8 providers per 100,000 population (compared to the Texas value of 98.8 and U.S. value of 214.3). 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. Waller County has seven access-related indicators of concern:

Adults with Health Insurance, Children with Health Insurance, Dentist Rate, Mental Health Provider Rate, Non-Physician Primary Care Provider Rate, Persons with Health Insurance, and Primary Care Provider Rate. With an indicator score of 2.83 and exhibiting a negative trend, the Non-Physician Primary Care Provider Rate in Waller County is very concerning.

Table 19. Secondary Data Scoring Results: Access to Health Services

Indicator	County			County Value Compared to:				
	Name	Value	Data Score	TX Counties	TX Value	US Value	HP 2020 Target	Trend Over Time
<b>Adults Unable to Afford to See a Doctor</b> [10] (2015)	Austin		---	---	---	---	---	---
	Fort Bend		---	---	---	---	---	---
	Harris	<b>22.1 percent</b>	<b>2</b>	<b>1.5</b>	<b>3</b>	<b>3</b>	<b>1.5</b>	<b>1.5</b>
	Waller		---	---	---	---	---	---
[10] Texas Behavioral Risk Factor Surveillance System								
<b>Adults with Health Insurance: 18-64</b> [9] (2016)	Austin	<b>78.3 percent</b>	<b>1.64</b>	<b>1</b>	<b>1</b>	<b>1.5</b>	<b>3</b>	<b>1</b>
	Fort Bend	<b>85.4 percent</b>	<b>0.92</b>	<b>0</b>	<b>0</b>	<b>1.5</b>	<b>3</b>	<b>0</b>
	Harris	<b>74.7 percent</b>	<b>1.75</b>	<b>2</b>	<b>2</b>	<b>1.5</b>	<b>3</b>	<b>0</b>
	Waller	<b>71.5 percent</b>	<b>2.14</b>	<b>3</b>	<b>2</b>	<b>1.5</b>	<b>1.5</b>	<b>1</b>
[9] Small Area Health Insurance Estimates								
<b>Children with Health Insurance</b> [9] (2016)	Austin	<b>89.3 percent</b>	<b>1.58</b>	<b>1</b>	<b>2</b>	<b>1.5</b>	<b>3</b>	<b>0</b>
	Fort Bend	<b>93.3 percent</b>	<b>0.97</b>	<b>0</b>	<b>1</b>	<b>1.5</b>	<b>2</b>	<b>0</b>
	Harris	<b>89.4 percent</b>	<b>1.81</b>	<b>1</b>	<b>2</b>	<b>1.5</b>	<b>3</b>	<b>1</b>
	Waller	<b>86.6 percent</b>	<b>1.97</b>	<b>2</b>	<b>2</b>	<b>1.5</b>	<b>1.5</b>	<b>1</b>
[9] Small Area Health Insurance Estimates								
<b>Dentist Rate</b> [4] (2016)	Austin	<b>37 dentists/ 100,000</b>	<b>1.89</b>	<b>1</b>	<b>3</b>	<b>3</b>	<b>1.5</b>	<b>1</b>

		<b>population</b>						
	Fort Bend	<b>51.8 dentists/ 100,000 population</b>	<b>1.17</b>	0	2	3	1.5	0
	Harris	<b>66.3 dentists/ 100,000 population</b>	<b>0.5</b>	0	0	2	1.5	0
	Waller	<b>16 dentists/ 100,000 population</b>	<b>2.5</b>	3	3	3	3	1.5
[4] County Health Rankings								
<b>Mental Health Provider Rate [4] (2017)</b>	Austin	<b>26.9 providers/ 100,000 population</b>	<b>2.44</b>	2	3	3	1.5	2
	Fort Bend	<b>59.8 providers/ 100,000 population</b>	<b>2.11</b>	1	3	3	1.5	2
	Harris	<b>103.7 providers/ 100,000 population</b>	<b>1.44</b>	0	1	3	1.5	2
	Waller	<b>33.9 providers/ 100,000 population</b>	<b>2.44</b>	2	3	3	3	2
[4] County Health Rankings								
<b>Non-Physician Primary Care Provider Rate [4] (2017)</b>	Austin	<b>37 providers/ 100,000 population</b>	<b>2.22</b>	2	3	3	1.5	1
	Fort Bend	<b>52.2 providers/ 100,000 population</b>	<b>1.67</b>	1	3	3	1.5	0
	Harris	<b>72.2 providers/ 100,000 population</b>	<b>1</b>	0	1	3	1.5	0
	Waller	<b>4 providers/ 100,000 population</b>	<b>2.83</b>	3	3	3	3	3
[4] County Health Rankings								
<b>Persons with Health Insurance [9] (2016)</b>	Austin	<b>81.7 percent</b>	<b>1.64</b>	1	1	1.5	3	1
	Fort	<b>88.0</b>	<b>1.08</b>	0	1	1.5	3	0

	Bend	<b>percent</b>						
	Harris	<b>79.3 percent</b>	<b>1.75</b>	<b>2</b>	<b>2</b>	<b>1.5</b>	<b>3</b>	<b>0</b>
	Waller	<b>76.1 percent</b>	<b>2.14</b>	<b>3</b>	<b>2</b>	<b>1.5</b>	<b>1.5</b>	<b>1</b>
[9] Small Area Health Insurance Estimates								
<b>Primary Care Provider Rate [4] (2015)</b>	Austin	<b>23.7 providers/ 100,000 population</b>	<b>2.39</b>	<b>3</b>	<b>3</b>	<b>3</b>	<b>1.5</b>	<b>1</b>
	Fort Bend	<b>80.3 providers/ 100,000 population</b>	<b>0.33</b>	<b>0</b>	<b>0</b>	<b>1</b>	<b>1.5</b>	<b>0</b>
	Harris	<b>57.2 providers/ 100,000 population</b>	<b>1.61</b>	<b>0</b>	<b>2</b>	<b>3</b>	<b>1.5</b>	<b>2</b>
	Waller	<b>10.3 providers/ 100,000 population</b>	<b>2.61</b>	<b>3</b>	<b>3</b>	<b>3</b>	<b>3</b>	<b>2</b>
[4] County Health Rankings								

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 20, there are several economic indicators with data scores greater than 2 in Austin, Fort Bend, Harris, and Waller counties.

In Austin County, the following are indicators to note: Child Food Insecurity Rate, Children Living Below Poverty Level, Food Insecurity Rate, Mortgaged Owners Median Monthly Household Costs, and Employment Change.

In Fort Bend County, indicators of concern include: Median Household Gross Rent, Median Monthly Owner Costs for Households without a Mortgage, and Mortgaged Owners Median Monthly Household Costs. The Median Household Gross Rent in Fort Bend County is \$1,252 compared to \$911 in Texas and \$949 in the U.S. Moreover, this indicator is exhibiting a negative trend over time. Similarly, the Median Monthly Owner Costs for Households without a Mortgage is higher in Fort Bend County (\$712) than Texas (\$467) and the U.S. (\$462).

Compared to Austin and Fort Bend counties, Harris County has a broader range of 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.

Compared to Harris County, Waller County has a greater number of economic indicators of concern, including: Child Food Insecurity Rate, Female Population 16+ in Civilian Labor Force, Food Insecurity Rate, Homeowner Vacancy Rate, Median Monthly Owner Costs for Households without a Mortgage, People Living Below Poverty Level, Persons with Disability Living in Poverty (5-year), Severe Housing Problems, Students Eligible for the Free Lunch Program, SNAP Certified Stores, and Unemployed Workers in Civilian Labor Force.

Table 20. Secondary Data Scoring Results: Economy

Indicator	County			County Value Compared to:				
	Name	Value	Data Score	TX Counties	TX Value	US Value	HP 2020 Target	Trend Over Time
Child Food Insecurity Rate [5] (2016)	Austin	24.2 percent	2.17	2	2	3	1.5	1.5
	Fort Bend	19.1 percent	0.67	0	0	2	1.5	0
	Harris	23.5 percent	1.67	1	2	3	1.5	0
	Waller	24.0 percent	2.06	2	2	3	3	1
[5] Feeding America								
Children Living Below Poverty Level [1] (2012-2016)	Austin	25.3 percent	2.33	2	2	3	1.5	3
	Fort Bend	11.2 percent	0.39	0	0	0	1.5	1
	Harris	26.0 percent	1.67	2	2	3	1.5	0
	Waller	25.1 percent	1.89	2	2	3	3	1
Families Living Below Poverty Level [1] (2012-2016)	Austin	11.2 percent	1.44	1	0	2	1.5	2
	Fort Bend	6.4 percent	0.39	0	0	0	1.5	1
	Harris	14.4 percent	2.06	2	3	3	1.5	1



	Waller	<b>12 percent</b>	<b>1.17</b>	1	1	2	2	0
[1] American Community Survey								
<b>Female Population 16+ in Civilian Labor Force [1] (2012-2016)</b>	Austin	<b>54.4 percent</b>	<b>1.78</b>	1	2	2	1.5	2
	Fort Bend	<b>59.3 percent</b>	<b>1.17</b>	0	1	1	1.5	3
	Harris	<b>59.8 percent</b>	<b>0.94</b>	0	1	1	1.5	2
	Waller	<b>50.6 percent</b>	<b>2.06</b>	2	3	3	3	1
[1] American Community Survey								
<b>Food Insecurity Rate [5] (2016)</b>	Austin	<b>15.8 percent</b>	<b>2.06</b>	2	2	3	1.5	1
	Fort Bend	<b>14.8 percent</b>	<b>1.56</b>	1	1	3	1.5	1
	Harris	<b>16.6 percent</b>	<b>2.06</b>	2	2	3	1.5	1
	Waller	<b>19.2 percent</b>	<b>2.39</b>	3	3	3	3	1
[5] Feeding America								
<b>Homeowner Vacancy Rate [1] (2012-2016)</b>	Austin	<b>1.6 percent</b>	<b>0.89</b>	1	1	0	1.5	1
	Fort Bend	<b>1.1 percent</b>	<b>0.17</b>	0	0	0	1.5	0
	Harris	<b>1.5 percent</b>	<b>0.67</b>	1	1	0	1.5	0
	Waller	<b>2 percent</b>	<b>2.28</b>	2	3	3	3	2
<b>Homeownership [1] (2012-2016)</b>	Austin	<b>63.5 percent</b>	<b>0.56</b>	0	0	0	1.5	1
	Fort Bend	<b>74.4 percent</b>	<b>0.39</b>	0	0	0	1.5	1
	Harris	<b>49.6 percent</b>	<b>2.44</b>	3	2	3	1.5	2
	Waller	<b>59.6 percent</b>	<b>1.06</b>	1	1	1	1	1

[1] American Community Survey								
<b>Low-Income and Low Access to a Grocery Store [17] (2015)</b>	Austin	<b>3.5 percent</b>	<b>1</b>	0	1.5	1.5	1.5	1.5
	Fort Bend	<b>7.1 percent</b>	<b>1.5</b>	1	1.5	1.5	1.5	1.5
	Harris	<b>6.3 percent</b>	<b>1.33</b>	1	1.5	1.5	1.5	1.5
	Waller	<b>11.3 percent</b>	<b>1.83</b>	2	1.5	1.5	1.5	1.5
[17] U.S. Department of Agriculture - Food Environment Atlas								
<b>Median Household Gross Rent [1] (2012-2016)</b>	Austin	<b>852 dollars</b>	<b>1.53</b>	3	1	0	1.5	2
	Fort Bend	<b>1252 dollars</b>	<b>2.58</b>	3	3	3	1.5	3
	Harris	<b>937 dollars</b>	<b>2.08</b>	3	2	1	1.5	3
	Waller	<b>825 dollars</b>	<b>1.53</b>	3	1	0	0	2
<b>Median Monthly Owner Costs for Households without a Mortgage [1] (2012-2016)</b>	Austin	<b>448 dollars</b>	<b>1.58</b>	3	1	1	1.5	1.5
	Fort Bend	<b>712 dollars</b>	<b>2.36</b>	3	3	3	1.5	2
	Harris	<b>534 dollars</b>	<b>2.14</b>	3	3	3	1.5	1
	Waller	<b>494 dollars</b>	<b>2.03</b>	3	2	2	2	2
[1] American Community Survey								
<b>Mortgaged Owners Median Monthly Household Costs [1] (2012-2016)</b>	Austin	<b>1512 dollars</b>	<b>2.03</b>	3	2	2	1.5	2
	Fort Bend	<b>1884 dollars</b>	<b>2.25</b>	3	3	3	1.5	1.5
	Harris	<b>1504 dollars</b>	<b>1.81</b>	3	2	2	1.5	1
	Waller	<b>1435 dollars</b>	<b>1.58</b>	3	1	1	1	1.5
<b>People 65+ Living Below Poverty Level</b>	Austin	<b>7.6 percent</b>	<b>0.56</b>	0	0	0	1.5	1

[1] (2012-2016)	Fort Bend	<b>6.9 percent</b>	<b>0.39</b>	0	0	0	1.5	1
	Harris	<b>11.3 percent</b>	<b>1.89</b>	2	2	3	1.5	1
	Waller	<b>4.9 percent</b>	<b>0.17</b>	0	0	0	0	0
<b>People Living 200% Above Poverty Level</b> [1] (2012-2016)	Austin	<b>68.2 percent</b>	<b>1.11</b>	0	1	1	1.5	2
	Fort Bend	<b>79.4 percent</b>	<b>0.17</b>	0	0	0	1.5	0
	Harris	<b>61.6 percent</b>	<b>1.33</b>	1	2	2	1.5	0
	Waller	<b>59.3 percent</b>	<b>1.67</b>	2	2	3	3	0
[1] American Community Survey								
<b>People Living Below Poverty Level</b> [1] (2012-2016)	Austin	<b>14.5 percent</b>	<b>1.33</b>	1	0	1	1.5	3
	Fort Bend	<b>8.2 percent</b>	<b>0.39</b>	0	0	0	1.5	1
	Harris	<b>17.4 percent</b>	<b>1.67</b>	2	2	3	1.5	0
	Waller	<b>19.0 percent</b>	<b>2.06</b>	2	3	3	3	1
<b>Per Capita Income</b> [1] (2012-2016)	Austin	<b>28351 dollars</b>	<b>0.67</b>	0	1	2	1.5	0
	Fort Bend	<b>37134 dollars</b>	<b>0.17</b>	0	0	0	1.5	0
	Harris	<b>29850 dollars</b>	<b>0.5</b>	0	1	1	1.5	0
	Waller	<b>23338 dollars</b>	<b>1.83</b>	2	3	3	3	0
<b>Persons with Disability Living in Poverty (5-year)</b> [1] (2012-2016)	Austin	<b>24.0 percent</b>	<b>1.08</b>	1	1	0	1.5	1.5
	Fort Bend	<b>15.6 percent</b>	<b>0.75</b>	0	0	0	1.5	1.5
	Harris	<b>25.4 percent</b>	<b>1.42</b>	1	2	1	1.5	1.5

	Waller	<b>30.5 percent</b>	<b>2.08</b>	2	3	3	3	1.5
<b>Renters Spending 30% or More of Household Income on Rent [1] (2012-2016)</b>	Austin	<b>42.3 percent</b>	<b>1.44</b>	3	0	0	1.5	2
	Fort Bend	<b>40.1 percent</b>	<b>1.06</b>	2	0	0	1.5	1
	Harris	<b>46.8 percent</b>	<b>1.5</b>	3	1	1	1.5	0
	Waller	<b>46.8 percent</b>	<b>1.83</b>	3	1	1	1	1.5
<b>[1] American Community Survey</b>								
<b>Severe Housing Problems [4] (2010-2014)</b>	Austin	<b>12.3 percent</b>	<b>0.72</b>	1	0	0	1.5	1
	Fort Bend	<b>14.8 percent</b>	<b>1.06</b>	2	0	0	1.5	1
	Harris	<b>20.9 percent</b>	<b>2.39</b>	3	3	3	1.5	1
	Waller	<b>22.4 percent</b>	<b>2.61</b>	3	3	3	3	2
<b>[4] County Health Rankings</b>								
<b>SNAP Certified Stores [17] (2016)</b>	Austin	<b>0.9 stores/ 1,000 population</b>	<b>1.22</b>	1	1.5	1.5	1.5	1
	Fort Bend	<b>0.4 stores/ 1,000 population</b>	<b>1.89</b>	3	1.5	1.5	1.5	1
	Harris	<b>0.6 stores/ 1,000 population</b>	<b>2.11</b>	3	1.5	1.5	1.5	2
	Waller	<b>0.6 stores/ 1,000 population</b>	<b>2.11</b>	3	1.5	1.5	1.5	2
<b>[17] U.S. Department of Agriculture - Food Environment Atlas</b>								
<b>Students Eligible for the Free Lunch Program [8] (2015-2016)</b>	Austin	<b>42.9 percent</b>	<b>0.83</b>	1	0	2	1.5	0
	Fort Bend	<b>26.7 percent</b>	<b>0.17</b>	0	0	0	1.5	0
	Harris	<b>58.2</b>	<b>2.22</b>	2	3	3	1.5	1

		<b>percent</b>						
	Waller	<b>65.8 percent</b>	<b>2.39</b>	3	3	3	3	1
[8] National Center for Education Statistics								
<b>Total Employment Change [16] (2014-2015)</b>	Austin	<b>-0.7 percent</b>	<b>2.17</b>	2	3	3	1.5	1.5
	Fort Bend	<b>6.2 percent</b>	<b>0.5</b>	0	0	0	1.5	1.5
	Harris	<b>2.4 percent</b>	<b>1.67</b>	1	3	2	1.5	1.5
	Waller	<b>3.2 percent</b>	<b>1.17</b>	1	2	0	0	1.5
[16] U.S. Census - County Business Patterns								
<b>Unemployed Workers in Civilian Labor Force [15] (July 2018)</b>	Austin	<b>3.7 percent</b>	<b>1.28</b>	1	1	1	1.5	2
	Fort Bend	<b>4.1 percent</b>	<b>1.78</b>	2	2	1	1.5	2
	Harris	<b>4.4 percent</b>	<b>1.94</b>	2	2	2	1.5	2
	Waller	<b>4.8 percent</b>	<b>2.44</b>	3	3	3	3	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.

*"I would think that our lower-income folks, it definitely becomes more of a challenge for them, when you don't have facilities that are located close-by in proximity."*

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 noted 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 21, there are several concerning indicators related to Mental Health & Mental Disorders. 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. In Austin, Fort Bend and Waller counties, an indicator of concern is the Mental Health Provider Rate (with indicator scores above 2). The rate of 26.9 providers per 100,000 population (in both Austin and Waller counties) is less than one third of the state value (98.8) and is almost one eighth of the national value (214.3). An additional indicator of concern in Austin and Waller counties is Age-Adjusted Death Rate due to Suicide.

Table 21. Secondary Data Scoring Results: Mental Health & Mental Disorders

Indicator	County			County Value Compared to:				
	Name	Value	Data Score	TX Counties	TX Value	US Value	HP 2020 Target	Trend Over Time
Mental Health Provider Rate [4] (2017)	Austin	26.9 providers/ 100,000 population	2.44	2	3	3	1.5	2
	Fort Bend	59.8 providers/ 100,000 population	2.11	1	3	3	1.5	2
	Harris	103.7	1.44	0	1	3	1.5	2

		<b>providers/ 100,000 population</b>						
	Waller	<b>33.9 providers/ 100,000 population</b>	<b>2.44</b>	2	3	3	3	2
[4] County Health Rankings								
<b>Age-Adjusted Death Rate due to Suicide [12] (2010-2014)</b>	Austin	<b>16.6 deaths/ 100,000 population</b>	<b>2.17</b>	1.5	3	3	3	1.5
	Fort Bend	<b>7.3 deaths/ 100,000 population</b>	<b>0.94</b>	1.5	0	0	0	2
	Harris	<b>10.3 deaths/ 100,000 population</b>	<b>0.94</b>	1.5	0	0	2	1
	Waller	<b>15.8 deaths/ 100,000 population</b>	<b>2.28</b>	1.5	3	3	3	2
[12] Texas Department of State Health Services								
<b>Alzheimer's Disease or Dementia: Medicare Population [3] (2015)</b>	Austin	<b>9.9 percent</b>	<b>1</b>	0	0	1	1.5	1.5
	Fort Bend	<b>10.2 percent</b>	<b>1.33</b>	1	0	2	1.5	1.5
	Harris	<b>11.4 percent</b>	<b>1.89</b>	2	1	3	1.5	1
	Waller	<b>10.5 percent</b>	<b>1.78</b>	1	1	2	2	2
[3] Centers for Medicare & Medicaid Services								
<b>Poor Mental Health: 5+ Days [10] (2016)</b>	Austin		---	---	---	---	---	---
	Fort Bend		---	---	---	---	---	---
	Harris	<b>80.0 percent</b>	<b>1.53</b>	1.5	1	1.5	1.5	2
	Waller		---	---	---	---	---	---
[10] Texas Behavioral Risk Factor Surveillance System								

Substance Abuse is a topic of concern in Fort Bend, Harris and Waller counties. In Fort Bend and Harris counties, the proportion of alcohol-impaired driving deaths is higher than the state and the U.S. There were 36% alcohol-impaired driving deaths in Fort Bend County and 37.8% in Harris County, compared to 28.3% and 29.3% in Texas and the U.S., respectively (Table 22). In Waller County, one in five adults drinks excessively (20.5%).



Table 22. Secondary Data Scoring Results: Substance Abuse

Indicator	County			County Value Compared to:				
	Name	Value	Data Score	TX Counties	TX Value	US Value	HP 2020 Target	Trend Over Time
<b>Alcohol-Impaired Driving Deaths [4]</b> (2012-2016)	Austin	<b>18.2 percent</b>	<b>0.33</b>	1	0	0	1.5	0
	Fort Bend	<b>36.0 percent</b>	<b>2</b>	3	3	3	1.5	0
	Harris	<b>37.8 percent</b>	<b>2.17</b>	3	3	3	1.5	0
	Waller	<b>21.8 percent</b>	<b>0.5</b>	1	0	0	0	0
<b>Adults who Drink Excessively [4]</b> (2016)	Austin	<b>18.3 percent</b>	<b>1.5</b>	2	1	2	0	1.5
	Fort Bend	<b>18.3 percent</b>	<b>1.5</b>	2	1	2	0	1.5
	Harris	<b>18.1 percent</b>	<b>1.5</b>	2	1	2	0	1.5
	Waller	<b>20.5 percent</b>	<b>2.17</b>	3	2	3	3	1.5

[4] County Health Rankings

**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 discussed the difficulty of making a connection between the jail system and the health care system for those struggling with substance abuse issues.

*“We still deal daily with a lot of drug use in our county, and (...) a lot of folks that come to our jail system are being arrested on drug offenses, and that continues to be a challenge to get these people where they need to be, from a healthcare standpoint, especially mental health, and I think this goes for any county in the state of Texas.”*

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 individual counties’ secondary data scoring, an indicator of concern for both Fort Bend and Waller counties is the proportion of Diabetes in the Medicare population, with values of 30.8% and 29.6%, respectively, compared to 26.5% in the U.S. (Table 23).

Table 23. Secondary Data Scoring Results: Diabetes

Indicator	County			County Value Compared to:				
	Name	Value	Data Score	TX Counties	TX Value	US Value	HP 2020 Target	Trend Over Time
Diabetes: Medicare Population [3] (2015)	Austin	25.0 percent	0.67	1	0	1	1.5	0
	Fort Bend	30.8 percent	2.22	3	2	3	1.5	1
	Harris	28.1 percent	1.67	2	1	2	1.5	1.5

	Waller	<b>29.6 percent</b>	<b>2.06</b>	2	2	3	3	1
[3] Centers for Medicare & Medicaid Services								

As shown in Table 24, another indicator of concern is Stroke in the Medicare Population with scores above 2 for Austin, Fort Bend, Harris, and Waller counties. Additional indicators scoring above 2 (and all within the Medicare Population) include: Atrial Fibrillation (Austin and Waller counties), Heart Failure (Waller County), Hyperlipidemia (Austin and Fort Bend counties), Hypertension (Waller County), and Ischemic Heart Disease (Waller County).

**Table 24. Secondary Data Scoring Results: Heart Disease & Stroke**

Indicator	County			County Value Compared to:				
	Name	Value	Data Score	TX Counties	TX Value	US Value	HP 2020 Target	Trend Over Time
<b>Age-Adjusted Death Rate due to Heart Disease [12] (2010-2014)</b>	Austin	<b>176.7 deaths/ 100,000 population</b>	<b>1.25</b>	1	2	2	1.5	0
	Fort Bend	<b>135 deaths/ 100,000 population</b>	<b>0.42</b>	0	0	0	1.5	0
	Harris	<b>167.6 deaths/ 100,000 population</b>	<b>0.92</b>	1	1	1	1.5	0
	Waller	<b>194.8 deaths/ 100,000 population</b>	<b>1.75</b>	2	3	3	3	0
[12] Texas Department of State Health Services								
<b>Atrial Fibrillation: Medicare Population [3] (2015)</b>	Austin	<b>8.7 percent</b>	<b>2.28</b>	3	3	2	1.5	2
	Fort Bend	<b>6.9 percent</b>	<b>0.94</b>	1	1	0	1.5	2
	Harris	<b>7.3 percent</b>	<b>1.5</b>	1	1	1	1.5	3
	Waller	<b>8.4 percent</b>	<b>2.17</b>	3	3	2	2	1.5
[3] Centers for Medicare & Medicaid Services								
<b>Heart Failure: Medicare Population [3] (2015)</b>	Austin	<b>15.1 percent</b>	<b>1.56</b>	1	1	3	1.5	1
	Fort Bend	<b>13.9 percent</b>	<b>1.06</b>	0	0	2	1.5	1
	Harris	<b>16.0 percent</b>	<b>1.89</b>	1	2	3	1.5	1
	Waller	<b>17.5</b>	<b>2.44</b>	2	3	3	3	2

		percent						
[3] Centers for Medicare & Medicaid Services								
<b>Hyperlipidemia: Medicare Population [3] (2015)</b>	Austin	<b>46.8 percent</b>	<b>2.17</b>	2	2	2	1.5	3
	Fort Bend	<b>46.6 percent</b>	<b>2.17</b>	2	2	2	1.5	3
	Harris	<b>43.2 percent</b>	<b>1.44</b>	1	1	1	1.5	2
	Waller	<b>46.1 percent</b>	<b>1.94</b>	2	2	2	2	2
<b>Hypertension: Medicare Population [3] (2015)</b>	Austin	<b>59.6 percent</b>	<b>1.94</b>	2	2	2	1.5	2
	Fort Bend	<b>57.1 percent</b>	<b>1.61</b>	1	1	2	1.5	2
	Harris	<b>55.5 percent</b>	<b>1.22</b>	1	1	2	1.5	1
	Waller	<b>61.6 percent</b>	<b>2.06</b>	2	2	3	3	1
<b>Ischemic Heart Disease: Medicare Population [3] (2015)</b>	Austin	<b>26.9 percent</b>	<b>1.22</b>	0	1	2	1.5	1
	Fort Bend	<b>28.0 percent</b>	<b>1.22</b>	0	1	2	1.5	1
	Harris	<b>28.8 percent</b>	<b>1.33</b>	1	2	2	1.5	0
	Waller	<b>31.0 percent</b>	<b>2.06</b>	2	2	3	3	1
<b>Stroke: Medicare Population [3] (2015)</b>	Austin	<b>4.7 percent</b>	<b>2.28</b>	2	2	3	1.5	2
	Fort Bend	<b>4.7 percent</b>	<b>2.5</b>	2	2	3	1.5	3
	Harris	<b>5.2 percent</b>	<b>2.61</b>	3	3	3	1.5	2
	Waller	<b>6.0 percent</b>	<b>2.61</b>	3	3	3	3	2
[3] Centers for Medicare & Medicaid Services								

Table 25 reveals food-related indicators of concern; those scoring above 2 include: Child Food Insecurity Rate (Austin and Waller counties), Food Environment Index (Waller County), Food Insecurity Rate (Austin, Harris and Waller counties), Grocery Store Density (Waller County), and SNAP Certified Stores (Harris and Waller counties).

Table 25. Secondary Data Scoring Results: Nutrition

Indicator	County			County Value Compared to:				
	Name	Value	Data Score	TX Counties	TX Value	US Value	HP 2020 Target	Trend Over Time
Child Food Insecurity Rate [5] (2016)	Austin	24.2 percent	2.17	2	2	3	1.5	1.5
	Fort Bend	19.1 percent	0.67	0	0	2	1.5	0
	Harris	23.5 percent	1.67	1	2	3	1.5	0
	Waller	24.0 percent	2.06	2	2	3	1.5	1
[5] Feeding America								
Children with Low Access to a Grocery Store [17] (2015)	Austin	2.5 percent	1.17	0	1.5	1.5	1.5	1.5
	Fort Bend	7.4 percent	1.83	2	1.5	1.5	1.5	1.5
	Harris	5.4 percent	1.5	1	1.5	1.5	1.5	1.5
	Waller	1.9 percent	1	0	1.5	1.5	1.5	1.5
[17] U.S. Department of Agriculture - Food Environment Atlas								
Fast Food Restaurant Density [17] (2014)	Austin	0.5 restaurants/ 1,000 population	1.22	1	1.5	1.5	1.5	1
	Fort Bend	0.6 restaurants/ 1,000 population	1.33	1	1.5	1.5	1.5	1.5
	Harris	0.7 restaurants/ 1,000 population	1.67	2	1.5	1.5	1.5	1.5
	Waller	0.4 restaurants/ 1,000 population	1.17	0	1.5	1.5	1.5	1.5
[17] U.S. Department of Agriculture - Food Environment Atlas								
Food Environment Index [4] (2018)	Austin	7.7 percent	0.72	0	0	1	1.5	1
	Fort Bend	7.4 percent	1.22	1	0	2	1.5	1
	Harris	7.2 percent	1	1	0	2	1.5	0

	Waller	<b>6.3 percent</b>	<b>2.11</b>	2	1	3	3	2
[4] County Health Rankings								
<b>Food Insecurity Rate</b> [5] (2016)	Austin	<b>15.8 percent</b>	<b>2.06</b>	2	2	3	1.5	1
	Fort Bend	<b>14.8 percent</b>	<b>1.56</b>	1	1	3	1.5	1
	Harris	<b>16.6 percent</b>	<b>2.06</b>	2	2	3	1.5	1
	Waller	<b>19.2 percent</b>	<b>2.39</b>	3	3	3	3	1
[5] Feeding America								
<b>Grocery Store Density</b> [17] (2014)	Austin	<b>0.2 stores/ 1,000 population</b>	<b>1.39</b>	1	1.5	1.5	1.5	1
	Fort Bend	<b>0.1 stores/ 1,000 population</b>	<b>1.83</b>	2	1.5	1.5	1.5	1.5
	Harris	<b>0.2 stores/ 1,000 population</b>	<b>1.5</b>	1	1.5	1.5	1.5	1.5
	Waller	<b>0.1 stores/ 1,000 population</b>	<b>2</b>	3	1.5	1.5	1.5	1.5
[17] U.S. Department of Agriculture - Food Environment Atlas								
<b>Households with No Car and Low Access to a Grocery Store</b> [17] (2015)	Austin	<b>2.4 percent</b>	<b>1.5</b>	2	1.5	1.5	1.5	1.5
	Fort Bend	<b>1.1 percent</b>	<b>1</b>	0	1.5	1.5	1.5	1.5
	Harris	<b>0.9 percent</b>	<b>1</b>	0	1.5	1.5	1.5	1.5
	Waller	<b>2.8 percent</b>	<b>1.67</b>	2	1.5	1.5	1.5	1.5
[17] U.S. Department of Agriculture - Food Environment Atlas								
<b>Low-Income and Low Access to a Grocery Store</b> [17] (2015)	Austin	<b>3.5 percent</b>	<b>1</b>	0	1.5	1.5	1.5	1.5
	Fort Bend	<b>7.1 percent</b>	<b>1.5</b>	1	1.5	1.5	1.5	1.5
	Harris	<b>6.3 percent</b>	<b>1.33</b>	1	1.5	1.5	1.5	1.5
	Waller	<b>11.3 percent</b>	<b>1.83</b>	2	1.5	1.5	1.5	1.5
[17] U.S. Department of Agriculture - Food Environment Atlas								

SNAP Certified Stores [17] (2016)	Austin	0.9 stores/ 1,000 population	1.22	1	1.5	1.5	1.5	1
	Fort Bend	0.4 stores/ 1,000 population	1.89	3	1.5	1.5	1.5	1
	Harris	0.6 stores/ 1,000 population	2.11	3	1.5	1.5	1.5	2
	Waller	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.

*"Then we realized we needed to do something for the parents, so we created an exercise program for them in the evening as well as that Recipe for Success to not only come into the school but come into the park and recreation center to help the parents with nutritional meals and then we realized that there wasn't a grocery store near. There were several mom-and-pop stores, so we worked with the mom and pop stores to develop a healthier variety of foods for the community."*

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 having to work multiple jobs and having time to shop for and prepare healthy foods.

*"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 and would benefit from early education for parents and children in schools.

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
- School-based programs

### Secondary Data

Exercise, Nutrition & Weight was the third highest-ranking topic in the secondary data scoring results for Fort Bend County and fifth for Memorial Hermann Health System. Although Exercise, Nutrition & Weight did not rise to the top of the secondary data scoring results for Austin, Harris and Waller counties, there are indicators of concern to note (Table 26). Exercise-related indicators with scores above 2 include: Access to Exercise Opportunities (Austin and Waller counties) and Workers Who Walk to Work (Austin, Fort Bend and Harris counties).

Table 26. Secondary Data Scoring Results: Exercise, Nutrition & Weight

Indicator	County			County Value Compared to:				
	Name	Value	Data Score	TX Counties	TX Value	US Value	HP 2020 Target	Trend Over Time
Child Food Insecurity Rate [5] (2016)	Austin	24.2 percent	2.17	2	2	3	1.5	1.5
	Fort Bend	19.1 percent	0.67	0	0	2	1.5	0
	Harris	23.5 percent	1.67	1	2	3	1.5	0
	Waller	24.0 percent	2.06	2	2	3	1.5	1
[5] Feeding America								
Access to Exercise Opportunities [4] (2018)	Austin	66.2 percent	2	1	3	3	1.5	1.5
	Fort Bend	83.8 percent	0.83	0	1	1	1.5	1.5
	Harris	90.4 percent	0.67	0	0	1	1.5	1.5
	Waller	45.2 percent	2.33	2	3	3	1.5	1.5
[4] County Health Rankings								
Adults (18+ Years) Who Are Obese [10] (2018)	Austin		---	---	---	---	---	---
	Fort Bend		---	---	---	---	---	---
	Harris	32.0 percent	1.67	1.5	1	2	2	2
	Waller		---	---	---	---	---	---
[10] Texas Behavioral Risk Factor Surveillance System								
Children with Low Access to a Grocery Store [17] (2015)	Austin	2.5 percent	1.17	0	1.5	1.5	1.5	1.5
	Fort Bend	7.4 percent	1.83	2	1.5	1.5	1.5	1.5
	Harris	5.4 percent	1.5	1	1.5	1.5	1.5	1.5
	Waller	1.9 percent	1	0	1.5	1.5	1.5	1.5

[17] U.S. Department of Agriculture - Food Environment Atlas								
<b>Fast Food Restaurant Density [17] (2014)</b>	Austin	<b>0.5 restaurants/ 1,000 population</b>	<b>1.22</b>	1	1.5	1.5	1.5	1
	Fort Bend	<b>0.6 restaurants/ 1,000 population</b>	<b>1.33</b>	1	1.5	1.5	1.5	1.5
	Harris	<b>0.7 restaurants/ 1,000 population</b>	<b>1.67</b>	2	1.5	1.5	1.5	1.5
	Waller	<b>0.4 restaurants/ 1,000 population</b>	<b>1.17</b>	0	1.5	1.5	1.5	1.5
[17] U.S. Department of Agriculture - Food Environment Atlas								
<b>Food Environment Index [4] (2018)</b>	Austin	<b>7.7 percent</b>	<b>0.72</b>	0	0	1	1.5	1
	Fort Bend	<b>7.4 percent</b>	<b>1.22</b>	1	0	2	1.5	1
	Harris	<b>7.2 percent</b>	<b>1</b>	1	0	2	1.5	0
	Waller	<b>6.3 percent</b>	<b>2.11</b>	2	1	3	3	2
[4] County Health Rankings								
<b>Food Insecurity Rate [5] (2016)</b>	Austin	<b>15.8 percent</b>	<b>2.06</b>	2	2	3	1.5	1
	Fort Bend	<b>14.8 percent</b>	<b>1.56</b>	1	1	3	1.5	1
	Harris	<b>16.6 percent</b>	<b>2.06</b>	2	2	3	1.5	1
	Waller	<b>19.2 percent</b>	<b>2.39</b>	3	3	3	3	1
[5] Feeding America								
<b>Grocery Store Density [17] (2014)</b>	Austin	<b>0.2 stores/ 1,000 population</b>	<b>1.39</b>	1	1.5	1.5	1.5	1
	Fort Bend	<b>0.1 stores/ 1,000 population</b>	<b>1.83</b>	2	1.5	1.5	1.5	1.5
	Harris	<b>0.2 stores/ 1,000 population</b>	<b>1.5</b>	1	1.5	1.5	1.5	1.5
	Waller	<b>0.1 stores/ 1,000 population</b>	<b>2</b>	3	1.5	1.5	1.5	1.5

[17] U.S. Department of Agriculture - Food Environment Atlas								
<b>Households with No Car and Low Access to a Grocery Store [17] (2015)</b>	Austin	<b>2.4 percent</b>	<b>1.5</b>	2	1.5	1.5	1.5	1.5
	Fort Bend	<b>1.1 percent</b>	<b>1</b>	0	1.5	1.5	1.5	1.5
	Harris	<b>0.9 percent</b>	<b>1</b>	0	<b>1.5</b>	<b>1.5</b>	<b>1.5</b>	<b>1.5</b>
	Waller	<b>2.8 percent</b>	<b>1.67</b>	2	1.5	1.5	1.5	1.5
[17] U.S. Department of Agriculture - Food Environment Atlas								
<b>Low-Income and Low Access to a Grocery Store [17] (2015)</b>	Austin	<b>3.5 percent</b>	<b>1</b>	0	1.5	1.5	1.5	1.5
	Fort Bend	<b>7.1 percent</b>	<b>1.5</b>	1	1.5	1.5	1.5	1.5
	Harris	<b>6.3 percent</b>	<b>1.33</b>	1	<b>1.5</b>	<b>1.5</b>	<b>1.5</b>	<b>1.5</b>
	Waller	<b>11.3 percent</b>	<b>1.83</b>	2	1.5	1.5	1.5	1.5
[17] U.S. Department of Agriculture - Food Environment Atlas								
<b>Recreation and Fitness Facilities [17] (2014)</b>	Austin	<b>0.1 facilities/ 1,000 population</b>	<b>0.89</b>	0	1.5	1.5	1.5	1
	Fort Bend	<b>0.1 facilities/ 1,000 population</b>	<b>1.33</b>	1	1.5	1.5	1.5	1.5
	Harris	<b>0.1 facilities/ 1,000 population</b>	<b>1.33</b>	1	<b>1.5</b>	<b>1.5</b>	<b>1.5</b>	<b>1.5</b>
	Waller	<b>0 facilities/ 1,000 population</b>	<b>1.78</b>	2	1.5	1.5	1.5	2
[17] U.S. Department of Agriculture - Food Environment Atlas								
<b>SNAP Certified Stores [17] (2016)</b>	Austin	<b>0.9 stores/ 1,000 population</b>	<b>1.22</b>	1	1.5	1.5	1.5	1
	Fort Bend	<b>0.4 stores/ 1,000 population</b>	<b>1.89</b>	3	1.5	1.5	1.5	1
	Harris	<b>0.6 stores/ 1,000 population</b>	<b>2.11</b>	3	<b>1.5</b>	<b>1.5</b>	<b>1.5</b>	<b>2</b>
	Waller	<b>0.6 stores/ 1,000 population</b>	<b>2.11</b>	3	1.5	1.5	1.5	2

[17] U.S. Department of Agriculture - Food Environment Atlas								
<b>Workers who Walk to Work [1] (2012-2016)</b>	Austin	<b>1.7 percent</b>	<b>2.11</b>	2	1	3	3	2
	Fort Bend	<b>0.6 percent</b>	<b>2.67</b>	3	3	3	3	1.5
	Harris	<b>1.5 percent</b>	<b>2.17</b>	2	2	3	3	1.5
	Waller	<b>4.7 percent</b>	<b>0.22</b>	0	0	0	0	1
[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. Participants also discussed a need to develop nutritional programming for youth in the schools.

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 sit-ups 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.”*

Key informants also discussed the opportunity to bring exercise and nutrition programs into schools to address childhood obesity and also help with students’ overall performance.

*“When we launched the CAN DO project, it was (...) to address childhood obesity. We were looking at physical activity, we were looking at providing healthy food and the nutrition guidelines and that sort of thing. We looked at doing it through schools and we actually identified three schools that we would work with and actually end up with one that we could really do something with.”*

*“...the principal and the leadership of the schools were so focused on test scores. We can convince them that test scores would be improved if their students had a healthy diet and physical activity, in terms of connecting the dots.”*

## 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. Older Adults and Aging was in the top 10 topics for Austin, Fort Bend and Waller counties and received a topic score of 1.5 in the secondary data results for Harris County. In Austin County, indicators to note include: Atrial Fibrillation, Stroke, Hyperlipidemia, and Rheumatoid Arthritis or Osteoarthritis (all in the Medicare Population). In Fort Bend County, indicators of concern included Stroke, Diabetes, Chronic Kidney Disease, and Hyperlipidemia (all in the Medicare Population). Indicators of note in Harris County included: Chronic Kidney Disease and Stroke in the Medicare Population as well as Age-Adjusted Death Rate due to Falls. In Waller County, concerning indicators are: Chronic Kidney Disease, Stroke, Heart Failure, Age-Adjusted Death Rate due to Falls, Atrial Fibrillation, Diabetes, Hypertension, and Ischemic Heart Disease (all in the Medicare Population).

#### *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 Austin, Fort Bend, Harris, and Waller counties, there are certain indicators to note. In Austin County, the following indicators scored above 1.5 in the secondary data results: Prostate Cancer Incidence Rate (with a score above 2), Cancer in the Medicare Population, Colorectal Cancer Incidence Rate, and Age-Adjusted Death Rate due to Colorectal Cancer. In Fort Bend County, indicators with indicator scores equal to or above 1.5 are Cancer in the Medicare Population and Prostate Cancer Incidence Rate. In Harris County, 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. In Waller County, the Age-Adjusted Death Rate due to Breast Cancer received a score of 1.53.

### *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 early detection and 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, Breast Cancer, Oncology Nutrition Therapy, Stress Relief, Look Good Feel Better, Yoga, Meditation, and Healthy Eating Advices.

## Education

### *Secondary Data*

Education was the fifth most important topic in Austin County's secondary data results; Infants Born to Mothers with Less than 12 Years Education and People 25+ with a High School Degree or Higher received indicator scores above 1.5. 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. Education was the fourth most important topic in Waller County's secondary data results; an education-related indicator that scored above 2 is 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*

For Austin, Fort Bend and Harris counties, Transportation rose to (or was near) the top of the secondary data scoring results, with a topic score of 1.77 in Austin County, 1.83 in Fort Bend County and 1.82 in Harris County. Austin County has several concerning indicators related to Transportation, including: Mean Travel Time to Work, Solo Drivers with a Long Commute, Workers Commuting by Public Transportation, and Workers who Walk to Work. In both Fort Bend and Harris counties, 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. In Fort Bend County, an additional indicator to note

includes Workers who Drive Alone to Work (with an indicator score of 1.94). Although Transportation was not a high-ranking topic in Waller County's secondary data results, there are two concerning indicators (with scores greater than 2): Mean Travel Time to Work and Solo Drivers with a Long Commute.

### *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.

*“For some individuals that don't have transportation, usually it's a huge challenge. (...) we do partner with Colorado Valley Transit Authority, and they can provide transportation services. Again, the challenge is making sure people are even aware of that, that they know about the program, that they know who to call to arrange that transportation.”*

*“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 days 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*

In both Austin and Waller counties, the Child Food Insecurity Rate scored above 2. 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. Although Children's Health did not receive a topic score above 1.5 in Fort Bend County, an indicator of concern is: Children with Low Access to a Grocery Store.

### *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*

Economy was the fifth highest-ranking topic in the secondary data results for Waller County. With eleven economic indicators scoring above 2, Waller County has the largest number of concerning economic indicators out of the four counties in the service area. With a topic score of 1.55, Economy was one of the top ten topics in the secondary data scoring results for Harris County; eight economic indicators had scores above 2.

Economy was not a high-ranking topic for Austin County, but several indicators received scores greater than 2, including: Children Living Below Poverty Level, Child Food Insecurity Rate, Total Employment Change, Food Insecurity Rate, and Mortgaged Owners Median Monthly Household Costs. Similarly, although Economy was also not a main topic for Fort Bend County, there are several economic indicators scoring above 2: Median Household Gross Rent, Median Monthly

Owner Costs for Households without a Mortgage, and Mortgaged Owners Median Monthly Household Costs.

### *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. One participant noted that while many residents commute to Houston for employment, some opportunities are emerging with larger employers along US-290 and Interstate-10 freeways.

*" (...) 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 MH Rehab Katy’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 27 identifies the number of secondary data health indicators with a health disparity for MH Rehab Katy’s service area. See Appendix B for the specific indicators with significant disparities.

**Table 27. Number of Health Disparities Identified in Secondary Data Analysis**

Austin County	Fort Bend County	Harris County	Waller County
Hispanic or Latino (6)	Hispanic or Latino (7) Other Race (7)	Black or African American (13)	Black or African American (6)
Black or African American (4)	Black or African American (6)	White (8) Hispanic or Latino (8) Other Race (7) American Indian or Alaska Native (6)	Other Race (3) Hispanic or Latino (3)
Other Race (4)	White (4)		
Male (1)	Male (5)	Male (10) Female (3)	N/A
<6 years of age (1)	65+ years of age (2)	<6 years of age (2)	60-64 years of age (2)

Austin County	Fort Bend County	Harris County	Waller County
65+ years of age (1)		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 previously in Table 13, zip code 77080 has a value of 95.6 and zip code 77055 has a value of 82.6. The zip codes with largest proportion of inpatient discharges at MH Rehab Katy, zip codes 77450 and 77449, have SocioNeeds Index values of 9.9 and 53.4, respectively.

## Conclusion

The Community Health Needs Assessment for MH Rehab Katy utilized a comprehensive set of secondary data indicators to measure the health and quality of life needs for MH Rehab Katy'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. MH Rehab Katy will review these priorities more closely during the Implementation Strategy development process and design a plan for addressing these pillars moving forward.

In addition, MH Rehab Katy 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](mailto: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 Rehab Katy Impact Report

## Evaluation Since Prior CHNA

### Priority 1: Healthy Living

<b>Priority 1: Healthy Living</b>				
<b>Goal 1: Achieve long-term improved health for people with chronic and long-term disabilities.</b>				
<b>Chronic Disease Management</b>				
<b>Objective 1.5: Reduce progression or preventable side effects of chronic diseases</b>				
<b>Outcome Indicators:</b>	<b>Annual Baseline</b>	<b>Year 1</b>	<b>Year 2</b>	<b>FY 2020 Target</b>
• Number of participants in support groups	10 - 15 participants	89	40	20 participants
<b>Strategies:</b>		<b>Year 1 Notes</b>	<b>Year 2 Notes</b>	<b>Timeline: Year 1,2,3</b>
1.5.1	Conduct support groups for stroke survivors			1, 2, 3
		<b>Monitoring/Evaluation Approach:</b> • Support group participation records		
		<b>Potential Partners:</b> • Memorial Hermann Katy Hospital • Memorial Hermann Stroke Coordinators		

## Priority 2: Access to Health Care

<b>Priority 2: Health Care Access</b>				
<b>Goal 2: Ensure ease of access to care, services, and supports for people with chronic and long term disabilities.</b>				
<b>Availability of Primary Care and Specialty Providers</b>				
<b>Objective 2.1: Reduce barriers to care for people with disabilities</b>				
<b>Outcome Indicators:</b>	<b>Annual Baseline</b>	<b>Year 1</b>	<b>Year 2</b>	<b>FY 2020 Target</b>
<ul style="list-style-type: none"> <li>Number of hospital's associated counties' calls to Nurse Health Line (MH Katy Rehab - Austin, Colorado, Fort Bend, Harris, Waller)</li> </ul>	31,333	29,072	32,890	31,333
<b>Strategies:</b>		<b>Year 1 Notes</b>	<b>Year 2 Notes</b>	<b>Timeline: Year 1,2,3</b>
2.1.1	Provide a 24/7 free resource via the Nurse Health Line that community members (uninsured and insured) within the MHHS community can call to discuss their health concerns, receive recommendations on the appropriate setting for care, and get connected to appropriate resources (see 2.4.1)			1, 2, 3
		<b>Monitoring/Evaluation Approach:</b>		
		<ul style="list-style-type: none"> <li>Nurse Health Line call logs</li> </ul>		
		<b>Potential Partners:</b>		
		<ul style="list-style-type: none"> <li>Memorial Hermann Community Benefit Corporation</li> </ul>		

<b>Health Care Navigation</b>				
<b>Objective 2.4: Provide opportunities for patients with disabilities to get the services they need when, where, and how they need it</b>				
<b>Outcome Indicators:</b>	<b>Annual Baseline</b>	<b>Year 1</b>	<b>Year 2</b>	<b>FY 2020 Target</b>
<ul style="list-style-type: none"> <li>Number of hospital's associated counties' calls to Nurse Health Line (MH Katy Rehab - Austin, Colorado, Fort Bend, Harris, Waller)</li> </ul>	31,333	29,072	32,890	31,333
<b>Strategies:</b>		<b>Year 1 Notes</b>	<b>Year 2 Notes</b>	<b>Timeline: Year 1,2,3</b>
2.4.1	Provide a 24/7 free resource via the Nurse Health Line that community members (uninsured and insured) within the MHHS community can call to discuss their health concerns, receive recommendations on the appropriate setting for care, and get connected to appropriate resources (see 2.1.1)			1, 2, 3
		<b>Monitoring/Evaluation Approach:</b>		
		<ul style="list-style-type: none"> <li>Nurse Health Line call logs</li> </ul>		
		<b>Potential Partners:</b>		
		<ul style="list-style-type: none"> <li>Memorial Hermann Community Benefit Corporation</li> </ul>		

### 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 Rehabilitation Hospital - Katy but to the community at large.

<b>Priority 3: Behavioral Health</b>				
<b>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.</b>				
<b>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</b>				
<b>Outcome Indicators:</b>	<b>Annual Baseline</b>	<b>Year 1</b>	<b>Year 2</b>	<b>FY 2020 Target</b>
• Decrease in number of ER encounters that result in psychiatric inpatient stay	1,146	1,213	1,135	1,089 5% reduction of baseline
• 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
<b>Strategies:</b>		<b>Year 1 Notes</b>	<b>Year 2 Notes</b>	<b>Timeline: Year 1,2,3</b>
3.1.1: Provide mental health assessment, care, and linkage to services in an acute care setting, 24x7 at Katy Rehab.		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

<b>Priority 3: Behavioral Health</b>			
<b>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.</b>			
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 non-traditional schedule remains a challenge. Continuing this urgent care model of treatment remains a priority, due to limited mental health treatment access in the community.
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.
		<b>Monitoring/Evaluation Approach:</b>	
		<ul style="list-style-type: none"> <li>EMR/registration system (track and trend daily, weekly, monthly)</li> </ul>	

**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.**

**Potential Partners:**

- System acute care campuses
- Memorial Hermann Medical Group
- Network of public and private providers

<b>Objective 3.2: Reduce stigma in order to promote mental wellness and improve community awareness that mental health is part of physical health and overall well-being</b>					
<b>Outcome Indicators:</b>		<b>Annual Baseline</b>	<b>Year 1</b>	<b>Year 2</b>	<b>FY 2020 Target</b>
• Number of presentations/educational sessions for healthcare professionals within MHHS		50 sessions per year	63	71	5% increase over baseline
• Number of presentations/educational sessions for corporations		5	7	8	5% over baseline
• Training on Acute Care Concepts - system nurse resident program		15 trainings (45 hours total/3 hours each)*	18	9	15 trainings (45 hours total/3 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	
<b>Strategies:</b>			<b>Year 1 Notes</b>	<b>Year 2 Notes</b>	<b>Timeline: Year 1,2,3</b>
3.2.1:	Provide mental health education sessions within the MH health system for nurses and physicians				1,2,3
3.2.2:	Work with employer solutions group to provide education and training with corporations on MH topics (stress, PTSD)				1,2,3
		<b>Monitoring/Evaluation Approach:</b>			
		<ul style="list-style-type: none"> <li>• Requests for presentations and sessions tracked via calendar/excel</li> </ul>			
		<b>Potential Partners:</b>			
		<ul style="list-style-type: none"> <li>• System acute care campuses</li> <li>• System Marketing and Communications</li> <li>• Employer solutions group</li> </ul>			

<b>Objective 3.3: Quality of mental health and substance abuse services: access, link, and practice utilizing evidence-based practice to promote overall wellness</b>					
<b>Outcome Indicators:</b>		<b>Annual Baseline</b>	<b>Year 1</b>	<b>Year 2</b>	<b>FY 2020 Target</b>
• Number of Memorial Hermann Crisis Clinic follow-ups post discharge with clinic patients		7,716	6,431	5,154	5% over baseline
• Psychiatric Response Case Management reduction in system ER utilization		54.4%	53.0%	50%	5% increase over baseline
<b>Strategies:</b>			<b>Year 1 Notes</b>	<b>Year 2 Notes</b>	<b>Timeline: Year 1,2,3</b>
3.3.1: Social workers follow-up with discharged patients and their families to assess well-being and connect them to community resources			The goal is to continue to educate the community, including other health systems, about the crisis clinic level of care so that when someone is experiencing a mental health crisis or needs immediate access to a behavioral health provider, the clinic will be the identified referral source.	The System has seen an overall increase in patient acuity with complex physical and behavioral health needs requiring higher levels of care. The Crisis Clinic and Psych Response Case Management Programs continue to meet the needs of patients with behavioral health conditions by providing immediate access to a mental health provider.	1,2,3

**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.**

3.3.2:	Psychiatric Response Case Management Program utilizes evidence-based practice interventions (motivational interviewing, MH First Aid, CAMS, etc.) to reduce ER utilization for program enrollees	The lack of crisis housing resources and the target population’s over-reliance on the acute care system produces an ongoing challenge in reducing ER utilization of program enrollees.	Case Managers continue to partner with community agencies in an effort to connect program enrollees to resources for ongoing wellness. Program clinicians continue to use evidence-based practice interventions to reduce ER utilization and improve quality of life.	1,2,3
		<b>Monitoring/Evaluation Approach:</b> <ul style="list-style-type: none"> <li>• Social work logs (Excel spreadsheet)</li> </ul>		
		<b>Potential Partners:</b> <ul style="list-style-type: none"> <li>• System acute care campuses</li> <li>• Community-based clinical providers</li> <li>• Network of public and private providers</li> </ul>		



## 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 Rehabilitation Hospital – Katy’s Community Health Needs Assessment.

#### *Austin County*

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

#### *Fort Bend County*

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

### *Harris County*

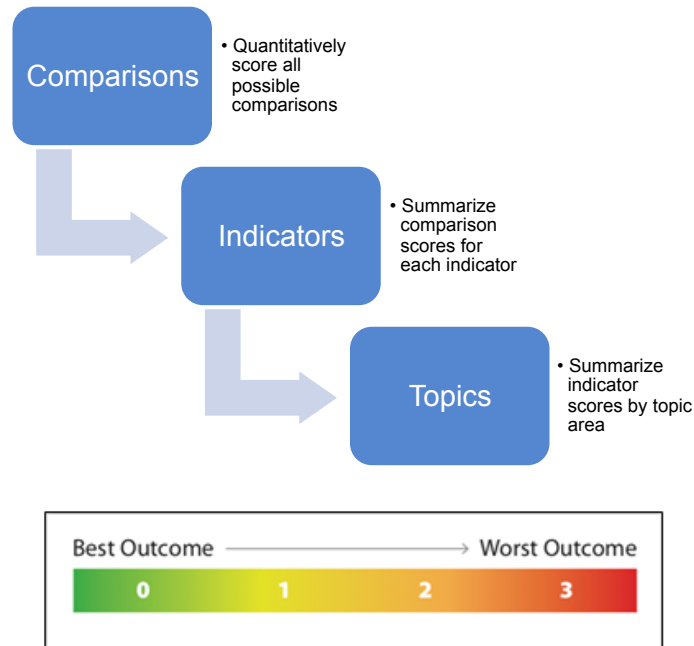
1. American Community Survey
2. American Lung Association
3. Centers for Medicare & Medicaid Services
4. County Health Rankings
5. Feeding America
6. Institute for Health Metrics and Evaluation
7. National Cancer Institute
8. National Center for Education Statistics
9. Small Area Health Insurance Estimates
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

### *Waller County*

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

## Secondary Data Scoring

Data scoring is done in three stages:



For each indicator, each county in Memorial Hermann Rehabilitation Hospital – Katy’s 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 each of the counties in Memorial Hermann Rehabilitation Hospital – Katy’s service area. Secondary data for this report are up to date as of November 2, 2018.

## Austin County

SCORE	ACCESS TO HEALTH SERVICES	UNITS	AUSTIN COUNTY	HP2020	TEXAS	U.S.	MEASUREMENT PERIOD	HIGH DISPARITY*	Source
2.44	Mental Health Provider Rate	<i>providers/ 100,000 population</i>	26.9		98.8	214.3	2017		3
2.39	Primary Care Provider Rate	<i>providers/ 100,000 population</i>	23.7		59.9	75.5	2015		3
2.22	Non-Physician Primary Care Provider Rate	<i>providers/ 100,000 population</i>	37		66.8	81.2	2017		3
1.89	Dentist Rate	<i>dentists/ 100,000 population</i>	37		55.9	67.4	2016		3
1.64	Adults with Health Insurance: 18-64	<i>percent</i>	78.3	100	77.4		2016		8
1.64	Persons with Health Insurance	<i>percent</i>	81.7	100	81.4		2016		8
1.58	Children with Health Insurance	<i>percent</i>	89.3	100	90.3		2016		8
SCORE	CANCER	UNITS	AUSTIN COUNTY	HP2020	TEXAS	U.S.	MEASUREMENT PERIOD	HIGH DISPARITY*	Source
2.06	Prostate Cancer Incidence Rate	<i>cases/ 100,000 males</i>	114.1		95.4	109	2011-2015		6
1.94	Cancer: Medicare Population	<i>percent</i>	7.6		7.1	7.8	2015		2
1.94	Colorectal Cancer Incidence Rate	<i>cases/ 100,000 population</i>	42.1	39.9	38.1	39.2	2011-2015		6
1.67	Age-Adjusted Death Rate due to Colorectal Cancer	<i>deaths/ 100,000 population</i>	15.3	14.5	14.4	14.5	2011-2015		6
1.22	Oral Cavity and Pharynx Cancer Incidence Rate	<i>cases/ 100,000 population</i>	11.3		10.9	11.6	2011-2015		6
1.00	Age-Adjusted Death Rate due to Lung Cancer	<i>deaths/ 100,000 population</i>	39.9	45.5	39	43.4	2011-2015		6

0.75	Age-Adjusted Death Rate due to Breast Cancer	deaths/ 100,000 females	18.3	20.7	20.2	20.9	2011-2015		6
0.72	All Cancer Incidence Rate	cases/ 100,000 population	377.7		401.3	441.2	2011-2015		6
0.67	Age-Adjusted Death Rate due to Cancer	deaths/ 100,000 population	150.6	161.4	156.4	163.5	2011-2015		6
0.67	Lung and Bronchus Cancer Incidence Rate	cases/ 100,000 population	48.1		53.1	60.2	2011-2015		6
0.56	Breast Cancer Incidence Rate	cases/ 100,000 females	94		111.7	124.7	2011-2015		6
SCORE	<b>CHILDREN'S HEALTH</b>	UNITS	AUSTIN COUNTY	HP2020	TEXAS	U.S.	MEASUREMENT PERIOD	HIGH DISPARITY*	Source
2.17	Child Food Insecurity Rate	percent	24.2		23	17.9	2016		4
1.58	Children with Health Insurance	percent	89.3	100	90.3		2016		8
1.17	Children with Low Access to a Grocery Store	percent	2.5				2015		15
0.67	Substantiated Child Abuse Rate	cases/ 1,000 children	2.1		8.5		2017		9
SCORE	<b>ECONOMY</b>	UNITS	AUSTIN COUNTY	HP2020	TEXAS	U.S.	MEASUREMENT PERIOD	HIGH DISPARITY*	Source
2.33	Children Living Below Poverty Level	percent	25.3		23.9	21.2	2012-2016	Hispanic or Latino, Other	1
2.17	Child Food Insecurity Rate	percent	24.2		23	17.9	2016		4
2.17	Total Employment Change	percent	-0.7		3.2	2.5	2014-2015		14
2.06	Food Insecurity Rate	percent	15.8		15.4	12.9	2016		4
2.03	Mortgaged Owners Median Monthly Household Costs	dollars	1512		1444	1491	2012-2016		1

1.78	Female Population 16+ in Civilian Labor Force	percent	54.4		57.7	58.3	2012-2016		1
1.58	Median Monthly Owner Costs for Households without a Mortgage	dollars	448		467	462	2012-2016		1
1.53	Median Household Gross Rent	dollars	852		911	949	2012-2016		1
1.44	Families Living Below Poverty Level	percent	11.2		13	11	2012-2016	Hispanic or Latino, Other	1
1.44	Population 16+ in Civilian Labor Force	percent	62.1		64.2	63.1	2012-2016		1
1.44	Renters Spending 30% or More of Household Income on Rent	percent	42.3		48	47.3	2012-2016		1
1.33	People Living Below Poverty Level	percent	14.5		16.7	15.1	2012-2016	<6 Black or African American, Hispanic or Latino, Other	1
1.28	Unemployed Workers in Civilian Labor Force	percent	3.7		4	4.1	July 2018		13
1.22	SNAP Certified Stores	stores/ 1,000 population	0.9				2016		15
1.14	Median Housing Unit Value	dollars	164300		142700	184700	2012-2016		1
1.11	Households with Cash Public Assistance Income	percent	1.5		1.6	2.7	2012-2016		1
1.11	People Living 200% Above Poverty Level	percent	68.2		62.8	66.4	2012-2016		1
1.08	Persons with Disability Living in Poverty (5-year)	percent	24		25.1	27.6	2012-2016		1
1.00	Low-Income and Low Access to a Grocery Store	percent	3.5				2015		15
0.89	Homeowner Vacancy Rate	percent	1.6		1.6	1.8	2012-2016		1



<b>0.83</b>	Students Eligible for the Free Lunch Program	<i>percent</i>	42.9		52.9	42.6	2015-2016		7
<b>0.72</b>	Median Household Income	<i>dollars</i>	56681		54727	55322	2012-2016	Black or African American	1
<b>0.72</b>	Severe Housing Problems	<i>percent</i>	12.3		18.3	18.8	2010-2014		3
<b>0.67</b>	Per Capita Income	<i>dollars</i>	28351		27828	29829	2012-2016	Black or African American, Hispanic or Latino, Other, Two or More Races	1
<b>0.56</b>	Homeownership	<i>percent</i>	63.5		55	55.9	2012-2016		1
<b>0.56</b>	People 65+ Living Below Poverty Level	<i>percent</i>	7.6		10.8	9.3	2012-2016		1
SCORE	<b>EDUCATION</b>	UNITS	AUSTIN COUNTY	HP2020	TEXAS	U.S.	MEASUREMENT PERIOD	HIGH DISPARITY*	Source
<b>1.81</b>	Infants Born to Mothers with <12 Years Education	<i>percent</i>	22.1		21.6	15.9	2013		10
<b>1.61</b>	People 25+ with a High School Degree or Higher	<i>percent</i>	82.4		82.3	87	2012-2016	65+ Hispanic or Latino	1
<b>1.50</b>	People 25+ with a Bachelor's Degree or Higher	<i>percent</i>	21		28.1	30.3	2012-2016	Black or African American, Hispanic or Latino	1
<b>1.28</b>	Student-to-Teacher Ratio	<i>students/ teacher</i>	14		15.4	17.7	2015-2016		7
<b>1.22</b>	High School Drop Out Rate	<i>percent</i>	0.9		2		2016		11
SCORE	<b>ENVIRONMENT</b>	UNITS	AUSTIN COUNTY	HP2020	TEXAS	U.S.	MEASUREMENT PERIOD	HIGH DISPARITY*	Source
<b>2.17</b>	Houses Built Prior to 1950	<i>percent</i>	17.6		7.4	18.2	2012-2016		1

2.00	Access to Exercise Opportunities	percent	66.2		80.6	83.1	2018		3
1.61	Recognized Carcinogens Released into Air	pounds	21				2017		16
1.50	Farmers Market Density	markets/ 1,000 population	0				2016		15
1.50	Households with No Car and Low Access to a Grocery Store	percent	2.4				2015		15
1.39	Grocery Store Density	stores/ 1,000 population	0.2				2014		15
1.39	PBT Released	pounds	21				2017		16
1.33	People 65+ with Low Access to a Grocery Store	percent	2.4				2015		15
1.22	Fast Food Restaurant Density	restaurants/ 1,000 population	0.5				2014		15
1.22	SNAP Certified Stores	stores/ 1,000 population	0.9				2016		15
1.17	Children with Low Access to a Grocery Store	percent	2.5				2015		15
1.00	Low-Income and Low Access to a Grocery Store	percent	3.5				2015		15
0.89	Liquor Store Density	stores/ 100,000 population	6.8		6.8	10.5	2015		14
0.89	Recreation and Fitness Facilities	facilities/ 1,000 population	0.1				2014		15
0.75	Drinking Water Violations	percent	0		6.6		FY 2013-14		3
0.72	Food Environment Index		7.7		6	7.7	2018		3
0.72	Severe Housing Problems	percent	12.3		18.3	18.8	2010-2014		3
SCORE	<b>EXERCISE, NUTRITION, &amp; WEIGHT</b>	UNITS	AUSTIN COUNTY	HP2020	TEXAS	U.S.	MEASUREMENT PERIOD	HIGH DISPARITY*	Source

2.17	Child Food Insecurity Rate	percent	24.2		23	17.9	2016		4
2.11	Workers who Walk to Work	percent	1.7	3.1	1.6	2.8	2012-2016		1
2.06	Food Insecurity Rate	percent	15.8		15.4	12.9	2016		4
2.00	Access to Exercise Opportunities	percent	66.2		80.6	83.1	2018		3
1.50	Farmers Market Density	markets/ 1,000 population	0				2016		15
1.50	Households with No Car and Low Access to a Grocery Store	percent	2.4				2015		15
1.39	Grocery Store Density	stores/ 1,000 population	0.2				2014		15
1.33	People 65+ with Low Access to a Grocery Store	percent	2.4				2015		15
1.22	Fast Food Restaurant Density	restaurants/ 1,000 population	0.5				2014		15
1.22	SNAP Certified Stores	stores/ 1,000 population	0.9				2016		15
1.17	Children with Low Access to a Grocery Store	percent	2.5				2015		15
1.00	Low-Income and Low Access to a Grocery Store	percent	3.5				2015		15
0.89	Recreation and Fitness Facilities	facilities/ 1,000 population	0.1				2014		15
0.72	Food Environment Index		7.7		6	7.7	2018		3
SCORE	<b>HEART DISEASE &amp; STROKE</b>	UNITS	AUSTIN COUNTY	HP2020	TEXAS	U.S.	MEASUREMENT PERIOD	HIGH DISPARITY*	Source
2.28	Atrial Fibrillation: Medicare Population	percent	8.7		7.4	8.1	2015		2
2.28	Stroke: Medicare Population	percent	4.7		4.5	4	2015		2

2.17	Hyperlipidemia: Medicare Population	percent	46.8		46.1	44.6	2015		2
1.94	Hypertension: Medicare Population	percent	59.6		57.5	55	2015		2
1.56	Heart Failure: Medicare Population	percent	15.1		15.5	13.5	2015		2
1.25	Age-Adjusted Death Rate due to Heart Disease	deaths/ 100,000 population	176.7		173	171.9	2010-2014		10
1.22	Ischemic Heart Disease: Medicare Population	percent	26.9		28.8	26.5	2015		2
0.86	Age-Adjusted Death Rate due to Cerebrovascular Disease (Stroke)	deaths/ 100,000 population	36.7	34.8	42	37.3	2010-2014		10
SCORE	<b>IMMUNIZATIONS &amp; INFECTIOUS DISEASES</b>	UNITS	AUSTIN COUNTY	HP2020	TEXAS	U.S.	MEASUREMENT PERIOD	HIGH DISPARITY*	Source
1.83	Age-Adjusted Death Rate due to Influenza and Pneumonia	deaths/ 100,000 population	16.1		14.2	15.2	2010-2014		10
1.61	Tuberculosis Incidence Rate	cases/ 100,000 population	2.1	1	4.5		2013-2017		10
1.39	HIV Diagnosis Rate	cases/ 100,000 population	10.1		16.1		2016		10
1.28	Chlamydia Incidence Rate	cases/ 100,000 population	238.4		511.6		2017		10
1.28	Syphilis Incidence Rate	cases/ 100,000 population	3.4		40.6		2017		10
1.17	Gonorrhea Incidence Rate	cases/ 100,000 population	73.9		160.2		2017		10
SCORE	<b>MATERNAL, FETAL &amp; INFANT HEALTH</b>	UNITS	AUSTIN COUNTY	HP2020	TEXAS	U.S.	MEASUREMENT PERIOD	HIGH DISPARITY*	Source

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2.31	Preterm Births	percent	14.8	9.4	12	11.4	2013		10
1.97	Mothers who Received Early Prenatal Care	percent	55.2	77.9	59.2	74.2	2013		10
1.81	Infants Born to Mothers with <12 Years Education	percent	22.1		21.6	15.9	2013		10
1.75	Babies with Low Birth Weight	percent	8.2	7.8	8.3	8	2013		10
1.69	Teen Births	percent	3.6		2.8	4.3	2014		10
0.47	Infant Mortality Rate	deaths/ 1,000 live births	3	6	5.8	6	2013		10
SCORE	<b>MENTAL HEALTH &amp; MENTAL DISORDERS</b>	UNITS	AUSTIN COUNTY	HP2020	TEXAS	U.S.	MEASUREMENT PERIOD	HIGH DISPARITY*	Source
2.44	Mental Health Provider Rate	providers/ 100,000 population	26.9		98.8	214.3	2017		3
2.17	Age-Adjusted Death Rate due to Suicide	deaths/ 100,000 population	16.6	10.2	11.7	12.5	2010-2014		10
1.33	Poor Mental Health: Average Number of Days	days	3.6		3.4	3.8	2016		3
1.25	Age-Adjusted Death Rate due to Alzheimer's Disease	deaths/ 100,000 population	22.8		26.6	24.5	2010-2014		10
1.17	Frequent Mental Distress	percent	10.9		10.6	15	2016		3
1.00	Alzheimer's Disease or Dementia: Medicare Population	percent	9.9		11.7	9.9	2015		2
1.00	Depression: Medicare Population	percent	14.4		17	16.7	2015		2
SCORE	<b>OLDER ADULTS &amp; AGING</b>	UNITS	AUSTIN COUNTY	HP2020	TEXAS	U.S.	MEASUREMENT PERIOD	HIGH DISPARITY*	Source

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2.28	Atrial Fibrillation: Medicare Population	percent	8.7		7.4	8.1	2015		2
2.28	Stroke: Medicare Population	percent	4.7		4.5	4	2015		2
2.17	Hyperlipidemia: Medicare Population	percent	46.8		46.1	44.6	2015		2
2.00	Rheumatoid Arthritis or Osteoarthritis: Medicare Population	percent	32.2		31.6	30	2015		2
1.94	Cancer: Medicare Population	percent	7.6		7.1	7.8	2015		2
1.94	Hypertension: Medicare Population	percent	59.6		57.5	55	2015		2
1.56	Heart Failure: Medicare Population	percent	15.1		15.5	13.5	2015		2
1.33	People 65+ with Low Access to a Grocery Store	percent	2.4				2015		15
1.28	COPD: Medicare Population	percent	10.5		11.1	11.2	2015		2
1.25	Age-Adjusted Death Rate due to Alzheimer's Disease	deaths/ 100,000 population	22.8		26.6	24.5	2010-2014		10
1.22	Ischemic Heart Disease: Medicare Population	percent	26.9		28.8	26.5	2015		2
1.17	Asthma: Medicare Population	percent	7.3		8.2	8.2	2015		2
1.17	People 65+ Living Alone	percent	25.2		23.9	26.4	2012-2016		1
1.00	Alzheimer's Disease or Dementia: Medicare Population	percent	9.9		11.7	9.9	2015		2
1.00	Chronic Kidney Disease: Medicare Population	percent	15.2		19.9	18.1	2015		2
1.00	Depression: Medicare Population	percent	14.4		17	16.7	2015		2
0.78	Osteoporosis: Medicare Population	percent	4.7		6.5	6	2015		2

0.67	Diabetes: Medicare Population	percent	25		28.2	26.5	2015		2
0.56	People 65+ Living Below Poverty Level	percent	7.6		10.8	9.3	2012-2016		1
SCORE	<b>OTHER CHRONIC DISEASES</b>	UNITS	AUSTIN COUNTY	HP2020	TEXAS	U.S.	MEASUREMENT PERIOD	HIGH DISPARITY*	Source
2.00	Rheumatoid Arthritis or Osteoarthritis: Medicare Population	percent	32.2		31.6	30	2015		2
1.00	Chronic Kidney Disease: Medicare Population	percent	15.2		19.9	18.1	2015		2
0.78	Osteoporosis: Medicare Population	percent	4.7		6.5	6	2015		2
SCORE	<b>PREVENTION &amp; SAFETY</b>	UNITS	AUSTIN COUNTY	HP2020	TEXAS	U.S.	MEASUREMENT PERIOD	HIGH DISPARITY*	Source
1.75	Age-Adjusted Death Rate due to Unintentional Injuries	deaths/ 100,000 population	48.5	36.4	37.6	39.2	2010-2014		10
0.72	Severe Housing Problems	percent	12.3		18.3	18.8	2010-2014		3
0.50	Death Rate due to Drug Poisoning	deaths/ 100,000 population	5.6		9.4	12.4	2006-2012		3
SCORE	<b>PUBLIC SAFETY</b>	UNITS	AUSTIN COUNTY	HP2020	TEXAS	U.S.	MEASUREMENT PERIOD	HIGH DISPARITY*	Source
1.44	Violent Crime Rate	crimes/ 100,000 population	240.1		407.6		2012-2014		3
0.67	Substantiated Child Abuse Rate	cases/ 1,000 children	2.1		8.5		2017		9
0.33	Alcohol-Impaired Driving Deaths	percent	18.2		28.3	29.3	2012-2016		3

SCORE	RESPIRATORY DISEASES	UNITS	AUSTIN COUNTY	HP2020	TEXAS	U.S.	MEASUREMENT PERIOD	HIGH DISPARITY*	Source
1.83	Age-Adjusted Death Rate due to Influenza and Pneumonia	deaths/ 100,000 population	16.1		14.2	15.2	2010-2014		10
1.61	Tuberculosis Incidence Rate	cases/ 100,000 population	2.1	1	4.5		2013-2017		10
1.28	COPD: Medicare Population	percent	10.5		11.1	11.2	2015		2
1.17	Asthma: Medicare Population	percent	7.3		8.2	8.2	2015		2
1.00	Age-Adjusted Death Rate due to Lung Cancer	deaths/ 100,000 population	39.9	45.5	39	43.4	2011-2015		6
0.67	Lung and Bronchus Cancer Incidence Rate	cases/ 100,000 population	48.1		53.1	60.2	2011-2015		6
SCORE	SOCIAL ENVIRONMENT	UNITS	AUSTIN COUNTY	HP2020	TEXAS	U.S.	MEASUREMENT PERIOD	HIGH DISPARITY*	Source
2.61	Mean Travel Time to Work	minutes	30.3		25.9	26.1	2012-2016	Male	1
2.33	Children Living Below Poverty Level	percent	25.3		23.9	21.2	2012-2016	Hispanic or Latino, Other	1
2.17	Total Employment Change	percent	-0.7		3.2	2.5	2014-2015		14
2.03	Mortgaged Owners Median Monthly Household Costs	dollars	1512		1444	1491	2012-2016		1
1.78	Female Population 16+ in Civilian Labor Force	percent	54.4		57.7	58.3	2012-2016		1
1.64	Persons with Health Insurance	percent	81.7	100	81.4		2016		8
1.61	People 25+ with a High School Degree or Higher	percent	82.4		82.3	87	2012-2016	65+ Hispanic or Latino	1

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1.58	Median Monthly Owner Costs for Households without a Mortgage	dollars	448		467	462	2012-2016		1
1.53	Median Household Gross Rent	dollars	852		911	949	2012-2016		1
1.50	People 25+ with a Bachelor's Degree or Higher	percent	21		28.1	30.3	2012-2016	Black or African American, Hispanic or Latino	1
1.44	Population 16+ in Civilian Labor Force	percent	62.1		64.2	63.1	2012-2016		1
1.33	People Living Below Poverty Level	percent	14.5		16.7	15.1	2012-2016	<6 Black or African American, Hispanic or Latino, Other	1
1.33	Voter Turnout: Presidential Election	percent	63.7		58.8		2016		12
1.17	Linguistic Isolation	percent	3.5		7.9	4.5	2012-2016		1
1.17	People 65+ Living Alone	percent	25.2		23.9	26.4	2012-2016		1
1.14	Median Housing Unit Value	dollars	164300		142700	184700	2012-2016		1
0.83	Single-Parent Households	percent	29		33.3	33.6	2012-2016		1
0.72	Median Household Income	dollars	56681		54727	55322	2012-2016	Black or African American	1
0.67	Per Capita Income	dollars	28351		27828	29829	2012-2016	Black or African American, Hispanic or Latino, Other, Two or More Races	1
0.67	Substantiated Child Abuse Rate	cases/1,000 children	2.1		8.5		2017		9
0.56	Homeownership	percent	63.5		55	55.9	2012-2016		1
SCORE	<b>SUBSTANCE ABUSE</b>	UNITS	AUSTIN COUNTY	HP2020	TEXAS	U.S.	MEASUREMENT PERIOD	HIGH DISPARITY*	Source
1.50	Adults who Drink Excessively	percent	18.3	25.4	19.4	18	2016		3

0.89	Liquor Store Density	<i>stores/ 100,000 population</i>	6.8		6.8	10.5	2015		14
0.50	Death Rate due to Drug Poisoning	<i>deaths/ 100,000 population</i>	5.6		9.4	12.4	2006-2012		3
0.33	Alcohol-Impaired Driving Deaths	<i>percent</i>	18.2		28.3	29.3	2012-2016		3
SCORE	<b>TRANSPORTATION</b>	UNITS	AUSTIN COUNTY	HP2020	TEXAS	U.S.	MEASUREMENT PERIOD	HIGH DISPARITY*	Source
2.61	Mean Travel Time to Work	<i>minutes</i>	30.3		25.9	26.1	2012-2016	Male	1
2.44	Solo Drivers with a Long Commute	<i>percent</i>	39.6		36.9	34.7	2012-2016		3
2.17	Workers Commuting by Public Transportation	<i>percent</i>	0.1	5.5	1.5	5.1	2012-2016		1
2.11	Workers who Walk to Work	<i>percent</i>	1.7	3.1	1.6	2.8	2012-2016		1
1.50	Households with No Car and Low Access to a Grocery Store	<i>percent</i>	2.4				2015		15
1.00	Workers who Drive Alone to Work	<i>percent</i>	79.5		80.3	76.4	2012-2016		1
0.56	Households without a Vehicle	<i>percent</i>	4		5.6	9	2012-2016		1
SCORE	<b>WELLNESS &amp; LIFESTYLE</b>	UNITS	AUSTIN COUNTY	HP2020	TEXAS	U.S.	MEASUREMENT PERIOD	HIGH DISPARITY*	Source
1.50	Life Expectancy for Females	<i>years</i>	80.4		80.8	81.5	2014		5
1.50	Self-Reported General Health Assessment: Poor or Fair	<i>percent</i>	16.9		18.2	16	2016		3
1.39	Life Expectancy for Males	<i>years</i>	76		76.2	76.7	2014		5

<b>1.00</b>	Poor Physical Health: Average Number of Days	<i>days</i>	3.4		3.5	3.7	2016		3
<b>0.83</b>	Frequent Physical Distress	<i>percent</i>	10.6		10.8	15	2016		3
<b>0.83</b>	Insufficient Sleep	<i>percent</i>	30.2		32.7	38	2016		3
SCORE	<b>WOMEN'S HEALTH</b>	UNITS	AUSTIN COUNTY	HP2020	TEXAS	U.S.	MEASUREMENT PERIOD	HIGH DISPARITY*	Source
<b>1.50</b>	Life Expectancy for Females	<i>years</i>	80.4		80.8	81.5	2014		5
<b>0.75</b>	Age-Adjusted Death Rate due to Breast Cancer	<i>deaths/ 100,000 females</i>	18.3	20.7	20.2	20.9	2011-2015		6
<b>0.56</b>	Breast Cancer Incidence Rate	<i>cases/ 100,000 females</i>	94		111.7	124.7	2011-2015		6

## Fort Bend County

SCORE	ACCESS TO HEALTH SERVICES	UNITS	FORT BEND COUNTY	HP2020	TEXAS	U.S.	MEASUREMENT PERIOD	HIGH DISPARITY*	Source
2.11	Mental Health Provider Rate	<i>providers/ 100,000 population</i>	59.8		98.8	214.3	2017		3
1.67	Non-Physician Primary Care Provider Rate	<i>providers/ 100,000 population</i>	52.2		66.8	81.2	2017		3
1.17	Dentist Rate	<i>dentists/ 100,000 population</i>	51.8		55.9	67.4	2016		3
1.08	Persons with Health Insurance	<i>percent</i>	88	100	81.4		2016		8
0.97	Children with Health Insurance	<i>percent</i>	93.3	100	90.3		2016		8
0.92	Adults with Health Insurance: 18-64	<i>percent</i>	85.4	100	77.4		2016		8
0.33	Primary Care Provider Rate	<i>providers/ 100,000 population</i>	80.3		59.9	75.5	2015		3
SCORE	CANCER	UNITS	FORT BEND COUNTY	HP2020	TEXAS	U.S.	MEASUREMENT PERIOD	HIGH DISPARITY*	Source
1.56	Cancer: Medicare Population	<i>percent</i>	7.3		7.1	7.8	2015		2
1.50	Prostate Cancer Incidence Rate	<i>cases/ 100,000 males</i>	103.8		95.4	109	2011-2015		6
1.17	Breast Cancer Incidence Rate	<i>cases/ 100,000 females</i>	114.7		111.7	124.7	2011-2015		6
0.56	Oral Cavity and Pharynx Cancer Incidence Rate	<i>cases/ 100,000 population</i>	10		10.9	11.6	2011-2015		6
0.50	All Cancer Incidence Rate	<i>cases/ 100,000 population</i>	367.6		401.3	441.2	2011-2015		6
0.47	Age-Adjusted Death Rate due to Breast Cancer	<i>deaths/ 100,000 females</i>	18.1	20.7	20.2	20.9	2011-2015		6
0.47	Cervical Cancer Incidence Rate	<i>cases/ 100,000 females</i>	6.4	7.3	9.2	7.5	2011-2015		6

<b>0.25</b>	Age-Adjusted Death Rate due to Prostate Cancer	<i>deaths/ 100,000 males</i>	14.6	21.8	18.1	19.5	2011-2015		6
<b>0.22</b>	Age-Adjusted Death Rate due to Colorectal Cancer	<i>deaths/ 100,000 population</i>	11.9	14.5	14.4	14.5	2011-2015		6
<b>0.17</b>	Lung and Bronchus Cancer Incidence Rate	<i>cases/ 100,000 population</i>	39.5		53.1	60.2	2011-2015		6
<b>0.00</b>	Age-Adjusted Death Rate due to Cancer	<i>deaths/ 100,000 population</i>	126.2	161.4	156.4	163.5	2011-2015	Male	6
<b>0.00</b>	Age-Adjusted Death Rate due to Lung Cancer	<i>deaths/ 100,000 population</i>	28.1	45.5	39	43.4	2011-2015		6
<b>0.00</b>	Colorectal Cancer Incidence Rate	<i>cases/ 100,000 population</i>	34	39.9	38.1	39.2	2011-2015		6
SCORE	<b>CHILDREN'S HEALTH</b>	UNITS	FORT BEND COUNTY	HP2020	TEXAS	U.S.	MEASUREMENT PERIOD	HIGH DISPARITY*	Source
<b>1.83</b>	Children with Low Access to a Grocery Store	<i>percent</i>	7.4				2015		15
<b>1.11</b>	Substantiated Child Abuse Rate	<i>cases/ 1,000 children</i>	3.5		8.5		2017		9
<b>0.97</b>	Children with Health Insurance	<i>percent</i>	93.3	100	90.3		2016		8
<b>0.67</b>	Child Food Insecurity Rate	<i>percent</i>	19.1		23	17.9	2016		4
SCORE	<b>ECONOMY</b>	UNITS	FORT BEND COUNTY	HP2020	TEXAS	U.S.	MEASUREMENT PERIOD	HIGH DISPARITY*	Source
<b>2.58</b>	Median Household Gross Rent	<i>dollars</i>	1252		911	949	2012-2016		1
<b>2.36</b>	Median Monthly Owner Costs for Households without a Mortgage	<i>dollars</i>	712		467	462	2012-2016		1
<b>2.25</b>	Mortgaged Owners Median Monthly Household Costs	<i>dollars</i>	1884		1444	1491	2012-2016		1
<b>1.89</b>	SNAP Certified Stores	<i>stores/ 1,000 population</i>	0.4				2016		15

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1.78	Unemployed Workers in Civilian Labor Force	percent	4.1		4	4.1	July 2018		13
1.56	Food Insecurity Rate	percent	14.8		15.4	12.9	2016		4
1.50	Low-Income and Low Access to a Grocery Store	percent	7.1				2015		15
1.17	Female Population 16+ in Civilian Labor Force	percent	59.3		57.7	58.3	2012-2016		1
1.17	Population 16+ in Civilian Labor Force	percent	66.9		64.2	63.1	2012-2016		1
1.06	Renters Spending 30% or More of Household Income on Rent	percent	40.1		48	47.3	2012-2016		1
1.06	Severe Housing Problems	percent	14.8		18.3	18.8	2010-2014		3
0.75	Persons with Disability Living in Poverty (5-year)	percent	15.6		25.1	27.6	2012-2016		1
0.67	Child Food Insecurity Rate	percent	19.1		23	17.9	2016		4
0.64	Persons with Disability Living in Poverty	percent	16.2		24.2	26.6	2016		1
0.56	Households with Cash Public Assistance Income	percent	1.1		1.6	2.7	2012-2016		1
0.50	Total Employment Change	percent	6.2		3.2	2.5	2014-2015		14
0.42	Median Housing Unit Value	dollars	217600		142700	184700	2012-2016		1
0.39	Children Living Below Poverty Level	percent	11.2		23.9	21.2	2012-2016	Hispanic or Latino, Other	1
0.39	Families Living Below Poverty Level	percent	6.4		13	11	2012-2016	Hispanic or Latino, Other	1
0.39	Homeownership	percent	74.4		55	55.9	2012-2016		1
0.39	People 65+ Living Below Poverty Level	percent	6.9		10.8	9.3	2012-2016	Hispanic or Latino, Other	1
0.39	People Living Below Poverty Level	percent	8.2		16.7	15.1	2012-2016	Hispanic or Latino, Other, <6, 6-11, 12-17, 18-24	1
0.17	Homeowner Vacancy Rate	percent	1.1		1.6	1.8	2012-2016		1

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<b>0.17</b>	Median Household Income	<i>dollars</i>	91152		54727	55322	2012-2016	Black or African American, Hispanic or Latino, Other	1
<b>0.17</b>	People Living 200% Above Poverty Level	<i>percent</i>	79.4		62.8	66.4	2012-2016		1
<b>0.17</b>	Per Capita Income	<i>dollars</i>	37134		27828	29829	2012-2016	Black or African American, Hispanic or Latino, Other, Two or More Races	1
<b>0.17</b>	Students Eligible for the Free Lunch Program	<i>percent</i>	26.7		52.9	42.6	2015-2016		7
SCORE	<b>EDUCATION</b>	UNITS	FORT BEND COUNTY	HP2020	TEXAS	U.S.	MEASUREMENT PERIOD	HIGH DISPARITY*	Source
<b>1.67</b>	Student-to-Teacher Ratio	<i>students/ teacher</i>	16.5		15.4	17.7	2015-2016		7
<b>1.00</b>	High School Drop Out Rate	<i>percent</i>	1.1		2		2016		11
<b>0.89</b>	People 25+ with a High School Degree or Higher	<i>percent</i>	89.2		82.3	87	2012-2016	65+	1
<b>0.42</b>	Infants Born to Mothers with <12 Years Education	<i>percent</i>	9.2		21.6	15.9	2013		10
<b>0.17</b>	People 25+ with a Bachelor's Degree or Higher	<i>percent</i>	44.6		28.1	30.3	2012-2016	Black or African American, Other, Two or More Races, Female, 65+	1
SCORE	<b>ENVIRONMENT</b>	UNITS	FORT BEND COUNTY	HP2020	TEXAS	U.S.	MEASUREMENT PERIOD	HIGH DISPARITY*	Source
<b>1.89</b>	SNAP Certified Stores	<i>stores/ 1,000 population</i>	0.4				2016		15
<b>1.83</b>	Children with Low Access to a Grocery Store	<i>percent</i>	7.4				2015		15
<b>1.83</b>	Grocery Store Density	<i>stores/ 1,000 population</i>	0.1				2014		15

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1.61	Recognized Carcinogens Released into Air	<i>pounds</i>	18132				2017		16
1.50	Farmers Market Density	<i>markets/ 1,000 population</i>	0				2016		15
1.50	Low-Income and Low Access to a Grocery Store	<i>percent</i>	7.1				2015		15
1.39	PBT Released	<i>pounds</i>	18164				2017		16
1.33	Fast Food Restaurant Density	<i>restaurants/ 1,000 population</i>	0.6				2014		15
1.33	Recreation and Fitness Facilities	<i>facilities/ 1,000 population</i>	0.1				2014		15
1.22	Food Environment Index		7.4		6	7.7	2018		3
1.17	People 65+ with Low Access to a Grocery Store	<i>percent</i>	1.9				2015		15
1.08	Drinking Water Violations	<i>percent</i>	0.9		6.6		FY 2013-14		3
1.06	Severe Housing Problems	<i>percent</i>	14.8		18.3	18.8	2010-2014		3
1.00	Households with No Car and Low Access to a Grocery Store	<i>percent</i>	1.1				2015		15
0.83	Access to Exercise Opportunities	<i>percent</i>	83.8		80.6	83.1	2018		3
0.61	Liquor Store Density	<i>stores/ 100,000 population</i>	5.2		6.8	10.5	2015		14
0.39	Houses Built Prior to 1950	<i>percent</i>	1.2		7.4	18.2	2012-2016		1
SCORE	<b>EXERCISE, NUTRITION, &amp; WEIGHT</b>	UNITS	FORT BEND COUNTY	HP2020	TEXAS	U.S.	MEASUREMENT PERIOD	HIGH DISPARITY*	Source
2.67	Workers who Walk to Work	<i>percent</i>	0.6	3.1	1.6	2.8	2012-2016	25-44	1
1.89	SNAP Certified Stores	<i>stores/ 1,000 population</i>	0.4				2016		15
1.83	Children with Low Access to a Grocery Store	<i>percent</i>	7.4				2015		15
1.83	Grocery Store Density	<i>stores/ 1,000</i>	0.1				2014		15

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		<i>population</i>							
<b>1.56</b>	Food Insecurity Rate	<i>percent</i>	14.8		15.4	12.9	2016		4
<b>1.50</b>	Farmers Market Density	<i>markets/ 1,000 population</i>	0				2016		15
<b>1.50</b>	Low-Income and Low Access to a Grocery Store	<i>percent</i>	7.1				2015		15
<b>1.33</b>	Fast Food Restaurant Density	<i>restaurants/ 1,000 population</i>	0.6				2014		15
<b>1.33</b>	Recreation and Fitness Facilities	<i>facilities/ 1,000 population</i>	0.1				2014		15
<b>1.22</b>	Food Environment Index		7.4		6	7.7	2018		3
<b>1.17</b>	People 65+ with Low Access to a Grocery Store	<i>percent</i>	1.9				2015		15
<b>1.00</b>	Households with No Car and Low Access to a Grocery Store	<i>percent</i>	1.1				2015		15
<b>0.83</b>	Access to Exercise Opportunities	<i>percent</i>	83.8		80.6	83.1	2018		3
<b>0.67</b>	Child Food Insecurity Rate	<i>percent</i>	19.1		23	17.9	2016		4
SCORE	<b>HEART DISEASE &amp; STROKE</b>	UNITS	FORT BEND COUNTY	HP2020	TEXAS	U.S.	MEASUREMENT PERIOD	HIGH DISPARITY*	Source
<b>2.50</b>	Stroke: Medicare Population	<i>percent</i>	4.7		4.5	4	2015		2
<b>2.17</b>	Hyperlipidemia: Medicare Population	<i>percent</i>	46.6		46.1	44.6	2015		2
<b>1.61</b>	Hypertension: Medicare Population	<i>percent</i>	57.1		57.5	55	2015		2
<b>1.22</b>	Ischemic Heart Disease: Medicare Population	<i>percent</i>	28		28.8	26.5	2015		2
<b>1.06</b>	Heart Failure: Medicare Population	<i>percent</i>	13.9		15.5	13.5	2015		2
<b>0.94</b>	Atrial Fibrillation: Medicare Population	<i>percent</i>	6.9		7.4	8.1	2015		2

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<b>0.64</b>	Age-Adjusted Death Rate due to Cerebrovascular Disease (Stroke)	<i>deaths/ 100,000 population</i>	35.4	34.8	42	37.3	2010-2014		10
<b>0.42</b>	Age-Adjusted Death Rate due to Heart Disease	<i>deaths/ 100,000 population</i>	135		173	171.9	2010-2014	Black, White, Male	10
SCORE	<b>IMMUNIZATIONS &amp; INFECTIOUS DISEASES</b>	UNITS	FORT BEND COUNTY	HP2020	TEXAS	U.S.	MEASUREMENT PERIOD	HIGH DISPARITY*	Source
<b>1.67</b>	Chlamydia Incidence Rate	<i>cases/ 100,000 population</i>	373.5		511.6		2017		10
<b>1.67</b>	Gonorrhea Incidence Rate	<i>cases/ 100,000 population</i>	93		160.2		2017		10
<b>1.67</b>	Syphilis Incidence Rate	<i>cases/ 100,000 population</i>	19		40.6		2017		10
<b>1.56</b>	Tuberculosis Incidence Rate	<i>cases/ 100,000 population</i>	3.7	1	4.5		2013-2017		10
<b>1.22</b>	HIV Diagnosis Rate	<i>cases/ 100,000 population</i>	9.2		16.1		2016		10
<b>1.06</b>	Age-Adjusted Death Rate due to Influenza and Pneumonia	<i>deaths/ 100,000 population</i>	13.6		14.2	15.2	2010-2014		10
SCORE	<b>MATERNAL, FETAL &amp; INFANT HEALTH</b>	UNITS	FORT BEND COUNTY	HP2020	TEXAS	U.S.	MEASUREMENT PERIOD	HIGH DISPARITY*	Source
<b>2.36</b>	Babies with Low Birth Weight	<i>percent</i>	9.3	7.8	8.3	8	2013		10
<b>1.86</b>	Mothers who Received Early Prenatal Care	<i>percent</i>	62.8	77.9	59.2	74.2	2013		10
<b>1.47</b>	Preterm Births	<i>percent</i>	11.5	9.4	12	11.4	2013		10
<b>1.39</b>	Babies with Very Low Birth Weight	<i>percent</i>	1.4	1.4	1.4	1.4	2013		10
<b>0.69</b>	Infant Mortality Rate	<i>deaths/ 1,000 live births</i>	4.3	6	5.8	6	2013		10

<b>0.42</b>	Infants Born to Mothers with <12 Years Education	<i>percent</i>	9.2		21.6	15.9	2013		10
<b>0.42</b>	Teen Births	<i>percent</i>	1		2.8	4.3	2014		10
SCORE	<b>MEN'S HEALTH</b>	UNITS	FORT BEND COUNTY	HP2020	TEXAS	U.S.	MEASUREMENT PERIOD	HIGH DISPARITY*	Source
<b>1.50</b>	Prostate Cancer Incidence Rate	<i>cases/ 100,000 males</i>	103.8		95.4	109	2011-2015		6
<b>0.50</b>	Life Expectancy for Males	<i>years</i>	80.1		76.2	76.7	2014		5
<b>0.25</b>	Age-Adjusted Death Rate due to Prostate Cancer	<i>deaths/ 100,000 males</i>	14.6	21.8	18.1	19.5	2011-2015		6
SCORE	<b>MENTAL HEALTH &amp; MENTAL DISORDERS</b>	UNITS	FORT BEND COUNTY	HP2020	TEXAS	U.S.	MEASUREMENT PERIOD	HIGH DISPARITY*	Source
<b>2.11</b>	Mental Health Provider Rate	<i>providers/ 100,000 population</i>	59.8		98.8	214.3	2017		3
<b>1.33</b>	Alzheimer's Disease or Dementia: Medicare Population	<i>percent</i>	10.2		11.7	9.9	2015		2
<b>0.94</b>	Age-Adjusted Death Rate due to Suicide	<i>deaths/ 100,000 population</i>	7.3	10.2	11.7	12.5	2010-2014	White, Male	10
<b>0.64</b>	Age-Adjusted Death Rate due to Alzheimer's Disease	<i>deaths/ 100,000 population</i>	20.6		26.6	24.5	2010-2014	White	10
<b>0.61</b>	Depression: Medicare Population	<i>percent</i>	12.2		17	16.7	2015		2
<b>0.50</b>	Frequent Mental Distress	<i>percent</i>	9		10.6	15	2016		3
<b>0.50</b>	Poor Mental Health: Average Number of Days	<i>days</i>	3		3.4	3.8	2016		3
SCORE	<b>OLDER ADULTS &amp; AGING</b>	UNITS	FORT BEND COUNTY	HP2020	TEXAS	U.S.	MEASUREMENT PERIOD	HIGH DISPARITY*	Source

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<b>2.50</b>	Stroke: Medicare Population	<i>percent</i>	4.7		4.5	4	2015		2
<b>2.22</b>	Diabetes: Medicare Population	<i>percent</i>	30.8		28.2	26.5	2015		2
<b>2.17</b>	Chronic Kidney Disease: Medicare Population	<i>percent</i>	19.2		19.9	18.1	2015		2
<b>2.17</b>	Hyperlipidemia: Medicare Population	<i>percent</i>	46.6		46.1	44.6	2015		2
<b>1.61</b>	Hypertension: Medicare Population	<i>percent</i>	57.1		57.5	55	2015		2
<b>1.56</b>	Cancer: Medicare Population	<i>percent</i>	7.3		7.1	7.8	2015		2
<b>1.56</b>	Osteoporosis: Medicare Population	<i>percent</i>	6		6.5	6	2015		2
<b>1.33</b>	Alzheimer's Disease or Dementia: Medicare Population	<i>percent</i>	10.2		11.7	9.9	2015		2
<b>1.22</b>	Ischemic Heart Disease: Medicare Population	<i>percent</i>	28		28.8	26.5	2015		2
<b>1.17</b>	People 65+ with Low Access to a Grocery Store	<i>percent</i>	1.9				2015		15
<b>1.06</b>	Heart Failure: Medicare Population	<i>percent</i>	13.9		15.5	13.5	2015		2
<b>0.94</b>	Atrial Fibrillation: Medicare Population	<i>percent</i>	6.9		7.4	8.1	2015		2
<b>0.72</b>	Age-Adjusted Death Rate due to Falls	<i>deaths/ 100,000 population</i>	6	7.2	7.4	8.3	2010-2014		10
<b>0.64</b>	Age-Adjusted Death Rate due to Alzheimer's Disease	<i>deaths/ 100,000 population</i>	20.6		26.6	24.5	2010-2014	White	10
<b>0.61</b>	Asthma: Medicare Population	<i>percent</i>	6.5		8.2	8.2	2015		2
<b>0.61</b>	Depression: Medicare Population	<i>percent</i>	12.2		17	16.7	2015		2
<b>0.61</b>	Rheumatoid Arthritis or Osteoarthritis: Medicare Population	<i>percent</i>	26.1		31.6	30	2015		2
<b>0.39</b>	COPD: Medicare Population	<i>percent</i>	7.7		11.1	11.2	2015		2
<b>0.39</b>	People 65+ Living Alone	<i>percent</i>	15.2		23.9	26.4	2012-2016		1

<b>0.39</b>	People 65+ Living Below Poverty Level	<i>percent</i>	6.9		10.8	9.3	2012-2016	Hispanic or Latino, Other	1
SCORE	<b>OTHER CHRONIC DISEASES</b>	UNITS	FORT BEND COUNTY	HP2020	TEXAS	U.S.	MEASUREMENT PERIOD	HIGH DISPARITY*	Source
<b>2.17</b>	Chronic Kidney Disease: Medicare Population	<i>percent</i>	19.2		19.9	18.1	2015		2
<b>1.56</b>	Osteoporosis: Medicare Population	<i>percent</i>	6		6.5	6	2015		2
<b>0.61</b>	Rheumatoid Arthritis or Osteoarthritis: Medicare Population	<i>percent</i>	26.1		31.6	30	2015		2
SCORE	<b>PREVENTION &amp; SAFETY</b>	UNITS	FORT BEND COUNTY	HP2020	TEXAS	U.S.	MEASUREMENT PERIOD	HIGH DISPARITY*	Source
<b>1.06</b>	Severe Housing Problems	<i>percent</i>	14.8		18.3	18.8	2010-2014		3
<b>0.86</b>	Death Rate due to Drug Poisoning	<i>deaths/ 100,000 population</i>	5.6		9.8	16.9	2014-2016		3
<b>0.72</b>	Age-Adjusted Death Rate due to Falls	<i>deaths/ 100,000 population</i>	6	7.2	7.4	8.3	2010-2014		10
<b>0.47</b>	Age-Adjusted Death Rate due to Unintentional Injuries	<i>deaths/ 100,000 population</i>	24.9	36.4	37.6	39.2	2010-2014	White, Male	10
SCORE	<b>PUBLIC SAFETY</b>	UNITS	FORT BEND COUNTY	HP2020	TEXAS	U.S.	MEASUREMENT PERIOD	HIGH DISPARITY*	Source
<b>2.00</b>	Alcohol-Impaired Driving Deaths	<i>percent</i>	36		28.3	29.3	2012-2016		3
<b>1.11</b>	Substantiated Child Abuse Rate	<i>cases/ 1,000 children</i>	3.5		8.5		2017		9
<b>1.00</b>	Violent Crime Rate	<i>crimes/ 100,000 population</i>	261.5		407.6		2012-2014		3

SCORE	RESPIRATORY DISEASES	UNITS	FORT BEND COUNTY	HP2020	TEXAS	U.S.	MEASUREMENT PERIOD	HIGH DISPARITY*	Source
1.56	Tuberculosis Incidence Rate	<i>cases/ 100,000 population</i>	3.7	1	4.5		2013-2017		10
1.06	Age-Adjusted Death Rate due to Influenza and Pneumonia	<i>deaths/ 100,000 population</i>	13.6		14.2	15.2	2010-2014		10
0.61	Asthma: Medicare Population	<i>percent</i>	6.5		8.2	8.2	2015		2
0.39	COPD: Medicare Population	<i>percent</i>	7.7		11.1	11.2	2015		2
0.17	Lung and Bronchus Cancer Incidence Rate	<i>cases/ 100,000 population</i>	39.5		53.1	60.2	2011-2015		6
0.00	Age-Adjusted Death Rate due to Lung Cancer	<i>deaths/ 100,000 population</i>	28.1	45.5	39	43.4	2011-2015		6
SCORE	SOCIAL ENVIRONMENT	UNITS	FORT BEND COUNTY	HP2020	TEXAS	U.S.	MEASUREMENT PERIOD	HIGH DISPARITY*	Source
2.83	Mean Travel Time to Work	<i>minutes</i>	32.6		25.9	26.1	2012-2016	Male	1
2.58	Median Household Gross Rent	<i>dollars</i>	1252		911	949	2012-2016		1
2.36	Median Monthly Owner Costs for Households without a Mortgage	<i>dollars</i>	712		467	462	2012-2016		1
2.25	Mortgaged Owners Median Monthly Household Costs	<i>dollars</i>	1884		1444	1491	2012-2016		1
1.72	Linguistic Isolation	<i>percent</i>	6.2		7.9	4.5	2012-2016		1
1.17	Female Population 16+ in Civilian Labor Force	<i>percent</i>	59.3		57.7	58.3	2012-2016		1
1.17	Population 16+ in Civilian Labor Force	<i>percent</i>	66.9		64.2	63.1	2012-2016		1
1.11	Substantiated Child Abuse Rate	<i>cases/ 1,000 children</i>	3.5		8.5		2017		9
1.08	Persons with Health Insurance	<i>percent</i>	88	100	81.4		2016		8

0.89	People 25+ with a High School Degree or Higher	percent	89.2		82.3	87	2012-2016	65+	1
0.89	Voter Turnout: Presidential Election	percent	64.8		58.8		2016		12
0.61	Single-Parent Households	percent	22.4		33.3	33.6	2012-2016		1
0.50	Total Employment Change	percent	6.2		3.2	2.5	2014-2015		14
0.42	Median Housing Unit Value	dollars	217600		142700	184700	2012-2016		1
0.39	Children Living Below Poverty Level	percent	11.2		23.9	21.2	2012-2016	Hispanic or Latino, Other	1
0.39	Homeownership	percent	74.4		55	55.9	2012-2016		1
0.39	People 65+ Living Alone	percent	15.2		23.9	26.4	2012-2016		1
0.39	People Living Below Poverty Level	percent	8.2		16.7	15.1	2012-2016	Hispanic or Latino, Other, <6, 6-11, 12-17, 18-24	1
0.17	Median Household Income	dollars	91152		54727	55322	2012-2016	Black or African American, Hispanic or Latino, Other	1
0.17	People 25+ with a Bachelor's Degree or Higher	percent	44.6		28.1	30.3	2012-2016	Black or African American, Other, Two or More Races, Female, 65+	1
0.17	Per Capita Income	dollars	37134		27828	29829	2012-2016	Black or African American, Hispanic or Latino, Other, Two or More Races	1
SCORE	<b>SUBSTANCE ABUSE</b>	UNITS	FORT BEND COUNTY	HP2020	TEXAS	U.S.	MEASUREMENT PERIOD	HIGH DISPARITY*	Source
2.00	Alcohol-Impaired Driving Deaths	percent	36		28.3	29.3	2012-2016		3
1.50	Adults who Drink Excessively	percent	18.3	25.4	19.4	18	2016		3
0.86	Death Rate due to Drug Poisoning	deaths/ 100,000 population	5.6		9.8	16.9	2014-2016		3

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<b>0.61</b>	Liquor Store Density	<i>stores/ 100,000 population</i>	5.2		6.8	10.5	2015		14
<b>SCORE</b>	<b>TRANSPORTATION</b>	<b>UNITS</b>	<b>FORT BEND COUNTY</b>	<b>HP2020</b>	<b>TEXAS</b>	<b>U.S.</b>	<b>MEASUREMENT PERIOD</b>	<b>HIGH DISPARITY*</b>	<b>Source</b>
<b>2.83</b>	Mean Travel Time to Work	<i>minutes</i>	32.6		25.9	26.1	2012-2016	Male	1
<b>2.83</b>	Solo Drivers with a Long Commute	<i>percent</i>	57.5		36.9	34.7	2012-2016		3
<b>2.67</b>	Workers who Walk to Work	<i>percent</i>	0.6	3.1	1.6	2.8	2012-2016	25-44	1
<b>1.94</b>	Workers who Drive Alone to Work	<i>percent</i>	82.3		80.3	76.4	2012-2016	Black or African American, 20-44	1
<b>1.06</b>	Workers Commuting by Public Transportation	<i>percent</i>	1.7	5.5	1.5	5.1	2012-2016	Hispanic or Latino	1
<b>1.00</b>	Households with No Car and Low Access to a Grocery Store	<i>percent</i>	1.1				2015		15
<b>0.50</b>	Households without a Vehicle	<i>percent</i>	2.7		5.6	9	2012-2016		1
<b>SCORE</b>	<b>WELLNESS &amp; LIFESTYLE</b>	<b>UNITS</b>	<b>FORT BEND COUNTY</b>	<b>HP2020</b>	<b>TEXAS</b>	<b>U.S.</b>	<b>MEASUREMENT PERIOD</b>	<b>HIGH DISPARITY*</b>	<b>Source</b>
<b>1.17</b>	Insufficient Sleep	<i>percent</i>	32.5		32.7	38	2016		3
<b>0.72</b>	Life Expectancy for Females	<i>years</i>	83.5		80.8	81.5	2014		5
<b>0.67</b>	Self-Reported General Health Assessment: Poor or Fair	<i>percent</i>	14.1		18.2	16	2016		3
<b>0.50</b>	Frequent Physical Distress	<i>percent</i>	8.7		10.8	15	2016		3
<b>0.50</b>	Life Expectancy for Males	<i>years</i>	80.1		76.2	76.7	2014		5
<b>0.50</b>	Poor Physical Health: Average Number of Days	<i>days</i>	2.9		3.5	3.7	2016		3



SCORE	WOMEN'S HEALTH	UNITS	FORT BEND COUNTY	HP2020	TEXAS	U.S.	MEASUREMENT PERIOD	HIGH DISPARITY*	Source
1.17	Breast Cancer Incidence Rate	<i>cases/ 100,000 females</i>	114.7		111.7	124.7	2011-2015		6
0.72	Life Expectancy for Females	<i>years</i>	83.5		80.8	81.5	2014		5
0.47	Age-Adjusted Death Rate due to Breast Cancer	<i>deaths/ 100,000 females</i>	18.1	20.7	20.2	20.9	2011-2015		6
0.47	Cervical Cancer Incidence Rate	<i>cases/ 100,000 females</i>	6.4	7.3	9.2	7.5	2011-2015		6

## Harris County

SCORE	ACCESS TO HEALTH SERVICES	UNITS	HARRIS COUNTY	HP2020	TEXAS	U.S.	MEASUREMENT PERIOD	HIGH DISPARITY*	Source
2.00	Adults Unable to Afford to See a Doctor	percent	22.1		18.3	12.1	2015		10
1.81	Children with Health Insurance	percent	89.4	100	90.3		2016		9
1.75	Adults with Health Insurance: 18-64	percent	74.7	100	77.4		2016		9
1.75	Persons with Health Insurance	percent	79.3	100	81.4		2016		9
1.61	Primary Care Provider Rate	providers/ 100,000 population	57.2		59.9	75.5	2015		4
1.44	Mental Health Provider Rate	providers/ 100,000 population	103.7		98.8	214.3	2017		4
1.00	Non-Physician Primary Care Provider Rate	providers/ 100,000 population	72.2		66.8	81.2	2017		4
0.50	Dentist Rate	dentists/ 100,000 population	66.3		55.9	67.4	2016		4
SCORE	CANCER	UNITS	HARRIS COUNTY	HP2020	TEXAS	U.S.	MEASUREMENT PERIOD	HIGH DISPARITY*	Source
2.53	Cervical Cancer Incidence Rate	cases/ 100,000 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
1.94	Cancer: Medicare Population	percent	7.6		7.1	7.8	2015		3
1.58	Colon Cancer Screening: Sigmoidoscopy or Colonoscopy	percent	57.6		62.3		2016		10
1.53	Age-Adjusted Death Rate due to Prostate Cancer	deaths/ 100,000 males	19.8	21.8	18.1	19.5	2011-2015		7
1.39	Breast Cancer Incidence Rate	cases/ 100,000 females	113.2		111.7	124.7	2011-2015		7

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

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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	534		467	462	2012-2016		1
2.11	SNAP Certified Stores	stores/ 1,000 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	percent	16.6		15.4	12.9	2016		5
1.94	Unemployed Workers in Civilian Labor Force	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
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 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
1.50	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
0.50	Per Capita Income	dollars	29850		27828	29829	2012-2016	American Indian or Alaska Native, Black or African American,	1

SCORE	EDUCATION	UNITS	HARRIS COUNTY	HP2020	TEXAS	U.S.	MEASUREMENT PERIOD	HIGH DISPARITY*	Source
								Hispanic or Latino, Native Hawaiian or Other Pacific Islander, Other, Two or More Races	
<b>1.92</b>	Infants Born to Mothers with <12 Years Education	<i>percent</i>	27.5		21.6	15.9	2013		12
<b>1.89</b>	Student-to-Teacher Ratio	<i>students/ teacher</i>	16.4		15.4	17.7	2015-2016		8
<b>1.67</b>	High School Drop Out Rate	<i>percent</i>	2.6		2		2016		13
<b>1.67</b>	People 25+ with a High School Degree or Higher	<i>percent</i>	80.2		82.3	87	2012-2016	Male, 35-44, 45-64, 65+	1
<b>0.67</b>	People 25+ with a Bachelor's Degree or Higher	<i>percent</i>	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
<b>2.39</b>	Severe Housing Problems	<i>percent</i>	20.9		18.3	18.8	2010-2014		4
<b>2.11</b>	SNAP Certified Stores	<i>stores/ 1,000 population</i>	0.6				2016		17
<b>1.75</b>	Annual Ozone Air Quality	<i>grade</i>	F				2014-2016		2
<b>1.69</b>	Annual Particle Pollution	<i>grade</i>	C				2014-2016		2
<b>1.67</b>	Fast Food Restaurant Density	<i>restaurants/ 1,000 population</i>	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
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
1.33	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
1.25	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
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
0.89	Liquor Store Density	stores/ 100,000 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
SCORE	<b>EXERCISE, NUTRITION, &amp; WEIGHT</b>	UNITS	HARRIS COUNTY	HP2020	TEXAS	U.S.	MEASUREMENT 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
2.11	SNAP Certified Stores	stores/ 1,000 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

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1.67	Child Food Insecurity Rate	percent	23.5		23	17.9	2016		5
1.67	Fast Food Restaurant Density	restaurants/ 1,000 population	0.7				2014		17
1.50	Adults who are Overweight or Obese	percent	66.7		68.4	65.2	2016		10
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	<b>HEART DISEASE &amp; STROKE</b>	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	percent	43.2		46.1	44.6	2015		3

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	Population								
1.42	Age-Adjusted Death Rate due to Cerebrovascular Disease (Stroke)	<i>deaths/ 100,000 population</i>	41.5	34.8	42	37.3	2010-2014	Black	12
1.33	Ischemic Heart Disease: Medicare Population	<i>percent</i>	28.8		28.8	26.5	2015		3
1.22	Hypertension: Medicare Population	<i>percent</i>	55.5		57.5	55	2015		3
0.92	Age-Adjusted Death Rate due to Heart Disease	<i>deaths/ 100,000 population</i>	167.6		173	171.9	2010-2014	Black, White, Male	12
SCORE	<b>IMMUNIZATIONS &amp; INFECTIOUS DISEASES</b>	UNITS	HARRIS COUNTY	HP2020	TEXAS	U.S.	MEASUREMENT PERIOD	HIGH DISPARITY*	Source
2.33	Gonorrhea Incidence Rate	<i>cases/ 100,000 population</i>	182.1		160.2		2017		12
2.33	Syphilis Incidence Rate	<i>cases/ 100,000 population</i>	59.3		40.6		2017		12
2.11	Chlamydia Incidence Rate	<i>cases/ 100,000 population</i>	571.4		511.6		2017		12
1.83	Tuberculosis Incidence Rate	<i>cases/ 100,000 population</i>	6.6	1	4.5		2013-2017		12
1.78	Adults 65+ with Influenza Vaccination	<i>percent</i>	57.2		57.3	58.6	2016		10
1.67	HIV Diagnosis Rate	<i>cases/ 100,000 population</i>	26.3		16.1		2016		12
1.17	Adults 65+ with Pneumonia Vaccination	<i>percent</i>	73.5	90	71.3	73.4	2016		10
1.00	Age-Adjusted Death Rate due to Influenza and Pneumonia	<i>deaths/ 100,000 population</i>	14		14.2	15.2	2010-2014	Black, Male	12
SCORE	<b>MATERNAL, FETAL &amp; INFANT HEALTH</b>	UNITS	HARRIS COUNTY	HP2020	TEXAS	U.S.	MEASUREMENT PERIOD	HIGH DISPARITY*	Source
2.36	Infant Mortality Rate	<i>deaths/ 1,000 live</i>	6.8	6	5.8	6	2013		12

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		<i>births</i>							
<b>1.97</b>	Mothers who Received Early Prenatal Care	<i>percent</i>	56.1	77.9	59.2	74.2	2013		12
<b>1.92</b>	Infants Born to Mothers with <12 Years Education	<i>percent</i>	27.5		21.6	15.9	2013		12
<b>1.81</b>	Babies with Low Birth Weight	<i>percent</i>	8.6	7.8	8.3	8	2013		12
<b>1.61</b>	Babies with Very Low Birth Weight	<i>percent</i>	1.5	1.4	1.4	1.4	2013		12
<b>1.25</b>	Preterm Births	<i>percent</i>	11.8	9.4	12	11.4	2013		12
<b>0.58</b>	Teen Births	<i>percent</i>	2.5		2.8	4.3	2014		12
SCORE	<b>MEN'S HEALTH</b>	UNITS	HARRIS COUNTY	HP2020	TEXAS	U.S.	MEASUREMENT PERIOD	HIGH DISPARITY*	Source
<b>1.53</b>	Age-Adjusted Death Rate due to Prostate Cancer	<i>deaths/ 100,000 males</i>	19.8	21.8	18.1	19.5	2011-2015		7
<b>1.33</b>	Prostate Cancer Incidence Rate	<i>cases/ 100,000 males</i>	102.5		95.4	109	2011-2015		7
<b>1.28</b>	Life Expectancy for Males	<i>years</i>	76.4		76.2	76.7	2014		6
SCORE	<b>MENTAL HEALTH &amp; MENTAL DISORDERS</b>	UNITS	HARRIS COUNTY	HP2020	TEXAS	U.S.	MEASUREMENT PERIOD	HIGH DISPARITY*	Source
<b>1.89</b>	Alzheimer's Disease or Dementia: Medicare Population	<i>percent</i>	11.4		11.7	9.9	2015		3
<b>1.53</b>	Poor Mental Health: 5+ Days	<i>percent</i>	80		81.5		2016		10
<b>1.50</b>	Poor Mental Health: Average Number of Days	<i>days</i>	3.7		3.4	3.8	2016		4
<b>1.44</b>	Mental Health Provider Rate	<i>providers/ 100,000 population</i>	103.7		98.8	214.3	2017		4
<b>1.17</b>	Frequent Mental Distress	<i>percent</i>	11.2		10.6	15	2016		4
<b>0.94</b>	Age-Adjusted Death Rate due to Suicide	<i>deaths/ 100,000 population</i>	10.3	10.2	11.7	12.5	2010-2014	White, Male	12

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0.94	Depression: Medicare Population	percent	14.8		17	16.7	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
SCORE	<b>OLDER ADULTS &amp; AGING</b>	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	percent	11.3		10.8	9.3	2012-2016	Asian, Black or African American, Hispanic or Latino, Other, Female, 75+	1
1.78	Adults 65+ with Influenza 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	<b>OTHER CHRONIC DISEASES</b>	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	<b>PREVENTION &amp; SAFETY</b>	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

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<b>0.69</b>	Age-Adjusted Death Rate due to Unintentional Injuries	<i>deaths/ 100,000 population</i>	36.1	36.4	37.6	39.2	2010-2014	White, Male	12
SCORE	<b>PUBLIC SAFETY</b>	UNITS	HARRIS COUNTY	HP2020	TEXAS	U.S.	MEASUREMENT PERIOD	HIGH DISPARITY*	Source
<b>2.17</b>	Alcohol-Impaired Driving Deaths	<i>percent</i>	37.8		28.3	29.3	2012-2016		4
<b>1.67</b>	Violent Crime Rate	<i>crimes/ 100,000 population</i>	713.7		407.6		2012-2014		4
<b>1.11</b>	Substantiated Child Abuse Rate	<i>cases/ 1,000 children</i>	5.4		8.5		2017		11
SCORE	<b>RESPIRATORY DISEASES</b>	UNITS	HARRIS COUNTY	HP2020	TEXAS	U.S.	MEASUREMENT PERIOD	HIGH DISPARITY*	Source
<b>1.83</b>	Tuberculosis Incidence Rate	<i>cases/ 100,000 population</i>	6.6	1	4.5		2013-2017		12
<b>1.78</b>	Adults 65+ with Influenza Vaccination	<i>percent</i>	57.2		57.3	58.6	2016		10
<b>1.17</b>	Adults 65+ with Pneumonia Vaccination	<i>percent</i>	73.5	90	71.3	73.4	2016		10
<b>1.00</b>	Age-Adjusted Death Rate due to Influenza and Pneumonia	<i>deaths/ 100,000 population</i>	14		14.2	15.2	2010-2014	Black, Male	12
<b>0.94</b>	Asthma: Medicare Population	<i>percent</i>	7.3		8.2	8.2	2015		3
<b>0.50</b>	Lung and Bronchus Cancer Incidence Rate	<i>cases/ 100,000 population</i>	50.9		53.1	60.2	2011-2015		7
<b>0.39</b>	COPD: Medicare Population	<i>percent</i>	9.6		11.1	11.2	2015		3
<b>0.33</b>	Age-Adjusted Death Rate due to Lung Cancer	<i>deaths/ 100,000 population</i>	37.5	45.5	39	43.4	2011-2015		7
SCORE	<b>SOCIAL ENVIRONMENT</b>	UNITS	HARRIS COUNTY	HP2020	TEXAS	U.S.	MEASUREMENT PERIOD	HIGH DISPARITY*	Source
<b>2.67</b>	Mean Travel Time to Work	<i>minutes</i>	28.6		25.9	26.1	2012-2016	Male	1

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<b>2.50</b>	Linguistic Isolation	<i>percent</i>	11.8		7.9	4.5	2012-2016		1
<b>2.44</b>	Homeownership	<i>percent</i>	49.6		55	55.9	2012-2016		1
<b>2.17</b>	Single-Parent Households	<i>percent</i>	36.2		33.3	33.6	2012-2016		1
<b>2.14</b>	Median Monthly Owner Costs for Households without a Mortgage	<i>dollars</i>	534		467	462	2012-2016		1
<b>2.08</b>	Median Household Gross Rent	<i>dollars</i>	937		911	949	2012-2016		1
<b>1.81</b>	Mortgaged Owners Median Monthly Household Costs	<i>dollars</i>	1504		1444	1491	2012-2016		1
<b>1.75</b>	Persons with Health Insurance	<i>percent</i>	79.3	100	81.4		2016		9
<b>1.67</b>	Children Living Below Poverty Level	<i>percent</i>	26		23.9	21.2	2012-2016	American Indian or Alaska Native, Black or African American, Hispanic or Latino, Other, <6	1
<b>1.67</b>	People 25+ with a High School Degree or Higher	<i>percent</i>	80.2		82.3	87	2012-2016	Male, 35-44, 45-64, 65+	1
<b>1.67</b>	People Living Below Poverty Level	<i>percent</i>	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
<b>1.67</b>	Total Employment Change	<i>percent</i>	2.4		3.2	2.5	2014-2015		16
<b>1.67</b>	Voter Turnout: Presidential Election	<i>percent</i>	58.4		58.8		2016		14
<b>1.44</b>	People 65+ Living Alone	<i>percent</i>	24.4		23.9	26.4	2012-2016		1
<b>1.11</b>	Substantiated Child Abuse Rate	<i>cases/1,000 children</i>	5.4		8.5		2017		11
<b>1.08</b>	Median Housing Unit Value	<i>dollars</i>	145600		142700	184700	2012-2016		1
<b>0.94</b>	Female Population 16+ in Civilian Labor Force	<i>percent</i>	59.8		57.7	58.3	2012-2016		1
<b>0.94</b>	Population 16+ in Civilian Labor	<i>percent</i>	68.3		64.2	63.1	2012-2016		1

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	Force								
<b>0.67</b>	People 25+ with a Bachelor's Degree or Higher	<i>percent</i>	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
<b>0.50</b>	Median Household Income	<i>dollars</i>	55584		54727	55322	2012-2016	American Indian or Alaska Native, Black or African American, Hispanic or Latino, Other	1
<b>0.50</b>	Per Capita Income	<i>dollars</i>	29850		27828	29829	2012-2016	American Indian or Alaska Native, Black or African American, Hispanic or Latino, Native Hawaiian or Other Pacific Islander, Other, Two or More Races	1
<b>SCORE</b>	<b>SUBSTANCE ABUSE</b>	<b>UNITS</b>	<b>HARRIS COUNTY</b>	<b>HP2020</b>	<b>TEXAS</b>	<b>U.S.</b>	<b>MEASUREMENT PERIOD</b>	<b>HIGH DISPARITY*</b>	<b>Source</b>
<b>2.17</b>	Alcohol-Impaired Driving Deaths	<i>percent</i>	37.8		28.3	29.3	2012-2016		4
<b>1.50</b>	Adults who Drink Excessively	<i>percent</i>	18.1	25.4	19.4	18	2016		4
<b>1.28</b>	Adults (18+ Years) Reporting Binge Drinking Within the Last 12 months	<i>percent</i>	16.6	24.2	17.9	16.9	2016		10
<b>1.19</b>	Death Rate due to Drug Poisoning	<i>deaths/ 100,000 population</i>	10.2		9.8	16.9	2014-2016		4
<b>0.94</b>	Adults who Smoke	<i>percent</i>	12.1	12	14.3	17.1	2016		10
<b>0.89</b>	Liquor Store Density	<i>stores/ 100,000 population</i>	6.3		6.8	10.5	2015		16

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SCORE	TRANSPORTATION	UNITS	HARRIS COUNTY	HP2020	TEXAS	U.S.	MEASUREMENT 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
1.44	Workers who Drive Alone to Work	percent	79.1		80.3	76.4	2012-2016	White, non-Hispanic, 25-44, 55-59	1
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
1.00	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		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



<b>1.06</b>	Life Expectancy for Females	<i>years</i>	81		80.8	81.5	2014		6
<b>SCORE</b>	<b>WOMEN'S HEALTH</b>	<b>UNITS</b>	<b>HARRIS COUNTY</b>	<b>HP2020</b>	<b>TEXAS</b>	<b>U.S.</b>	<b>MEASUREMENT PERIOD</b>	<b>HIGH DISPARITY*</b>	<b>Source</b>
<b>2.53</b>	Cervical Cancer Incidence Rate	<i>cases/ 100,000 females</i>	11	7.3	9.2	7.5	2011-2015		7
<b>2.25</b>	Age-Adjusted Death Rate due to Breast Cancer	<i>deaths/ 100,000 females</i>	23.2	20.7	20.2	20.9	2011-2015	Black	7
<b>1.39</b>	Breast Cancer Incidence Rate	<i>cases/ 100,000 females</i>	113.2		111.7	124.7	2011-2015		7
<b>1.06</b>	Life Expectancy for Females	<i>years</i>	81		80.8	81.5	2014		6

### Waller County

<b>SCORE</b>	<b>ACCESS TO HEALTH SERVICES</b>	<b>UNITS</b>	<b>WALLER COUNTY</b>	<b>HP2020</b>	<b>Texas</b>	<b>U.S.</b>	<b>MEASUREMENT PERIOD</b>	<b>HIGH DISPARITY*</b>	<b>Source</b>
<b>2.83</b>	Non-Physician Primary Care Provider Rate	<i>providers/ 100,000 population</i>	4		67	81	2017		3
<b>2.61</b>	Primary Care Provider Rate	<i>providers/ 100,000 population</i>	10		60	76	2015		3
<b>2.50</b>	Dentist Rate	<i>dentists/ 100,000 population</i>	16		56	67	2016		3
<b>2.44</b>	Mental Health Provider Rate	<i>providers/ 100,000 population</i>	34		99	214	2017		3
<b>2.14</b>	Adults with Health Insurance: 18-64	<i>percent</i>	71.5	100.0	77.4		2016		8
<b>2.14</b>	Persons with Health Insurance	<i>percent</i>	76.1	100.0	81.4		2016		8
<b>1.97</b>	Children with Health Insurance	<i>percent</i>	86.6	100.0	90.3		2016		8
<b>SCORE</b>	<b>CANCER</b>	<b>UNITS</b>	<b>WALLER COUNTY</b>	<b>HP2020</b>	<b>Texas</b>	<b>U.S.</b>	<b>MEASUREMENT PERIOD</b>	<b>HIGH DISPARITY*</b>	<b>Source</b>

1.53	Age-Adjusted Death Rate due to Breast Cancer	deaths/ 100,000 females	21.2	20.7	20.2	20.9	2011-2015		6
1.50	Breast Cancer Incidence Rate	cases/ 100,000 females	109.8		111.7	124.7	2011-2015		6
1.44	Age-Adjusted Death Rate due to Colorectal Cancer	deaths/ 100,000 population	15.3	14.5	14.4	14.5	2011-2015		6
1.28	Cancer: Medicare Population	percent	6.9		7.1	7.8	2015		2
1.06	Lung and Bronchus Cancer Incidence Rate	cases/ 100,000 population	55.1		53.1	60.2	2011-2015		6
0.94	Age-Adjusted Death Rate due to Cancer	deaths/ 100,000 population	155.8	161.4	156.4	163.5	2011-2015		6
0.72	All Cancer Incidence Rate	cases/ 100,000 population	371.0		401.3	441.2	2011-2015		6
0.50	Age-Adjusted Death Rate due to Lung Cancer	deaths/ 100,000 population	37.1	45.5	39.0	43.4	2011-2015		6
0.39	Oral Cavity and Pharynx Cancer Incidence Rate	cases/ 100,000 population	9.1		10.9	11.6	2011-2015		6
0.33	Prostate Cancer Incidence Rate	cases/ 100,000 males	85.5		95.4	109.0	2011-2015		6
0.00	Colorectal Cancer Incidence Rate	cases/ 100,000 population	30.2	39.9	38.1	39.2	2011-2015		6
SCORE	<b>CHILDREN'S HEALTH</b>	UNITS	WALLER COUNTY	HP2020	Texas	U.S.	MEASUREMENT PERIOD	HIGH DISPARITY*	Source
2.06	Child Food Insecurity Rate	percent	24.0		23.0	17.9	2016		4
1.97	Children with Health Insurance	percent	86.6	100.0	90.3		2016		8
1.00	Children with Low Access to a Grocery Store	percent	1.9				2015		15
0.67	Substantiated Child Abuse Rate	cases/ 1,000 children	3.5		8.5		2017		9

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SCORE	ECONOMY	UNITS	WALLER COUNTY	HP2020	Texas	U.S.	MEASUREMENT PERIOD	HIGH DISPARITY*	Source
2.61	Severe Housing Problems	percent	22.4		18.3	18.8	2010-2014		3
2.44	Unemployed Workers in Civilian Labor Force	percent	4.8		4.0	4.1	July 2018		13
2.39	Food Insecurity Rate	percent	19.2		15.4	12.9	2016		4
2.39	Students Eligible for the Free Lunch Program	percent	65.8		52.9	42.6	2015-2016		7
2.28	Homeowner Vacancy Rate	percent	2.0		1.6	1.8	2012-2016		1
2.11	SNAP Certified Stores	stores/ 1,000 population	0.6				2016		15
2.08	Persons with Disability Living in Poverty (5-year)	percent	30.5		25.1	27.6	2012-2016		1
2.06	Child Food Insecurity Rate	percent	24.0		23.0	17.9	2016		4
2.06	Female Population 16+ in Civilian Labor Force	percent	50.6		57.7	58.3	2012-2016		1
2.06	People Living Below Poverty Level	percent	19.0		16.7	15.1	2012-2016	18-24, 6-11 Black or African American	1
2.03	Median Monthly Owner Costs for Households without a Mortgage	dollars	494		467	462	2012-2016		1
1.89	Children Living Below Poverty Level	percent	25.1		23.9	21.2	2012-2016	Hispanic or Latino	1
1.83	Low-Income and Low Access to a Grocery Store	percent	11.3				2015		15
1.83	Per Capita Income	dollars	23338		27828	29829	2012-2016	Black or African American, Hispanic or Latino, Other, Two or More Races	1

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1.83	Renters Spending 30% or More of Household Income on Rent	percent	46.8		48.0	47.3	2012-2016		1
1.67	People Living 200% Above Poverty Level	percent	59.3		62.8	66.4	2012-2016		1
1.58	Mortgaged Owners Median Monthly Household Costs	dollars	1435		1444	1491	2012-2016		1
1.53	Median Household Gross Rent	dollars	825		911	949	2012-2016		1
1.39	Population 16+ in Civilian Labor Force	percent	60.5		64.2	63.1	2012-2016		1
1.17	Families Living Below Poverty Level	percent	12.0		13.0	11.0	2012-2016		1
1.17	Median Household Income	dollars	53508		54727	55322	2012-2016	American Indian or Alaska Native, Black or African American, Hispanic or Latino	1
1.17	Total Employment Change	percent	3.2		3.2	2.5	2014-2015		14
1.08	Median Housing Unit Value	dollars	153800		142700	184700	2012-2016		1
1.06	Homeownership	percent	59.6		55.0	55.9	2012-2016		1
0.56	Households with Cash Public Assistance Income	percent	0.9		1.6	2.7	2012-2016		1
0.17	People 65+ Living Below Poverty Level	percent	4.9		10.8	9.3	2012-2016	Black or African American	1
SCORE	<b>EDUCATION</b>	UNITS	WALLER COUNTY	HP2020	Texas	U.S.	MEASUREMENT PERIOD	HIGH DISPARITY*	Source
2.11	People 25+ with a High School Degree or Higher	percent	78.4		82.3	87.0	2012-2016	Other	1

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1.94	People 25+ with a Bachelor's Degree or Higher	percent	18.7		28.1	30.3	2012-2016	Black or African American, Other	1
1.92	Infants Born to Mothers with <12 Years Education	percent	27.8		21.6	15.9	2013		10
1.61	Student-to-Teacher Ratio	students/ teacher	14.7		15.4	17.7	2015-2016		7
1.17	High School Drop Out Rate	percent	0.8		2.0		2016		11
SCORE	<b>ENVIRONMENT</b>	UNITS	WALLER COUNTY	HP2020	Texas	U.S.	MEASUREMENT PERIOD	HIGH DISPARITY*	Source
2.61	Severe Housing Problems	percent	22.4		18.3	18.8	2010-2014		3
2.33	Access to Exercise Opportunities	percent	45.2		80.6	83.1	2018		3
2.11	Food Environment Index		6.3		6.0	7.7	2018		3
2.11	SNAP Certified Stores	stores/ 1,000 population	0.6				2016		15
2.08	Drinking Water Violations	percent	17.2		6.6		FY 2013-14		3
2.00	Grocery Store Density	stores/ 1,000 population	0.1				2014		15
1.83	Low-Income and Low Access to a Grocery Store	percent	11.3				2015		15
1.78	Recreation and Fitness Facilities	facilities/ 1,000 population	0.0				2014		15
1.67	Households with No Car and Low Access to a Grocery Store	percent	2.8				2015		15
1.50	Farmers Market Density	markets/ 1,000 population	0.0				2016		15
1.39	PBT Released	pounds	5				2017		16
1.39	Recognized Carcinogens Released	pounds	40				2017		16

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	into Air								
1.17	Fast Food Restaurant Density	<i>restaurants/ 1,000 population</i>	0.4				2014		15
1.11	Houses Built Prior to 1950	<i>percent</i>	7.7		7.4	18.2	2012-2016		1
1.00	Children with Low Access to a Grocery Store	<i>percent</i>	1.9				2015		15
1.00	People 65+ with Low Access to a Grocery Store	<i>percent</i>	0.8				2015		15
0.50	Liquor Store Density	<i>stores/ 100,000 population</i>	2.1		6.8	10.5	2015		14
SCORE	<b>EXERCISE, NUTRITION, &amp; WEIGHT</b>	UNITS	WALLER COUNTY	HP2020	Texas	U.S.	MEASUREMENT PERIOD	HIGH DISPARITY*	Source
2.39	Food Insecurity Rate	<i>percent</i>	19.2		15.4	12.9	2016		4
2.33	Access to Exercise Opportunities	<i>percent</i>	45.2		80.6	83.1	2018		3
2.11	Food Environment Index		6.3		6.0	7.7	2018		3
2.11	SNAP Certified Stores	<i>stores/ 1,000 population</i>	0.6				2016		15
2.06	Child Food Insecurity Rate	<i>percent</i>	24.0		23.0	17.9	2016		4
2.00	Grocery Store Density	<i>stores/ 1,000 population</i>	0.1				2014		15
1.83	Low-Income and Low Access to a Grocery Store	<i>percent</i>	11.3				2015		15
1.78	Recreation and Fitness Facilities	<i>facilities/ 1,000 population</i>	0.0				2014		15
1.67	Households with No Car and Low Access to a Grocery Store	<i>percent</i>	2.8				2015		15
1.50	Farmers Market Density	<i>markets/ 1,000 population</i>	0.0				2016		15

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1.17	Fast Food Restaurant Density	<i>restaurants/ 1,000 population</i>	0.4				2014		15
1.00	Children with Low Access to a Grocery Store	<i>percent</i>	1.9				2015		15
1.00	People 65+ with Low Access to a Grocery Store	<i>percent</i>	0.8				2015		15
0.22	Workers who Walk to Work	<i>percent</i>	4.7	3.1	1.6	2.8	2012-2016	45-54, 55-59, 60-64	1
SCORE	<b>HEART DISEASE &amp; STROKE</b>	UNITS	WALLER COUNTY	HP2020	Texas	U.S.	MEASUREMENT PERIOD	HIGH DISPARITY*	Source
2.61	Stroke: Medicare Population	<i>percent</i>	6.0		4.5	4.0	2015		2
2.44	Heart Failure: Medicare Population	<i>percent</i>	17.5		15.5	13.5	2015		2
2.17	Atrial Fibrillation: Medicare Population	<i>percent</i>	8.4		7.4	8.1	2015		2
2.06	Hypertension: Medicare Population	<i>percent</i>	61.6		57.5	55.0	2015		2
2.06	Ischemic Heart Disease: Medicare Population	<i>percent</i>	31.0		28.8	26.5	2015		2
1.94	Hyperlipidemia: Medicare Population	<i>percent</i>	46.1		46.1	44.6	2015		2
1.75	Age-Adjusted Death Rate due to Heart Disease	<i>deaths/ 100,000 population</i>	194.8		173.0	171.9	2010-2014	Black	10
1.08	Age-Adjusted Death Rate due to Cerebrovascular Disease (Stroke)	<i>deaths/ 100,000 population</i>	38.3	34.8	42.0	37.3	2010-2014		10
SCORE	<b>IMMUNIZATIONS &amp; INFECTIOUS DISEASES</b>	UNITS	WALLER COUNTY	HP2020	Texas	U.S.	MEASUREMENT PERIOD	HIGH DISPARITY*	Source

1.44	Syphilis Incidence Rate	<i>cases/ 100,000 population</i>	15.6		40.6		2017		10
1.39	Tuberculosis Incidence Rate	<i>cases/ 100,000 population</i>	2.9	1.0	4.5		2013-2017		10
1.28	Gonorrhea Incidence Rate	<i>cases/ 100,000 population</i>	78.0		160.2		2017		10
1.17	Chlamydia Incidence Rate	<i>cases/ 100,000 population</i>	306.0		511.6		2017		10
1.00	HIV Diagnosis Rate	<i>cases/ 100,000 population</i>	8.0		16.1		2016		10
0.89	Age-Adjusted Death Rate due to Influenza and Pneumonia	<i>deaths/ 100,000 population</i>	12.6		14.2	15.2	2010-2014		10
SCORE	<b>MATERNAL, FETAL &amp; INFANT HEALTH</b>	UNITS	WALLER COUNTY	HP2020	Texas	U.S.	MEASUREMENT PERIOD	HIGH DISPARITY*	Source
1.92	Infants Born to Mothers with <12 Years Education	<i>percent</i>	27.8		21.6	15.9	2013		10
1.31	Teen Births	<i>percent</i>	3.1		2.8	4.3	2014		10
1.14	Mothers who Received Early Prenatal Care	<i>percent</i>	68.2	77.9	59.2	74.2	2013		10
0.75	Babies with Low Birth Weight	<i>percent</i>	7.2	7.8	8.3	8.0	2013		10
0.64	Infant Mortality Rate	<i>deaths/ 1,000 live births</i>	5.1	6.0	5.8	6.0	2013		10
0.36	Preterm Births	<i>percent</i>	9.1	9.4	12.0	11.4	2013		10
SCORE	<b>MENTAL HEALTH &amp; MENTAL DISORDERS</b>	UNITS	WALLER COUNTY	HP2020	Texas	U.S.	MEASUREMENT PERIOD	HIGH DISPARITY*	Source
2.44	Mental Health Provider Rate	<i>providers/ 100,000 population</i>	34		99	214	2017		3
2.28	Age-Adjusted Death Rate due to	<i>deaths/ 100,000</i>	15.8	10.2	11.7	12.5	2010-2014		10

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	Suicide	<i>population</i>							
<b>1.78</b>	Alzheimer's Disease or Dementia: Medicare Population	<i>percent</i>	10.5		11.7	9.9	2015		2
<b>1.17</b>	Frequent Mental Distress	<i>percent</i>	11.3		10.6	15.0	2016		3
<b>1.00</b>	Poor Mental Health: Average Number of Days	<i>days</i>	3.5		3.4	3.8	2016		3
<b>0.94</b>	Depression: Medicare Population	<i>percent</i>	14.6		17.0	16.7	2015		2
<b>0.64</b>	Age-Adjusted Death Rate due to Alzheimer's Disease	<i>deaths/ 100,000 population</i>	16.8		26.6	24.5	2010-2014		10
SCORE	<b>OLDER ADULTS &amp; AGING</b>	UNITS	WALLER COUNTY	HP2020	Texas	U.S.	MEASUREMENT PERIOD	HIGH DISPARITY*	Source
<b>2.67</b>	Chronic Kidney Disease: Medicare Population	<i>percent</i>	21.6		19.9	18.1	2015		2
<b>2.61</b>	Stroke: Medicare Population	<i>percent</i>	6.0		4.5	4.0	2015		2
<b>2.44</b>	Heart Failure: Medicare Population	<i>percent</i>	17.5		15.5	13.5	2015		2
<b>2.17</b>	Age-Adjusted Death Rate due to Falls	<i>deaths/ 100,000 population</i>	12.8	7.2	7.4	8.3	2010-2014		10
<b>2.17</b>	Atrial Fibrillation: Medicare Population	<i>percent</i>	8.4		7.4	8.1	2015		2
<b>2.06</b>	Diabetes: Medicare Population	<i>percent</i>	29.6		28.2	26.5	2015		2
<b>2.06</b>	Hypertension: Medicare Population	<i>percent</i>	61.6		57.5	55.0	2015		2
<b>2.06</b>	Ischemic Heart Disease: Medicare Population	<i>percent</i>	31.0		28.8	26.5	2015		2
<b>1.94</b>	Hyperlipidemia: Medicare Population	<i>percent</i>	46.1		46.1	44.6	2015		2

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1.89	COPD: Medicare Population	percent	12.3		11.1	11.2	2015		2
1.83	Asthma: Medicare Population	percent	8.7		8.2	8.2	2015		2
1.78	Alzheimer's Disease or Dementia: Medicare Population	percent	10.5		11.7	9.9	2015		2
1.28	Cancer: Medicare Population	percent	6.9		7.1	7.8	2015		2
1.06	Rheumatoid Arthritis or Osteoarthritis: Medicare Population	percent	30.0		31.6	30.0	2015		2
1.00	People 65+ with Low Access to a Grocery Store	percent	0.8				2015		15
0.94	Depression: Medicare Population	percent	14.6		17.0	16.7	2015		2
0.89	Osteoporosis: Medicare Population	percent	5.1		6.5	6.0	2015		2
0.64	Age-Adjusted Death Rate due to Alzheimer's Disease	deaths/ 100,000 population	16.8		26.6	24.5	2010-2014		10
0.50	People 65+ Living Alone	percent	20.8		23.9	26.4	2012-2016		1
0.17	People 65+ Living Below Poverty Level	percent	4.9		10.8	9.3	2012-2016	Black or African American	1
SCORE	<b>OTHER CHRONIC DISEASES</b>	UNITS	WALLER COUNTY	HP2020	Texas	U.S.	MEASUREMENT PERIOD	HIGH DISPARITY*	Source
2.67	Chronic Kidney Disease: Medicare Population	percent	21.6		19.9	18.1	2015		2
1.06	Rheumatoid Arthritis or Osteoarthritis: Medicare Population	percent	30.0		31.6	30.0	2015		2
0.89	Osteoporosis: Medicare Population	percent	5.1		6.5	6.0	2015		2

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SCORE	PREVENTION & SAFETY	UNITS	WALLER COUNTY	HP2020	Texas	U.S.	MEASUREMENT PERIOD	HIGH DISPARITY*	Source
2.61	Severe Housing Problems	percent	22.4		18.3	18.8	2010-2014		3
2.17	Age-Adjusted Death Rate due to Falls	deaths/ 100,000 population	12.8	7.2	7.4	8.3	2010-2014		10
2.14	Age-Adjusted Death Rate due to Unintentional Injuries	deaths/ 100,000 population	53.9	36.4	37.6	39.2	2010-2014		10
0.81	Death Rate due to Drug Poisoning	deaths/ 100,000 population	8.9		9.8	16.9	2014-2016		3
SCORE	PUBLIC SAFETY	UNITS	WALLER COUNTY	HP2020	Texas	U.S.	MEASUREMENT PERIOD	HIGH DISPARITY*	Source
1.22	Violent Crime Rate	crimes/ 100,000 population	273.0		407.6		2012-2014		3
0.67	Substantiated Child Abuse Rate	cases/ 1,000 children	3.5		8.5		2017		9
0.50	Alcohol-Impaired Driving Deaths	percent	21.8		28.3	29.3	2012-2016		3
SCORE	RESPIRATORY DISEASES	UNITS	WALLER COUNTY	HP2020	Texas	U.S.	MEASUREMENT PERIOD	HIGH DISPARITY*	Source
1.89	COPD: Medicare Population	percent	12.3		11.1	11.2	2015		2
1.83	Asthma: Medicare Population	percent	8.7		8.2	8.2	2015		2
1.39	Tuberculosis Incidence Rate	cases/ 100,000 population	2.9	1.0	4.5		2013-2017		10
1.06	Lung and Bronchus Cancer Incidence Rate	cases/ 100,000 population	55.1		53.1	60.2	2011-2015		6
0.89	Age-Adjusted Death Rate due to Influenza and Pneumonia	deaths/ 100,000 population	12.6		14.2	15.2	2010-2014		10

<b>0.50</b>	Age-Adjusted Death Rate due to Lung Cancer	<i>deaths/ 100,000 population</i>	37.1	45.5	39.0	43.4	2011-2015		6
<b>SCORE</b>	<b>SOCIAL ENVIRONMENT</b>	<b>UNITS</b>	<b>WALLER COUNTY</b>	<b>HP2020</b>	<b>Texas</b>	<b>U.S.</b>	<b>MEASUREMENT PERIOD</b>	<b>HIGH DISPARITY*</b>	<b>Source</b>
<b>2.61</b>	Mean Travel Time to Work	<i>minutes</i>	31.6		25.9	26.1	2012-2016		1
<b>2.17</b>	Linguistic Isolation	<i>percent</i>	6.0		7.9	4.5	2012-2016		1
<b>2.14</b>	Persons with Health Insurance	<i>percent</i>	76.1	100.0	81.4		2016		8
<b>2.11</b>	People 25+ with a High School Degree or Higher	<i>percent</i>	78.4		82.3	87.0	2012-2016	Other	1
<b>2.06</b>	Female Population 16+ in Civilian Labor Force	<i>percent</i>	50.6		57.7	58.3	2012-2016		1
<b>2.06</b>	People Living Below Poverty Level	<i>percent</i>	19.0		16.7	15.1	2012-2016	18-24, 6-11 Black or African American	1
<b>2.03</b>	Median Monthly Owner Costs for Households without a Mortgage	<i>dollars</i>	494		467	462	2012-2016		1
<b>1.94</b>	People 25+ with a Bachelor's Degree or Higher	<i>percent</i>	18.7		28.1	30.3	2012-2016	Black or African American, Other	1
<b>1.89</b>	Children Living Below Poverty Level	<i>percent</i>	25.1		23.9	21.2	2012-2016	Hispanic or Latino	1
<b>1.83</b>	Per Capita Income	<i>dollars</i>	23338		27828	29829	2012-2016	Black or African American, Hispanic or Latino, Other, Two or More Races	1
<b>1.58</b>	Mortgaged Owners Median Monthly Household Costs	<i>dollars</i>	1435		1444	1491	2012-2016		1
<b>1.53</b>	Median Household Gross Rent	<i>dollars</i>	825		911	949	2012-2016		1

1.50	Voter Turnout: Presidential Election	percent	53.9		58.8		2016		12
1.39	Population 16+ in Civilian Labor Force	percent	60.5		64.2	63.1	2012-2016		1
1.17	Median Household Income	dollars	53508		54727	55322	2012-2016	American Indian or Alaska Native, Black or African American, Hispanic or Latino	1
1.17	Total Employment Change	percent	3.2		3.2	2.5	2014-2015		14
1.08	Median Housing Unit Value	dollars	153800		142700	184700	2012-2016		1
1.06	Homeownership	percent	59.6		55.0	55.9	2012-2016		1
1.06	Single-Parent Households	percent	30.8		33.3	33.6	2012-2016		1
0.67	Substantiated Child Abuse Rate	cases/ 1,000 children	3.5		8.5		2017		9
0.50	People 65+ Living Alone	percent	20.8		23.9	26.4	2012-2016		1
SCORE	<b>SUBSTANCE ABUSE</b>	UNITS	WALLER COUNTY	HP2020	Texas	U.S.	MEASUREMENT PERIOD	HIGH DISPARITY*	Source
2.17	Adults who Drink Excessively	percent	20.5	25.4	19.4	18.0	2016		3
0.81	Death Rate due to Drug Poisoning	deaths/ 100,000 population	8.9		9.8	16.9	2014-2016		3
0.50	Alcohol-Impaired Driving Deaths	percent	21.8		28.3	29.3	2012-2016		3
0.50	Liquor Store Density	stores/ 100,000 population	2.1		6.8	10.5	2015		14
SCORE	<b>TRANSPORTATION</b>	UNITS	WALLER COUNTY	HP2020	Texas	U.S.	MEASUREMENT PERIOD	HIGH DISPARITY*	Source
2.61	Mean Travel Time to Work	minutes	31.6		25.9	26.1	2012-2016		1

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<b>2.39</b>	Solo Drivers with a Long Commute	<i>percent</i>	51.0		36.9	34.7	2012-2016		3
<b>1.72</b>	Workers Commuting by Public Transportation	<i>percent</i>	0.6	5.5	1.5	5.1	2012-2016		1
<b>1.67</b>	Households with No Car and Low Access to a Grocery Store	<i>percent</i>	2.8				2015		15
<b>1.22</b>	Workers who Drive Alone to Work	<i>percent</i>	78.1		80.3	76.4	2012-2016	60-64	1
<b>0.72</b>	Households without a Vehicle	<i>percent</i>	4.7		5.6	9.0	2012-2016		1
<b>0.22</b>	Workers who Walk to Work	<i>percent</i>	4.7	3.1	1.6	2.8	2012-2016	45-54, 55-59, 60-64	1
SCORE	<b>WELLNESS &amp; LIFESTYLE</b>	UNITS	WALLER COUNTY	HP2020	Texas	U.S.	MEASUREMENT PERIOD	HIGH DISPARITY*	Source
<b>2.00</b>	Self-Reported General Health Assessment: Poor or Fair	<i>percent</i>	19.3		18.2	16.0	2016		3
<b>1.83</b>	Insufficient Sleep	<i>percent</i>	34.5		32.7	38.0	2016		3
<b>1.67</b>	Frequent Physical Distress	<i>percent</i>	12.0		10.8	15.0	2016		3
<b>1.67</b>	Poor Physical Health: Average Number of Days	<i>days</i>	3.8		3.5	3.7	2016		3
<b>1.61</b>	Life Expectancy for Males	<i>years</i>	75.8		76.2	76.7	2014		5
<b>1.39</b>	Life Expectancy for Females	<i>years</i>	80.3		80.8	81.5	2014		5
SCORE	<b>WOMEN'S HEALTH</b>	UNITS	WALLER COUNTY	HP2020	Texas	U.S.	MEASUREMENT PERIOD	HIGH DISPARITY*	Source

<b>1.53</b>	Age-Adjusted Death Rate due to Breast Cancer	<i>deaths/ 100,000 females</i>	21.2	20.7	20.2	20.9	2011-2015		6
<b>1.50</b>	Breast Cancer Incidence Rate	<i>cases/ 100,000 females</i>	109.8		111.7	124.7	2011-2015		6
<b>1.39</b>	Life Expectancy for Females	<i>years</i>	80.3		80.8	81.5	2014		5

## Appendix C. Primary Data Methodology

### Community Input Participants

AccessHealth (FQHC) (Fort Bend Family Health Center)	Gulf Coast Medical Foundation
AIDS Foundation of Houston	Harris County Public Health
Association for the Advancement of Mexican Americans	Healthcare for the Homeless - Houston
Avenue CDC	HOPE Clinic (FQHC)
Catholic Charities - Archdiocese of Galveston	Houston Food Bank
Catholic Charities - Fort Bend	Houston Health Department
Child Advocates of Fort Bend	Houston Housing Authority
Children at Risk	Houston Independent School District
Christ Clinic	Interfaith Community Clinic
City of Houston, Department of Parks and Recreation	Kinder Institute
Coastal Area Health Education Centers (AHEC)	Legacy Community Health
Community Health Choice	Liberty County Sheriff's Office
El Centro de Corazon	Lone Star Family Health Center
Episcopal Health Foundation	Midtown Arts and Theater Center Houston
Fort Bend County Health and Human Services	Montgomery County Women's Center
Fort Bend County Sheriff's Office	Baker-Ripley Early Head Start
Fort Bend Regional Council On Substance Abuse	Patient Care Intervention Center (PCIC)
Fort Bend Seniors Meals on Wheels	Prairie View A&M University
Fort Bend Women's Center	Santa Maria Hostel, Inc.
Galveston County Health District	The Arc of Fort Bend County
Galveston County Mental Health Deputies	The Harris Center for Mental Health and IDD (formerly MHMRA)
Greater Houston Partnership	The Rose
Greater Houston Women's Chamber of Commerce	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

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### **INTERVIEW QUESTIONNAIRE (55 MINUTES)**

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#### **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 GUIDE, 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 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 health 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 health 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?
  - 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?
  - 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?

- In your opinion, how effective have these programs, services, or policies been at addressing the health needs of residents?
- 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)**

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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 HCI 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)

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### 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 GUIDE, 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 health 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 health 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?**
  - 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.**
  - **What ARE the strengths of the health care and social services in your community?**
  - **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 TRANSPORTATION, 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)**

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- **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)**

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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. Please look at this list of community issues. In your opinion, what are the **top 5 issues** most affecting 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. How would you rate your own personal health?

- Very healthy
- Somewhat healthy
- Unhealthy
- Very unhealthy

3. About how many times a week do you exercise or perform a physical activity like walking, running, bicycling, etc.?

- Less than 1 time a week
- 2-3 times a week
- 5 or more times a week
- Never
- Other (please specify): \_\_\_\_\_

4. What are some of the barriers or challenges to exercising on a regular basis for you?

- No places to exercise
- No time to exercise
- I don't like exercising
- Feel unsafe exercising in the community
- None of my friends or family exercise
- No childcare
- Lack of funds to pay for gym or classes
- No transportation
- Other (please specify): \_\_\_\_\_

5. How much do you agree or disagree with each of the statements below.

	Agree strongly	Agree	Disagree	Disagree strongly
There are good parks for children, adults and people of all abilities to enjoy in my community				
In the past 12 months, I had a problem getting the health care I needed for me or a family member from any type of health care provider, dentist, pharmacy, or other facility				
I don't know where to get services for myself when I am sad, depressed or need someone to talk to				
I am confident I can get an appointment when I need to see my doctor fairly quickly				
I have a place to receive medical care other than the emergency room				
Within the past 12 months, I worried whether my food would run out before I got money to buy more				
Within the past 12 months, the food I bought just didn't last and I didn't have money to get more				
There are many options for healthy and affordable food in my community				

6. Has your doctor ever told you that you have any of the following? (Mark all that apply)

- High blood pressure
- High cholesterol
- Cancer
- Diabetes
- Obesity
- Asthma
- Heart disease
- Other (please specify): \_\_\_\_\_

Now, a few questions so that we can see how different types of people feel about the questions asked.

7. Zip code where you live: \_\_\_\_\_

8. What is your age? \_\_\_\_\_
9. What is your race/ethnicity?
- White
  - Black/African American
  - Hispanic/Latino
  - Asian/Pacific Islander
  - Native American
  - Other (please specify): \_\_\_\_\_
10. What are the ages of children living in your household?
- 11 and younger
  - 12-18 years old
  - 18 and older
  - None
11. What 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.**

---

**1. Lea la lista de problemas de la comunidad. En su opinión ¿cuáles son los 5 problemas que más afectan la calidad de vida en su comunidad?**

- |   |  |
|---|--|
| <input type="checkbox"/> Diabetes   | <input type="checkbox"/> Salud bucal   |
| <input type="checkbox"/> Obesidad/sobrepeso   | <input type="checkbox"/> Enfermedades cardíacas y accidentes cerebrovasculares                   |
| <input type="checkbox"/> Enfermedades respiratorias/pulmonares (asma, enfermedad pulmonar obstructiva crónica [EPOC], etc.) | <input type="checkbox"/> Salud sexual (VIH/sida, enfermedades de transmisión sexual [ETS], etc.) |
| <input type="checkbox"/> Cáncer   | <input type="checkbox"/> Embarazos de adolescentes   |
| <input type="checkbox"/> Salud mental y trastornos mentales   | <input type="checkbox"/> Cuidado de ancianos   |
| <input type="checkbox"/> Lesiones, violencia y seguridad  | <input type="checkbox"/> Salud reproductiva (planificación familiar)                             |
| <input type="checkbox"/> Drogodependencia (alcohol, tabaco, drogas, etc.)   |  |
| <input type="checkbox"/> Otros, (especifique): _____  |  |

**2. ¿Cómo calificaría su propia salud personal?**

- |   |                                   |
|---|-----------------------------------|
| <input type="checkbox"/> Muy buena      | <input type="checkbox"/> Mala     |
| <input type="checkbox"/> Bastante buena | <input type="checkbox"/> Muy mala |

**3. ¿Aproximadamente, cuántas veces por semana hace ejercicio o alguna actividad física, como caminar, correr, andar en bicicleta, etc.?**

- |  |   |
|--|---|
| <input type="checkbox"/> Menos de 1 vez por semana   | <input type="checkbox"/> 5 o más veces por semana |
| <input type="checkbox"/> De 2 a 3 veces por semana   | <input type="checkbox"/> Nunca                    |
| <input type="checkbox"/> Otros, (especifique): _____ |   |

**4. ¿Cuáles son algunas de las barreras o dificultades que le impiden hacer ejercicio regularmente?**

- |  |  |
|--|--|
| <input type="checkbox"/> No tengo un lugar donde hacer ejercicio.                  | <input type="checkbox"/> No tengo con quién dejar a mis hijos mientras hago ejercicio. |
| <input type="checkbox"/> No tengo tiempo para hacer ejercicio.                     | <input type="checkbox"/> No tengo dinero para pagar un gimnasio o clases.              |
| <input type="checkbox"/> No me gusta hacer ejercicio.                              | <input type="checkbox"/> No tengo acceso a transporte.                                 |
| <input type="checkbox"/> No me siento seguro/a haciendo ejercicio en mi comunidad. |  |
| <input type="checkbox"/> Ninguno de mis amigos o familiares hacen ejercicio.       |  |
| <input type="checkbox"/> Otros, (especifique): _____                               |  |

5. ¿Le ha dicho su médico alguna de las siguientes afecciones? (Marque todas las opciones que correspondan).

- Presión arterial alta
- Colesterol alto
- Cáncer
- Diabetes
- Otros, (especifique): \_\_\_\_\_
- Obesidad
- Asma
- Enfermedad cardíaca

6. ¿En qué medida está de acuerdo o en desacuerdo con cada una de las siguientes afirmaciones?

	Muy de acuerdo	De acuerdo	En desacuerdo	Muy en desacuerdo
En mi comunidad, hay buenos parques para niños, adultos y 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.				

---

**Ahora le haremos algunas preguntas para poder ver cómo se sienten los distintos grupos de personas acerca de las preguntas que le hemos hecho.**

---

7. Código postal de su casa: \_\_\_\_\_

8. ¿Cuántos años tiene? \_\_\_\_\_

9. ¿Cuál es su raza/origen étnico?

- Blanco/a
- Negro/a o afroamericano/a
- Hispano/a o latino/a
- Asiático/a o isleño/a del Pacífico
- Indígena americano/a
- Otro/a, (especifique): \_\_\_\_\_

10. ¿Cuántos años tienen los niños/as que viven en su casa?

- 11 y menos
- Entre 12 y 18 años

Más de 18 años

Ninguno

**11. ¿Qué tipo de seguro médico o cobertura tiene?**

Privado

Medicare

Patrocinado por un empleador

Ninguno

Medicaid

Otro, (especifique): \_\_\_\_\_

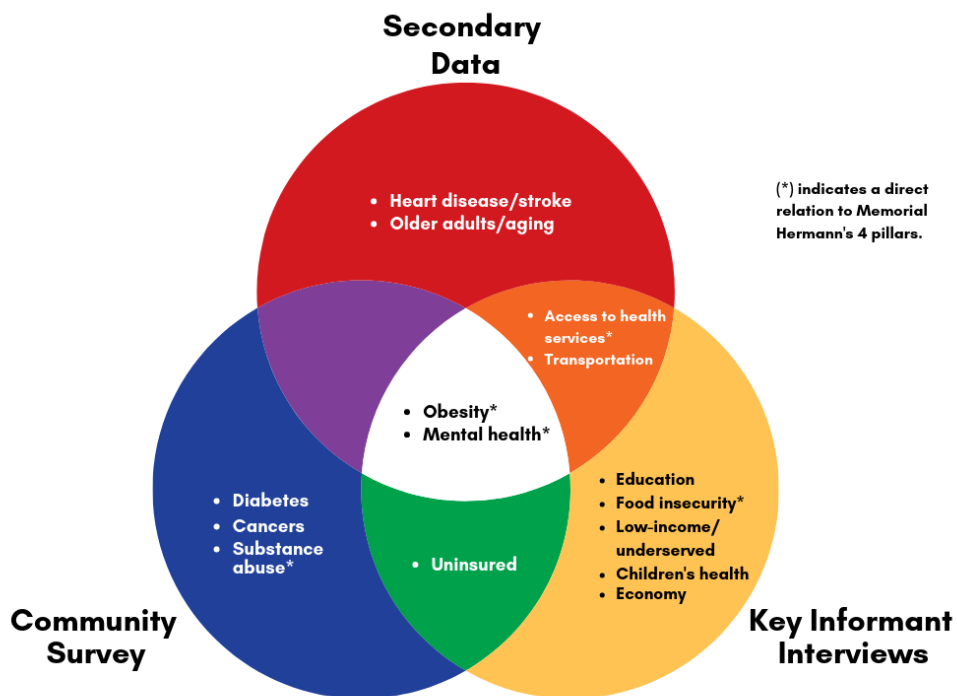
## Appendix D. Prioritization Tool

### 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 <b>impacts many people</b> in my community	This issue <b>significantly impacts</b>	There are not enough <b>existing and adequate</b>	This issue has <b>high risk for disease or death</b>
--	---	---	--

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

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

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

**Key definitions:**

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Healthcare navigation/literacy: need for education in navigating health systems  
Food insecurity: lacking reliable access to healthy food options  
Food programs: programs, efforts or services designed to address food issues  
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)
  - Memorial Hermann Tomball Hospital (ER)
  - Other (please specify): \_\_\_\_\_

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

## Appendix E. Community Resources

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

2-1-1 Texas	City of Houston, Department of Parks and Recreation
A.C. Taylor Health Center	City of Pasadena
AccessHealth	Coastal Area Health Education Centers (AHEC)
Acres Home Health Center	Community Health Choice
AIDS Foundation Houston	County Indigent Health Care Program
Aldine Health Center	Covenant with Christ Community Service Center
American Heart Association	Cypress Health Center
American Red Cross	Danny Jackson Health Center
Amistad Community Health Center	Dental Hygiene Clinic
Area Agency on Aging	E. A. "Squatty" Lyons Health Center
Association for the Advancement of 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 System
Bayside Clinic	Fort Bend County Health and Human Services
Baytown Health Center	Fort Bend County Sheriff's Office
Bee Busy Wellness Center	Fort Bend Regional Council On Substance Abuse
Boat People SOS	Fort Bend Seniors Meals on Wheels
Bo's Place	Fort Bend Women's Center
Brighter Bites	Galveston County Health District
Brownsville Community Health Center	Galveston County Mental Health Deputies
Buffalo Bayou Partnership	Go Healthy Houston Task Force
Burleson Family Medical Center	GoodRx
BVCAA - HealthPoint	Greater Houston Partnership
Can Do Houston	Greater Houston Women's Chamber of Commerce
Casa de Amigos Health Center	Gulf Coast Community Services Association
Casa El Buen Samaritano	Gulf Coast Medical Foundation
Catholic Charities of the Archdiocese of Galveston-Houston-Fort Bend	Gulfgate Health Center
Central Care Community Health	Harmony House Respite Center
Chambers Community Health Center	Harris Center Crisis Line
CHI St. Luke's Health	Harris County Public Health and Environmental Services (HCPHES)
Child Advocates of Fort Bend	Harris County Rides
Children at Risk	Harris County Social Services
Christ Clinic	
Christian Community Services Center (CCSC)	
CHRISTUS Health System	
Cities Changing Diabetes	
City of Houston	

Harris Health System  
Harvest Green (Development)  
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 Health 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