



# Community Health Needs Assessment 2022

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## Executive Summary

Since 2013, Memorial Hermann Rehabilitation Hospital-Katy has formally completed a comprehensive Community Health Needs Assessment (CHNA) every three years, in accordance with federal IRS regulations §1.501(r)-3, to better understand the population it serves as well as the health issues that are of greatest concern within its community. As part of the CHNA, the hospital system is required to collect input from the community, including professionals, residents, representatives, or leaders in its identified Primary Service Areas.

Memorial Hermann Health System partnered with Conduent Healthy Communities Institute (HCI) to employ a systematic, data-driven approach to conduct a CHNA for Memorial Hermann Rehabilitation Hospital-Katy. The purpose of this report is to offer a meaningful understanding of the most pressing health needs in the Memorial Hermann Rehabilitation Hospital-Katy Primary Service Area (PSA), as well as to guide planning efforts to address those needs. Special attention has been given to the specific needs of unique populations in the PSA including unmet health needs or gaps in services utilizing input from the community.

Findings from this report will be used to identify, develop, and target hospital and community-driven initiatives to improve the health and quality of life of residents in the community.

### Primary Service Area

Memorial Hermann Health System defines the community served by a hospital, as those individuals residing within its Hospital Primary Service Area (PSA). The PSA includes 10 zip codes, within Austin, Fort Bend, Harris, and Waller Counties, and does not exclude low-income or underserved populations. The zip codes are listed in the Primary Service Area description section of this report.

### Demographics

The demographics of a community significantly impact its health profile. Different race/ethnic, age, sex, and socioeconomic groups may have unique needs and require varied approaches to health improvement efforts. All demographic estimates in this report are sourced from Claritas Pop-Facts® (2021 population estimates) and American Community Survey one-year (2019) or five-year (2015-2019) estimates unless otherwise indicated.

# Methods for Identifying Community Health Needs

## Secondary Data

Secondary data used for this assessment were collected and analyzed from Conduent Healthy Communities Institute's community indicator database. The database, maintained by researchers and analysts at HCI, includes over 200 community indicators covering at least 28 topics in the areas of health, determinants of health, and quality of life. The data are primarily derived from state and national public secondary data sources. The value for each of these indicators is compared to other communities, nationally set targets, and to previous time periods.

## Primary Data / Community Input

Primary data used in this assessment consisted of key informant interviews (KIIs) and a community survey. KIIs were conducted with leaders and staff from organizations that provide services directly to the community and officials that represent governmental and non-governmental entities. Interviewees invited to participate were recognized as having expertise in public health, special knowledge of community health needs, representing the broad interests of the community served by the hospital, and/or being able to speak to the needs of medically underserved or vulnerable populations. Input from community residents was collected through an online survey. The survey consisted of 12 questions related to top health needs in the community, individuals' perception of their overall health, individuals' access to health care services, as well as demographic, social, and economic determinants of health.

## Summary of Findings

The CHNA findings in this report are drawn from the analysis of an extensive set of secondary data (more than 200 indicators from national and state data sources) and in-depth primary data from community leaders, non-health professionals, and organizations that serve the community at large, community-specific populations, and/or populations with unmet health needs.

Significant health needs were identified across all socioeconomic groups, races and ethnicities, ages, and sexes. The assessment highlighted health disparities and needs that disproportionately impact the medically underserved and uninsured. Through a synthesis of the primary and secondary data, the following 15 health topics were considered.

Memorial Hermann Health System Significant Health Needs		
1. Mental Health and Mental Disorders	6. Physical Activity	11. Oral Health
2. Access to Healthcare	7. Children's Health	12. Women's Health
3. Diabetes	8. Obesity/Overweight	13. Cancers
4. Older Adults/Elderly Care	9. Substance Abuse (alcohol, tobacco, drugs)	14. Injuries, Violence & Safety
5. Heart Disease & Stroke	10. Wellness & Lifestyle	15. Respiratory/Lung Disease (asthma, COPD, etc.)

**Prioritized Areas**

To standardize efforts across the Memorial Hermann Health System and increase the potential for impacting top health needs in the Greater Houston region, secondary data scoring was assessed and prioritized at the regional/system level. In March 2022, key members from the 13 hospital facilities in the Memorial Hermann Health System completed a survey to prioritize the significant health issues, based on the criteria of ability to impact, scope and severity, and consideration within Memorial Hermann’s strategic focus. The following topics were identified as priorities to address:

Memorial Hermann Pillars	Memorial Hermann Health System Prioritized Health Needs
Access:	Access to Healthcare
Emotional Well-Being:	Mental Health and Mental Disorders
Food as Health:	Diabetes, Heart Disease, Stroke, Obesity/Overweight
Exercise is Medicine:	Diabetes, Heart Disease, Stroke, Obesity/Overweight

## Disparities

Identifying disparities by race/ethnicity, gender, age, and geography helps to inform and focus priorities and strategies. Understanding disparities also helps us better understand root causes that impact health in a community and inform action towards health equity. Community health disparities were assessed in the data collection process using multiple analysis tools including HCI's Health Equity Index (HEI), HCI's Food Insecurity Index (FII), and Index of Disparity. Primary data collection and analysis also incorporated a focus on disparities.

## COVID-19 Impact Snapshot

At the time that Memorial Hermann Health System began its CHNA process, the state of Texas and the nation were continuing to deal with the novel coronavirus (COVID-19) pandemic. The process for conducting the assessment remained fundamentally the same. However, there were some adjustments made during the process to ensure the health and safety of those participating. A summary of the community impact of the COVID-19 pandemic in the region and the impact on community issues are incorporated into this report.

## Conclusion

This Community Health Needs Assessment (CHNA), conducted for Memorial Hermann Rehabilitation Hospital-Katy and the Memorial Hermann Health System, used a comprehensive set of secondary and primary data to determine the significant health needs in the Memorial Hermann Health System. The findings in this report will be used to guide the development of Rehabilitation Hospital-Katy's Implementation Strategy, which will outline strategies to address identified priorities and improve the health of the community.

## Introduction & Purpose

As a not-for-profit, tax-exempt hospital, Memorial Hermann Rehabilitation Hospital-Katy is pleased to present its 2021-22 CHNA report, which provides an overview of the significant community health needs identified in the hospital's Primary Service Area, defined as the Memorial Hermann Rehabilitation Hospital-Katy Primary Service Area. Memorial Hermann Health System partnered with Conduent Healthy Communities Institute (HCI) to conduct the 2021-22 CHNA across Memorial Hermann Health System's regional Primary Service Area, including Memorial Hermann Rehabilitation Hospital-Katy. The Memorial Hermann Health System includes 13 licensed 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 report is to offer a meaningful understanding of the most pressing health needs across Memorial Hermann's regional Primary Service Area and Memorial Hermann Rehabilitation Hospital-Katy Primary Service Area, as well as to guide planning efforts to address those needs. Special attention has been given to the needs of community-specific populations, unmet health needs or gaps in services, and input gathered from the community. Additionally, a section has been added to this report that focuses on the impact of the COVID-19 pandemic.

Findings from this report will be used to identify, develop, and target hospital and community-driven initiatives to improve the health and quality of life of residents in the community.

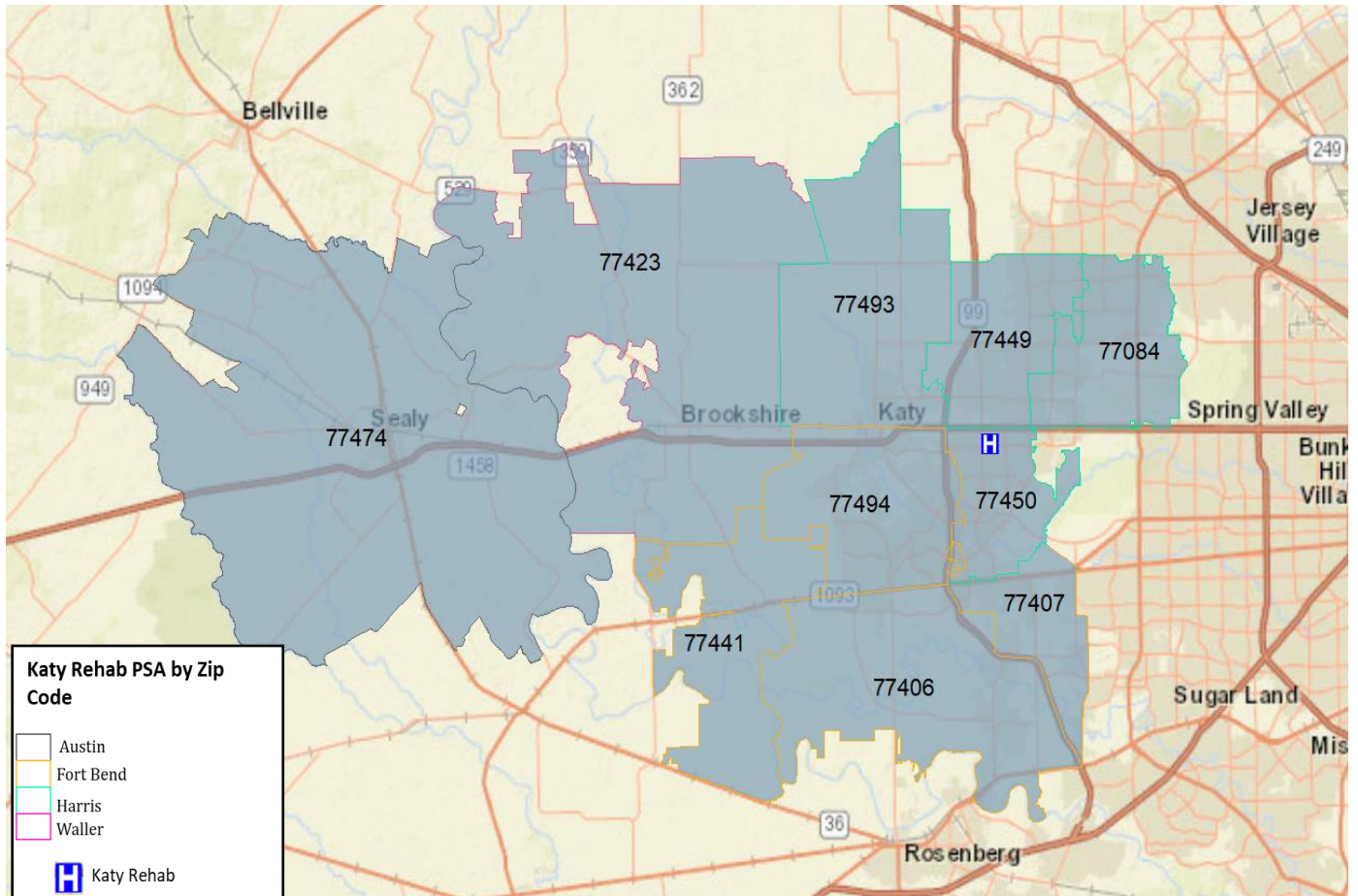
### **This report includes a description of:**

- The community demographics and population served.
- The process and methods used to obtain, analyze, and synthesize primary and secondary data.
- The significant health needs in the community, considering the needs of uninsured, low-income, and marginalized groups.
- The process and criteria used in identifying certain health needs as significant and prioritizing those significant community needs.

## Primary Service Area Definition

The geographical boundaries of the Memorial Hermann Rehabilitation Hospital-Katy Primary Service Area (PSA) are shown in the map below (**Figure 1**). The PSA is defined by 10 zip codes in Austin, Fort Bend, Harris, and Waller Counties. The zip codes and associated counties are listed in **Table 1**.

**Figure 1. Memorial Hermann Rehabilitation Hospital-Katy Primary Service Area**





**Table 1. Rehabilitation Hospital - Katy PSA Zip Codes**

<b>Zip</b>	<b>County</b>
77494	Fort Bend
77449	Harris
77450	Harris
77493	Harris
77084	Harris
77474	Austin
77423	Waller
77407	Fort Bend
77406	Fort Bend
77441	Fort Bend
<b>Rehab Hospital - Katy PSA</b>	

# About Memorial Hermann Health System

## Memorial Hermann Health System

Charting a better future. A future that's built upon the HEALTH of our community. At Memorial Hermann, this is the driving force as we strive to redefine and deliver health care for the individuals and many diverse populations we serve. Our 6,700 affiliated physicians and 29,000 employees practice the highest standards of safe, evidence-based, quality care to provide a personalized and outcome-oriented experience across our more than 270 care delivery sites. As one of the largest not-for-profit health systems in Southeast Texas, Memorial Hermann has an award-winning and nationally acclaimed Accountable Care Organization, 17\* hospitals and numerous specialty programs and services conveniently located throughout the Greater Houston area. Memorial Hermann-Texas Medical Center is one of the nation's busiest Level I trauma centers and serves as the primary teaching hospital for McGovern Medical School at UTHealth Houston. For more than 115 years, our focus has been the best interest of our community, contributing more than \$411 in FY 20 through school-based health centers, neighborhood health centers, a nurse health line and other community benefit programs. Now and for generations to come, the health of our community will be at the center of what we do—charting a better future for all.

*\*Memorial Hermann Health System owns and operates 14 hospitals and has joint ventures with three other hospital facilities, including Memorial Hermann Surgical Hospital First Colony, Memorial Hermann Surgical Hospital Kingwood and Memorial Hermann Rehabilitation Hospital-Katy. These facilities comprise 13 separate hospital licenses.*

## Mission Statement

Memorial Hermann Health System is a non-profit, values-driven, community-owned health system dedicated to improving health.

## Vision

To create healthier communities, now and for generations to come.

## Our Values

**Community:** We value diversity and inclusion and commit to being the best healthcare provider, employer and partner.

**Compassion:** We understand our privileged role in people's lives and care for everyone with kindness and respect.

**Credibility:** We conduct ourselves and our business responsibly and prioritize safety, quality and service when making decisions.

**Courage:** We act bravely to innovate and achieve world-class experiences and outcomes for patients, consumers, partners and the community.

The extensive geographic coverage and breadth of service uniquely positions Memorial Hermann to collaborate with other providers to assess and create healthcare solutions for individuals in Greater Houston's diverse communities; to provide superior quality, cost-efficient, innovative and compassionate care; to support teaching and research to advance the health professionals and

health care of tomorrow; and to provide holistic health care that addresses the physical, social, psychological and spiritual needs of individuals. An integrated health system, Memorial Hermann is known for world-class clinical expertise, patient-centered care, leading-edge technology and innovation. Supporting and guiding the System in its impact on overall population health is the Memorial Hermann Community Benefit Corporation.

The Memorial Hermann Community Benefit Corporation (CBC) implements initiatives that work with other healthcare providers, government agencies, business leaders and community stakeholders that are designed to improve the overall quality of life in our communities. The work is built on the foundation of four intersecting pillars: Access to Health Care, Emotional Wellbeing, Food as Health and Exercise is Medicine. These pillars are designed to provide care for uninsured and underinsured; to reach those Houstonians needing low-cost care; to support the existing infrastructure of non-profit clinics and federally qualified health centers; to address mental and behavioral care services through innovative access points; to work against food insecurity and physical inactivity; and to educate individuals and their families on how to access the services needed by and available to them. Funded largely by Memorial Hermann with support by various partners and grants, the work takes us outside of our campuses and into the community.

### **Memorial Hermann Rehabilitation Hospital-Katy**

For more than a decade, Memorial Hermann Rehabilitation Hospital – Katy has provided quality care customized to meet each patient’s individual needs – offering streamlined rehabilitation from the time patients enter the facility, until well after they are discharged to go home. With more than 250 providers on the affiliated medical staff, patients have access to a variety of specialists. Additionally, providers work very closely with primary care and internal medicine physicians, allowing them to follow their patients into the rehab setting, ensuring complete continuity of health care. Memorial Hermann Rehabilitation Hospital – Katy Inpatient Rehabilitation sees patients who have the following: stroke, non-traumatic brain injury, neurological disorders, cancer rehabilitation, non-traumatic spinal cord injury, orthopedic conditions, amputation or debilitation.

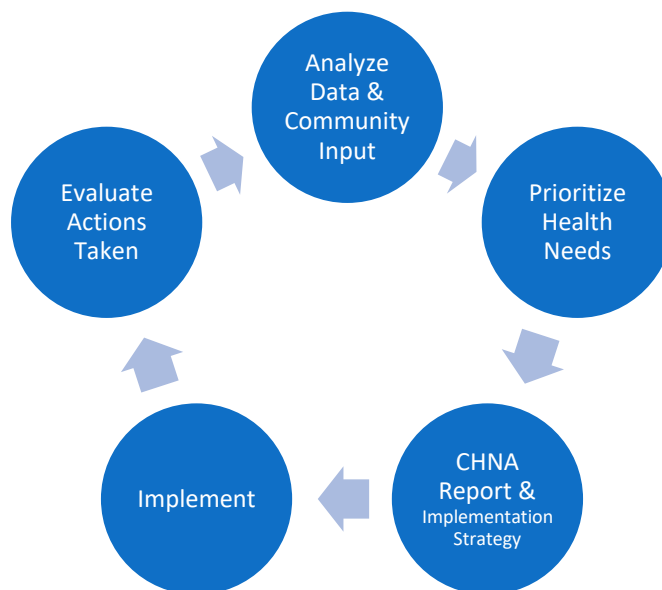
### **Consultants**

Memorial Hermann Health System collaborated with Conduent Healthy Communities Institute (HCI) on the completion of its 2021-22 CHNA. HCI works with clients across the U.S. to drive community health improvement 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 (**Figure 2**) should be viewed as a three-year cycle. An important piece of that cycle is revisiting the progress made on priority health topics set forth in the preceding CHNA. By reviewing the actions taken to address a priority health issue and evaluating the impact those actions have made in the community, it is possible to better target resources and efforts during the next round of the CHNA cycle.

Figure 2. CHNA Process



## Priority Health Needs from Preceding CHNA

Memorial Hermann Rehabilitation Hospital-Katy's priority health areas for the years 2019-2021 were:

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

The following section includes notable highlights from a few of the initiatives implemented since the last CHNA to address the priority health needs.

## **Priority Health Need #1: Access to Health Care**

Memorial Hermann Rehabilitation Hospital – Katy participates in the system-wide Nurse Health Line initiative which increases patients’ access to care to ensure they receive care at the right location, at the right cost, at the right time. The 24/7 free resource is a service for community members (uninsured and insured) within the greater Houston community to call to discuss their health concerns, receive recommendations on the appropriate setting for care, and get connected to appropriate resources.

## **Priority Health Need #2: Emotional Well-Being**

Memorial Hermann Rehabilitation Hospital – Katy participates in system-wide initiatives that connect and care for community members experiencing a mental health concern with: referrals to Memorial Hermann Mental Health Crisis Clinics and, linkages to a permanent, community based mental health provider with the Memorial Hermann Integrated Care Program.

## **Priority Health Need #3: Food as Health**

Memorial Hermann Rehabilitation Hospital – Katy provides heart disease and stroke education and support through joint support groups with Memorial Hermann Katy Hospital.

## **Community Feedback from Preceding CHNA & Implementation Plan**

Memorial Hermann Rehabilitation Hospital-Katy 2019-2021 CHNA and Implementation Plan were made available to the public and open for public comment via the website:

<https://memorialhermann.org/giving-back/community-benefit/reports-community>.

No comments were received on either document at the time this report was written.

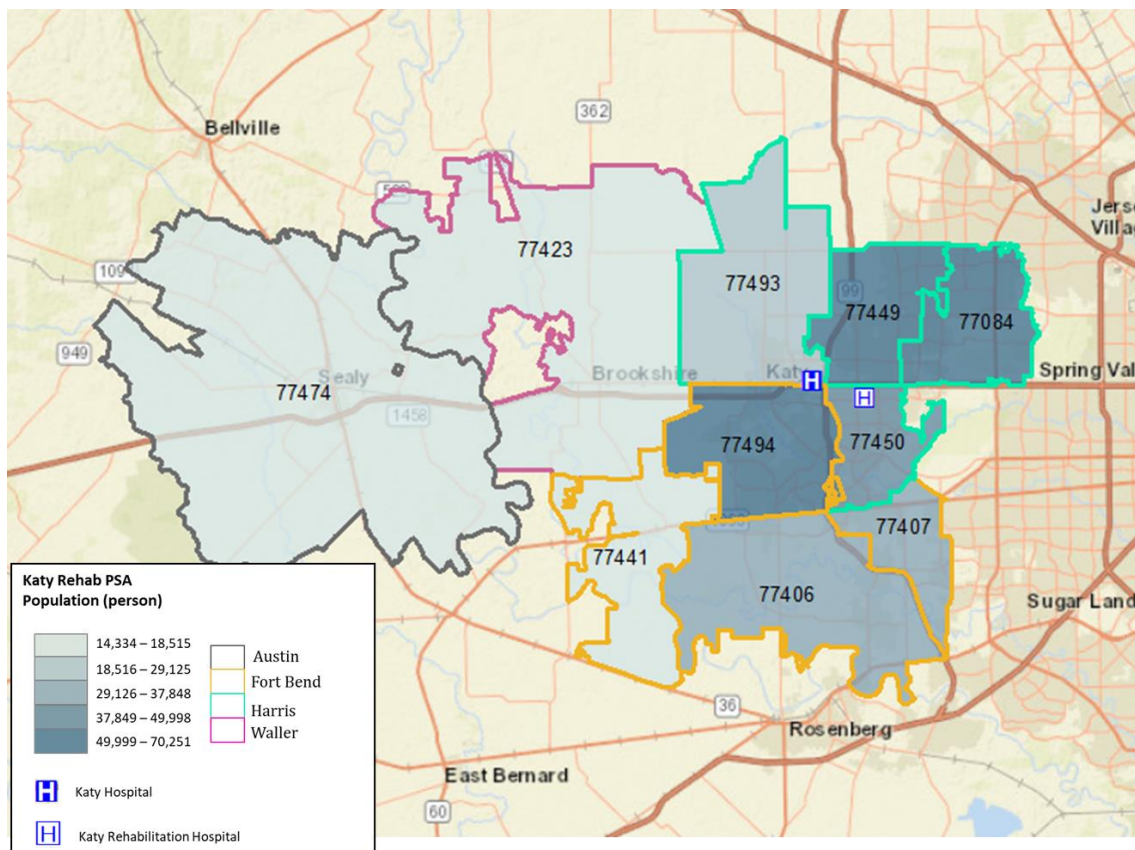
## Demographics

The following section explores the demographic profile of Memorial Hermann Rehabilitation Hospital-Katy Primary Service Area (PSA). The demographics of a community significantly impact its health profile. Different race/ethnic, age, sex, and socioeconomic groups may have unique needs and require varied approaches to health improvement efforts. All demographic estimates are sourced from Claritas Pop-Facts® (2021 population estimates) and American Community Survey one-year (2019) or five-year (2015-2019) estimates unless otherwise indicated.

## Population

According to the 2021 Claritas Pop-Facts® population estimates, Memorial Hermann Rehabilitation Hospital-Katy has a population of approximately 646,039 persons. **Figure 3** shows the population size by each zip code, with darker shades indicating larger populations, and the hospital's Primary Service Area demarcated in blue. **Table 2** provides the actual population estimates for each zip code. The most populated areas within the hospital's Primary Service Area are zip code 77494 with a population of 128,069 and 77449 with a population of 123,925. Together these zip codes comprise about 40% of the total population in the Memorial Hermann Rehabilitation Hospital - Katy PSA.

**Figure 3. Rehab Hospital - Katy PSA Population Size by Zip Code**



**Source:** 2021 Claritas Pop-Facts®, ArcGIS Map

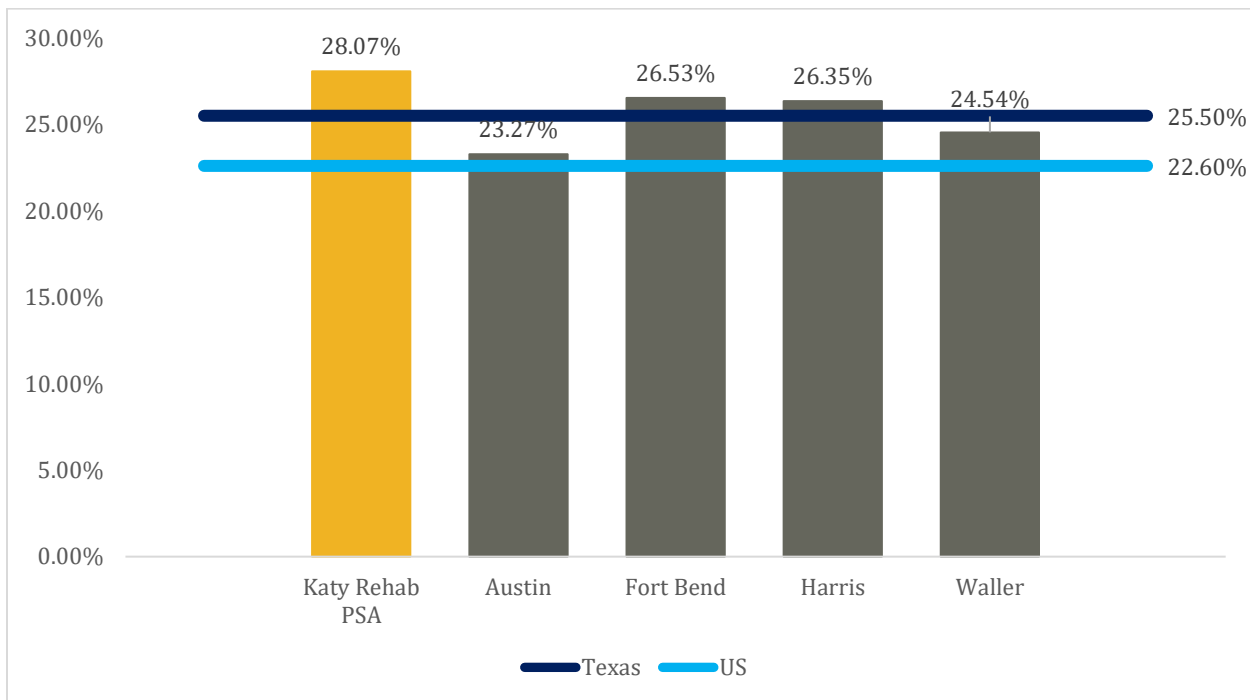
**Table 2. Rehab Hospital - Katy PSA Population by Zip Code**

Zip Code	Total Population Estimate	Percent of Total
77494	128,069	20%
77449	123,925	19%
77084	117,695	18%
77450	81,674	13%
77407	61,425	10%
77406	53,729	8%
77493	35,302	5%
77423	15,686	2%
77441	14,352	2%
77474	14,182	2%
<b>Total</b>	<b>646,039</b>	<b>100%</b>

### Age

**Figure 4** shows the Memorial Hermann Rehabilitation Hospital - Katy Primary Service Area population under the age of eighteen compared to Austin, Fort Bend, Harris, and Waller Counties, Texas, and the United States. Rehabilitation Hospital - Katy PSA has the highest percentage of individuals under the age of eighteen of all comparative areas.

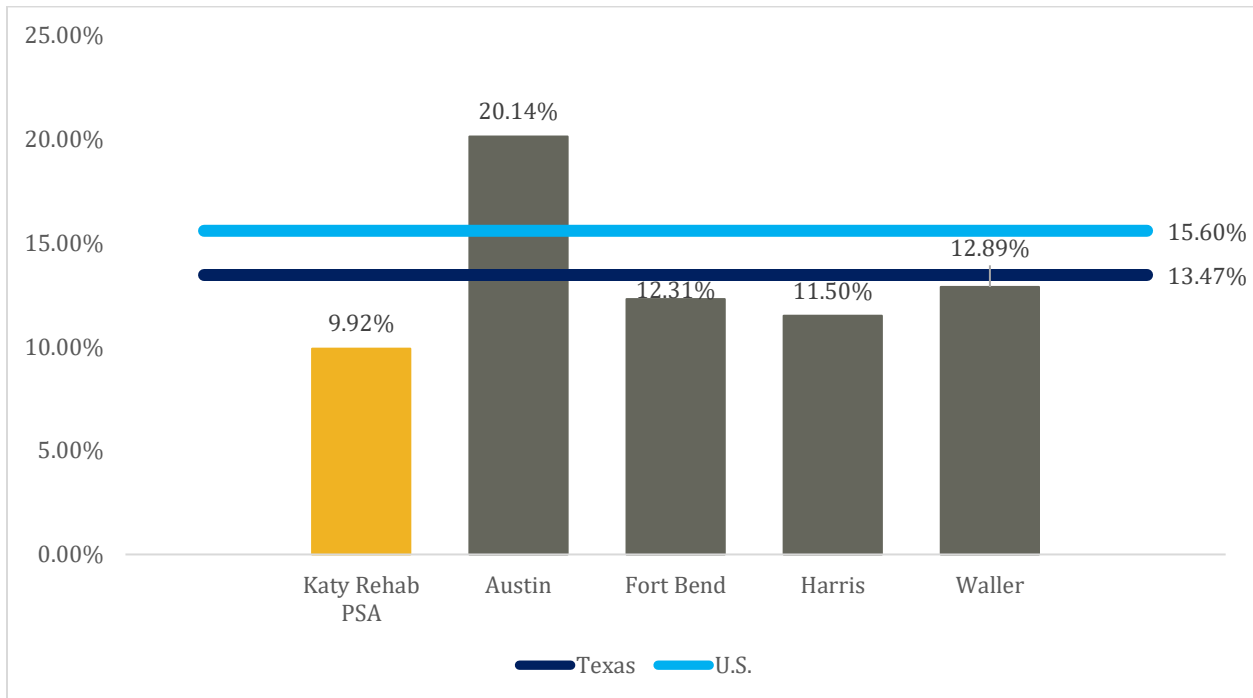
**Figure 4. Population Under Age 18**



**Source:** 2021 Claritas Pop-Facts®, American Community Survey 2015-2019

**Figure 5** shows the Memorial Hermann Rehabilitation Hospital - Katy Primary Service Area population over the age of sixty-five as compared to Austin, Fort Bend, Harris, and Waller Counties, Texas, and the United States. Rehabilitation Hospital - Katy PSA has a significantly lower percentage of the population over 65 than all comparative areas.

**Figure 5. Population Over Age 65**



**Source:** 2021 Claritas Pop-Facts®, American Community Survey 2015-2019



**Table 3** shows the age breakdown of the Memorial Hermann Rehabilitation Hospital-Katy Primary Service Area compared to county and state. Overall, the age breakdown is similar but slightly younger than the age breakdown of counties represented in the Primary Service Area and the state of Texas.

**Table 3. Population by Age: Primary Service Area, County, and Texas Comparisons**

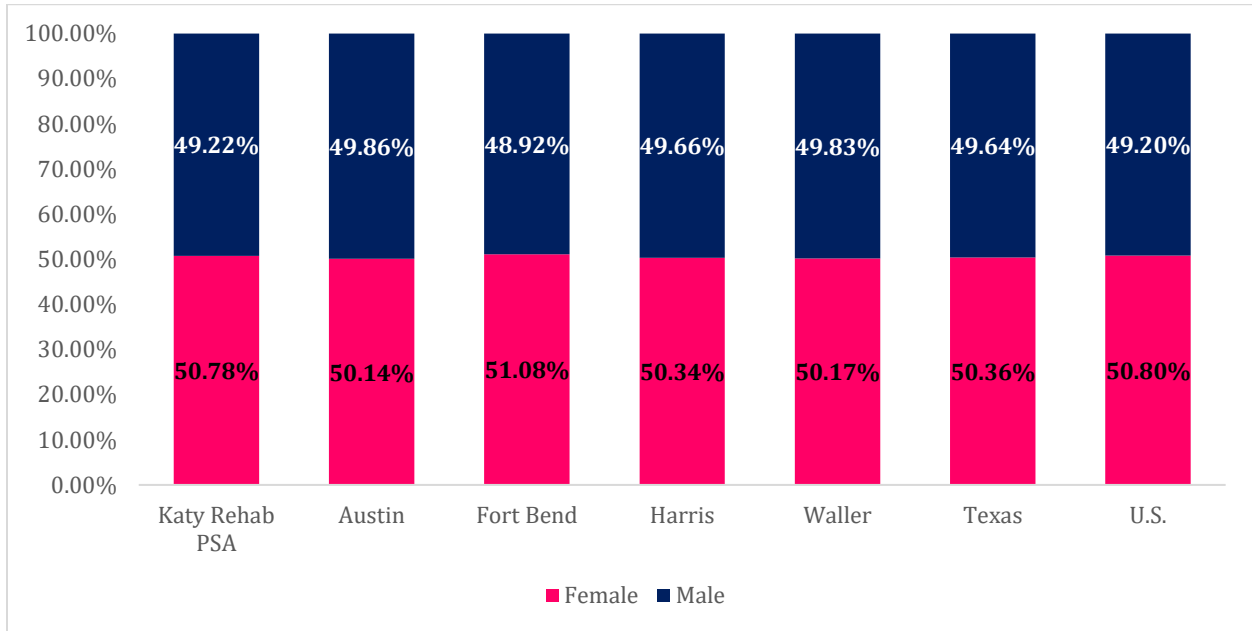
Location	Age 0-4	Age 5-17	Age 18-24	Age 25-34	Age 35-44	Age 45-54	Age 55-64	Age 65+
Rehabilitation Hospital - Katy PSA	7.52%	20.55%	9.67%	12.51%	14.47%	14.12%	11.25%	9.92%
Austin	5.95%	17.32%	8.57%	11.25%	10.98%	11.66%	14.14%	20.14%
Fort Bend	6.84%	19.69%	9.31%	11.43%	14.33%	14.24%	11.84%	12.31%
Harris	7.44%	18.91%	9.34%	15.71%	14.43%	12.48%	10.73%	11.50%
Waller	6.76%	17.77%	18.77%	11.97%	10.62%	10.39%	10.83%	12.89%
Texas	7.01%	18.49%	9.94%	14.02%	13.50%	12.33%	11.25%	13.47%

Source: 2021 Claritas Pop-Facts®, American Community Survey 2015-2019

## Sex

**Figure 6** shows the male and female percentages for the Rehabilitation Hospital - Katy Primary Service Area, associated counties, Texas, and the United States. Males comprise 49.22% of the population, whereas females comprise 50.78% of the population in the Primary Service Area, similar to all comparative areas.

**Figure 6. Population by Sex**



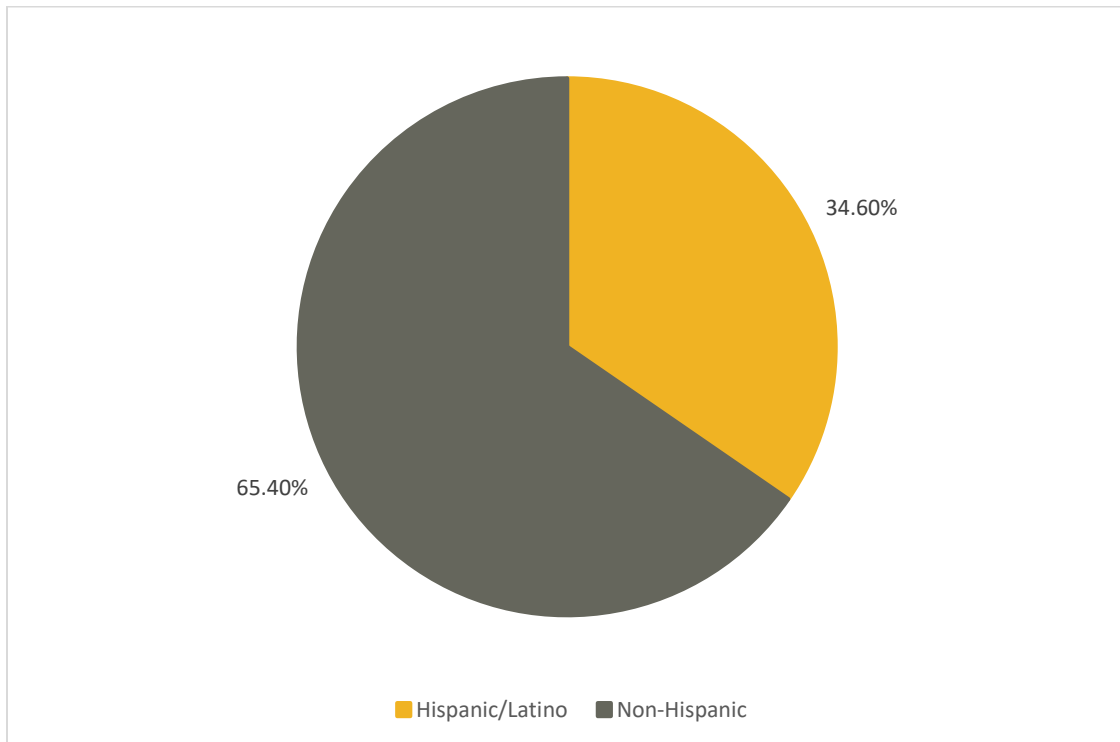
**Source:** 2021 Claritas Pop-Facts®, American Community Survey 2015-2019

## Race and 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 childcare. Race and ethnicity data are also useful for identifying and understanding disparities in housing, employment, income, and poverty.

**Figure 7** shows the ethnicity of residents in the Memorial Hermann Rehabilitation Hospital-Katy Primary Service Area with 34.60% of residents identifying as Hispanic or Latino (of any race) and 65.40% identifying as non-Hispanic.

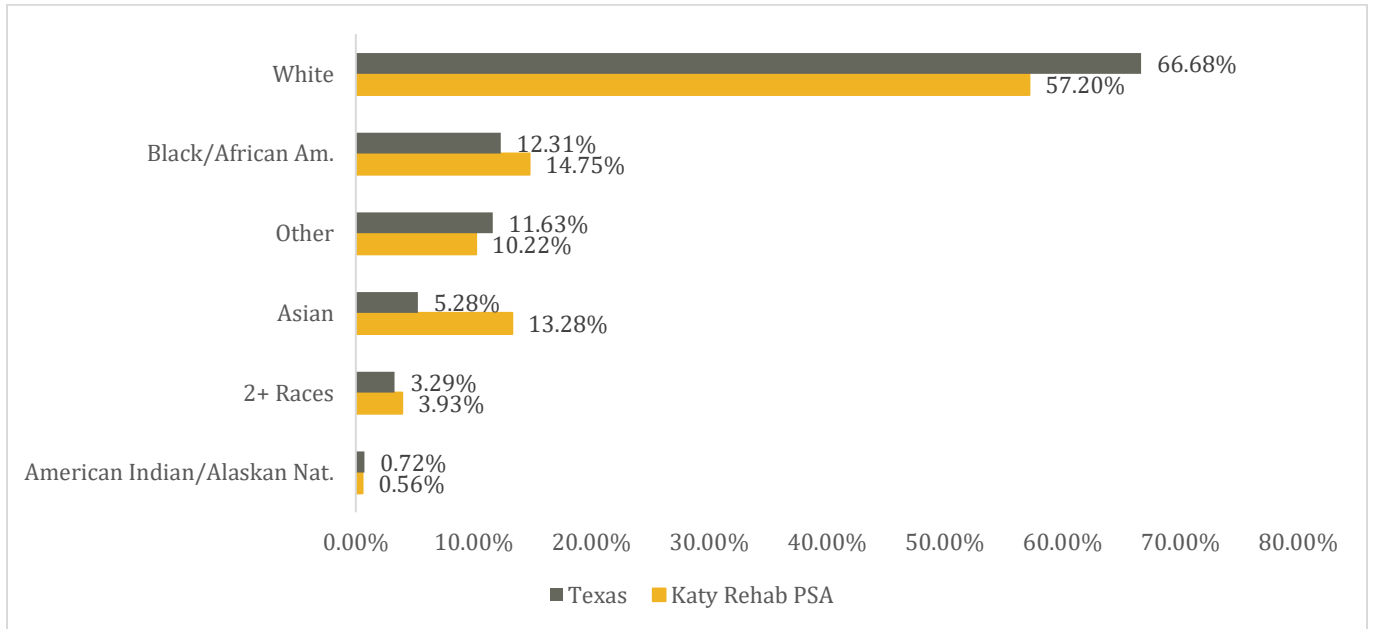
**Figure 7. Rehab Hospital - Katy PSA Ethnicity**



**Source:** 2021 Claritas Pop-Facts®

**Figure 8** shows the racial composition with 57.20% as White; 14.75% as Black/African American; 13.28% as Asian; 3.93% identify as “two or more Races;” and less than one percent as American Indian and Alaska Native, Native Hawaiian, and Other Pacific Islander. **Table 4** shows the comparisons by location, which includes zip code, Primary Service Area, county, and state comparisons.

**Figure 8. Rehab Hospital - Katy PSA Race**



**Source:** 2021 Claritas Pop-Facts®

**Table 4. Population by Race Zip Code, Primary Service Area, County, State, and U.S. Comparisons**

<b>Location</b>	<b>White</b>	<b>Black/ African American</b>	<b>American Indian/ Alaskan Native</b>	<b>Asian</b>	<b>Native Hawaiian/ Pacific Islander</b>	<b>Other Race</b>	<b>2+ Races</b>
<b>77474</b>	73.45%	8.52%	0.30%	0.99%	0.00%	12.92%	3.82%
<b>77406</b>	67.94%	15.40%	0.61%	8.29%	0.02%	4.72%	3.02%
<b>77407</b>	34.69%	27.98%	0.44%	27.61%	0.01%	5.98%	3.28%
<b>77441</b>	83.37%	5.32%	0.70%	5.92%	0.23%	2.47%	2.00%
<b>77494</b>	63.69%	7.18%	0.35%	21.67%	0.11%	3.00%	3.99%
<b>77084</b>	49.81%	16.26%	0.62%	11.46%	0.07%	17.63%	4.15%
<b>77449</b>	49.67%	21.93%	0.72%	5.53%	0.06%	17.55%	4.54%
<b>77450</b>	66.79%	6.91%	0.52%	16.15%	0.05%	5.38%	4.19%
<b>77493</b>	66.33%	11.34%	0.68%	5.07%	0.03%	12.38%	4.17%
<b>77423</b>	61.49%	17.38%	0.78%	1.78%	0.03%	16.01%	2.52%
<b>Rehab Hospital - Katy PSA</b>	57.20%	14.75%	0.56%	13.28%	0.06%	10.22%	3.93%
<b>Austin</b>	76.26%	8.53%	0.52%	0.75%	0.02%	10.98%	2.94%
<b>Fort Bend</b>	46.55%	20.19%	0.42%	21.20%	0.05%	8.10%	3.49%
<b>Harris</b>	53.33%	19.02%	0.70%	7.40%	0.07%	15.63%	3.86%
<b>Waller</b>	57.25%	23.65%	0.87%	1.31%	0.04%	14.47%	2.42%
<b>Texas</b>	66.68%	12.31%	0.72%	5.28%	0.10%	11.63%	3.29%
<b>United States</b>	72.50%	12.70%	0.90%	5.50%	0.2%	4.90%	3.30%

**Source:** 2021 Claritas Pop-Facts®, American Community Survey 2015-2019

**Table 5** shows the ethnicity by Primary Service Area, county, state, and United States comparisons. In the Memorial Hermann Rehabilitation Hospital - Katy Primary Service Area, 34.60% identify as Hispanic, somewhat similar to other locations but significantly higher than national percentages.

**Table 5. Population by Ethnicity: Primary Service Area, County, State, and U.S. Comparisons**

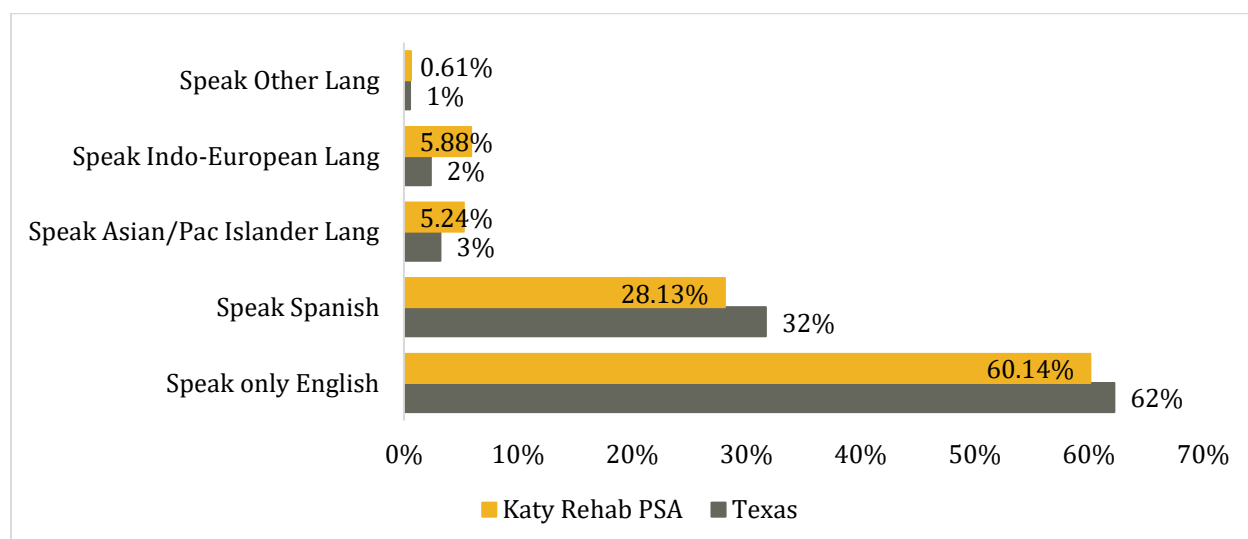
Location	Hispanic	Non-Hispanic
Rehab Hospital - Katy PSA	34.60%	65.40%
Austin	29.40%	70.60%
Fort Bend	25.46%	74.54%
Harris	44.85%	55.15%
Waller	31.96%	68.04%
Texas	40.90%	59.10%
United States	18.00%	82.00%

Source: 2021 Claritas Pop-Facts®, American Community Survey 2015-2019

## Language and Immigration

Language is an important factor to consider for outreach efforts to ensure that community members are aware of available programs and services. **Figure 9** shows the percentage of the population age five and older by language spoken at home. In the Rehabilitation Hospital - Katy Primary Service Area, the proportion of the population that speaks English at home is 60%. 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. Spanish is the second most common language spoken at home, at 28% of the population. **Table 6** shows the comparisons by location, which includes zip code, Primary Service Area, county, and state comparisons.

**Figure 9. Population Age 5+ by Language Spoken at Home**



Source: 2021 Claritas Pop-Facts®, American Community Survey 2015-2019

**Table 6. Population Age 5+ by Language Spoken at Home: Zip Code, Primary Service Area, County, and State Comparisons**

Location	Only English	Spanish	Asian/Pacific Island Language	Indo-European Lang.	Other Language
77474	68.19%	27.98%	0.36%	3.40%	0.07%
77406	77.09%	15.44%	4.15%	2.71%	0.61%
77407	57.23%	19.17%	10.42%	11.45%	1.73%
77441	81.25%	11.74%	3.64%	3.14%	0.22%
77494	65.63%	18.95%	4.50%	10.75%	0.17%
77084	51.17%	37.94%	6.14%	4.25%	0.50%
77449	49.15%	44.56%	3.19%	2.31%	0.79%
77450	64.67%	19.06%	8.10%	7.45%	0.72%
77493	64.71%	30.36%	2.60%	2.02%	0.31%
77423	60.59%	36.90%	0.95%	1.42%	0.15%
Rehab Hospital - Katy PSA	60.14%	28.13%	5.24%	5.88%	0.61%
Austin	73.72%	22.41%	0.20%	3.61%	0.05%
Fort Bend	61.94%	19.94%	8.33%	8.69%	1.10%
Harris	56.09%	35.82%	4.15%	3.05%	0.89%
Waller	72.17%	24.84%	1.35%	1.38%	0.25%
Texas	62.22%	31.70%	3.20%	2.35%	0.53%

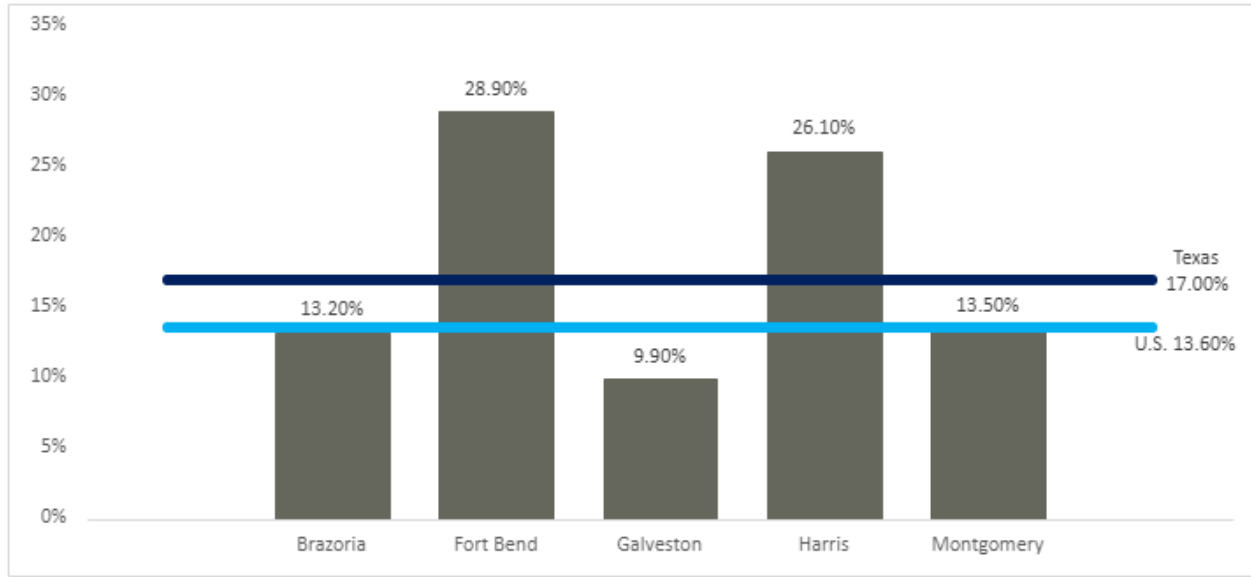
**Source:** 2021 Claritas Pop-Facts®, American Community Survey 2015-2019

In 2017, the Houston metropolitan area was home to 1.6 million immigrants, making it the fifth-largest foreign-born population in the US, after New York City, Los Angeles, Miami, and Chicago. Immigrants represented 24% of Houston’s overall population. Unauthorized immigrants made up approximately one-third of immigrants in the Houston area. Another 30% were naturalized citizens, 32% were legal permanent residents, and 5% were legal nonimmigrants (Migration Policy Institute, 2018).

Unauthorized immigrants comprised 10% of all workers, a share higher than their proportion of the Houston population at 8%. Houston’s economic future is critically dependent on continued immigration. Construction and service industries are particularly dependent on immigrant labor today, but other sectors such as health care and IT will increasingly rely on immigrants to meet growing labor demands (Migration Policy Institute, 2018).

**Figure 10** shows the estimated percentages of the population who are foreign born. The percentages include all foreign-born persons, regardless of whether they are naturalized U.S. citizens. Data availability was limited to five of twelve counties served by the Memorial Hermann Hospital System.

**Figure 10. Foreign Born Persons: County, State, and U.S. Comparisons**



**Source:** American Community Survey 2015-2019



## Social & Economic Determinants of Health

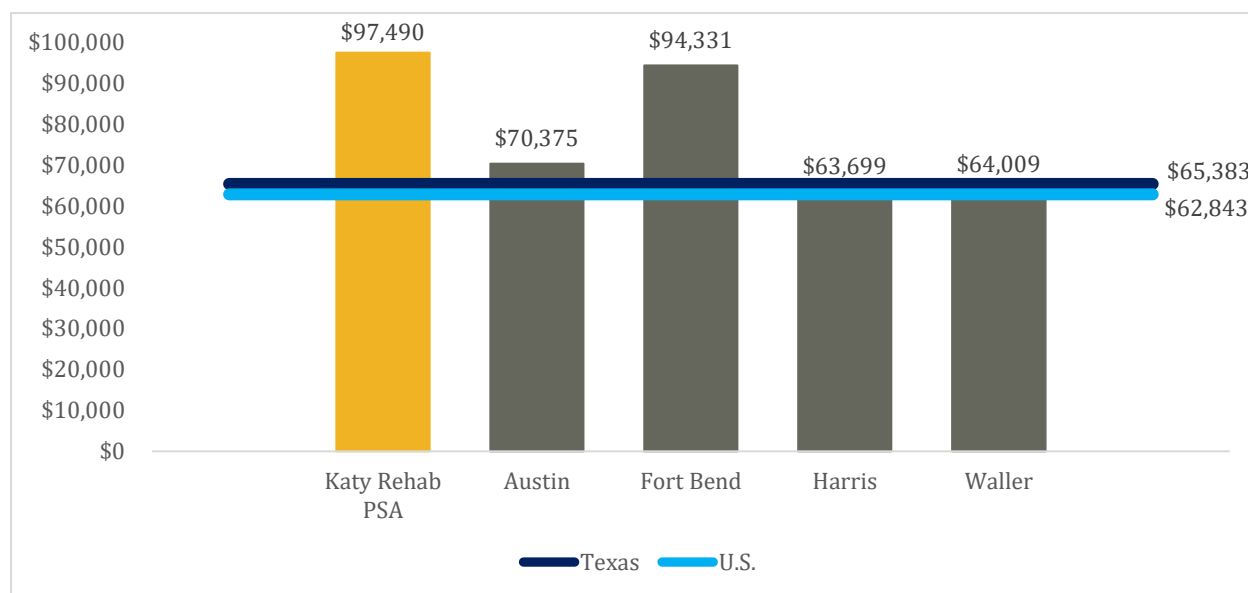
This section explores the economic, environmental, and social determinants of health of the Memorial Hermann Rehabilitation Hospital-Katy Primary Service Area. Social determinants are the conditions in which people are born, grow, work, live, and age, and the wider set of forces and systems shaping the 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. Areas with higher median household incomes also have higher home values and their residents enjoy more disposable income.

**Figure 11** provides a breakdown of households by income in the Memorial Hermann Rehabilitation Hospital-Katy Primary Service Area, Austin, Fort Bend, Harris, and Waller Counties, Texas, and the United States. The Rehabilitation Hospital - Katy Primary Service Area median household income is \$97,490 which is significantly higher than all comparative areas, with the exception of Fort Bend County at \$94,331.

**Figure 11. Median Household Income: Primary Service Area, County, State, and U.S. Comparisons**



**Source:** 2021 Claritas Pop-Facts®, American Community Survey 2015-2019

**Table 7** shows the median household income by zip code, Primary Service Area, county, state, and the United States. At \$160,934, zip code 77441 has the highest median household income and 77084 has the lowest at \$68,661. **Table 8** shows the median household income by race/ethnicity. In the Rehabilitation Hospital - Katy PSA, the Asian population has the highest median income of all

racers at \$116,953. White follows at \$102,497; Native Hawaiian/Pacific Islander at \$95,394; Black/African American at \$80,628; and Hispanic/Latino at \$77,480.

**Table 7. Median Household Income by Zip Code, Primary Service Area, County, State, and the U.S.**

Location	Median Household Income
77441	\$160,934
77494	\$134,552
77406	\$116,038
77407	\$97,117
77450	\$94,893
77493	\$94,716
77449	\$76,578
77423	\$73,596
77474	\$73,450
77084	\$68,661
Rehab Hospital – Katy PSA	\$57,050
Austin	\$70,375
Fort Bend	\$94,331
Harris	\$63,699
Waller	\$64,009
Texas	\$65,385
U.S.	\$62,843

Source: 2021 Claritas Pop-Facts®, American Community Survey 2015-2019

**Table 8. Median Household Income by Race/ Ethnicity: Zip Code, Primary Service Area, County, State, and U.S. Comparisons**

Location	White	Black/ African American	American Indian/ Alaskan Native	Asian	Native Hawaiian/ Pacific Islander	Hispanic/ Latino
77474	\$85,356	\$34,648	\$36,875	\$85,069	N/A	\$62,614
77406	\$120,989	\$101,244	\$135,938	\$109,031	\$118,750	\$108,750
77407	\$100,062	\$96,627	\$83,333	\$102,062	\$137,500	\$81,016
77441	\$162,962	\$63,710	\$73,611	\$183,442	\$125,000	\$117,273
77494	\$135,337	\$88,650	\$136,591	\$151,680	\$115,517	\$122,493
77084	\$68,459	\$71,115	\$51,630	\$78,377	\$53,750	\$56,987
77449	\$77,699	\$74,828	\$51,515	\$87,462	\$72,500	\$73,949
77450	\$96,980	\$69,925	\$64,706	\$115,374	\$106,250	\$74,681
77493	\$100,800	\$89,678	\$46,638	\$121,414	\$137,500	\$72,377
77423	\$85,124	\$59,552	\$53,125	\$169,737	N/A	\$57,379

<b>Rehab Hospital - Katy PSA</b>	\$102,497	\$80,628	\$77,011	\$116,953	\$95,394	\$77,480
<b>Austin</b>	\$79,243	\$33,265	\$45,385	\$85,337	\$20,000	\$61,104
<b>Fort Bend</b>	\$99,913	\$79,456	\$110,592	\$119,646	\$120,361	\$69,539
<b>Harris</b>	\$73,122	\$46,749	\$56,041	\$82,719	\$61,586	\$51,324
<b>Waller</b>	\$77,561	\$41,063	\$52,500	\$104,861	\$54,167	\$49,435
<b>Texas</b>	\$69,353	\$49,985	\$58,487	\$95,444	\$56,881	\$51,128
<b>U.S.</b>	\$68,785	\$41,935	\$43,825	\$88,204	\$63,613	\$51,811

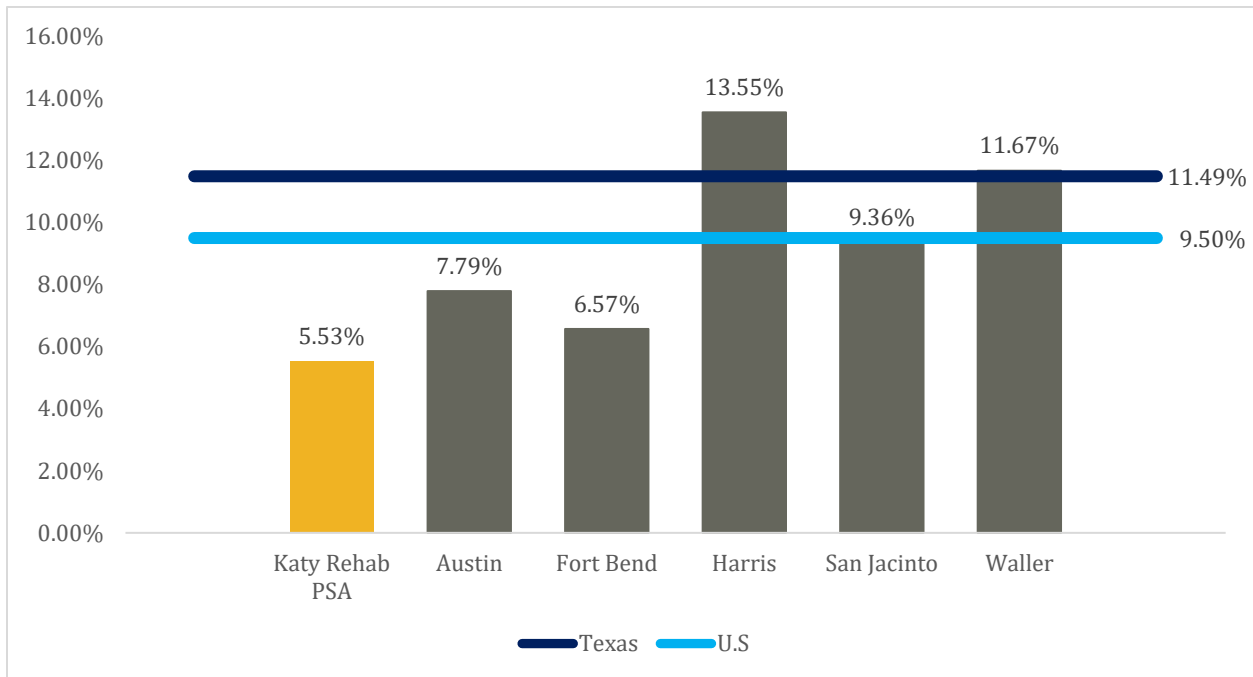
**Source:** 2021 Claritas Pop-Facts®, American Community Survey 2015-2019

## 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 12** shows the proportion of families living below the poverty level in Memorial Hermann Rehabilitation Hospital-Katy Primary Service Area compared to the associated counties, state, and the U.S. The percentage of families living below the poverty level in the Service Area is 5.53%, which is significantly lower than the national (9.5%) and state (11.5%) values. Harris County has the highest percentage of families living below poverty within the Memorial Hermann Rehabilitation Hospital-Katy Primary Service Area at 13.55%.

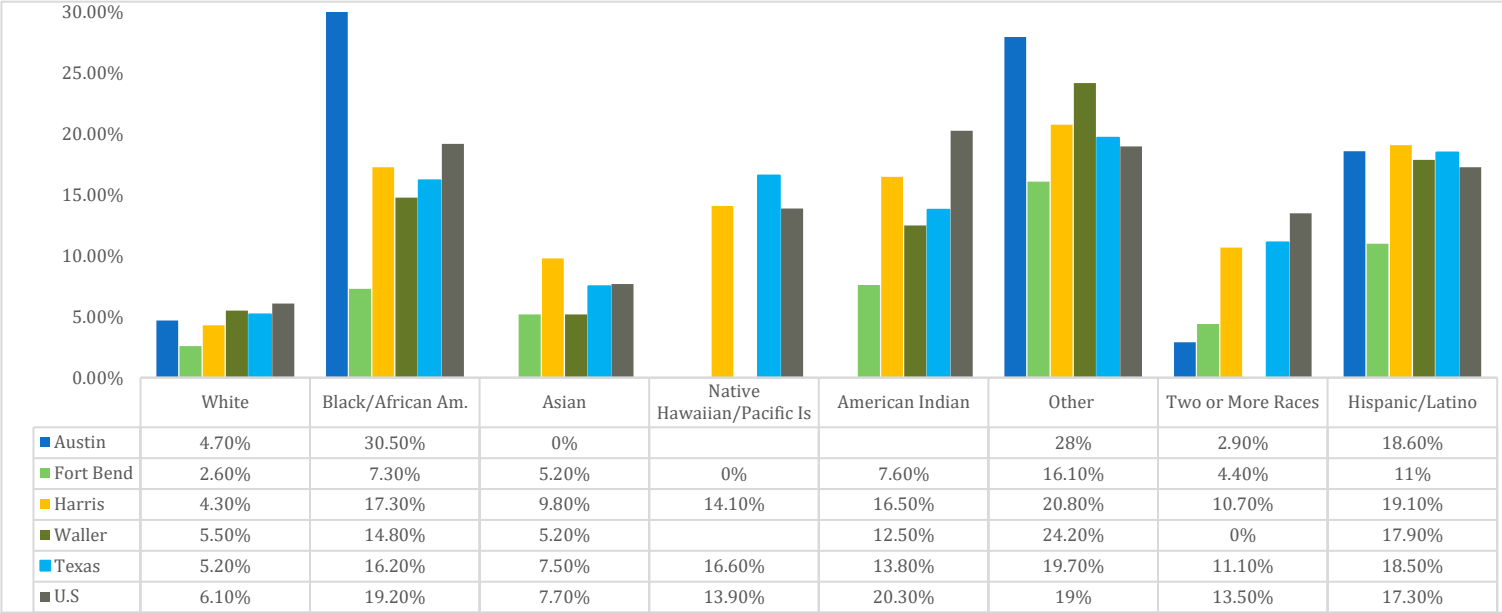
**Figure 12. Primary Service Area Families Living Below Poverty Level, Texas & U.S. Comparisons**



**Source:** 2021 Claritas Pop-Facts®, American Community Survey 2015-2019

**Figure 13** shows the proportion of residents living below the poverty level by race/ethnicity.

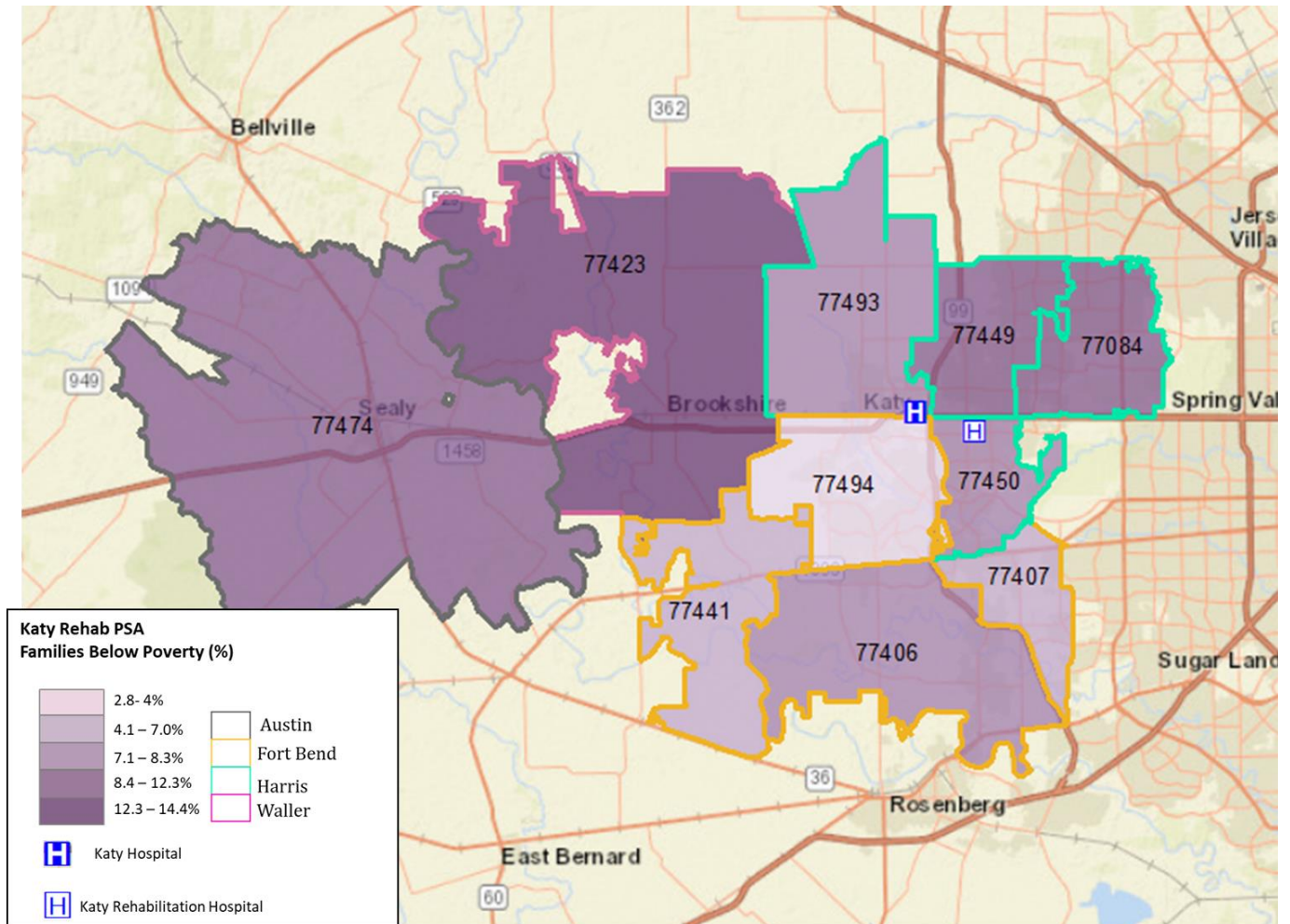
**Figure 13. Families Living Below Poverty Level by Race/Ethnicity, County, Texas, and the U.S.**



**Source:** American Community Survey 2015-2019

**Figure 14** shows families living below the poverty level by zip code in the Rehabilitation Hospital - Katy PSA. Zip codes in the darker areas represent higher percentages of poverty. **Table 9** shows zip codes with the highest poverty levels as compared to the Primary Service Area, Austin, Fort Bend, Harris, and Waller Counties, Texas, and United States.

**Figure 14. Families Living Below Poverty Level by Zip Code**



Source: 2021 Claritas Pop-Facts®, ArcGIS Maps

**Table 9. Families Living Below Poverty Level: Zip Code, Primary Service Area, County, State, and U.S. Comparisons**

<b>Location</b>	<b>Families Living Below Poverty</b>
<b>77423</b>	11.42%
<b>77084</b>	9.21%
<b>77474</b>	7.92%
<b>77449</b>	6.75%
<b>77406</b>	4.97%
<b>77493</b>	4.97%
<b>77450</b>	4.69%
<b>77407</b>	3.58%
<b>77441</b>	3.21%
<b>77494</b>	2.75%
<b>Rehab Hospital - Katy PSA</b>	5.53%
<b>Austin</b>	7.79%
<b>Fort Bend</b>	6.57%
<b>Harris</b>	13.55%
<b>Waller</b>	11.67%
<b>Texas</b>	11.49%
<b>U.S.</b>	9.50%

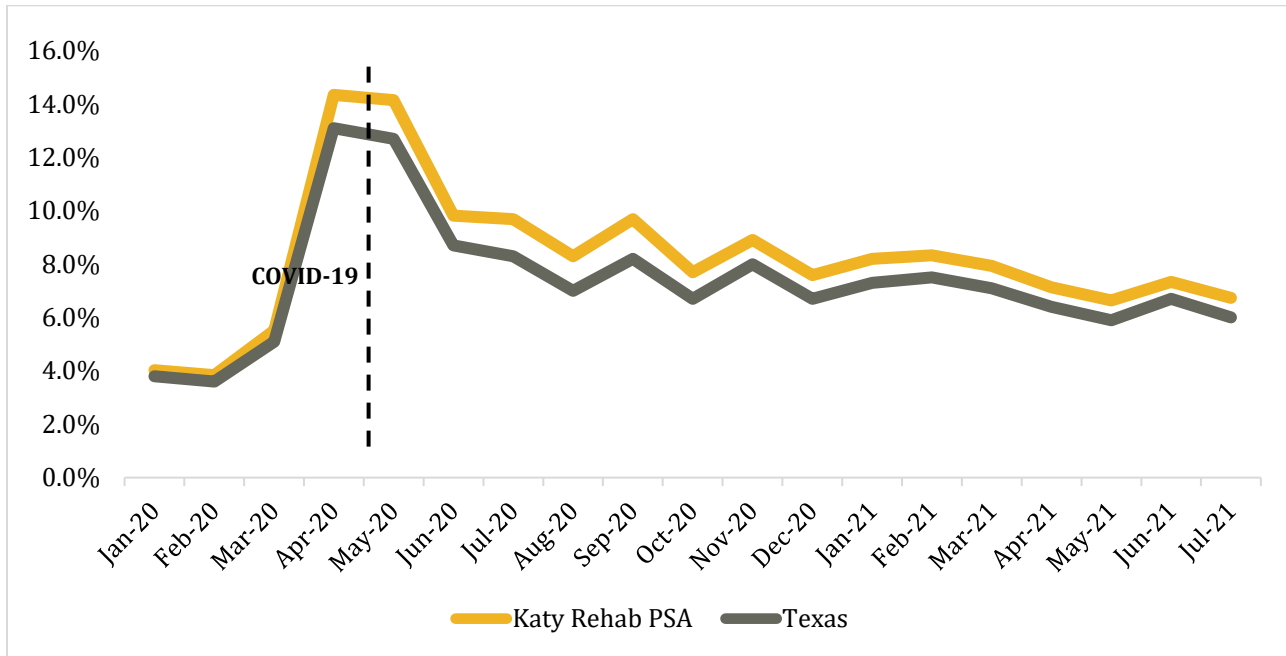
**Source:** 2021 Claritas Pop-Facts®, American Community Survey 2015-2019

## Employment

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 people qualify for unemployment benefits and may require housing and food assistance services.

**Figure 15** displays the rate of unemployment in the Rehabilitation Hospital - Katy Primary Service Area between January 2020 and July 2021. Although the unemployment rate has exhibited an increase after the start of the COVID-19 pandemic, it is decreasing towards its pre-pandemic level (3.5%). As of July 2021, the Rehabilitation Hospital - Katy Primary Service Area unemployment rate (6.7%) was higher compared to the state (6.0%) and national rates (5.3%).

**Figure 15. Primary Service Area Unemployment Rate (Population 16+)  
January 2020-July 2021**



**Source:** U.S Bureau of Labor Statistics 2021

**Table 10** shows the unemployment rates for those sixteen and older for Zip Code, Primary Service Area, County, State, and U.S values. As of July 2021, the Rehabilitation Hospital - Katy PSA was 6.7%, which was similar to Harris County but higher than Austin and Fort Bend Counties. Waller County had the highest unemployment rate (7.10%).

Underemployment can also limit access to health insurance coverage and preventive care services. Underemployment is described as involuntary part-time employment, poverty-wage employment, and insecure employment. Types of employment and working conditions can also have significant impacts on health. Work-related stress, injury, and exposure to harmful chemicals are examples of ways employment can lead to poorer health.

**Table 10. Unemployment Rate (Population 16+) July 2021: Zip Code, Primary Service Area, County, State, and U.S. Comparisons**

Location	Unemployment Rate
77407	6.16%
77084	5.88%
77449	5.49%
77423	5.42%
77450	5.33%
77494	4.97%
77493	4.45%
77441	4.43%
77406	3.56%

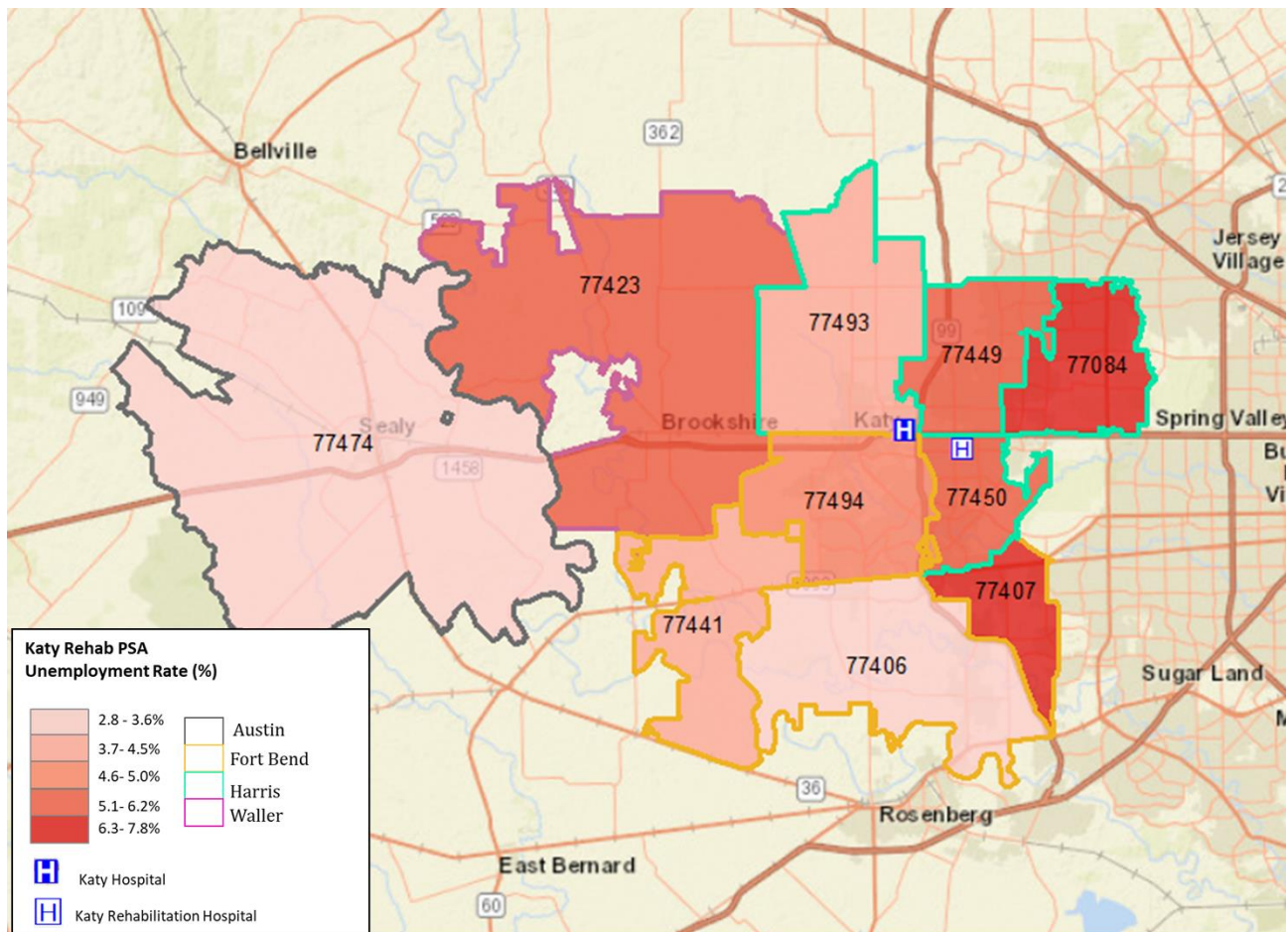


<b>77474</b>	2.73%
<b>Rehab Hospital - Katy PSA</b>	6.70%
<b>Austin</b>	5.80%
<b>Fort Bend</b>	6.40%
<b>Harris</b>	6.80%
<b>Waller</b>	7.10%
<b>Texas</b>	6.00%
<b>United States</b>	5.30%

Source: 2021 Claritas Pop-Facts®, U.S Bureau of Labor Statistics 2021

Figure 16 shows the Rehabilitation Hospital - Katy Primary Service Area map of unemployment rates for individuals sixteen and older. Zip codes 77407 and 77084 have higher rates of unemployment compared to other zip codes in the service area, followed by 77449 and 77423.

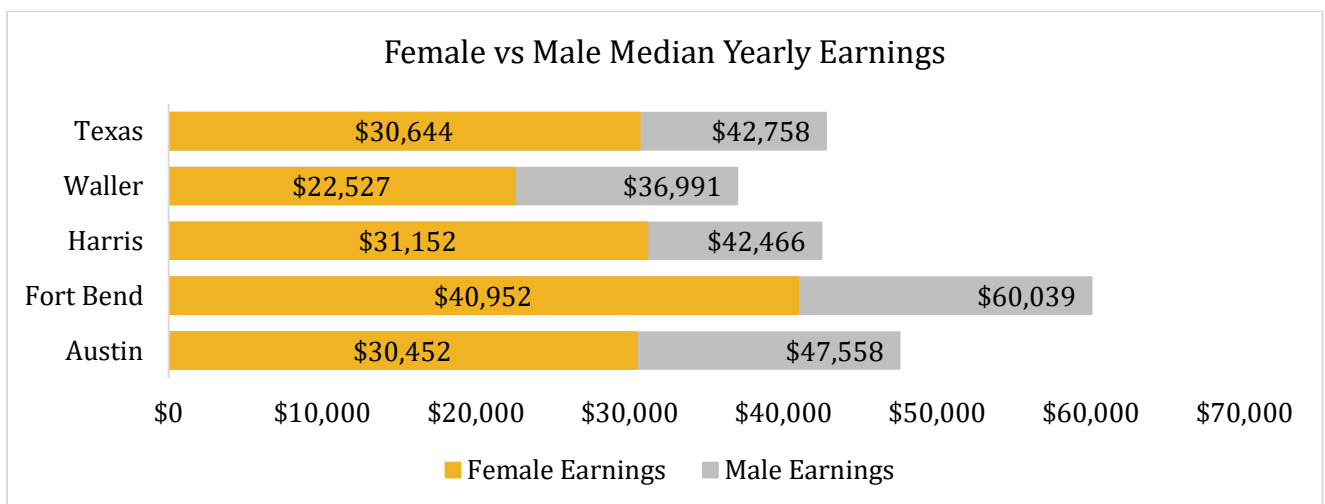
Figure 16. Rehabilitation Hospital - Katy PSA Map of Unemployment Rate (Population 16+) 2021



Source: 2021 Claritas Pop-Facts® ArcGIS Map

Disparities between men’s and women’s wages can hinder economic growth, by constricting income and spending. These disparities can heighten the risk of financial stress and inadequate savings. **Figure 17** shows working women generally make less than their male counterparts. Although Rehabilitation Hospital - Katy Primary Service Area comparisons are unavailable, all zip codes within the service area may represent similar yearly earnings to their respective counties. In the state of Texas, the median yearly earnings for females are \$30,644 compared to males at \$42,758. Waller County has the largest wage gap within the Memorial Hermann Rehabilitation Hospital-Katy Primary Service Area. Women working in Waller County earn 60.9% of their male counterparts annually. Although data is not available by race/ethnicity from this source, national trends suggest that this wage gap persists and is worsened by the race/ethnicity of women heavily affecting low-income and single-income families.

**Figure 17. Gender Wage Gap: County and State Comparisons**



**Source:** American Community Survey 2015-2019

## Education

Education is an important indicator of health and well-being across the lifespan. Education can lead to improved health by increasing health knowledge, providing better job opportunities and higher income, and improving social and psychological factors linked to health. People with higher levels of education are likely to live longer, experience better health outcomes, and practice health-promoting behaviors. **Table 11a** shows that 9.52% of individuals in the Rehabilitation Hospital - Katy PSA do not have a high school diploma compared to the state of Texas, with 16.26%.

**Table 11a. Primary Service Area Educational Attainment by Primary Service Area and State Comparisons**

<b>Educational Attainment Population Age 25+</b>	<b>Rehab Hospital - Katy PSA</b>	<b>Texas</b>
Less than 9th Grade	4.70%	8.12%
Some High School, No Diploma	4.82%	8.14%
High School Grad	19.27%	25.07%
Some College, No Degree	21.03%	21.49%
Associate Degree	7.89%	7.12%
Bachelor's Degree	27.13%	19.47%
Master's Degree	11.45%	7.65%
Professional Degree	1.75%	1.67%
Doctorate Degree	1.95%	1.17%

**Source:** 2021 Claritas Pop-Facts®

**Table 11b** shows the percentage of people ages 25 years and older who have completed at least a high school degree or higher and a bachelor's degree or higher. High school graduation rates are an important indicator of the performance of the educational system. Having a degree increases career opportunities in a variety of fields and is often a prerequisite to a higher paying job.

**Table 11b. Primary Service Area Educational Attainment by Zip Code, County, State, U.S. Comparisons**

<b>Zip Code</b>	<b>Population 25+ with a High School Degree or Higher</b>	<b>Population 25+ with a Bachelor's Degree or Higher</b>
<b>77494</b>	96.8%	61.7%
<b>77441</b>	96.2%	64%
<b>77450</b>	95%	53.3%
<b>77406</b>	94.8%	46.2%
<b>77407</b>	94%	48.4%
<b>77493</b>	89.1%	32.7%
<b>77449</b>	86%	27.5%
<b>77084</b>	83.2%	29.6%
<b>77474</b>	81.4%	19.3%
<b>77423</b>	76.8%	20.4%
<b>Austin</b>	84.00%	23.90%
<b>Fort Bend</b>	90.60%	46.20%
<b>Harris</b>	81.4%	31.5%
<b>Waller</b>	82.50%	21.10%
<b>Texas</b>	83.7%	29.9%
<b>U.S.</b>	88.0%	32.1%

**Source:** American Community Survey 2015-2019

## Housing & Transportation

Spending a high percentage of household income or rent can create financial hardship, especially for lower-income renters. Paying a high rent may not leave enough money for other expenses such as food, transportation, and medical expenses. High rent also reduces the proportion of income a household can allocate to savings each month. **Table 12** shows 51.15% of renters in the Rehabilitation Hospital - Katy PSA spending 30% or more of household income on rent. With the exception of Waller County, this is higher than all counties within the Primary Service Area, Texas (47.8%), and national percentages (49.6%).

**Table 12. Spending 30% or More on Rent: Zip Code, County, State, U.S. Comparisons**

Zip Code	Renters Spending 30% or More of Household Income on Rent
77406	54.90%
77084	53.90%
77449	51.40%
77494	44.80%
77450	43.50%
77407	43.30%
77423	43.30%
77474	36.90%
77493	35.10%
77441	16.70%
<b>Rehab Hospital - Katy PSA</b>	51.15%
<b>Austin</b>	49.30%
<b>Fort Bend</b>	48.20%
<b>Harris</b>	49.90%
<b>Waller</b>	54.20%
<b>Texas</b>	47.80%
<b>U.S.</b>	49.60%

**Source:** American Community Survey 2015-2019

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 benefits of daily exercise.

**Table 13** displays the different modes of commuting used by residents of Memorial Hermann Rehabilitation Hospital - Katy Primary Service Area. In the PSA, 0.50% of residents commute by walking and 0.06% commute by biking. The majority of residents (80.81%) commute by driving alone, which is similar to the state value (80.5%). Public transportation is used by 1.72% of Rehabilitation Hospital - Katy PSA residents, with Harris County as the county with the largest usage at 2.49%.

Memorial Hermann Rehabilitation Hospital – Katy’s Primary Service Area zip codes 77441 and 77494 have the highest proportions of residents commuting by public transportation (2.65% and 3.03%, respectively).

**Table 13. Modes of Transportation: Zip Code, Primary Service Area, County, and State Comparisons**

Location	Commute by Public Transportation	Commute by Walking	Commute by Biking	Commute by Driving Alone
77474	0.10%	1.25%	0.01%	84.25%
77406	0.80%	0.19%	0.01%	80.53%
77407	1.25%	0.00%	0.00%	80.77%
77441	2.65%	0.72%	0.00%	73.40%
77494	3.03%	0.41%	0.09%	78.46%
77084	1.67%	1.29%	0.08%	81.02%
77449	1.22%	0.27%	0.05%	83.14%
77450	2.21%	0.29%	0.12%	80.56%
77493	0.99%	0.36%	0.03%	82.06%
77423	1.12%	0.80%	0.25%	80.84%
<b>Rehab Hospital - Katy PSA</b>	1.72%	0.50%	0.06%	80.81%
<b>Austin</b>	0.06%	2.11%	0.00%	83.77%
<b>Fort Bend</b>	1.51%	0.48%	0.06%	81.10%
<b>Harris</b>	2.49%	1.24%	0.25%	80.11%
<b>Waller</b>	0.69%	3.31%	0.17%	79.59%
<b>Texas</b>	1.50%	1.60%	0.30%	80.50%

Source: 2021 Claritas Pop-Facts®, American Community Survey 2015-2019

## Disparities

### Geographic Disparities

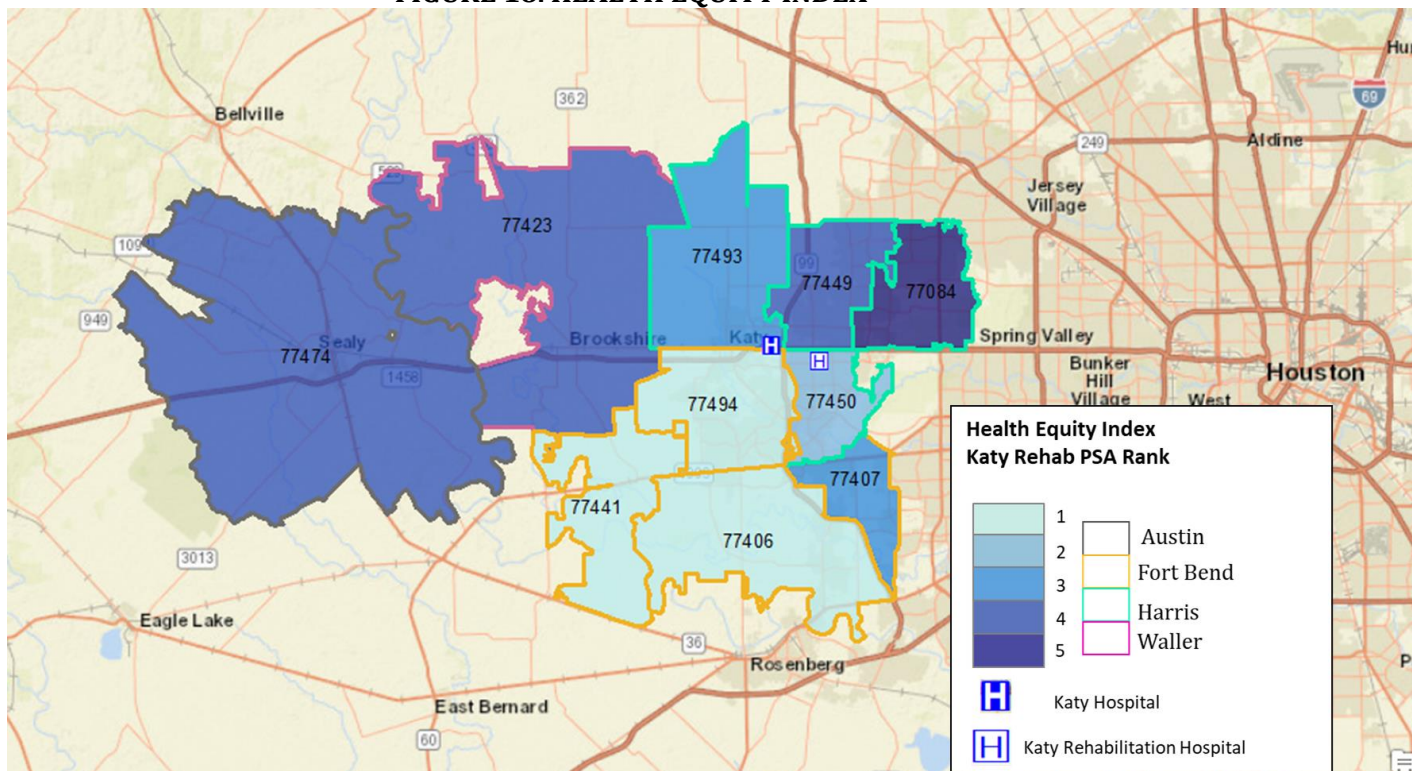
Conduent Healthy Communities Institute developed the Health Equity Index (formerly SocioNeeds Index®) and the Food Insecurity Index (FII) to easily identify areas of higher socioeconomic need. County-level data can sometimes mask what might be going on at the zip code level in many communities. While county-level indicators may be strong, using these indices in combination with county-level data can reveal disparities and ensure that efforts are directed to the communities with the highest need.

### Health Equity Index

The Health Equity Index incorporates estimates for six different social and economic determinants of health that are associated with poor health outcomes. The data, which cover income, poverty, unemployment, occupation, educational attainment, and linguistic barriers, are then standardized,

and averaged to create one composite index value for every zip code in the United States with a population of at least 200. Zip codes have index values ranging from 0 to 100, where higher values are estimated to have the highest socioeconomic need and are correlated with poor health outcomes including preventable hospitalizations and premature death. Within the Memorial Hermann Rehabilitation Hospital-Katy Primary Service Area, zip codes are ranked based on their index value to identify the relative levels of need, as illustrated by the map in **Figure 18**. The following zip codes had the highest level of socioeconomic need that is correlated with poor health outcomes (as indicated by the darkest shades): 77084, 77423, 77474, and 77449.

**FIGURE 18. HEALTH EQUITY INDEX**



**SOURCE:** CONDUENT SOCIONEEDS INDEX SUITE: HEALTH EQUITY INDEX MAP

**Table 14** provides the index values for each zip code in the Memorial Hermann Rehabilitation Hospital - Katy Primary Service Area. Understanding where there are communities with high socioeconomic needs, and associated poor health outcome, is critical to targeting prevention and outreach activities.

**TABLE 14. HEALTH EQUITY INDEX VALUES BY ZIP CODE FOR  
MEMORIAL HERMANN REHABILITATION HOSPITAL - KATY PRIMARY SERVICE AREA**

<b>Zip Code</b>	<b>HEI Value</b>	<b>Rank</b>
77084	81.2	5
77423	64.7	4
77474	54.7	4
77449	54.5	4
77493	22.2	3
77407	19.1	3
77450	12.7	2
77406	6.7	1
77494	3.7	1
77441	1.7	1

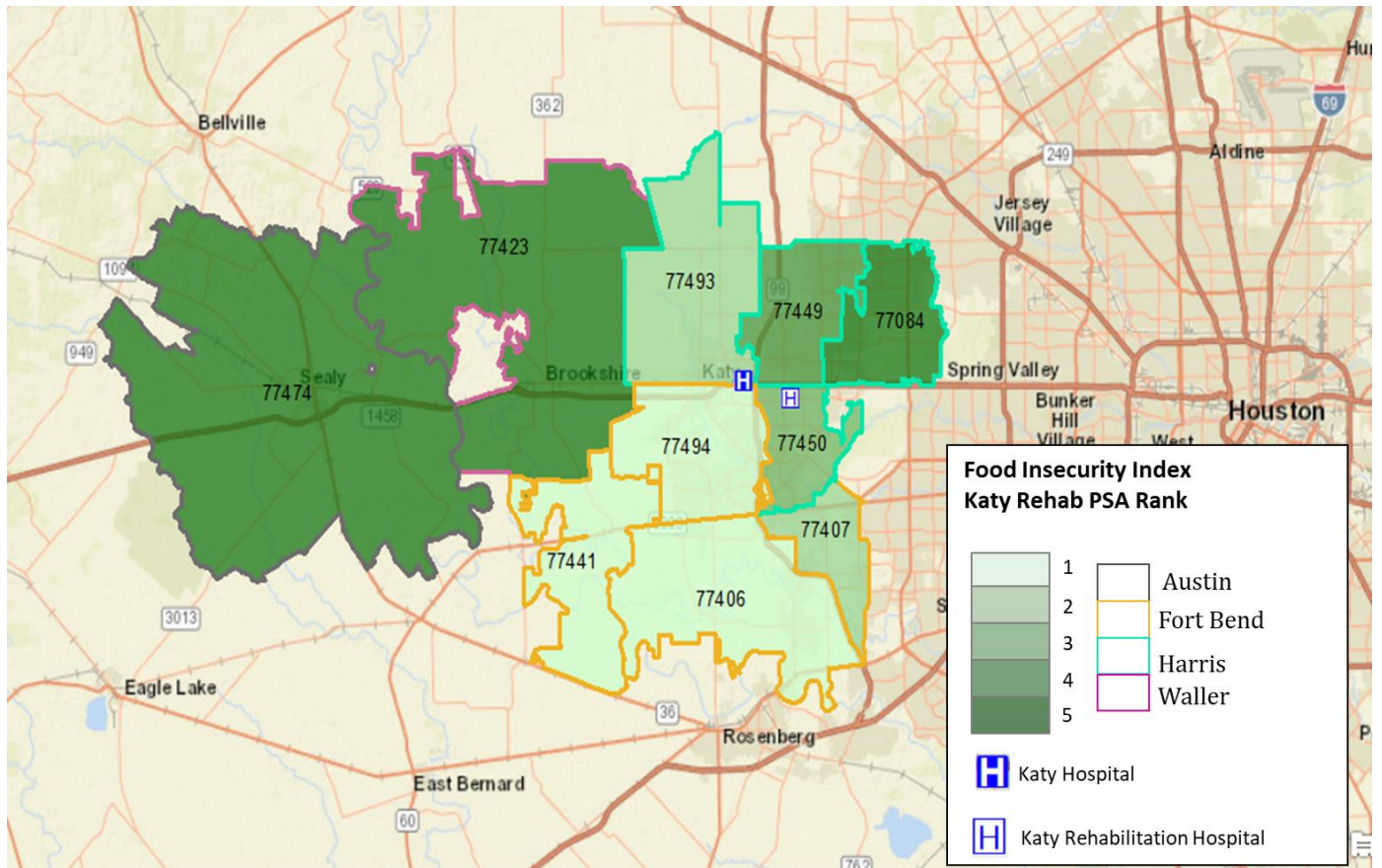
### **Food Insecurity Index**

The Food Insecurity Index (FII) is a measure of food accessibility that is correlated with social and economic hardship and eligible persons for the Supplemental Nutrition Assistance Program (SNAP). This index combines multiple socioeconomic and health indicators into a single composite value. These indicators are from the following topic areas: Medicaid insurance enrollment, perceived health status, household expenditures, household income, and single parent headed households.

All zip codes, census tracts, and counties in the United States are given an index value from 0 (low need) to 100 (high need). To help find the areas of highest need in the Memorial Hermann Rehabilitation Hospital - Katy Primary Service Area, locales were ranked from 1 to 5 based on their index value.

**Figure 19** shows Memorial Hermann Rehabilitation Hospital-Katy Primary Service Area zip codes based on their index value to identify which areas are of the highest need. The following zip codes have the highest level of food insecurity that is correlated with poor health outcomes (as indicated by the darkest shades): 77084, 77474, and 77423.

**FIGURE 19. FOOD INSECURITY INDEX**



**SOURCE:** CONDUENT SOCIONEEDS INDEX SUITE: FOOD INSECURITY MAP



**Table 15** provides the Food Insecurity index values for each zip code in the Memorial Hermann Rehabilitation Hospital - Katy Primary Service Area. The index can serve as a concise way to identify individual communities experiencing food insecurity.

**TABLE 15. FOOD INSECURITY INDEX VALUES BY ZIP CODE**

ZIP CODE	FOOD INSECURITY VALUE	RANK
77084	55.6	5
77474	54.7	5
77423	54.0	5
77449	49.7	4
77450	21.6	3
77407	21.0	2
77493	20.9	2
77494	7.2	1
77406	7.1	1
77441	2.4	1

## Race & Ethnic Disparities

Identifying disparities by race/ethnicity helps to inform and focus priorities and strategies. Understanding disparities also helps us better understand root causes that impact health in a community and inform action towards health equity. Health equity focuses on the fair distribution of health determinants, outcomes, and resources across communities.<sup>1</sup> National trends have shown that systemic racism, poverty, and gender discrimination have led to poorer health outcomes for groups such as Black/African American, Indigenous, or People of Color, individuals living below the poverty level, and LGBTQ+ communities.

Community health disparities were assessed in the data collection process. The indicators listed in **Table 16** show a statistically significant difference in race and ethnicity according to the Index of Disparity analysis. Secondary data reveal that different racial and ethnic groups are negatively impacted by many health and socio-economic indicators. These important gaps in data should be recognized and considered for implementation planning to mitigate the disparities often faced by age groups, gender, race, or ethnicity. See Appendix A for specific health indicators.

**Table 16. Indicators with Significant Race/Ethnic Disparities**

Health and Socio-Economic Indicators	Group Negatively Impacted (highest rates)
<b>High School Drop Out Rate</b>	American Indian/Alaska Native, Pacific Islander, Black/African American, Hispanic
<b>Lung and Bronchus Cancer Incidence Rate</b>	Black/African American, White, Asian/Pacific Islander
<b>Age-Adjusted Death Rate Due to Lung Cancer</b>	Black/African American, White, Asian/Pacific Islander
<b>Workers Commuting by Public Transportation</b>	Native Hawaiian/Pacific Islander, Black/African American
<b>Age-adjusted Death Rate due to Prostate Cancer</b>	Black/African American, White, Hispanic
<b>Babies with Very Low Birth Weight</b>	Black/African American

<sup>1</sup> Klein R, Huang D. Defining and measuring disparities, inequities, and inequalities in the Healthy People initiative. National Center for Health Statistics. Center for Disease Control and Prevention. [https://www.cdc.gov/nchs/ppt/nchs2010/41\\_klein.pdf](https://www.cdc.gov/nchs/ppt/nchs2010/41_klein.pdf)

<b>People 65+ Living Below Poverty Level</b>	Other Race, American Indian/Alaska Native, Hispanic
<b>Infants Born to Mothers with &lt;12 years of Education</b>	Hispanic, Black/African American, Other Race
<b>Teen births</b>	Hispanic, Black/African American
<b>Workers Who Walk to Work</b>	American Indian/Alaska Native, Multi-Race, Other

**Future Considerations**

While identifying barriers and disparities are critical components in assessing the needs of a community, it is equally important to understand the social determinants of health and other upstream factors that influence a community’s health as well. The challenges and barriers faced by a community must be balanced by identifying practical, community-driven solutions. Together, these factors inform and focus strategies to positively impact a community’s health. The following sections outline opportunities for guiding ongoing work as well as the potential to impact the identified community health needs.

## Primary and Secondary Methodology

### Overview

Two types of data were used in this assessment: primary and secondary data. Primary data were obtained through a community health survey and key informant interviews. Secondary data are health indicators that have already been collected by public sources such as government health departments. Each type of data was analyzed using a unique methodology. Findings from each data source were categorized by health topics and then synthesized for a comprehensive overview of the health needs in Memorial Hermann Rehabilitation Hospital-Katy Primary Service Area.

### Secondary Data Sources & Analysis

Secondary data used for this assessment were collected and analyzed from Healthy Communities Institute's community indicator database. The database, maintained by researchers and analysts at HCI, includes over 200 community indicators covering at least 28 topics in the areas of health, determinants of health, and quality of life. The data are primarily derived from state and national public secondary data sources. The value for each of these indicators is compared to other communities, nationally set targets, and to previous time periods.

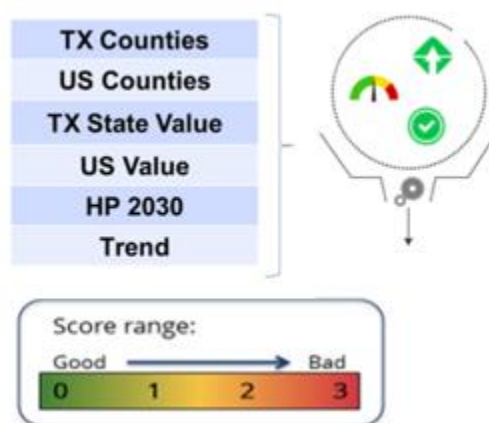
### Secondary Data Scoring

HCI's Data Scoring Tool® was used to systematically summarize multiple comparisons to rank indicators based on the highest need. For each indicator, the county values were compared to a distribution of Texas and US counties, state and national values, Healthy People 2030 targets, and significant trends. Each indicator was then given a score based on the available comparisons. These comparison scores range from 0 to 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 from other communities, and changes in methodology over time. The comparison scores were summarized for each indicator, and the indicators were grouped into topic areas for a higher-level ranking of community health needs. Health topic areas with fewer than three indicators were considered a data gap. Data gaps were specifically assessed and factored into primary data methods to ensure that, where the secondary data fell short, primary data could provide a more accurate picture of a particular health topic area.

To standardize efforts across the Memorial Hermann Health System and increase the potential for impacting top health needs in the greater Houston region, secondary data scoring was assessed and prioritized at a regional/system level. The system-level consists of the 12 counties comprising most Memorial Hermann discharges (Austin, Brazoria, Chambers, Fort Bend, Galveston, Harris, Liberty, Montgomery, San Jacinto, Walker, Waller, and Wharton). **Table 17** shows the health topic scoring results. Health Care Access and Quality was the poorest performing topic area followed by Heart

#### Data scoring stages



Disease & Stroke and Wellness & Lifestyle. Topics that received a score of 1.50 or higher were considered to be a significant health need. Six health topics scored at or above the threshold.

Please see Appendix A for further details on the qualitative data scoring methodology as well as secondary data scoring results.

**Table 17. Secondary Data Scoring for the Memorial Hermann 12-County Region**

<b>Health Topics</b>	<b>12 County Region Score</b>
Health Care Access & Quality	1.71
Heart Disease & Stroke	1.62
Wellness & Lifestyle	1.57
Older Adults	1.57
Oral Health	1.54
Physical Activity	1.51
Children's Health	1.49
Mental Health & Mental Disorders	1.48
Diabetes	1.45
Women's Health	1.42
Maternal, Fetal & Infant Health	1.40
Other Conditions	1.37
Cancer	1.34
Alcohol & Drug Use	1.32
Sexually Transmitted Infections	1.30
Prevention & Safety	1.21
Immunizations & Infectious Diseases	1.18
Respiratory Diseases	1.16

## Primary Data Collection & Analysis

HCI collected community input through primary sources to expand upon the secondary data analysis. Primary data used in this assessment consisted of key informant interviews and a community survey.

When appropriate, primary data collection methods were conducted in a way to maintain social distancing and protect the safety of participants by emphasizing virtual data collection. In-person data collection was applied only where necessary.

As a critical aspect of the primary data collection, community participants were asked to share and describe resources available in the community. Although not reflective of every resource available in the community, the collected list can help Memorial Hermann Health System continue to build partnerships that may support existing programs and resources. This resource list is available in Appendix C.

### Key Informant Interviews

Key informant interviews (KIIs) were conducted with leaders and staff from organizations that provide services directly to the community and officials that represent governmental and non-governmental entities. Interviewees invited to participate were recognized as having expertise in public health, special knowledge of community health needs, representing the broad interests of the community served by the hospital, and/or being able to speak to the needs of medically underserved or vulnerable populations.

Forty-seven individuals agreed to participate as key informants. **Table 18** lists the represented organizations that participated in the interviews.

**Table 18. Key Informant Organizations**

- AccessHealth
- Alvin City
- Alvin ISD Board of Trustees
- Avenue CDC
- Baker Ripley
- Catholic Charities - Archdiocese of Galveston
- Child Advocates of Fort Bend
- Children at Risk
- Colorado County - Indigent Health Care
- Department of State Health Services
- East Fort Bend Human Needs Ministry
- El Centro de Corazon
- Episcopal Health Foundation
- Fort Bend County Health and Human Services
- Fort Bend County Sheriff's Office
- Healthcare for the Homeless - Houston
- Houston Galveston Institute (HGI)
- Houston Health Department
- Houston Housing Authority
- Interfaith Community Clinic
- Kinder Institute for Urban Research
- Legacy Community Health
- Liberty County Sheriff's Office
- LoneStar Family Health Center
- Montgomery County Food Bank
- Patient Care Intervention Center (PCIC)
- Pearland ISD School Board
- Prairie View A&M - College of Nursing
- Santa Maria Hostel, Inc.
- Texas House of Representatives - District 29

- Fort Bend Regional Council on Substance Abuse
- Fort Bend Seniors
- Fort Bend Women's Center
- Galveston County Health District
- Greater Houston Partnership
- Harris County Public Health
- Health Center of Southeast Texas - Shepherd (San Jacinto County)
- Health Centers for Schools
- The Harris Center for Mental Health and IDD (MHMRA)
- The Meadows Mental Health Policy Institute
- The Rose
- TOMAGWA
- Tri-County Services Behavioral Healthcare
- United Way of Brazoria County
- United Way of Greater Houston
- United Way of Greater Houston - Montgomery County Center
- Waller County Judge's Office

The forty-seven KIIs took place between October 25, 2021, and February 11, 2022. Each of the 47 interviews was conducted via web conference. The questions focused on the interviewee's background and organization, the biggest perceived health needs, and barriers of concern in the community, and the impact of health issues on the populations they serve. A list of the questions asked in the key informant interviews can be found in Appendix C.

## Key Informant Analysis Results

Transcripts captured during the key informant interviews were uploaded to the web-based qualitative data analysis tool, Dedoose<sup>2</sup>. Interview excerpts were coded by relevant topic areas and key health themes. The approach used to assess the relative importance of the needs discussed in the interviews included the frequency by which a topic was described by the key informant as a barrier or challenge and the frequency by which a topic was mentioned per interviewee. The following top themes emerged from the analysis of the transcripts:

### KEY INFORMANT THEMES

Top Health Concerns/Issues	Social Determinants of Health	Impacted Populations
<b>Inequitable access to health care</b> is largely due to the Texas State legislature's decision not to expand Medicaid	Food Insecurity Housing Lack of or Limited Insurance Transportation	Immigrant/Refugee Children Black/African American Latino/Hispanic
<b>Mental Health &amp; Mental Disorders:</b> access to affordable care, limited inpatient psychiatric beds/providers/counselors, police intervention is not always positive (not trained in crisis intervention)	Built Environment Employment Homelessness Immunizations	Low-Income, those living in Poverty Women Homeless
<b>Substance Use Disorder:</b> limited treatment options, underfunding of services, and lack of provider capacity		

<sup>2</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)

## Community Survey

Input from community residents was collected through an online survey. The survey consisted of 12 questions related to top health needs in the community, individuals' perception of their overall health, individuals' access to health care services, as well as demographic, social, and economic determinants of health. Conduent HCI built the online survey tool in Survey Monkey<sup>3</sup> and paper surveys were developed to mirror the online version. Online survey distribution included email outreach and social media posts. Both online and paper formats of the surveys were made available in English and Spanish. The community survey tool is included in Appendix B.

The community survey was promoted by all Memorial Hermann Health System Facilities and select community partners across the 12 counties that compose the health system's overall Primary Service Area from November 17, 2021, to January 28, 2022. A total of 1,056 responses were collected. The data in this section represents the overall survey responses.

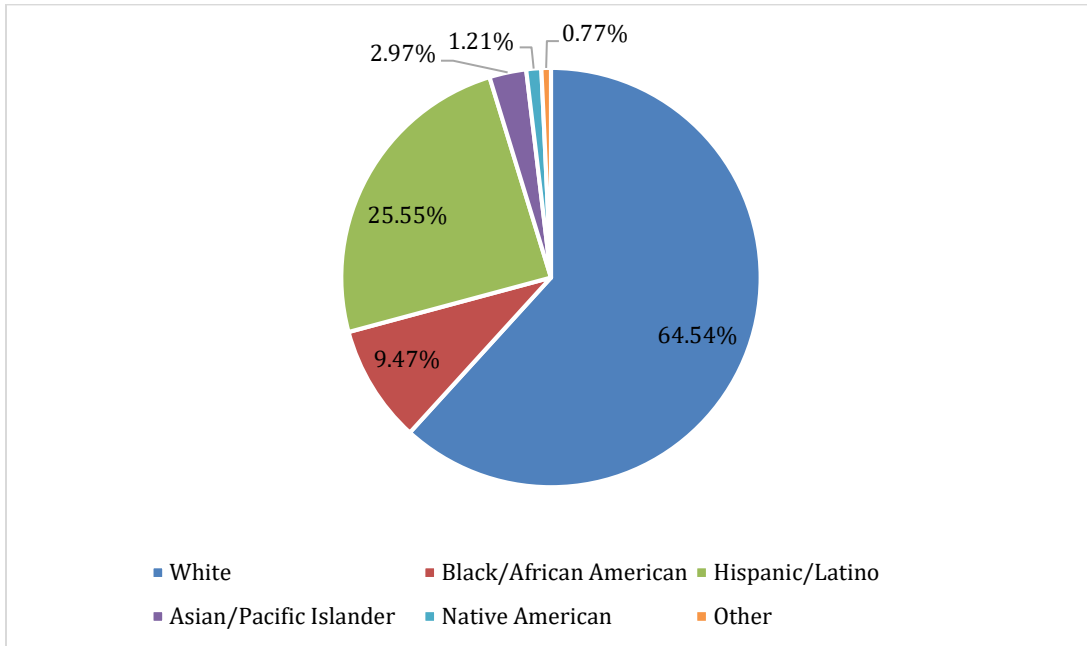
### Community Survey Analysis Results

The community survey response is a convenience sample and therefore the demographics of the community survey respondents are not an exact representation of the demographics of the population in the Memorial Hermann Primary Service Area. To adjust for this discrepancy, results were filtered by demographic variables – race, ethnicity, age, and geography – where possible. Any notable variations were included in the analysis process. For the purposes of this CHNA, the survey data that follows is based on an analysis of responses from community members residing in the Houston area, unless otherwise noted.

Surveys were completed in English and Spanish. There were 953 respondents who completed the survey in English and 103 completed in Spanish. **Figure 20** shows the race/ethnicity make-up of survey respondents. The largest proportion of respondents identified as White at 64.54%, followed by 25.55% as Hispanic or Latino, 9.47% as Black/African American, 2.97% as Asian/Pacific Islander, 1.21% as Native American, and 0.77% identified as Other (Mixed, Multi-racial).

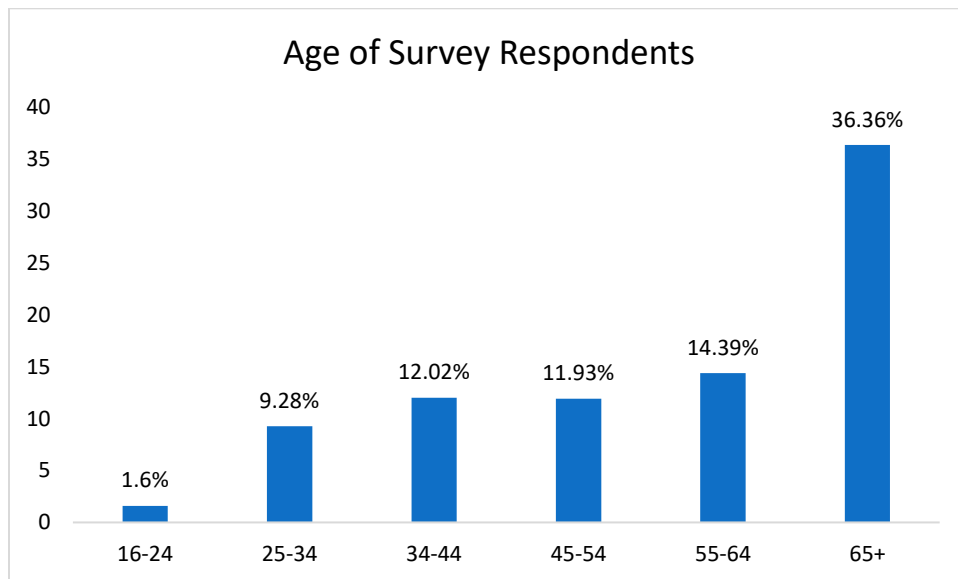


**Figure 20. Community Survey Race & Ethnicity**



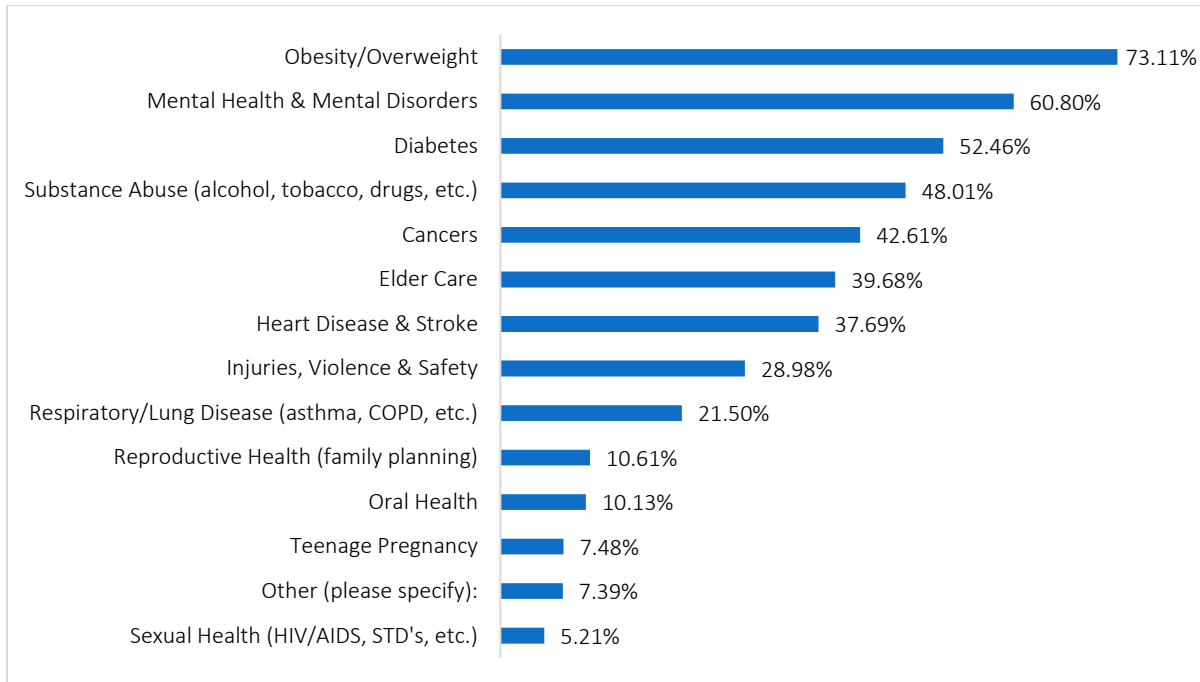
Survey respondents were asked their age. The largest age group ranged from 65 years and older, followed by 55-64 years (**Figure 21**).

**Figure 21. Community Survey Age Ranges**



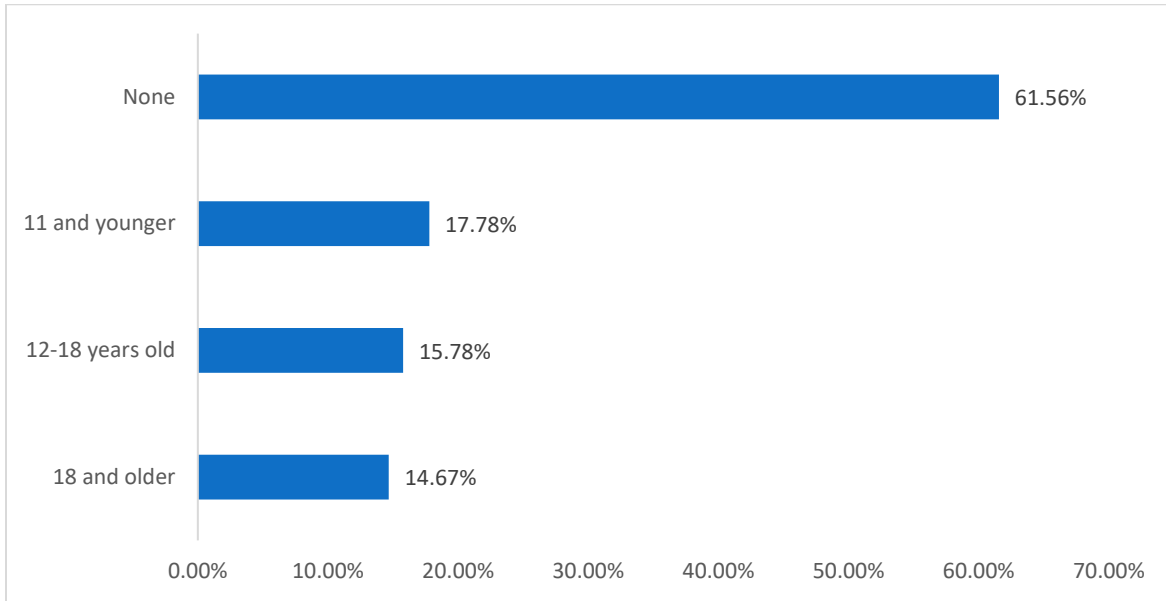
Survey respondents were asked to select the top issues most affecting the community’s quality of life. As shown in **Figure 22**, the majority of respondents identified Obesity/Overweight (73.11%), Mental Health and Mental Disorders (60.80%), Diabetes (52.46%), Substance Abuse (alcohol, tobacco, drugs, etc.) (48.01%), and Cancers (42.61%). The survey included questions on the impact COVID-19 has had on the respondents and their community. Feedback on the impact of COVID-19 on the community is included in the *Covid-19 Impact Snapshot* of this report.

**Figure 22. Issues Most Affecting Quality of Life**



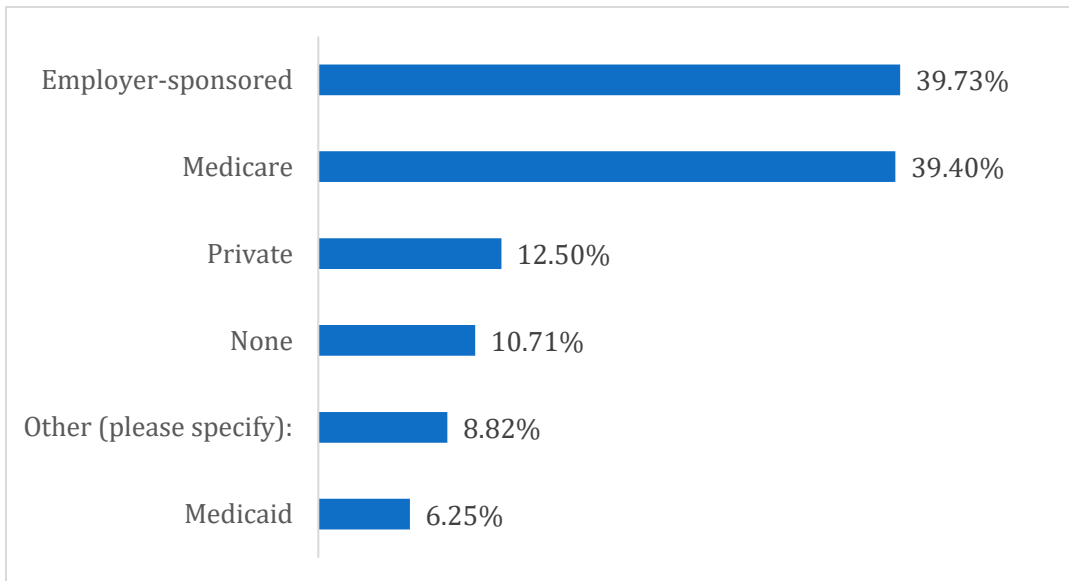
Survey respondents were asked about the ages of children living in the household. 61.56% of respondents indicated there were no children in the household, whereas 17.78% indicated 11 years and younger, 15.78% of respondents responded 12-18 years old, and 14.67%, 18 and older (**Figure 23**).

**Figure 23. Ages of Children in Home**



Survey respondents were asked about their medical insurance or coverage. As shown in **Figure 24**, 39.73% indicated Employer-sponsored, 39.40% Medicare, 12.50% Private Insurance, 10.71% None, 8.82% Other, and 6.25% Medicaid.

**Figure 24. Type of Insurance/Coverage**



## Data Considerations

Conduent HCI and Memorial Hermann Health System made substantial efforts to comprehensively collect and analyze CHNA data. However, several limitations of the 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, within each topic, there is a varying scope and depth of secondary data indicators and primary data findings.

### Secondary Data

Regarding the secondary data, some health topic areas have a robust set of indicators, but for others, there may be a limited number of indicators for which data is available. Population health and demographic data are often delayed in their release, so data is presented for the most recent years available for any given data source. There is also variability in the geographic level at which data sets are available, ranging from census tract or zip code to statewide or national geographies. Whenever possible, the most relevant localized data is reported. Due to variations in geographic boundaries, population sizes, and data collection techniques for different locations (hospital Primary Service Areas, zip codes, and counties), some datasets are not available for the same time spans or at the same level of localization. The Index of Disparity<sup>4</sup>, used to analyze the secondary data, is also limited by data availability. In some instances, there are no subpopulation data for some indicators, and for others, there are only values for a select number of race/ethnic groups. Finally, persistent gaps in data systems exist for certain community health issues.

### Primary Data

For the primary data, the breadth of findings is dependent upon who was identified and agreed to be a key informant. Additionally, the community survey was a convenient sample, which means results may be vulnerable to selection bias and make the findings less generalizable. A limitation of the survey is that it was conducted in only two languages, English and Spanish.

For all data, efforts were made to include a wide range of secondary data indicators and community member expertise areas. Memorial Hermann Health System is committed to investigating strategies for addressing data system gaps for future assessment and implementation processes.

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<sup>4</sup> Percy, J. & Keppel, K. (2002). A Summary Measure of Health Disparity. Public Health Reports, 117, 273-280.

## Data Synthesis and Prioritization

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 across all Primary Service Areas were compared and considered together. The secondary data, key informant interviews, and community survey were treated as three separate sources of data.

The top health needs identified from data sources were analyzed for areas of overlap. Primary data from the community survey, and key informant data as well as secondary data findings identified 15 areas of greater need.

**Table 19** displays the results of this synthesis. For many of the health topics evidence of need was present across multiple data sources, including mental health, access to healthcare, diabetes, older adults, heart disease and stroke, physical activity, children's health, obesity/overweight, and substance abuse. For other health topics, the evidence was present in just one source of data which may be reflective of the strengths and limitations of each type of data that was considered in this process.

**Table 19. Data Synthesis Results**

<b>Health/Quality of Life Category</b>	<b>Data Source(s)</b>
<b>Mental Health and Mental Disorders</b>	Secondary Data, Community Survey, Key Informant Interviews
<b>Access to Healthcare</b>	Secondary Data, Community Survey, Key Informant Interviews
<b>Diabetes</b>	Secondary Data, Community Survey, Key Informant Interviews
<b>Older Adults/Elderly care</b>	Secondary Data, Community Survey, Key Informant Interviews
<b>Heart Disease &amp; Stroke</b>	Secondary Data, Community Survey
<b>Physical Activity</b>	Secondary Data, Key Informant Interviews
<b>Children's Health</b>	Secondary Data, Key Informant Interviews
<b>Obesity/Overweight</b>	Community survey, Key Informant Interviews
<b>Substance Abuse (alcohol, tobacco, drugs)</b>	Secondary Data, Key Informant Interviews
Wellness & Lifestyle	Secondary Data
Oral Health	Secondary Data
Women's Health	Secondary Data
Cancers	Survey
Injuries, Violence & Safety	Survey
Respiratory/Lung Disease (asthma, COPD, etc.)	Survey

## Prioritization

To prioritize significant health needs and to better target activities to address the most pressing health needs in the community, Memorial Hermann convened a group of hospital leaders who participated in an online webinar session. One session was scheduled for March 8, 2022, and a second session on March 10, 2022. Each session consisted of an overview of data results and synthesis.

## Process

In February 2021, over 100 hospital leaders were invited to an online session to prioritize the key health needs for the 2022-2025 CHNA. On March 8<sup>th</sup> and 10<sup>th</sup>, eighty participants reviewed and discussed the results of HCI's primary and secondary data analyses leading to the preliminary significant health needs. (These health needs are discussed in detail in the key health needs portion of this report.) Following the session, participants were given three days to access an online link to score each of the significant health needs by how well they met the criteria set forth by HCI and the Memorial Hermann Health System. Forty-eight participants submitted feedback. Of the forty-eight, some submissions represented multiple hospital leadership feedback.

The criteria for prioritization included:

- Ability to Impact: the perceived likelihood of positive impact on each health issue
- Scope & Severity: their gauge on the magnitude of each health issue

The group also agreed that root causes, disparities, and social determinants of health should be considered for all prioritized health topics resulting from prioritization.

Participants scored each health area against each criterion on a scale from 1 to 3 with 1 meaning it did not meet the given criterion, 2 meaning it met the criterion, and 3 meaning it strongly met the criterion. In addition to considering the data presented by HCI in the presentation and on the health topic note sheet, participants were encouraged to use their judgment and knowledge of the community in considering how well a health topic met the criteria.

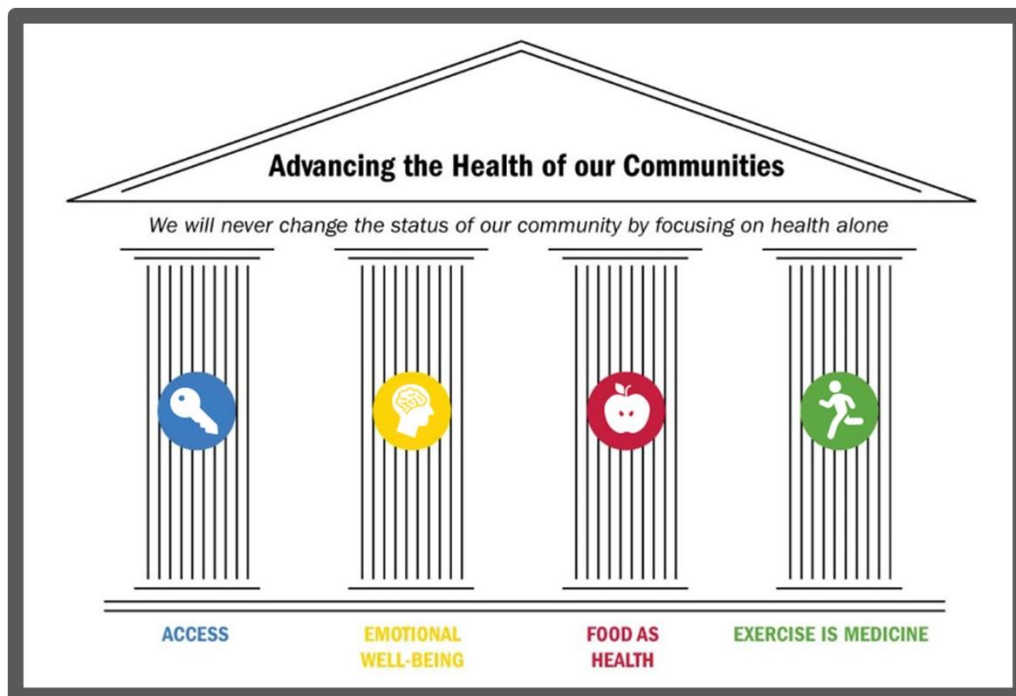
Completion of the online exercise resulted in a numerical score for each health need that correlated with how well that need met the criteria for prioritization. HCI downloaded the online results, calculated the scores, and then ranked the significant health needs according to their topic scores. The highest scoring health needs received the highest priority ranking. Results were shared with the Memorial Hermann Community Benefit team and approval was received for the ranked health needs. **Table 20** are the results of prioritization combined scores from both criteria, Ability to Impact and Scope and Severity. Fifteen health topics were considered.

**Table 20. Ability to Impact & Scope & Severity Results**

Diabetes	58.33 %
Heart Disease & Stroke	55.21 %
Obesity/Overweight	50.00 %
Mental Health and Mental Disorders	50.00 %
Access to Healthcare	40.63 %
Older Adults/Elderly care	38.55 %
Women’s Health	38.54 %
Cancers	34.38 %
Children’s Health	28.13 %
Respiratory/Lung Disease (asthma, COPD, etc.)	26.04 %
Wellness & Lifestyle	21.88 %
Substance abuse (alcohol, tobacco, drugs, etc.)	20.84 %
Injuries, Violence & Safety	19.79 %
Physical Activity	16.67 %
Oral Health	1.04 %

These health topics are aligned with Memorial Hermann’s strategic focus areas, the four pillars which are illustrated in **Figure 25**. Each of the intersecting pillars connect through various points in Memorial Hermann programs and initiatives advancing the health of the community. Memorial Hermann Community Benefit team took both the results and strategic focus areas into consideration to determine final health priorities as presented in **Table 21**.

**Figure 25. Memorial Hermann Health System Four Pillars for Community Health**



**Table 21. 2022-2025 Prioritized Health Needs**

Pillars	Memorial Hermann Health System (MHHS) Prioritized Health Needs
<b>Access:</b>	Addressing Access to Healthcare
<b>Emotional Well-Being:</b>	Addressing Mental Health and Mental Disorders
<b>Food as Health:</b>	Addressing Diabetes, Heart Disease & Stroke, Obesity/Overweight
<b>Exercise is Medicine:</b>	Addressing Diabetes, Heart Disease & Stroke, Obesity/Overweight

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



## Prioritized Significant Health Needs

The following section provides a deeper look into each of the community health needs to understand how findings from secondary and primary data led to the health topic becoming a significant need. Secondary data scoring is presented at the Memorial Hermann System (MHHS) level. The five health needs are presented in rank order.

### Pillar: Access

#### Prioritized Health Topic #1: Access to Care

## Access to Care

Secondary Data Score: **1.71** MHHS



### Key Themes from Community Input



- Low health literacy, language, transportation barriers
- Lack of knowledge regarding programs, services
- Difficulty navigating the healthcare system
- Deep inequalities in access to/quality of health services
- What kind of medical insurance/coverage do you have? (5.48% none)
- In the past 12 months, I had a problem getting the health care I needed for me/for a family member from any type of health care provider, dentist, pharmacy, or other facility. (20.55% agree/strongly agree)

### Warning Indicators



- Adults without health insurance
- Adults who have had a routine check-up (lack of)
- Children with health insurance
- Adults who visited a dentist
- Adults with health insurance
- Primary care provider rate
- Mental health provider rate
- Non-physician primary care provider rate
- Dentist rate

### Secondary Data

Based on the secondary data scoring results, Access to Healthcare was identified as a top health need. This health topic includes data on health insurance coverage, provider rates, and healthcare utilization. Using HCI's Secondary Data scoring technique, analysis was done to identify specific indicators of concern across the counties. Individual indicators with high data scores within a topic area were categorized as indicators of concern and are listed in **Table 22** below.

**Table 22. Access to Care**

Indicator	County			County Value Compared to:			
	Name	Value	Data Score	TX Value	U.S. Value	HP2030 Target	Trend Over Time
Adults without Health Insurance	Austin	<b>24.3 Percent</b>	1.92	---	12.2 Percent	---	---
	Fort Bend	<b>20 Percent</b>	1.75				---
	Harris	<b>28.9 Percent</b>	2.08				---
	Waller	<b>27.3 Percent</b>	2.08				---

Adults who have had a Routine Checkup	Austin	<b>75 Percent</b>	1.58	---	76.7 Percent	---	---
	Fort Bend	<b>74.5 Percent</b>	1.58				---
	Harris	<b>73 Percent</b>	1.92				---
	Waller	<b>73.8 Percent</b>	1.92				---

Table 22. Access to Care continued.

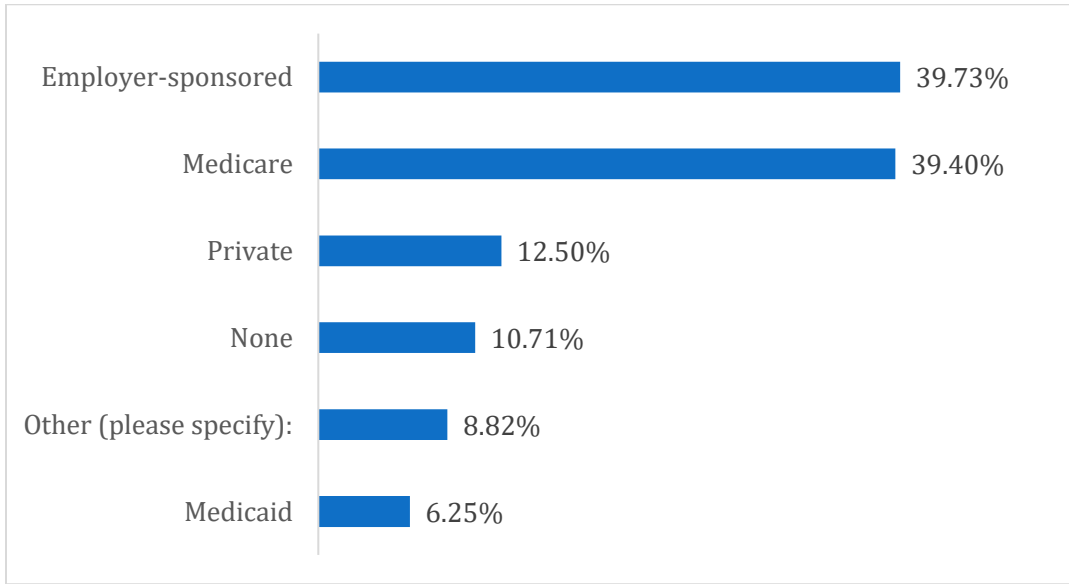
Indicator	County			County Value Compared to:			
	Name	Value	Data Score	TX Value	U.S. Value	HP2030 Target	Trend Over Time
Adults who have Visited a Dentist	Austin	<b>57.2 Percent</b>	1.58	---	66.5 Percent	---	---
	Fort Bend	<b>63.8 Percent</b>	1.25				---
	Harris	<b>59.1 Percent</b>	1.58				---
	Waller	<b>52.7 Percent</b>	2.08				---
Centers for Disease Control and Prevention- PLACES							
Adults with Health Insurance	Austin	---	---	75.5 Percent	87.1 Percent	---	---
	Fort Bend	<b>90.9 Percent</b>	1.5				---
	Harris	<b>71.0 Percent</b>	1.83				---
	Waller	---	---				---
Children with Health Insurance	Austin	---	---	87.3 Percent	94.3 Percent	---	---
	Fort Bend	<b>90.9 Percent</b>	1.5				---
	Harris	<b>85.0 Percent</b>	1.67				---
	Waller	---	---				---
American Community Survey							
Primary Care Provider Rate	Austin	<b>16.7 Providers/ 100,000 population</b>	2.67	60.9 Providers/100,000 population	---	---	Decreasing, not significantly
	Fort Bend	<b>85.9 Providers/ 100,000 population</b>	0.33				Increasing, not significantly
	Harris	<b>58.5 Providers/100,000 population</b>	1.11				Increasing, not significantly
	Waller	<b>13.2 Providers/ 100,000 population</b>	2.11				Increasing, not significantly
Mental Health Provider Rate	Austin	<b>40 Providers/ 100,000 population</b>	1.94	120.9 Providers/100,000 population	---	---	Increasing, Non-Significantly

	Fort Bend	<b>74 Providers/ 100,000 population</b>	1.33				Increasing, significantly
	Harris	<b>124.9 Providers/100,000 population</b>	0.67				Increasing, significantly
	Waller	<b>27.2 Providers/ 100,000 population</b>	2.22				Decreasing, not significantly
Non-Physician Primary Care Provider Rate	Austin	<b>56.6 Providers/ 100,000 population</b>	1.33	88.6 Providers/100,000 population	---	---	Increasing, significantly
	Fort Bend	<b>71.1 Providers/ 100,000 population</b>	1.33				Increasing, significantly
	Harris	<b>97.9 Providers/100,000 population</b>	0.50				Increasing, significantly
	Waller	<b>3.6 Providers/ 100,000 population</b>	2.39				Staying the same
Dentist Rate	Austin	<b>40 Dentists/ 100,000 population</b>	1.61	59.6 Dentists /100,000 population	---	---	Increasing, not significantly
	Fort Bend	<b>56.4 Dentists/ 100,000 population</b>	0.83				Increasing, significantly
	Harris	<b>70.7 Dentists/100,000 population</b>	0.33				Increasing, significantly
	Waller	<b>14.5 Dentists/ 100,000 population</b>	2.67				Decreasing, not significantly
County Health Rankings							

### Primary Data

Access to Care was a top health need identified in the overall community survey responses and key informant interviews. Barriers included literacy, language, knowledge of services and programs, navigating the healthcare system, technology, fear, transportation, cost (health care services being too expensive or could not pay), insurance not accepted, hours of operation did not fit the schedule, and wait time to see a doctor or health provider. Survey respondents were asked about their medical insurance or coverage. As shown in **Figure 26**, 39.73% indicated Employer-sponsored, 39.40% Medicare, 12.50% Private Insurance, 10.71% None, 8.82% Other, and 6.25% Medicaid.

**Figure 26. Type of Insurance/Coverage**



During the key informant interview process, some barriers or challenges were low health literacy, language, uninsured/underinsured populations, and access to specialty care. Other additional barriers or challenges stood out as key factors, including inequitable access to health care largely due to the Texas State legislature’s decision not to expand Medicaid, food insecurity, and transportation.

*“When I look at access, I just don't mean having a physician or practitioner to go to, but the ability to have transportation to get there. The ability to have resources. If you need childcare so you can get to the doctor. There is not just one thing with access, it's everything, ... I've been working in communities probably for 35 years, and often it's not just the access, but it's ...getting there or whether or not you're employed or where you live and housing its environment that you're living in its nutrition. It's multifaceted.” – Key Informant Participant*

**Pillar: Emotional Well-Being**

**Prioritized Health Topic #2: Mental Health and Mental Disorders**

# Mental Health & Mental Disorders

Secondary Data Score:

**1.48** MHHS



## Key Themes from Community Input



- Access to affordable mental health services
- Limited mental health care providers/counselors
- Integrating behavioral health into primary care as a model to decrease stigma
- I don't know where to get services for myself when I am sad, depressed, or need someone to talk to (24.33% Agree/Strongly Agree)

## Warning Indicators



- Alzheimer's Disease or Dementia: Medicare population
- Poor mental health: 14+ days
- Age-adjusted death rate due to Alzheimer's Disease
- Frequent mental distress
- Poor mental health: average number of days
- Depression: Medicare population
- Age-adjusted death rate due to suicide
- Mental health provider rate

## Secondary Data

Based on the secondary data scoring results, Mental Health & Mental Disorders was identified as a top health need. This health topic includes data on Alzheimer's Disease/Dementia in the Medicare population and Poor Mental Health: 14+ days. Using HCI's Secondary Data scoring technique, analysis was done to identify specific indicators of concern across the counties. Individual indicators with high data scores within a topic area were categorized as indicators of concern and are listed in **Table 23** below.

**Table 23. Mental Health and Mental Disorders Indicators**

Indicator	County			County Value Compared to:			
	Name	Value	Data Score	TX Value	U.S. Value	HP2030 Target	Trend Over Time
Alzheimer's Disease or Dementia: Medicare Population	Austin	<b>10 Percent</b>	0.83	12.6 Percent	10.8 Percent	---	Staying the same
	Fort Bend	<b>11.9 Percent</b>	1.97				Increasing, not significantly
	Harris	<b>12.4 Percent</b>	2.14				Increasing, not significantly
	Waller	<b>11.6 Percent</b>	1.81				Increasing, not significantly
Depression: Medicare Population	Austin	<b>14.7 Percent</b>	0.64	18.2 Percent	18.4 Percent	---	Increasing, not significantly
	Fort Bend	<b>13.8 Percent</b>	0.92				Increasing, significantly
	Harris	<b>16.1 Percent</b>	0.97				Increasing, not significantly
	Waller	<b>15.6 Percent</b>	0.97				Increasing, not significantly

Centers for Medicaid & Medicare Services

Poor Mental Health: 14+ Days	Austin	<b>13.1 Percent</b>	1.25	---	12.7 Percent	---	---
	Fort Bend	<b>10.6 Percent</b>	0.75				---
	Harris	<b>13 Percent</b>	1.25				---
	Waller	<b>15.4 Percent</b>	2.08				---
Centers for Disease Control and Prevention- PLACES							

Table 23. Mental Health and Mental Disorders Indicators continued.

Indicator	County			County Value Compared to:			
	Name	Value	Data Score	TX Value	U.S. Value	HP2030 Target	Trend Over Time
Age-Adjusted Death Rate due to Alzheimer's Disease	Austin	<b>17.9 Deaths/ 100,000 population</b>	0.08	38.5 Deaths/100,000 Population	30.5 Deaths/ 100,000 Population	---	---
	Fort Bend	<b>29 Deaths/ 100,000 population</b>	0.69				---
	Harris	<b>30.9 Deaths/100,000 Population</b>	1.14				Increasing, significantly
	Waller	<b>28.6 Deaths/ 100,000 population</b>	0.97				---
Age-Adjusted Death Rate due to Suicide	Austin	<b>24.5 Deaths/ 100,000 population</b>	2.47	13.5 Deaths/100,000 Population	14.1 Deaths/ 100,000 Population	12.8 Deaths/ 100,000 Population	Increasing, not significantly
	Fort Bend	<b>10.6 Deaths/ 100,000 population</b>	0.81				---
	Harris	<b>10.6 Deaths/100,000 Population</b>	0.81				Increasing, not significantly
	Waller	---	---				---
Centers for Disease Control and Prevention							
Frequent Mental Distress	Austin	<b>13.8 Percent</b>	1.5	11.6 Percent	13 Percent	---	---
	Fort Bend	<b>10.6 Percent</b>	0.67				---
	Harris	<b>12.7 Percent</b>	1.00				---
	Waller	<b>14.8 Percent</b>	1.83				---
Poor Mental Health: Average Number of Days	Austin	<b>4.3 Days</b>	1.5	3.8 Days	4.1 Days	---	---
	Fort Bend	<b>3.4 Days</b>	0.5				---
	Harris	<b>4 Days</b>	1.00				---
	Waller	<b>4.5 Days</b>	1.83				---

Mental Health Provider Rate	Austin	<b>40 Providers/ 100,000 population</b>	1.94	120.9 Providers/100,000 population	---	---	Increasing, Non-Significantly
	Fort Bend	<b>74 Providers/ 100,000 population</b>	1.33				Increasing, significantly
	Harris	<b>124.9 Providers/100,000 population</b>	0.67				Increasing, significantly
	Waller	<b>27.2 Providers/ 100,000 population</b>	2.22				Decreasing, not significantly
County Health Rankings							

**Primary Data**

Mental Health and Mental Disorders were identified as top health issues in the survey and key informant interviews. When survey respondents were asked what were the top five most affecting their quality of life, 60.80% indicated mental health and mental disorders. When survey respondents were asked how much they agree or disagree with the following statement, “I don’t know where to get services for myself when I am sad, depressed or need someone to talk to,” 71.20% disagreed or strongly disagreed with the statement.

Key informant participants discussed the continued need to address mental health as part of a holistic approach similar to how chronic disease is managed. Some particularly vulnerable populations that would benefit from a broader approach to treatment, inclusive of mental health, are immigrants, Black/African American and Hispanic, and the homeless. Several participants mentioned issues regarding a need for more behavioral health providers and services in the community. Participants always discussed the need to reduce mental health stigma and trust.

*“What I will say is that people need to be more comfortable when exploring the idea of getting support and help. We are not quite there yet, and it goes back to the trust gap.” -Key informant participant*

## Pillars: Food as Health & Exercise is Medicine

### Prioritized Health Topic #3-5: Diabetes, Heart Disease & Stroke, Obesity/Overweight

## Diabetes

Secondary  
Data Score:

**1.45** MHHS



### Key Themes from Community Input



- Survey respondents identified Diabetes as one of the top health issues (56%)
- Systemic issues around accessing health care disproportionately effect Black & Hispanic communities
- COVID-19 exacerbated diabetes mismanagement

### Warning Indicators



- Adults 20+ with Diabetes
- Diabetes: Medicare population
- Age-adjusted death rate due to Diabetes

### Secondary Data

Diabetes was identified as a significant health need with a topic score of 1.45. Further analysis was done to identify specific indicators of concern and those with high data scores are listed in **Table 24** for each county within the Memorial Hermann Rehabilitation Hospital - Katy Primary Service Area, specifically, Adults 20+ with Diabetes and individuals in the Medicare population with diabetes.

**Table 24. Diabetes Indicators**

Indicator	County			County Value Compared to:			
	Name	Value	Data Score	TX Value	U.S. Value	HP2030 Target	Trend Over Time
Diabetes: Medicare Population	Austin	<b>25.8 Percent</b>	0.97	28.8 Percent	27 Percent	---	Increasing, not significantly
	Fort Bend	<b>30.8 Percent</b>	2.03				Decreasing, not significantly
	Harris	<b>28.7 Percent</b>	1.67				---
	Waller	<b>29.5 Percent</b>	1.69				Decreasing, not significantly
Centers for Medicare & Medicaid Services							
Adults 20+ with Diabetes	Austin	<b>8.5 Percent</b>	1.83	---	---	---	Staying the same
	Fort Bend	<b>10.2 Percent</b>	2.14				Increasing, not significantly
	Harris	<b>10.2 Percent</b>	2.00				Staying the same



	Waller	<b>8.6 Percent</b>	1.69				Decreasing, not significantly
Age-Adjusted Death Rate due to Diabetes	Austin	<b>25.9 Deaths/100,000 population</b>	2.31	22 deaths/100,000 population	21.5 deaths/100,000 population	---	---
	Fort Bend	<b>14.7 Deaths/100,000 population</b>	0.92				---
	Harris	<b>20.4 Deaths/100,000 population</b>	1.17				Increasing, not significantly
	Waller	<b>24.4 Deaths/100,000 population</b>	2				---
	Centers for Disease Control and Prevention						

**Primary Data**

Diabetes is a serious, costly, and growing health problem in Greater Houston. When survey respondents were asked to list issues affecting their quality of life in the community, 52.46% of survey respondents listed diabetes. The key informant participants identified diabetes as one of the top health issues and specified that Black/African American and Hispanic communities struggled with diabetes more than other races/ethnicities in their communities. Participants also indicated that the cost of healthy foods, lack of places to exercise, culture, and stress contributed to increased rates of diabetes.

*“One of the main things we see is when we interview our clients for financial/food assistance, they have to make tough decisions...can I afford my BP (Blood Pressure) or diabetes medications and if I do, will I be able to afford to pay my electric bill?” -Key Informant Participant*

# Heart Disease & Stroke

Secondary Data Score: **1.62** MHHS



## Key Themes from Community Input



- Survey respondents indicated the following:
  - Heart Disease & Stroke was identified as one of the top health issues affecting quality of life (37.33%)
  - When asked if they have been told by their doctor that they had high cholesterol- (52.17%)
  - When asked if they have been told by their doctor that they had high blood pressure- (46.38%)

## Warning Indicators



- Adults who have taken medications for high blood pressure
- Stroke: Medicare population
- Heart failure: Medicare population
- Age-adjusted death rate due to Cerebrovascular Disease (Stroke)
- Cholesterol test history
- Ischemic Heart Disease: Medicare population
- Hyperlipidemia: Medicare population
- Atrial Fibrillation: Medicare population
- Hypertension: Medicare population
- Age-adjusted death rate due to Heart Attack
- High cholesterol prevalence: adults 18+
- High blood pressure prevalence
- Adults who experienced a stroke
- Adults who experienced Coronary Heart Disease
- Age-adjusted death rate due to Coronary Heart Disease

## Secondary Data

From the secondary data scoring results, heart disease and stroke were identified as a significant health need with a score of 1.62. Further analysis was done to identify specific indicators of concern across each county. Individual indicators with high data scores within the topic area were categorized as indicators of concern and are listed in **Table 25** below.

**Table 25. Heart Disease and Stroke Indicators**

Indicator	County			County Value Compared to:			
	Name	Value	Data Score	TX Value	U.S. Value	HP2030 Target	Trend Over Time
Adults who Have Taken Medications for High Blood Pressure	Austin	<b>77.8 Percent</b>	1.42	---	75.8 Percent	---	---
	Fort Bend	<b>74.6 Percent</b>	1.92				---
	Harris	<b>71.7 Percent</b>	2.08				---
	Waller	<b>71.6 Percent</b>	2.08				---

Table 25. Heart Disease and Stroke Indicators continued.

Cholesterol Test History	Austin	<b>82.2 Percent</b>	0.92	---	81.5 Percent	---	---
	Fort Bend	<b>83.1 Percent</b>	0.92				---
	Harris	<b>79.5 Percent</b>	1.75				---
	Waller	<b>77.4 Percent</b>	2.08				---
High Cholesterol Prevalence: Adults 18+	Austin	<b>37.9 Percent</b>	1.75	---	34.1 Percent	---	---
	Fort Bend	<b>33.6 Percent</b>	0.92				---
	Harris	<b>34.9 Percent</b>	1.08				---
	Waller	<b>33.5 Percent</b>	0.92				---
High Blood Pressure Prevalence	Austin	<b>38.1 Percent</b>	1.83	---	32.4 Percent	27.7 Percent	---
	Fort Bend	<b>32 Percent</b>	1				---
	Harris	<b>31 Percent</b>	1.00				---
	Waller	<b>33.9 Percent</b>	1.33				---
Adults who Experienced a Stroke	Austin	<b>3.9 Percent</b>	1.58	---	3.4 Percent	---	---
	Fort Bend	<b>2.6 Percent</b>	0.75				---
	Harris	<b>3.2 Percent</b>	0.92				---
	Waller	<b>3.3 Percent</b>	0.92				---

Table 25. Heart Disease and Stroke Indicators continued.

Adults who Experienced Coronary Heart Disease	Austin	<b>8.3 Percent</b>	1.58	---	6.8 Percent	---	---
	Fort Bend	<b>5.2 Percent</b>	0.75				---
	Harris	<b>6.2 Percent</b>	0.92				---
	Waller	<b>6.6 Percent</b>	0.92				---
Centers for Disease Control and Prevention- PLACES							
Age-Adjusted Death Rate due to Cerebrovascular Disease (Stroke)	Austin	<b>27.5 deaths/100,000 population</b>	0.28	40.2 deaths/100,000 population 35+ years	37.2 deaths/100,000 population 35+ years	33.4 deaths/100,000 population 35+ years	---
	Fort Bend	<b>32.3 deaths/100,000 population</b>	0.33				---
	Harris	<b>1.75 deaths/100,000 population 35+ years</b>	1.75				Decreasing, not significantly
	Waller	<b>27.8 deaths/100,000 population</b>	0				
Age-Adjusted Death Rate due to Coronary Heart Disease	Austin	<b>112.4 deaths/100,000 population</b>	1.94	93 deaths/100,000 population 35+ years	90.5 deaths/100,000 population 35+ years	71.1 deaths/100,000 population 35+ years	---
	Fort Bend	<b>64.9 deaths/100,000 population</b>	0.33				---
	Harris	<b>51.1 deaths/100,000 population 35+ years</b>	.67				Decreasing, significantly
	Waller	<b>124.9 deaths/100,000 population</b>	2.56				---
Centers for Disease Control and Prevention							

Table 25. Heart Disease and Stroke Indicators continued.

Indicator	County			County Value Compared to:			
	Name	Value	Data Score	TX Value	U.S. Value	HP2030 Target	Trend Over Time
Age-Adjusted Death Rate due to Heart Attack	Austin	<b>48.3 deaths/100,000 population on 35+ years</b>	1	70.1 deaths/100,000 population on 35+ years	---	---	---
	Fort Bend	<b>46.6 deaths/100,000 population on 35+ years</b>	0.86				---
	Harris	<b>85.3 deaths/100,000 population on 35+ years</b>	1.14				Decreasing, not significantly
	Waller	<b>43 deaths/100,000 population on 35+ years</b>	0.86				---
National Environmental Public Health Tracking Network							
Stroke: Medicare Population	Austin	<b>4 Percent</b>	1.53	4.2 Percent	3.8 Percent	---	Decreasing, not significantly
	Fort Bend	<b>4.6 Percent</b>	2.03				Decreasing, not significantly
	Harris	<b>4.7 Percent</b>	1.92				Decreasing, significantly
	Waller	<b>5.4 Percent</b>	2.36				Decreasing, not significantly
Heart Failure: Medicare Population	Austin	<b>14.4 Percent</b>	1.19	15.6 Percent	14 Percent	---	Decreasing, not significantly
	Fort Bend	<b>14.5 percent</b>	1.33				Staying the same
	Harris	<b>16.2 Percent</b>	1.83				Staying the same
	Waller	<b>15.7 Percent</b>	1.42				Decreasing, significantly
Ischemic Heart Disease: Medicare Population	Austin	<b>4 Percent</b>	1.53	29 Percent	26.8 Percent	---	Decreasing, not significantly

	Fort Bend	<b>29.3 Percent</b>	1.81				Increasing, not significantly
	Harris	<b>29.2 Percent</b>	1.67				Staying the same
	Waller	<b>29.9 Percent</b>	1.69				Decreasing, not significantly
Hyperlipidemia: Medicare Population	Austin	<b>49.4 Percent</b>	1.81	49.5 Percent	47.7 Percent	---	Increasing, not significantly
	Fort Bend	<b>51.1 Percent</b>	2.31				Increasing, not significantly
	Harris	<b>46.7 Percent</b>	1.64				Increasing, not significantly
	Waller	<b>49.5 Percent</b>	1.83				Staying the same
Atrial Fibrillation: Medicare Population	Austin	<b>9.2 Percent</b>	2.47	7.8 Percent	8.4 Percent	---	Increasing, not significantly
	Fort Bend	<b>7.3 Percent</b>	1.42				Increasing, significantly
	Harris	<b>7.9 Percent</b>	1.47				Increasing, not significantly
	Waller	<b>8.2 Percent</b>	1.53				Decreasing, not significantly
Hypertension: Medicare Population	Austin	<b>61.9 Percent</b>	1.83	59.9 Percent	57.2 Percent	---	Staying the same
	Fort Bend	<b>60.1 Percent</b>	1.81				Increasing, not significantly
	Harris	<b>57.9 Percent</b>	1.31				Increasing, not significantly
	Waller	<b>62.4 Percent</b>	1.97				Increasing, not significantly
Centers for Medicare & Medicaid Services							

## Primary Data

Heart disease and stroke were identified as top health issues in the community health survey. When participants were asked if they had ever had a doctor tell them they had high blood pressure, 50.67% indicated they had and 10.11% indicated a doctor told them they had heart disease. Key informant participants were asked about health issues in the community. One participant mentioned many patients dying due to hypertension and it being a number one cause of death.

“What they're recognizing is the number one cause of death in their community is hypertension, and that hasn't changed as long as I've been a nurse. So, what are we going to do to address that?” -Key Informant Participant

## Obesity/Overweight



### Key Themes from Community Input



- Survey respondents indicated Obesity/Overweight as the top health issue affecting their quality of life (82.67%)
- 33.33% of survey respondents have had a doctor tell them they were obese.
- Barriers: COVID-19 exacerbated weight-related issues, accessibility to gyms, cost of healthy food

### Warning Indicators



- Adults 20+ who are obese

## Secondary Data

The topic area of Obesity/Overweight was unable to be scored using HCI's Scoring Tool® due to secondary data limitations. **Table 26** shows Adults 20+ who are Obese.

**Table 26. Adults 20+ who are Obese**

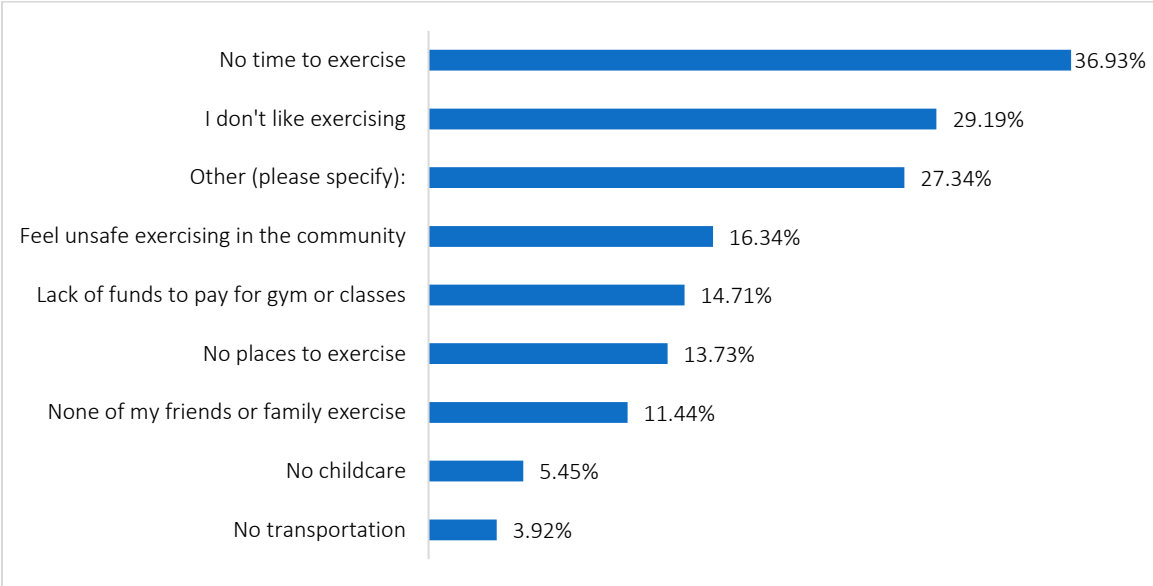
Indicator	County			County Value Compared to:			
	Name	Value	Data Score	TX Value	U.S. Value	HP2030 Target	Trend Over Time
Adults 20+ who are Obese	Austin	<b>25.9 Percent</b>	1.28	28.8 Percent	27 Percent	36 Percent	Decreasing, not significantly
	Fort Bend	<b>28.6 Percent</b>	1.61				Decreasing, not significantly
	Harris	<b>30.9 Percent</b>	----				Increasing, significantly
	Waller	<b>24.4 Percent</b>	0.83				Decreasing, significantly
Centers for Disease Control and Prevention							

## Primary Data

Overall survey responses and key informant interviews identified obesity as a top health issue. There were 73.11% survey respondents who indicated Obesity/Overweight as a top issue affecting their quality of life. When asked about their personal health, 88.12% of survey respondents rated their health as somewhat healthy or very healthy and 12.17% rated their health as unhealthy or very unhealthy. Survey respondents were also asked how many times they exercised or performed a physical activity, 41.81% indicated 2-3 times a week, 25.33% less than one time a week, and 7.11% indicated never exercising.

Figure 27 shows that 36.93% had no time to exercise, 29.19% did not like to exercise, 27.34% selected other barriers including, physical disabilities, fear of COVID-19, and time, 16.34% felt unsafe exercising in the community, and 14.71% lacked funds to pay for a gym/classes.

**Figure 27. Barrier/Challenges to Exercising on A Regular Basis**



*“I think obesity and our fast-paced culture creates an idea where health doesn't take a top priority. I think a lot of it can stem back to generational trauma and the ways that people carry stress and deal with relationships. I think there are so many different facets that contribute to one's health, I don't know that it can be answered in a broad stroke...” -Key Informant Participant*



## Non-Prioritized Significant Health Needs

The following additional significant health needs emerged from a review of the primary and secondary data. With the necessity to focus on the prioritized health needs described above, these topics are not specifically prioritized for efforts to be outlined in the 2022-2025 Implementation Strategy. **However, due to the interrelationship of social determinants and health, many of these areas fall, tangentially, within the prioritized health needs and may be addressed through the upstream efforts of the prioritized health needs.** Additionally, many of them are addressed within ongoing programs and services within the Memorial Hermann Health System. Examples of these efforts are provided below by topic area.

### Non-Prioritized Health Need #1: Older Adults and Elderly Care

#### Older Adults & Elderly Care

Secondary  
Data Score:

**1.57** MHHS



#### Key Themes from Community Input



- Higher socioeconomic status is a direct correlate to better health outcomes for seniors
- Seniors more connected to the community were more responsive to COVID-19 vaccination
- Repeating themes revealed the elderly population suffers, due to:
  - More health issues
  - Mental health (lack of access to inpatient/outpatient resources)
  - Lack of knowledge of available resources

#### Warning Indicators



- Chronic kidney disease: Medicare population
- Osteoporosis: Medicare population

### Ongoing Health System Efforts

Memorial Hermann-Texas Medical Center has received a Level 3 designation, becoming the first hospital in Houston and the second in Texas to receive geriatric emergency department accreditation. A geriatric emergency center is distinguished from standard emergency rooms through enhanced mobility equipment, specialized staff, an increase in routine screening for conditions such as dementia and fall risk as well as advanced coordination for post-emergency department care. Memorial Hermann-TMC has also implemented a protocol to improve medication regimens for geriatric patients who have been discharged from their emergency center to address any potential adverse side effects.

Memorial Hermann's Acute Care of Elders (ACE) Unit is a closed unit designed to manage acute medical issues in the elderly, prevent the decline that comes with the hospitalization of older people, and arrange for a successful discharge that meets the needs of the family and patient.

Additional efforts supporting the care of older adults in Greater Houston include Memorial Hermann's system-wide Hip Fracture Program and the Medication Therapy & Wellness Clinics located at MH Texas Medical Center, MH Southeast, and TIRR Memorial Hermann.

The specialists of the Memorial Hermann Hip Fracture Program are dedicated to providing the highest quality of care through standardized protocols resulting in expedited care that appropriately addresses clinical conditions. With the overarching goal to minimize pain and prevent complications commonly caused by lack of mobility, including bedsores, blood clots, and pneumonia.

The Memorial Hermann Medication Therapy & Wellness Clinics (MTWC) provide services where clinically trained pharmacists ensure patients' medications are safe and effective to help manage medical conditions, including anticoagulation, diabetes, hypertension, heart failure, dyslipidemia, and COPD, among others.

Each year, one in three adults aged 65 or older will experience a fall, risking traumatic injury or disability and increasing the likelihood of future falls. Memorial Hermann collaborates with several organizations throughout Greater Houston to extend fall prevention efforts and education to prevent incidents before they become an emergency.

## Non-Prioritized Health Need #2: Cancer

### Cancer

Secondary  
Data Score:

**1.34** MHHS



#### Key Themes from Community Input



- Survey respondents indicated Cancers as the top health issue affecting their quality of life (58.67%)
- Accessing specialty care is most difficult for low-income populations, disproportionately those without insurance. Proposed solutions include expanding Medicaid coverage

#### Warning Indicators



- Colon Cancer Screening
- Cancer in the Medicare Population
- Cervical Cancer Incidence Rate

### Ongoing Health System Efforts

As leading providers of cancer treatment in Houston, Memorial Hermann Cancer Centers offer the entire continuum of cancer care -- education, prevention, screening, diagnosis, treatment, survivorship, and rehabilitation. Cancer patients can take advantage of services in their neighborhood through the convenient network which includes 8 cancer centers, more than 20 breast care locations, 17 hospitals, 12 acute care hospitals, and dozens of other affiliated programs. Patients who receive care at any of the system's accredited centers are guaranteed access to comprehensive care; a multidisciplinary, collaborative team approach for coordinating the best available treatment options; state-of-the-art equipment and services; information about clinical

trials and new treatment options; education, and support; and lifelong patient follow-up through the Cancer Registry.

Memorial Hermann Cancer Centers offer a variety of classes, events, and support groups to care for the physical, social, emotional, and spiritual needs that patients, survivors, and caregivers have along the cancer journey. Following evidence-based guidelines, Memorial Hermann Cancer Centers develop and conduct dozens of support and wellness programs each year focused on prevention, education, screening, community outreach, and survivorship support. The wellness programs include General and Breast Cancer Support Groups, Art Therapy, Chair Yoga, Integrative Medicine, Lymphedema Support, Nutrition Counseling, Survivorship Centers, and more.

## Non-Prioritized Health Need #3: Children's Health

### Children's Health

Secondary  
Data Score:

1.49 MHHS



#### Key Themes from Community Input



- Low income children are disproportionately affected: lack of access to healthy food, early childhood educational inequities, limited healthcare access due to insurance barriers
- Increasing anxiety, depression in children worsened by COVID-19
- COVID-19 impact: Children not immunized due to delays in care
- Had a child living in the household under the age of 18 years old (30.14%) -survey

#### Warning Indicators



- Projected child food insecurity rate
- Child food insecurity rate

### Ongoing Health System Efforts

Children's Memorial Hermann Hospital is a 310-bed quaternary care women and children's hospital, located in the Texas Medical Center. As a primary teaching hospital for the pediatric and obstetrics/gynecology programs with an academic partner, McGovern Medical School at UTHealth, Children's Memorial Hermann is committed to serving the global community. The multidisciplinary team of affiliated doctors, nurses, therapists, and other allied healthcare professionals are focused on the personalized needs of women and children with an emphasis on quality, education, outcomes, customer service, and advanced research.

Children's Memorial Hermann Hospital is affiliated with more than 135 pediatric practices across the Greater Houston area, including BlueFish Pediatrics and Children's Memorial Hermann Pediatrics, with convenient locations across Houston in Katy, Memorial City, and Sugar Land.

Memorial Hermann operates ten Health Centers for Schools offering access to primary medical, dental, and mental health services to underserved children in more than 80 schools in the Greater Houston Area. 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.

Additionally, Memorial Hermann is an ongoing financial collaborator with Children at Risk, a 501(c)(3) non-profit organization that drives change for children through research, education, and influencing public policy.

## Non-Prioritized Health Topic #4: Women’s Health

### Women's Health

Secondary Data Score: **1.42** MHHS



#### Key Themes from Community Input



- Advice for the Future/Recommendations (Breast health/Breast cancer):
  - Focus on how to address disparities
  - Bring services out to the communities (rural areas)
- Barriers: Uninsured/Underinsured, Medicaid expansion gap, cost for care, language, state level policies limiting access to care (age/documentation/income requirements)

#### Warning Indicators



- Cervical Cancer incidence rate
- Age-adjusted death rate due to Breast Cancer
- Mammogram in past 2 years: 50-74
- Breast Cancer incidence rate
- Cervical Cancer incidence rate

### Ongoing Health System Efforts

At Memorial Hermann Health System, all facilities offer a patient-centered, multidisciplinary approach to deliver safe, comprehensive, quality care to women of all ages. Memorial Hermann’s affiliated team offers a comprehensive program of distinguished gynecology, obstetric and neonatal services, including fertility services, urogynecology, high-risk pregnancy, labor and delivery, menopause care, pelvic floor health, and neonatal intensive care.

At The Women’s Center at Children's Memorial Hermann Hospital, caring for women of all ages has always been a priority. As a Level IV Maternal Facility, which denotes the highest level of care as designated by the Texas Department of State Health Services (DSHS), the affiliated team takes a patient-centered approach to deliver advanced heart, bone, and breast care, as well as providing a broad range of gynecology, obstetric and neonatal services, including fertility services, urogynecology, high-risk pregnancy, labor and delivery, menopause care, pelvic floor health, and neonatal intensive care. As a leading obstetric hospital, the labor and delivery unit provide mom and baby with a full range of specialized, comfortable care, including high-risk obstetrical and neonatal care within the same facility.

# COVID-19 Impact Snapshot

## COVID-19 Community Impact Timeline

### COVID-19 Community Impact Timeline:

#### COVID - 19



## Introduction

At the time that Memorial Hermann Health System began its CHNA process, the state of Texas and the nation were continuing to deal with the novel coronavirus (COVID-19) pandemic. The process for conducting the assessment remained fundamentally the same. However, there were some adjustments made during the event to ensure the health and safety of those participating.

## Pandemic Overview

On March 13, 2020, a U.S. national emergency was declared over the novel coronavirus outbreak first reported in the Wuhan Province of China in December 2019. Officially named COVID-19 by the World Health Organization (WHO), WHO declared COVID-19 a pandemic on March 11, 2020. To learn more about COVID-19 hospitalization, vaccinations, cases, and deaths in Texas, visit The Texas Tribune. Upon completion of this report in May 2022, the pandemic continued to be a health crisis across the United States and in most countries.

## Community Insights

The CHNA project team looked for additional sources of secondary data and gathered primary data to provide a snapshot of the impact of COVID-19 on the Memorial Hermann Health System Primary Service Area. This data was collected from September 2021 to January 2022. Findings are reported below.

## COVID-19 Cases and Deaths in Texas

For current cases and deaths due to COVID-19 visit: <https://www.dshs.state.tx.us/coronavirus/> and the Harris County/City of Houston COVID-19 Data Hub <https://publichealth.harriscountytexas.gov/Resources/2019-Novel-Coronavirus>

## Vulnerability Index

Beyond looking at what we know about COVID-19 cases and deaths, the Conduent COVID-19 Vulnerability Index<sup>5</sup> is a measure of potential severe illness burden due to COVID-19 by county. Counties are given an index value from 1 (low vulnerability) to 10 (high vulnerability). A county with a high vulnerability score can be described as a location where a higher percentage of COVID-19 cases would result in severe outcomes such as hospitalization or death as compared to a county with a low vulnerability score.

*What does this score mean?*

---

<sup>5</sup> Conduent HCI COVID-19 Vulnerability Index is a measure of potential severe illness burden due to COVID-19 across the country by county: <https://www.covid19atrisk.org/>.

**Table 27** shows Austin, Harris, Fort Bend, and Waller Counties Vulnerability Index Score as of May 9, 2022. Fort Bend and Harris Counties have vulnerability index values of 3 and 2, respectively. This means that residents of these counties have lower death rates due to chronic conditions, lower socio-economic needs, and adequate access to healthcare and services to protect themselves from more severe COVID-19 cases and more death than counties with higher rates of chronic disease, risky behavior, and/or low access to health services. Austin and Waller Counties have vulnerability index values of 10 and 6, respectively. This means that residents may have higher death rates due to chronic conditions, higher socio-economic needs, and less than adequate access to healthcare. This could lead to higher risk of more severe illness and higher death rates due to COVID-19 than other counties.

**Table 27. Vulnerability Index Score**

County	Vulnerability Index Score
<b>Austin</b>	10
<b>Harris</b>	2
<b>Fort Bend</b>	3
<b>Waller</b>	6

Please note, that this is a predictive model based on various chronic conditions, SocioNeeds Index®, and recent case counts and deaths. For more information, please see the “Learn More” section in the Conduent Vulnerability Index.

### Community Feedback

Both the community survey and key informant interviews included questions to assess the impact of COVID-19 on the Memorial Hermann Health System regional Primary Service Area.

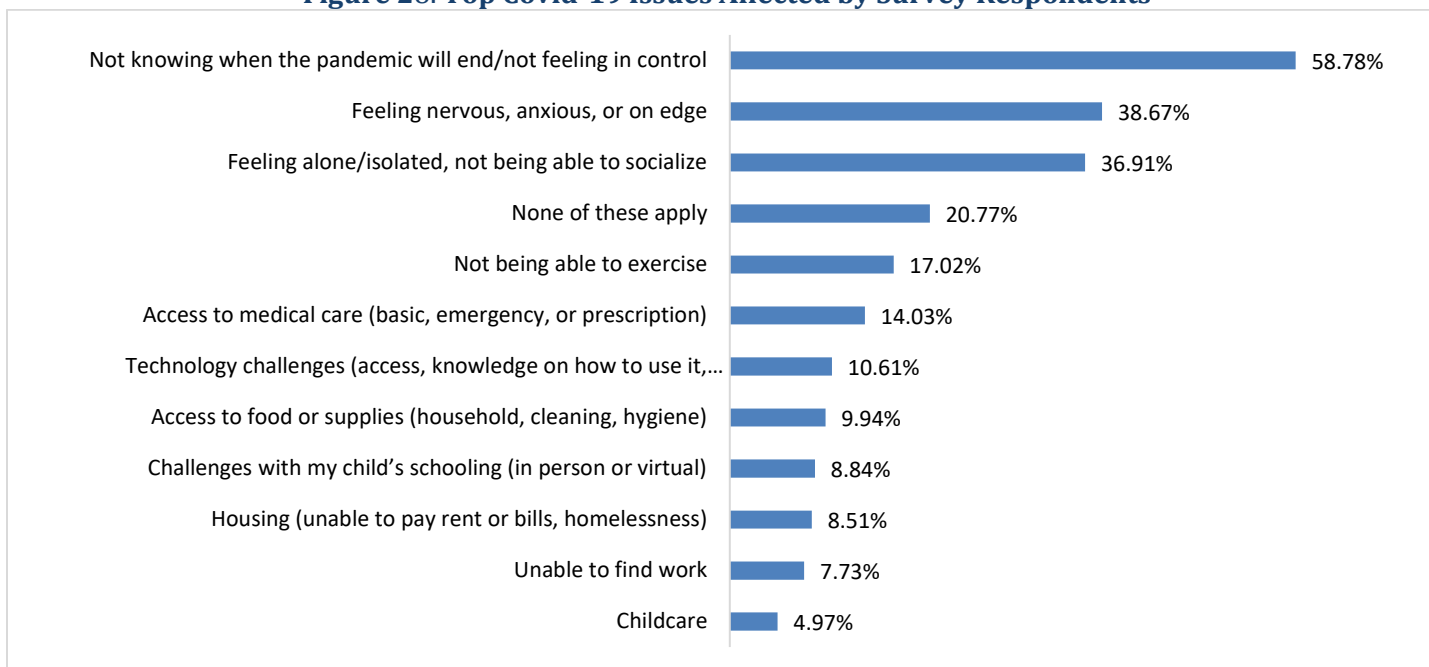
### Community Survey

Community survey respondents were asked to identify those issues that are currently the biggest challenge for their households because of the COVID-19 pandemic. Data was collected between November 2021 and January 2022. Survey respondents were especially asked about the biggest challenges their households were currently facing due to COVID-19. Below indicates what survey respondents reported.

- 58.78% reported not knowing when the pandemic will end
- 38.67% reported feeling nervous, anxious, or on edge
- 36.91% reported feeling alone/isolated, not being able to socialize
- 17.02% reported not being able to exercise

Figure 28 provides additional insight into the challenges residents faced during the pandemic.

**Figure 28. Top Covid-19 Issues Affected by Survey Respondents**



### Key Informant Interviews

Key informants were asked to share the biggest challenges in the community as a result of the COVID-19 pandemic. They were also asked to share some positive outcomes that emerged during the response to the pandemic. **Table 28** summarizes key insights gathered from these discussions, which were conducted from September 2021 through January 2022.

**Table 28. COVID-19 Key Informant Interview Insights**

Challenges	Positive Outcomes
Childcare	Telehealth increased access to care
Delay in dental care, primary care (childhood immunizations delayed)	A greater understanding of the value of community
Stress, compounding impact of COVID-19 on existing health disparities/inequities	Increased access to virtual community meetings and forums
Distrust in healthcare	Less stigma associated with Mental Health issues/seeking care
Telehealth exposed barriers (internet access, digital divide)	Systemic issues illuminated: people had to confront inequities
Housing Instability	Upwards wage pressure



## Recommended Data Sources

As local, state, and national data are updated and become available, these data can continue to help inform approaches to meeting existing and developing needs related to the pandemic.

Recommended data sources are included below.

### National Data Sources

- ❑ Center for Disease Control: <https://www.cdc.gov/coronavirus/2019-ncov/php/open-america/surveillance-data-analytics.html>
- ❑ Johns Hopkins Coronavirus Resource Center: <https://coronavirus.jhu.edu/us-map>
- ❑ Conduent COVID At-Risk – Vulnerability Index: <https://www.covid19atrisk.org/>
- ❑ Conduent COVID-19 Vulnerability Index: <https://www.covid19atrisk.org/vulnerability.html>
- ❑ NACCHO Coronavirus Resources for Health: <https://covid19-naccho.hub.arcgis.com/>
- ❑ Feeding America (The Impact of the Coronavirus on Local Food Insecurity): [https://www.feedingamerica.org/sites/default/files/2020-05/Brief\\_Local%20Impact\\_5.19.2020.pdf](https://www.feedingamerica.org/sites/default/files/2020-05/Brief_Local%20Impact_5.19.2020.pdf)
- ❑ Unemployment Rates: <https://fred.stlouisfed.org/series/ILDEKA5URN> and <https://fred.stlouisfed.org/series/ILKEND3URN>

### State Data Sources

Data and recommendations from the following websites are updated regularly and may provide additional information on the impact of COVID-19 in the state of Texas and the Memorial Hermann Health System regional Primary Service Area.

- ❑ Texas Department of State Health Services: <https://www.dshs.state.tx.us/coronavirus/>
- ❑ Memorial Hermann Health System: <https://www.memorialhermann.org/services/conditions/coronavirus>
- ❑ 2-1-1 Texas: <https://tx.211counts.org/>
- ❑ Austin County Services: <https://www.austincounty.com/page/austin.Services>
- ❑ Brazoria County Health Department: <https://www.brazoriacountytx.gov/departments/health-department>
- ❑ Chambers County Public Health: <https://www.co.chambers.tx.us/page/coronavirus>
- ❑ Colorado County Public Health: <http://www.co.colorado.tx.us/page/COVID-19>
- ❑ Fort Bend Health & Human Services: <https://www.fbchealth.org/>
- ❑ Galveston County Health District: <https://www.gchd.org/>
- ❑ Harris County Public Health: <https://publichealth.harriscountytexas.gov/Resources/2019-Novel-Coronavirus>
- ❑ Liberty County Services: <https://www.co.liberty.tx.us/page/liberty.coronavirus>
- ❑ Montgomery County Public Health District: <https://mcphd-tx.org/>
- ❑ San Jacinto County Services: <http://www.co.san-jacinto.tx.us/>
- ❑ Walker County Service: <https://www.co.walker.tx.us/>
- ❑ Waller County Services: <https://www.co.waller.tx.us/page/EM.COVID-19>
- ❑ Wharton County Services: <http://www.co.wharton.tx.us/>

## Conclusion

This Community Health Needs Assessment (CHNA), conducted for Memorial Hermann Rehabilitation Hospital-Katy and the Memorial Hermann Health System, used a comprehensive set of secondary and primary data to determine the 15 significant health needs in the Memorial Hermann Health System. The prioritization process identified six top health needs: Pillar: Access: Priority Health Need 1: Access to Healthcare, Pillar Emotional Well-Being: Priority Health Need 2: Mental Health and Mental Disorder, Pillars Food as Health & Exercise is Medicine: Priority Health Need 3-6, Diabetes, Heart Disease & Stroke, Obesity/Overweight, and a special focus on Women's Health.

The findings in this report will be used to guide the development of the Memorial Hermann Rehabilitation Hospital-Katy Implementation Strategy, which will outline strategies to address identified priorities and improve the health of the community.

Please send any feedback and comments about this CHNA to: [Deborah.ganelin@memorialhermann.org](mailto:Deborah.ganelin@memorialhermann.org) with "CHNA Comments" in the subject line. Feedback received will be incorporated into the next CHNA process.

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## Appendices Summary

The following support documents are shared separately on <https://www.memorialhermann.org/locations/rehabilitation-hospital-katy/community-health-needs-assessment>.

### **A. Secondary Data (Methodology and Data Scoring Tables)**

A detailed overview of the Conduent HCI data scoring methodology and indicator scoring results from the secondary data analysis.

### **B. Community Input Assessment Tools**

Quantitative and qualitative community feedback data collection tools that were vital in capturing community feedback during this collaborative CHNA:

- Community Survey (English & Spanish)
- Key Informant Interview Guide

### **C. Prioritization Tools**

This section includes the tools and criteria used for the prioritization process.

### **D. Community Resources and Partners**

This document highlights existing resources that organizations are currently using and available widely in the community. This document also includes tables highlighting potential community partners who were identified during the qualitative data collection process for this CHNA.