Houston Methodist West Hospital

2013 Community Health Needs Assessment

HOUSTON Methodist℠ WEST HOSPITAL

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Executive Summary

Representatives from Houston Methodist's (HM) Community Benefits Department conducted community health needs assessments (CHNA) for each HM hospital between June and August 2013. This report contains all methods and findings for the Houston Methodist West Hospital (HMWH) CHNA. HMWH has identified three health priorities based on the findings of this CHNA:

Priority #1: Prevention of Chronic Disease and Related Conditions	• Analysis of sources identified chronic diseases as leaders of mortality statistics for Texans and Houston Methodist community members. By prioritizing prevention of chronic disease and contributing conditions, Houston Methodist hopes to build a healthier community and world.
Priority #2: Access to Care Improvement	• Analysis of stakeholder interviews and sources identified improved accessibility to health care services as a key need for the Houston Methodist community. By prioritizing improved access, Houston Methodist hopes to expand the delivery of quality health care to the community and world. Improved access includes a plan for continuum of care and leveraging of community partner collaborations.
Priority #3: Education to Decrease Health Risk Behaviors.	• Analysis of stakeholder interviews and sources identified improving community education about health and wellness as a community health need. Education on health and wellness also serves a key component for the other priorities listed above.

Each CHNA for HM hospitals is available at www.HoustonMethodist.org/communitybenefits.

Introduction and Background

Purpose behind the Community Health Needs Assessment

The Community Benefits Department at Houston Methodist (HM) conducted a community health needs assessment (CHNA) for each HM hospital to best identify the health needs of the Greater Houston community. This CHNA provides a set of community health priorities to supplement the development of an implementation plan.

Meeting Affordable Health Care Act Requirements

As a result of the Affordable Care Act, Houston Methodist expanded its existing efforts related to identifying and meeting community needs. The bullet points below summarize the components found within each HM hospital's CHNA:

- *A description of the hospital's community and how the community was determined.*
- *A description of the process and methods HM used to conduct the assessment.*
- *A description of gaps in information that impact the ability of HM to assess the community health needs.*
- *A description of how input from persons who represent the broad interests of the community served by each HM hospital was accounted for.*
- *A prioritized description of all the community health needs identified through the CHNA, as well as a description of the process and criteria used in prioritization.*
- *A description of the existing health care facilities and other resources within the community available to meet the community health needs identified.*

Houston Methodist Background and Values

Established by the Texas Annual Conference of the United Methodist Church as a Christian faith-based not for profit organization, Houston Methodist provides the highest quality, cost-effective health care that delivers the best value to the communities served in a spiritual environment of caring in association with internationally recognized teaching and research.

The core values of integrity, compassion, accountability, respect, and excellence serve as the cultural columns supporting Houston Methodist. We are honest and ethical in all we say and do. We embrace the whole person and respond to emotional, ethical and spiritual concerns as well as physical needs. We hold ourselves accountable for our actions. We treat every individual as a person of worth, dignity and value. We strive to be the best at what we do and a model for others to emulate.

Snapshot of Houston Methodist and Area Hospitals

Houston Methodist

- 5 hospitals
- A research institute
- A comprehensive residency program
- 1,633 operating beds
- 14,826 employees
- System with the Texas Annual Conference of the United Methodist Church

Houston Methodist Hospital

Houston, Texas (*Texas Medical Center*)

- 7 66 operating beds
- 73 operating rooms
- 1,852 System physicians
- 5,957 employees
- 35,542 inpatients
- 290,555 outpatient visits
- 55,370 emergency room visits
- 1,064 births
- More than 7,269 international patients from 95 countries
- 31 ACGME-accredited

Houston Methodist San Jacinto Hospital

Baytown, Texas (*I-10 & Garth*)

- 275 operating beds
- 18 operating rooms
- 335 System physicians
- 1,474 employees
- 12,242 inpatients
- 67,661 outpatient visits
- 54,472 emergency room visits
- 1,542 births

Houston Methodist West Hospital

Houston, Texas (*I-10 & Barker Cypress*)

- 116 operating beds
- 8 operating rooms
- 616 System physicians
- 868 employees
- 6,238 inpatients
- 39,810 outpatient visits
- 23,228 emergency room visits
- 1,435 births

Houston Methodist Willowbrook Hospital

Houston, Texas (*Hwy. 249 & F.M. 1960*)

- 241 operating beds
- 14 operating rooms
- 760 System physicians
- 1,474 employees
- 13,757 inpatients
- 78,810 outpatient visits
- 54,403 emergency room visits
- 3,112 births

Houston Methodist Sugar Land Hospital

Sugar Land, Texas (*Hwy. 59 & Sweetwater*)

- 235 operating beds
- 18 operating rooms
- 831 System physicians
- 1,630 employees
- 13,132 inpatients
- 119,225 outpatient visits
- 38,541 emergency room visits
- 2,699 births

Board of Directors and Departmental Leadership

- The Honorable Ewing Werlein, Jr., *Chair*
- John F. Bookout, *Senior Chair*
- David M. Underwood, Sr., *Vice Chair*
- Carlton E. Baucum, *Treasurer*
- Gregory V. Nelson, *Secretary*
- Emily A. Crosswell, *Asst. Secretary*
- Robert K. Moses, Jr., *Asst. Secretary*
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- Gary W. Edwards
- Connie Dyer
- Joseph C. "Rusty" Walter, III
- Morrie K. Abramson
- Mary A. Daffin
- Mark A. Houser
- Lawrence W. Kellner
- Elizabeth Blanton Wareing
- Vidal G. Martinez
- Eric K. Haufrect, M.D., *President-Elect of the Medical Staff*
- Bishop Janice Riggle Huie
- Keith O. Reeves, M.D.
- Sandra Gayle Wright. Ed. D., R.N.
- Rev. B.T. Williamson *(Advisory)*
- Rev. Kenneth Levingston
- Dr. Stephen Wende
- Dr. Thomas J. Pace, III
- C. Richard Stasney, M.D. *(Advisory)*

Life Members

- Jack S. Blanton, Sr.
- Ernest H. Cockrell
- James C. Dishman
- Charles W. Duncan, Jr.
- Isaac H. Kempner III
- Nat S. Rogers

Community Benefits Staff

- Cathy Easter, *Senior Vice President*
- Ryane K. Jackson, *Manager*
- Baine A. Herrera, *2013 Summer Intern*

Community Served by Houston Methodist West Hospital

'Texas has approximately 27.5 million residents, eight of the fifteen fastest growing large cities in the United States, and five of the ten cities and towns that added the most people over the year. "Texas gained more people than any other state between April 1, 2010 and July 1, 2011 (529,000)". While not ranked as one of the fastest growing cities, Houston did have the second highest numerical increase (45,716) between April 1, 2010 and July 1, 2011 and is identified as the fourth most populous city in the country behind New York, Los Angeles, and Chicago. As of this CHNA, eleven health service regions divide the state. HM related communities reside in region 5/6S and occupy a portion of the Houston-Baytown-Sugar Land metropolitan statistical area. [2]



Figure 1: Outline of Health Service Region 6/5S (Source: *Department State Health Services*)

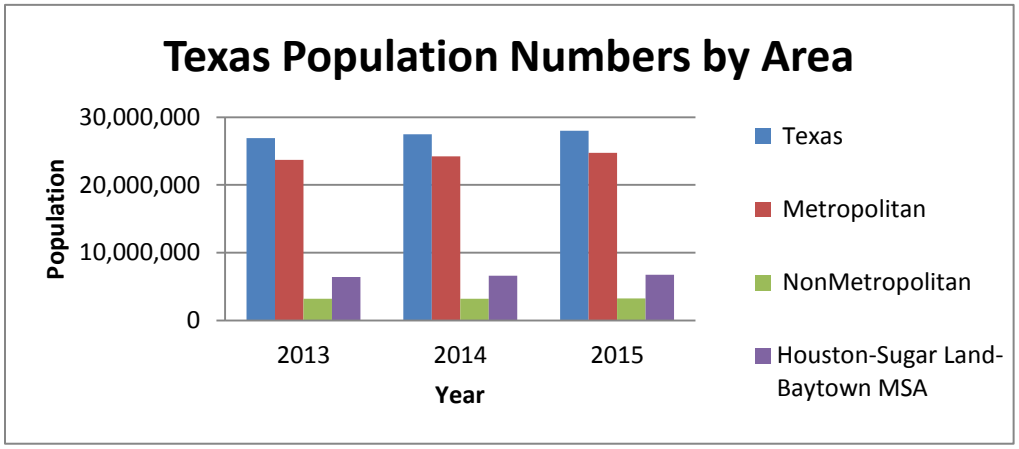


Figure 2: Texas Population Numbers by Area (Source: 2007-2011 American Community Survey)

Houston Methodist West Hospital (HMWH) defines the combination of Fort Bend County, Harris County, and Waller County as its community. The HMWH community encompasses the west quadrant of the eight county Houston-Baytown-Sugar Land combined metropolitan statistical areas (CMSA). Figure 3 displays the current geographic footprint of the community as well as the approximate location of HMWH.



Figure 3: The orange area represents the community served by Houston Methodist West Hospital. The white cross on yellow background represents the approximate location of Houston Methodist West Hospital. (Source: *Diersen, 2013*)

Community County Population Analysis [3] [4] [5] [6]

The HMWH community spans 2,027 square miles and contains an estimated population of 4,939,262 people. Harris County accounts for an estimated 4,307,028 (87%) of community residents Fort Bend County accounts for 591,271 (12%) of community residents and Waller County accounts for an estimated 40,963 (1%).

Projected population growth for the Fort Bend, Harris and Waller County community can be seen in Figure 5. Overall, growth is projected in all three counties with no projected decrease by 2018.

HMWH Population Projections by County (2010-2018)

Community By County	TOTAL POPULATION			PERCENT OF TOTAL			OVERALL GROWTH		CAGR	
COUNTY	2010	2013	2018	2010	2013	2018	10-13	13-18	10-13	13-18
Fort Bend	547,077	591,271	659,320	9%	10%	10%	8%	12%	2.6%	2.2%
Harris	4,112,478	4,307,028	4,651,323	70%	69%	69%	5%	8%	1.6%	1.5%
Waller	39,475	40,963	43,737	1%	1%	1%	4%	7%	1.2%	1.3%
HMWH Community	4,699,030	4,939,262	5,354,380	100%	100%	100%	5%	8%	0.4%	1.6%

Figure 4: Houston Methodist West Hospital community population projections for 2010-2018 by county (Source: *Truven Market Planner Plus*)

Community Racial/Ethnic Analysis [7] [8]

The HMWH community reflects the racial makeup and trends of the Houston-Baytown-Sugar Land metropolitan statistical area (MSA). The most apparent trend for the HMWH community over the past twenty years has been increasing community diversification. The Houston-Baytown-Sugar Land MSA comprises the most diverse major metropolitan area in the United States and Houston maintains a minority-majority city status.

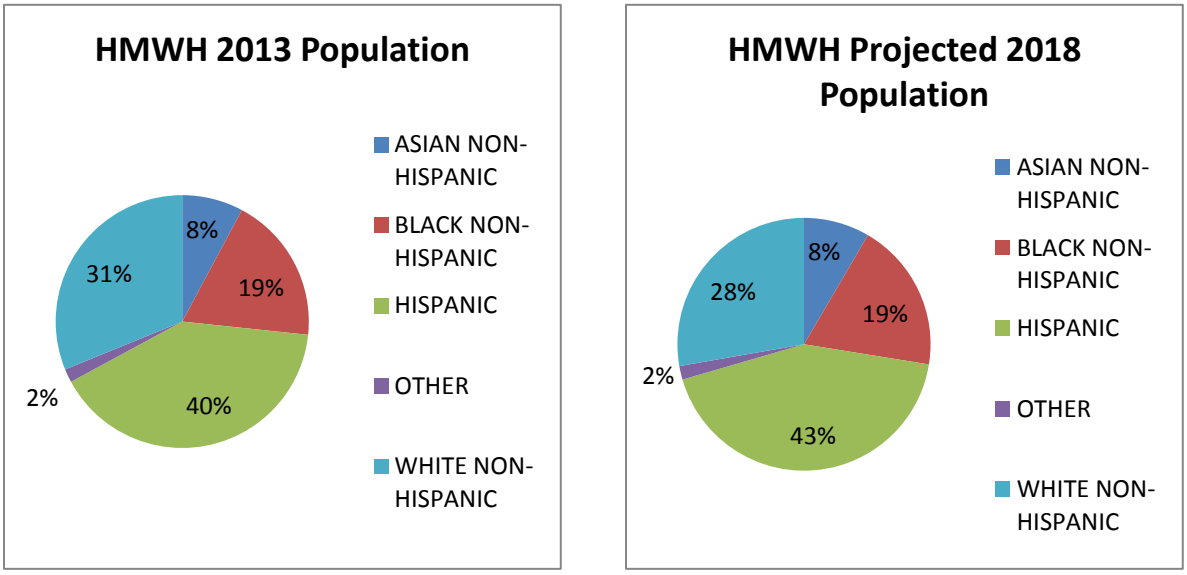


Figure 5: Racial composition of the HMWH community as of 2013 and projected composition for 2018 (Source: *Truven Market Planner Plus*)

HMWH serves an incredibly dynamic and diverse community. The HMWH community has significantly expanded between years 2000 and 2010. During this time the community added 956,850 people for an estimated growth of 25.3%. [9]

Diversity has followed this expansion. The HMWH community lacks a singular racial majority and every race currently occupies a minority position. Increasing community diversification has followed rapidly expanding Hispanic and Asian populations and a decreasing percentage of Anglos in the community. Fort Bend County currently ranks as the most diverse county within the HMWH community. Harris County currently ranks second behind Fort Bend County in terms of racial diversity. Waller County is the least diverse HMWH community county. [10] [11] [12] [13] [14] [15] [16] [17] [18]

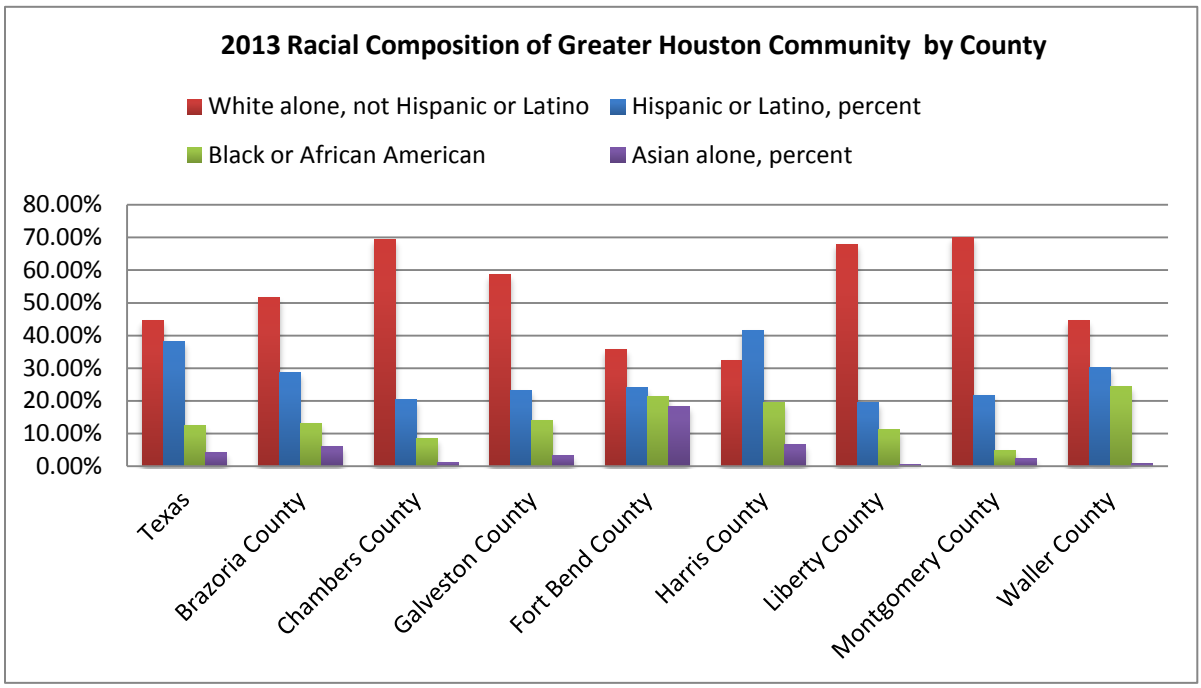


Figure 6: Approximate racial composition of Greater Houston separated by county. (Source: 2010 U.S. Census State and County Quick Facts)

Community Age Analysis [19]

Three major age groups make up the HMWH community. They are the youth, adolescent, and young adult population; the adult population; and the senior population.

The Youth, Adolescent, and Young Adult Population [20]

Houston Methodist defines the youth, adolescent, and young adult population as any person between the ages of 0–24 years. The youth, adolescent, and young adult population accounts for the second highest percentage of the HMWH community (38%). This age group is expected to grow 6% by 2018.

Community residents aged 18–24 years make up the highest percentage of this population (24%) but project the lowest percent growth (5%) by 2018. Comparatively, community residents from birth to age 1 make up the lowest percentage of this population (4%) but project the second highest percent growth by 2018 (8%). No sub cohorts of the youth, adolescent, and young adult population are expected to contract between now and 2018.

The Adult Population [21]

Houston Methodist defines the adult population as any person between the ages of 25–64 years. The adult population accounts for the highest percentage of the HMWH community (53%). The adult population is expected to grow 6% by 2018.

Community members between 25–34 years old currently account for the highest percentage of the adult population (28%). However, this sub cohort of community members projects the lowest percent growth by 2018 (-1%). Comparatively, the sub cohort of adult community members aged 60–64 currently accounts for the lowest percentage of the adult cohort (9%) but projects the largest percent increase by 2018 (24%). The distribution of growth trends towards the older sub cohorts of the adult population can be seen in Figure 6.

The Senior Population [22]

Houston Methodist defines the senior population as persons over the age of 65 years. The senior population currently accounts for 9% of the HMWH community. While it accounts for the lowest percentage of the community, the senior population projects highest percent growth of any cohort by 2018 (31%).

Aging of the HMWH community is reflected in the growth of community members between 65–79 years of age. Sub cohorts within this range are estimated to grow, on average, 35% by 2018. Those between the ages of 65-79 are expected to grow by the largest percentage by 2018.See Figure 12 to illustrate the projected growth of the senior population.

[23] The HMWH community population concentrates over the adult population until 2018; however, growth within the HMWH community concentrates primarily over the senior population. Projected population percent increases within the 60+ range of the population indicate a significant community shift towards a more senior laden population. While the senior population does show the largest projected percent increase by 2018 it remains the smallest community cohort by total number of members.

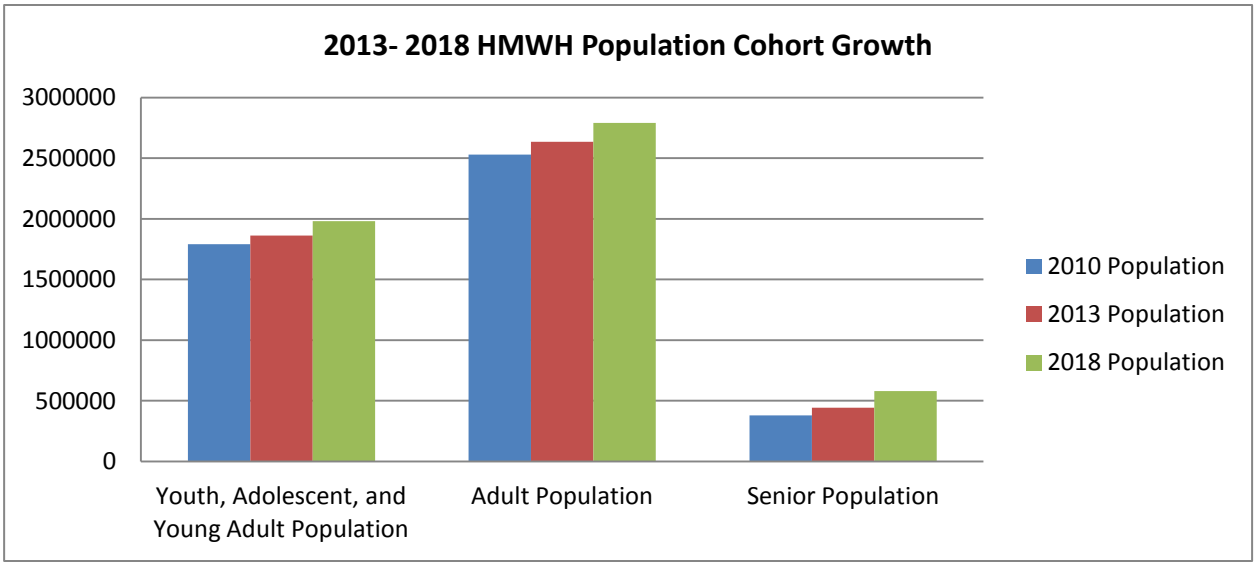


Figure 7: HMWH Community age group growth projections for 2018 (Source: *Truven Market Planner Plus*)

Community Household Income Analysis [24]

The HMWH community as a whole has experienced an increase in average household income dating back to 2000. The increase of HMWH average household income also projects to continue into 2018 for nearly all HMWH community counties.

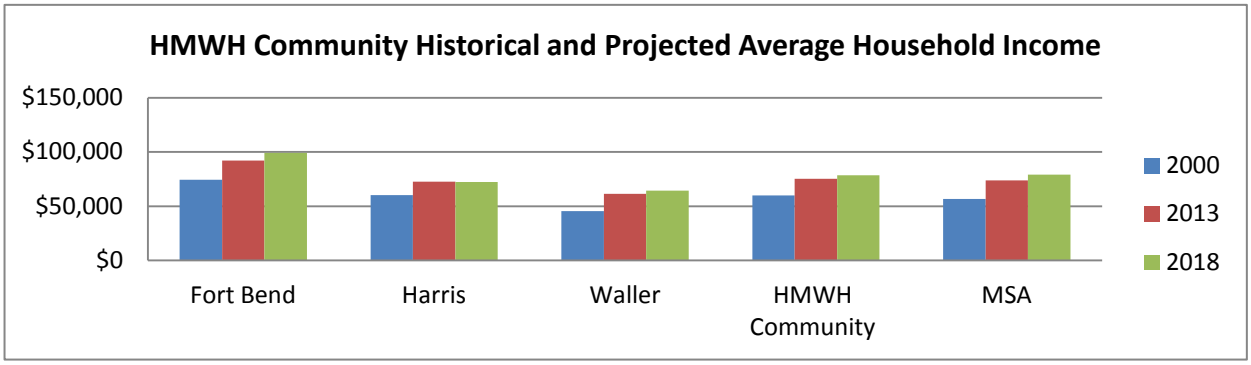


Figure 8: HMWH community historical and projected average household income (Source: *Truven Market Planner Plus*)

Waller County has undergone the largest percent increase in average household income since 2000 (35%) and projections estimate average household income to continue expanding to 2018 (5%). Fort Bend County has the highest average household income ($92,203) in the HMWH community as well as the broader Houston-Baytown-Sugar Land MSA (MSA). Fort Bend County also projects the highest percent increase in average household income of all the HMWH community counties headed into 2018 (7%). Harris County experienced the least growth in average household income from 2000–2013 (24%), and projects the lowest percent increase in average household income growth for the 2013–2018 period (0%). Of the HMWH community, Waller County currently has the lowest average household income ($61,285) and projects to still have the lowest average household income by 2018 ($64,204). Currently the HMWH community has a higher average household income than the designated MSA.

Community Poverty Analysis [25] [26] [27] [28] [29] [30] [31] [32] [33] [34] [35]

Each county within the HMWH community experiences a varying degree of poverty. On average, the poverty rate for the HMWH community counties (11.80%) is lower than the poverty rate of the MSA (15.2%), the poverty rate of the Health Service Region (HSR) 6/5S (15.4%), and the poverty rate of the state of Texas (17.1%). [1]

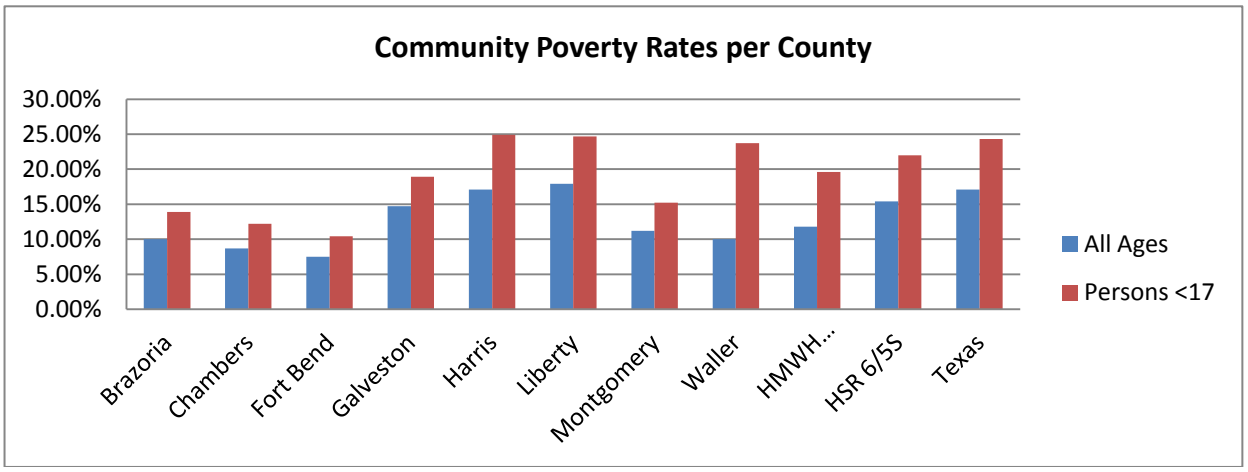


Figure 9: Poverty rates within community counties (Source: *2009 County Health Facts Profile*)

Harris County experiences the highest percentage of all individuals living below the federal poverty line (FPL) at 17.10%. Fort Bend County has the lowest percentage of people living below the FPL in the HMWH community. Overall, approximately 11.80% of the HMWH community lives below the poverty line.

Disparities of poverty exist along an age gradient. In general, community residents under the age of 17 experience higher rates of poverty than the total population. Harris County has the highest rate of poverty for persons under the age of 17 at 24.9%. Waller County experiences the largest disparity between poverty rates for all persons and persons under 17 within the community (13.70%).

[36] Disparities in poverty also exist amongst members of the Houston-Baytown-Sugar Land MSA born in the United States and those born outside of the US. Approximately 1,335,284 foreign born persons call this area home. The vast majority of these foreign born community members, 865,450 in total, are not U.S. citizens. The percentage of foreign born Houston-Baytown-Sugar Land MSA community members living between 100%–149% of the federal poverty line or below 100% of the federal poverty line exceed similar percentages for U.S. born Houston-Baytown-Sugar Land MSA community members or U.S. born Texas residents. However the percentage of foreign born residents of the Houston-Baytown-Sugar Land MSA community living at or above 150% of the poverty level surpasses that of foreign born residents of Texas.

[1] This rate was calculated by averaging the 2009 County Health Fact Profile poverty rates

Prioritized Needs of Houston Methodist West Hospital Community

Priority #1: Prevention for Chronic Disease and Related Conditions

HMWH has prioritized prevention for chronic disease and related conditions based on analysis of primary and secondary sources. Chronic diseases include high prevalence of heart disease, diabetes, obesity, cancer, stroke and other health related conditions that are persistent or otherwise long lasting in its effect. [37] [38] [39] [40] [41] [42] [43]

Chronic diseases contribute to the most community resident deaths each year. Heart disease, all cancer, stroke, and chronic low respiratory disease comprise the chronic diseases with the highest mortality rates. [2] [44] [45] [46] As of the 2009 Waller County Health Fact Profile, the mortality rates for heart disease and all cancer in Waller County were significantly higher than that of the State of Texas further implicating prevention of chronic diseases in the community as a significant health need. [47] [48] Below are examples of chronic disease conditions that the community faces and their impact from a statewide and HMWH county perspective.

DIABETES/ OBESITY

According to the American Diabetes Association, it is estimated that one out of every three children born after 2000 in the United States will be directly affected by diabetes in Texas. Data released by the Texas State Data Center summarizing their diabetes projects in Texas for 2007 to 2040, found the following:

1) Adult diabetes rates have been increasing. These rates have been increasing for all ethnic groups and all ages with special emphasis placed on young adults whose diagnosed diabetes rates more than doubled between 2004 and 2007.

2) Texas is among the states with the highest incidence rates for diabetes.

3) Increasing diabetes will lower the quality of life for the Texas population. Diabetes is the 6th leading cause of death in the state of Texas.

Complications of the chronic disease diabetes can result in other serious health conditions such as heart disease, blindness, kidney failure, and lower-extremity amputations.3 Obesity is a risk factor for diabetes.

Stakeholder interviews and secondary sources point out prevention of conditions related to chronic diseases as a significant health need. According to Carole Edwards, CEO of AccessHealth, a federally qualified health center (FQHC), "obesity and chronic diseases associated with obesity, such as diabetes and hypertension, were rising health needs in the community". [49] When asked to

[2] These rankings were derived by aggregating 2009 County Health Fact Profile Mortality statistics
[3] *The State of Health* (2012).

identify rising health needs of the community, Mary Vasquez, Director at the United Way of Greater Houston, listed obesity, heart disease, and diabetes. [50] Furthermore, obesity and high blood pressure, conditions linked to many chronic disease states, are the two most reported chronic conditions among adults in the 2010 *Health of Houston Survey: a first look,* and both have higher prevalence at the Houston-Baytown-Sugar Land metropolitan statistical area (MSA) level than state level according to recent Texas Behavioral Risk Factor Surveillance System (BRFSS) reports. [51] [52] The *State of Health in Houston/Harris County 2012* reports that 34% of high school students in Houston are overweight or obese (BMI >25) and that 12% of Texas high school students are considered obese. [53] 100% of community stakeholder interviews brought up obesity as a health need in the HMWH community.

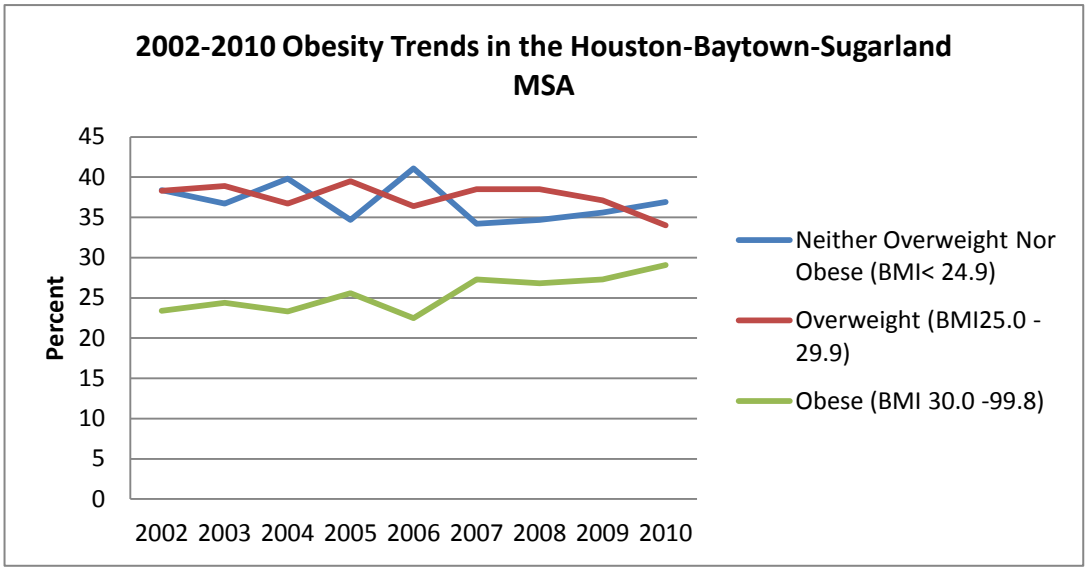


Figure 10: Obesity in the community has steadily increased in the last decade and roughly one in three Houstonians is obese. (Source: *Behavioral Risk Factor Surveillance System 2002-2010*)

STROKE/CARDIOVASCULAR DISEASE

Cardiovascular disease (CVD) and stroke are the number one and three causes of death in Texas and account for nearly three out of every ten deaths in the state according to the Texas Department of State Health Services, 2010.

Heart disease has been the leading cause of death in Texas since 1940. Heart disease includes hypertension, ischemic heart disease, arrhythmias, and congestive heart failure.

Significant disparities exist among Texans with CVD, stroke, or related risk factors. In general, there is a higher prevalence of these conditions among Texans who are older (especially those ages 65 years and older), earn a lower income, have received less education, are African American, and have multiple risk factors.

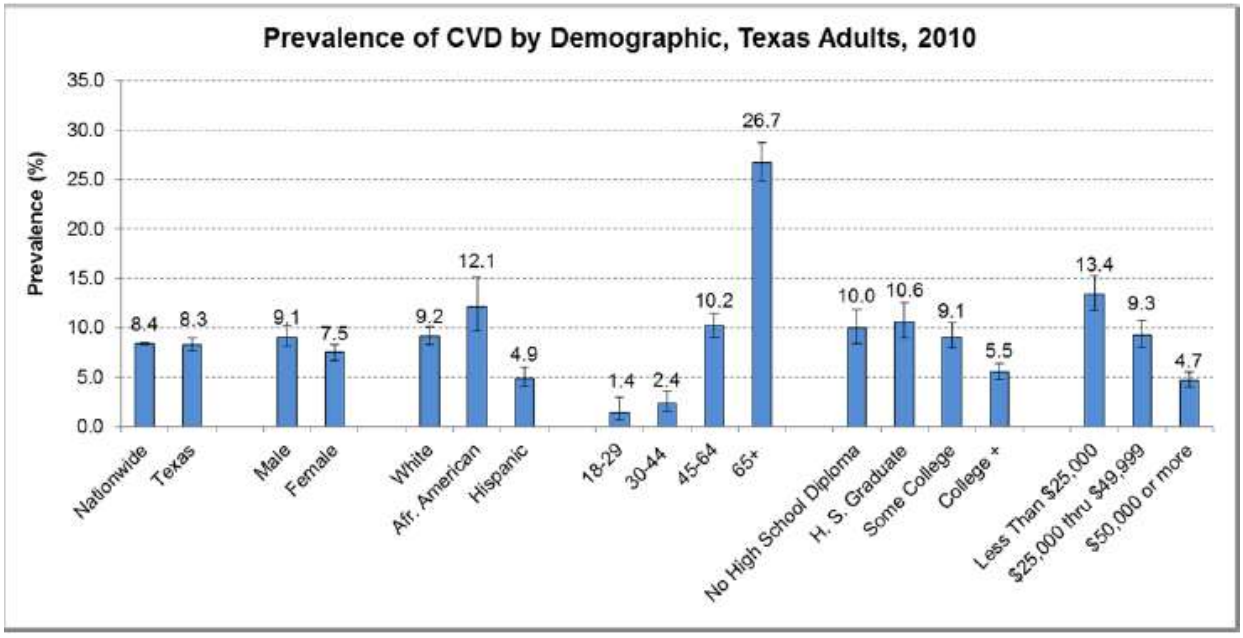


Figure 11: Prevalence of CVD by Demographics

CANCER

According to the World Health Organization (WHO), cancer is the leading cause of death worldwide with the most common cancers experienced being lung, stomach, liver, colorectal, breast and cervical.

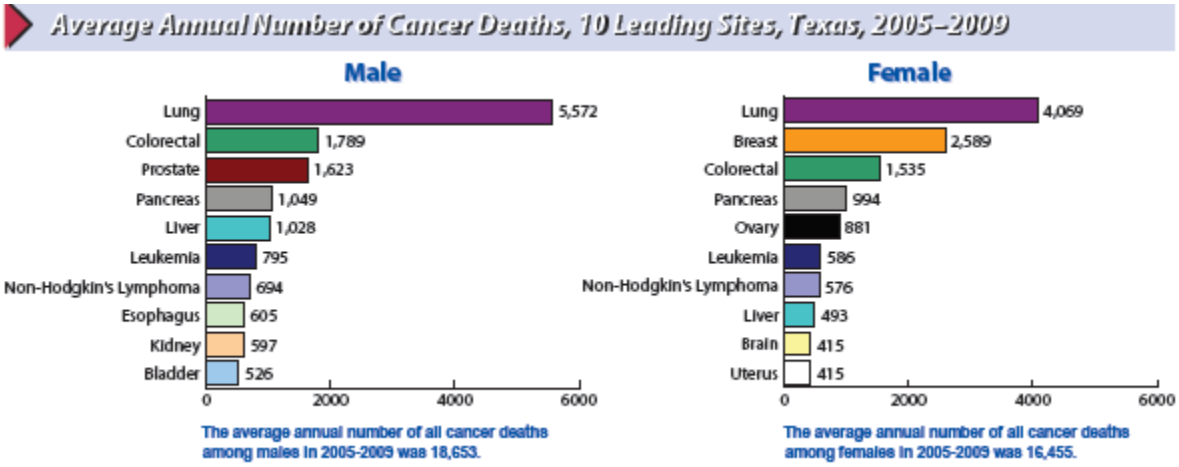


Figure 12: Cancer Epidemiology and Surveillance Branch, Texas Department of State Health Services (2005-2009/updated: 11/2012)

The Texas State Department of Health estimated that more than 110,135 Texans were newly diagnosed with cancer and 39,072 died of the disease in 2012.

With focus on prevention and treatment of the above listed chronic diseases and other conditions related to the above, HMWH is working to improve the health of its community.

Priority #2: Access to Care Improvement

Every HMWH community county is designated as a Health Professional Shortage Area for primary care, behavioral health care, and dental care, including Harris County. [54] Patients within the community experience long waits for appointments and often turn to emergency rooms for primary care and non-urgent health care. [55] Insufficient access to transportation services delays patients' access to care and encourages inappropriate utilization of emergency services. [56] The following areas of improvement have been designated as falling under the overall umbrella of barrier to access:

- High percentage of community uninsured
- Needed increase in community partner collaboration to expand services

UNINSURED COMMUNITY

The *Potential Primary Care Crisis in Texas: A County- Based Analysis* argues that access problems revolving around health care services could become exacerbated by the increase in insured persons seeking health care, the aging Baby Boomer population, the retirement of existing primary care physicians, and the avoidance of primary care by new patients.[57] This report projects the already dilapidated Texas primary care capacity to drop from 86% of the national average to approximately 80 % of the national average—the average capacity drops to 73% of the national average for low-income residents. [58]

Insurance rates and medical costs indirectly impact access to health care. [59] [60] Approximately 23.7% of the total HMWH community lives without health insurance. [4] [61] [62] [63] Of the approximately 1,150,621 uninsured persons in the HMWH community, 237,863 are under the age of 17. [5] [64] [65] [66]

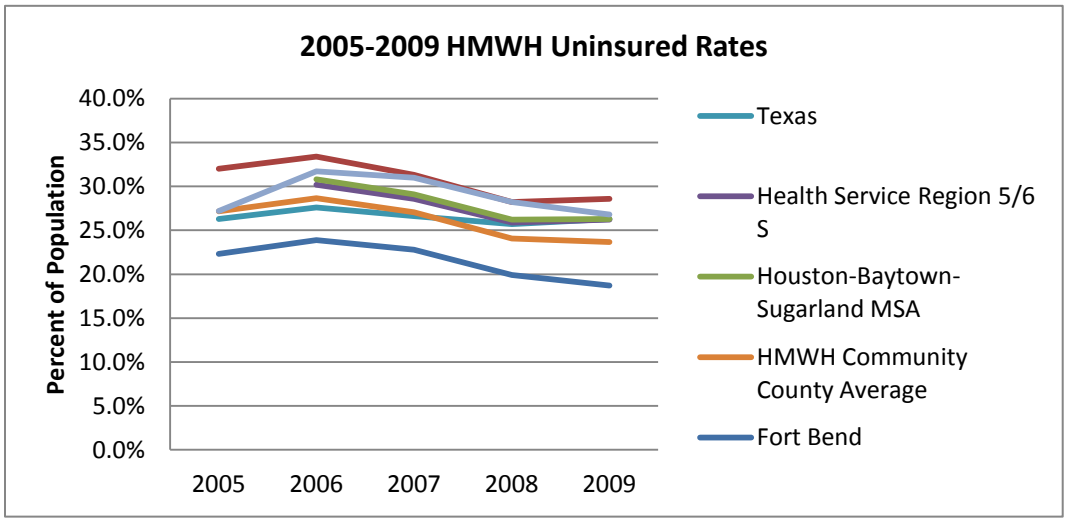


Figure 13: Percent of uninsured persons in the USA, Texas, and the HMWH community (TMHS CHNA, 2012)

[4] This percent rate was calculated by averaging the rate found in the 2009 Health Fact Profiles
[5] These totals were derived by aggregating 2009 County Health Fact Profile statistics

Harris County has the highest percent of persons between the ages 0-65 years living without insurance. [67] [68] [69] Fort Bend County has the lowest percent of persons between the ages 0-65 years living without insurance. [70] [71] [72] All community counties have decreasing percentages of uninsured peoples from 2005-2009. [73] [74] [75] The HMWH community, on average, has a lower percentage of uninsured persons between the ages 0-65 years than the larger Houston-Baytown-Sugar Land metropolitan statistical area (MSA), the Health Service Region 6/5S, and the state of Texas. [76] [77] [78] [79] [80]

FINANCIAL BARRIERS

Approximately 23% of Houstonians experience medical cost barriers with regard to accessing healthcare. [81] According to the *Health of Houston Survey* the overwhelming majority of Houstonians living without insurance cite cost (54%) or ineligibility due to working status (20%) as their primary reasons. [82] Financial barriers also impinge upon community residents' access to mental health resources. 38% of those surveyed in the *Health of Houston Survey* did not receive mental health services because they face more than one barrier to accessing mental health services—the majority of individuals reporting not seeking mental health services were inhibited by financial barriers associated to services (59%). [83] The Texas Behavioral Risk Factor Surveillance System (BRFSS) reports indicate a clear disparity in insurance rates amongst age groups, income levels, and racial/ethnic cohorts at the Houston-Baytown-Sugar Land MSA level. [84] Statistically significant differences exist between medical cost barriers for men above 18 years (19.3%) and medical cost barriers for women above 18 years (27.6%). [85] Medical cost barriers experienced also significantly vary along racial/ethnic cohorts (White: 13.7%, Black: 31.7%, Hispanic: 33.5 %). [86]

Statements made by representatives of underserved populations, minority populations, low income populations, and populations with chronic disease, when combined with current indicators, indicate significant challenges to access. When asked to elaborate on current barriers to a healthy community nearly 100% of interviewees suggested that access to primary care, specialty care, dental care, adequate pharmacy services, nutritious food, safer build environments, and transportation all contributed to healthy community and improved accessibility to these resources was currently a significant health need for the community. [87] [88] [89] [90] [91] [92] [93] [94]

LEVERAGE COMMUNITY HEALTH PARTNER COLLABORATIONS

Under the improving access to care umbrella, HMWH has identified leveraging community health partner collaborations as a necessity for advancement. Combining resources and expertise to tackle health needs within a community helps "create opportunities for impact" in terms of building a healthier community. [95]

[96] Summarized findings of the *Health Care Safety Net Key Informant Study* include a need for greater collaboration in regards to coordinated medical and behavioral care service. According to these findings, over 90% of decision-makers noted a need for increased collaboration of medical and behavioral services, such as those between safety net hospitals and clinics.

When asked about current barriers to a healthy community, Dr. Stephen Linder, an academic and public health expert with the Institute for Health Policy at the University of Texas Health Science Center School Of Public Health, indicated that organizations must work together to leverage their combined resources and expertise to generate a more significant impact on the health needs of the community because individual organizations cannot expect to independently meet large health needs such as heart disease or community wide obesity. [97]

Given the complex scope of larger health needs such as cancer or childhood obesity, opportunities for organizations to work together to improve community health exist within the HMWH community. Both Katy Caldwell, CEO of Legacy Community Health Services, and Daniel Montez, CEO of Vecino Health Centers indicated that current collaborations, such as Houston Methodist's residency programs at Vecino/Denver Harbor clinics and Legacy Community Health Services clinics, help deliver improved primary and specialty care to typically underserved areas. [98] [99] This input reflects the positive impact expanded community health partner collaborations could have within the underserved community.

Strengthening existing collaborations and building new collaborative health improvement efforts reduces the burden of care experienced by individual organizations and provides more resources directed towards meeting community need. By leveraging community partnerships, Houston Methodist looks to amplify positive impact on the health of its community.

Priority #3: Education to Decrease Health Risk Behaviors

According to the Center for Disease Control, six types of health risk behaviors contribute to the leading causes of death, disability, and social problems in the United States: (1) tobacco use; (2) unhealthy eating; (3) inadequate physical activity; (4) alcohol and other drug use; (5) sexual behaviors that may result in HIV infection, other sexually transmitted diseases (STDs), and unintended pregnancy; and (6) behaviors that contribute to unintentional injury and violence. These behaviors are often established during childhood or adolescence, persist into adulthood, and are preventable.

HMWH has prioritized improving community education and awareness about health and wellness based on analysis of the HMWH community county Health Fact Profiles, the 2011 Texas Behavioral Risk Factor Surveillance System (BRFSS) report, the 2011 Houston and Texas Youth Behavioral Risk Factor Surveillance System (YRBSS) reports, and community stakeholder interviews. These sources support education related to community health and wellness as a HMWH community health need and a key component for the other priorities listed above.

The most recent Health Fact Profiles, the Houston and Texas Behavioral Risk Factor Surveillance Systems (BRFSS), and the Texas Youth Risk Behavior Surveillance System (YRBSS) indicate a high prevalence of unhealthy lifestyle behaviors taking place in the HMWH community. Evidence includes high rates of accidents, communicable disease, smoking, substance abuse, lack of physical activity, and poor nutritional habits. [100] [101] [102] [103] [104]

ACCIDENTS

Accidents (1,520 deaths), according to the most recent Health Fact Profiles for the HMWH community, rank as a leading cause of death trailing only heart disease (5,452 reported deaths) and all cancer (5,331 reported deaths). [6] [105] [106] [107] [108]

The vast majority of Houston-Baytown-Sugar Land MSA community and state indicators related to YRBSS, though not statistically different from one another, also indicate a high prevalence of unhealthy behaviors in the HMWH community. These include rarely or never wearing a helmet while riding a bike (Houston-Baytown-Sugar Land MSA: 89.9%: Texas: 91.9%), riding with a driver who had been drinking alcohol one or more times (Houston-Baytown-Sugar Land MSA: 31.7% : Texas: 32.2%).

COMMUNICABLE DISEASES

Harris County and Waller County both report a higher number of communicable disease cases in the Health Fact Profiles when compared to the state. [109] [110] [111] The most significant contributor to the HMWH community, Harris County, for example reports elevated cases of AIDS (17.8 reported cases per 100,000), primary and secondary syphilis (8.1 reported cases per 100,000), and gonorrhea (127.8 reported cases per 100,000). [112] [113] Waller County, for example, reports a high number of cases of primary and secondary syphilis (7.7 reported cases per 100,000) and gonorrhea (128.9 reported cases per 100,000). [114] [115]

[6] DSHS Numbers and figures were derived by aggregating 2009 County Health Fact Profile Mortality statistics for community counties

SMOKING, SUBSTANCE ABUSE

HMWH community members engage in a bevy of high risk behaviors: approximately 21.3% of Houston-Baytown-Sugar Land MSA community members aged 18 and up are at risk due to any tobacco use, approximately 19.1% of Houston-Baytown-Sugar Land MSA community members aged 18 and up are at risk due to binge drinking.

LACK OF PHYSICAL ACTIVITY/POOR NUTRITIONAL HABITS

Approximately 68.4% of Houston-Baytown-Sugar Land MSA community members aged 18 and up fail to consume fruit twice a day, approximately 65.1 % of Houston-Baytown-Sugar Land MSA community members aged 18 and up are at risk of becoming overweight or obese (BMI> 25.0), approximately 26.0% Houston-Baytown-Sugar Land MSA community members aged 18 and up do not engage in physical activity during leisure time, and approximately 29.2% of Houston-Baytown-Sugar Land MSA members responded that they experience zero minutes physical activity per week. [116]

COMMUNITY EDUCATION TO EMPOWER

With the prevalence of the listed behaviors, it is important to raise awareness of the risks associated with these behaviors as well as educating the community on prevention of consequences related to lack of physical activity, substance abuse and general risky social behaviors. Also, education improvement could aid in ensuring community members are aware of options when accessing health care.

Literature and interviews also support a need for improved education initiatives and programs aimed at empowering HMWH community residents to take charge of their health and access health care at the right junctures. [117] [118] Both Shane Chen, COO at HOPE clinic, a federally qualified health center (FQHC) serving primarily underserved, low income, Asian immigrant and Hispanic families within the Houston-Baytown-Sugar Land metropolitan statistical area, and Katy Caldwell, CEO of Legacy Community Health Services, brought up deficiencies in health literacy. [119] [120]

According to Caldwell and Chen, deficient understanding of health insurance utilization exists regardless of insurance status or socioeconomic status and contributes to inefficient utilization of services by patients. [121] [122] When asked to identify current barriers to a healthy community, Mary Vasquez, Director at the United Way of Greater Houston, stated that senior community residents and residents of rural areas of the community had great difficulty navigating the health care system due to gaps in their health literacy." [123] Carole Edwards, CEO of AccessHealth echoed the need for more health education initiatives aimed at empowering community residents because "people often simply don't know what resources are available to them or how to go about accessing them".[124]

Responses in stakeholder interviews further implicated improvement of education as it relates to community health and wellness as a serious need—especially in minority populations. According to Chen and Edwards, overcoming communication and cultural barriers present significant health needs related to health education and wellness in the HMWH community due to increasing numbers of foreign born Asian and Hispanic residents. [125] In her interview, Chen stated that "even if insured, communication and cultural barriers inhibit compliance and the delivery of care to

foreign born residents of the HMWH community" and that "understanding and compliance is very low" among foreign born community members due to cultural norms such customs or traditional methods. [126] Caldwell indicated that education was responsible for significant breakdowns in the continuum of care within the community

These findings reflect a need for better community education as it pertains to making healthy choices, accessing health care resources, the impact of a healthy lifestyle, and the cost of unhealthy lifestyles. By improving education related to community health and wellness Houston Methodist hopes to encourage a healthier and happier HMWH community.

Methods used to conduct this assessment

The Community Benefits Department (CBD) at Houston Methodist (HM) designed the CHNA to understand the demographic and health statuses of HM communities, to develop a set of health priorities, and to support the development of an implementation plan designed around addressing priorities identified in this CHNA. The CBD at HM conducted this CHNA from June to August 2013

Methods Used to Define the Community

Communities were derived using hospital specific primary service area (PSA) data. This PSA data was initially collected by Zach Diersen, Senior Marketing Analyst with HM, using the Thompson Reuters MarketPlanner Plus platform. Analysis and mapping of PSA data was conducted and published as *2012 Market Analysis* reports for each HM hospital. PSA maps were taken from the *2012 Market Analysis* reports for each HM System hospital and used to determine which counties corresponded with each HM hospitals. Counties were determined for each hospital based on overlap of the PSA with the county. The relevant counties were then designated as HM System hospital communities for the purpose of this community health needs assessment. Relevant facts and circumstances were compiled, such as county location, county size, county population, county racial/ethnic statistics, county age distribution, county average household income, county poverty statistics and *County Health Rankings*.

HOUSTON METHODIST WEST COMMUNITIES

Houston Methodist West Hospital serves three of the ten counties of the Houston-Baytown-Sugar Land metropolitan statistical area (MSA). The Community Benefits Department at Houston Methodist designated the combination of Fort Bend County, Harris County, and Waller County as the community for Houston Methodist West Hospital based on overlap.

Methods Used to Identify Needs Based on Current Research

Information was collected and compiled on a national, state, region, county, metropolitan statistical area, city, and super neighborhood level data that aligned with the communities listed above. These resources provided a compendium of recent data points and findings used to identify health needs in communities served by Houston Methodist. Analysis was conducted by reviewing the data and aligning the findings of secondary sources.

Listed below are examples of sources used in this report:

- **State sources used:**
  - The Health Status of Texas 2011
  - Health Fact Profiles
  - The Texas Behavioral Risk Factor Surveillance System (BRFSS)
  - The Texas Youth Risk Behavior Surveillance System (YRBSS)
  - Kaiser Family Foundation State Health Facts: Texas

- **Regional sources used:**

  - Texas Health Care Transformation and Quality Improvement Program Regional Health Care Partnership (RHP) Plan for RHP 2
  - Texas Health Care Transformation and Quality Improvement Program Regional Health Care Partnership (RHP) Plan for RHP 3
  - Region 3 Goals and Community Needs List

- **County sources used:**

  - County Health Rankings provided by Robert Woods Johnson Foundation
  - County Health Assessments conducted within the last five years
  - The State of Health 2012 in Houston/Harris County

- **Houston and Houston- Baytown- Sugar Land MSA sources**

  - 2010 U.S. Census and 2010 American Community Survey
  - Health of Houston Report 2010: A First Look
  - Kinder Houston Area Survey

Data analysis and reviews of relevant existing reports were utilized to identify evidence of community health needs. For the purpose of the CHNA, needs were defined as those that directly contributed to high mortality rates, those that contributed to leading chronic diseases, or those that showed clearly rising trends or disparities within the areas that HM community hospitals serve. These needs were then discussed during the community engagement process to gain more perspective from those individuals that either have expertise in public health or are community stakeholders.

Engaging the Broad Interests of the Community

Secondary data sources were analyzed to identify persons who represent the broad interests of the community, including those with special knowledge of or expertise in public health. These key stakeholders were then interviewed for their opinions and expertise.

The following three sections describe how input from persons with special knowledge or expertise in public health, state and local health departments, and leaders or representatives for underserved, minority, low income, populations or populations with chronic disease was accounted for during this CHNA process

1.0 Accounting for the Input of Persons with Special Knowledge or Expertise in Public Health

Meetings were held between representatives of the CBD and persons with special knowledge of public health and the community from June to August 2013. Meetings were conducted in person or by phone. Persons with special knowledge of public health and the HMWH community included an academic from The University of Texas School at Austin School of Biological Sciences, academics from the Institute for Health Policy at The University of Texas Health Science Center School Public Health, an academic from the Kinder Institute for Urban Research at Rice University, representatives from the Harris County Health Care Alliance, a representative from the Harris County Medical Society, representatives from the United Way and county affiliates, a representative from the Houston Methodist department of Care Management and Social Work, and a representative from Houston Methodist Hospital Operating Division.

Through these meetings, recommendations were received from persons representing the broad interests of the community, requested and received recent datasets and publications, received consultation for methodologies used in this community health needs assessment, and identified potential health needs currently not being addressed in the HMWH community.

2.0 Organizational Input

During the course of engaging the broad interests of the community, representatives from state, regional, and city health departments as well as organizations involved in health care were engaged. Meetings included representatives from the Department of State Health Services Center for Health Statistics, the Health Service Region 6/5 South office, Regional Health Partnership Plan Regions 2, and the Houston Department of Health and Human Services. During these meetings, recent datasets, publications and representatives' perspectives on community health needs were received.

3.0 Community Leaders and Representatives

Input from community leaders and representatives of medically underserved populations, low income populations, minority populations, and populations with chronic disease needs was also collected through phone interviews.

Participants were asked the following questions:

1. What community does your organization serve/represent?
2. What does a healthy community mean for your community?
3. What are current barriers to a healthy community in your community?
4. What are the top three health needs of the community you serve?
5. Are you experiencing any significant change in client population?
6. Is there a health need in your community that's not self-evident?

Community leader input was included in the analysis of primary and secondary data in order to identify community needs and barriers, as well as establishing community priorities.

Prioritizing Community Health Needs

Stakeholder interviews supported the impetus that HMWH focus on serving the broader needs of each community rather than a single specific health need. The priorities are listed and described in the previous sections of this report.

Priorities were rank-ordered based on the total raw score from a structured matrix. Priorities were placed in the middle of a four quadrant matrix and assigned a value for each quadrant of the matrix. These values range from a 1 – 4 for each of the criteria.

Once each quadrant had been assigned a value, a total raw priority score was calculated by adding each quadrant score together. Needs were prioritized based on total raw score of the matrix.

- Mortality rate
- Existing Programs and interventions
- Opportunity for impact
- Alignment with core business functions

Conclusion

The evolution of health care centers on the strong relationships developed between health systems and their surrounding communities. Effective community programs can not only provide care but also support enhanced education and infrastructure that can prevent the ailments unique to the Greater Houston area.

Through this community assessment, Houston Methodist and its community hospitals are able to collectively understand the community's perception of health needs and prioritize them appropriately. With focus turned towards providing access to care to the underserved Houston community, providing education on chronic disease prevention and treatment as well as continuing to leverage our partnerships with local health providers, Houston Methodist is dedicated to a healthier community.

Houston Methodist and its community hospitals will develop an implementation plan to address the priorities identified in this report as we continue to place an emphasis on a healthier community.

Appendix

- **List of Persons with special knowledge of or expertise in public health consulted during this CHNA**
  - Dr. Richard Taylor- Public Health, Global Health, and Epidemiology Professor at The University of Texas at Austin School of Biological Sciences
  - Dr. Stephen Linder- Director of the Institute for Health Policy at the University of Texas Health Science Center School of Public Health
  - Dr. Justin Denney – Associate Director of the Kinder Institute for Urban Studies at Rice University
  - Margaret Sokol- Manager, Care Management and Social Work Department at Houston Methodist
  - Greg Bernica- Vice President of the Harris County Medical Society
  - Dr. Katherine Walsh- Vice President, Operations Department at Houston Methodist
  - Mayor Annise Parker- Mayor, City of Houston

- **List of State, Local, or City Health Departments**
  - State Department of Health Services – Rebecca Wood, Center for Health Statistics Community Assessment Texas Dept. of State Health Services
  - Regional Health Care Partnership 3- Nicole Lievsay is the Director of Operations for 1115 Waiver
  - Brazoria County Health and Human Services Department – Cathy Sbrusch, Director
  - Chambers County Health and Human Services Department – Cami Smith, Director
  - Fort Bend County Department of Health and Human Services- Kaye Reynolds, Deputy Director
  - Houston Health and Human Services Department – Dr. Beverly Nichols, Senior Staff Analyst, with HHHDS' Office of Health Planning, Evaluation and Program Development

- **"Leaders" and "Representatives of medically underserved populations, indigent populations, populations with chronic diseases**

  Leadership at Area Federally Qualified Health Centers

  - Carol Edwards – CEO of AccessHealth
  - Daniel Montez – CEO of Vecino Health Centers
  - Katy Caldwell – CEO of Legacy Community Health Services
  - Shane Chen – COO of HOPE Clinic

Leadership at Safe Net Clinics

- Paule Anne Lewis – Executive Director at San Jose Clinic

Leadership at area other organizations

- Frances Isbell, MA – CEO at Health Care For the Homeless — Houston
- Mary Vasquez – Director of the United Way of Greater Houston
- Cissy Yoes –Director at University of Texas Medical Branch

Criteria Quadrant Value

- Mortality and Morbidity Rates
- Existing Programs and Interventions: 4 programs or initiatives have been set up and
- Opportunity for impact
- Alignment with core business functions

Information Gaps

Information utilized in this CHNA originates at a variety of levels, not all of which involve the same scope or year. In executing this CHNA, the Community Benefits Department sought to accumulate the most current publications related to the community defined above but recognized gaps would exist based on availability of current data. Please note that efforts were made to compensate for information gaps (absence of current data, unavailable data, etc.) during the interviews conducted for this CHNA. The following identify some of the information gaps within health data section of this report:

- Some health indicators may only be available at a county level
- Data from the Texas Department of State Health Services has only published the "County Health Facts Profiles" through 2009 as of June 2013.
- The Texas Behavioral Risk Factor Surveillance System (BRFSS) provides reports on a variety of health behaviors or conditions by year (2002 – 2010). This data is available at the health service region, metropolitan statistical area (MSA) and state level. County level data is unavailable through this query; therefore MSA level data was used in this assessment.

- The Texas Youth Behavior Risk Factor Surveillance System (YRBFSS) data was only available at a state or a school district level; therefore Houston Independent School District level data was used in this assessment.
- Stakeholder input originates from face to face or phone interviews with leadership of community health organizations operating in the HM community. This information is anecdotal in nature. Furthermore this information may be filtered because while these organizations represent their respective communities (minority communities, the underserved, the uninsured, indigent, etc.), details may be lost in translation.

Project Safety Net: Community Assets

The following resources are available to address the health needs identified in this CHNA. These resources were listed by Project Safety Net. [127]

Access Health -Missouri City
307 Texas Parkway, Suite 100
Missouri City, TX 77489
281-969-1800
Clinic Type: Federally Qualified Health

Access Health-Richmond
400 Austin St.
Richmond, TX 77469
281-342-4530
Clinic Type: Federally Qualified Health Center
Clinic last updated 6/5/2013

Acres Home Health Center
818 Ringold
Houston, TX 77088
281-260-3300
Clinic Type: Hospital District
Clinic last updated 7/12/2013

Airline Children's Clinic
5808 Airline Drive
Houston, TX 77076
713-695-4013
Clinic Type: Federally Qualified Health Center
Clinic last updated 8/30/2012

Aldine Health Center
4755 Aldine Mail Route
Houston, TX 77039
281-985-7600
Clinic Type: Hospital District
Clinic last updated 6/6/2012

Almatha Clark Taylor SBC at Cloverleaf Elementary
13940 Bonham Street
Houston, TX 77015
713-330-8904
Clinic Type: School-Based
Clinic last updated 7/3/2012

American Cancer Society - Gulf Coast Region
6301 Richmond Avenue
Houston, TX 77057
713-266-2877
Clinic Type: Non-Profit Provider
Clinic last updated 6/5/2012

Antoine Health Clinic
5815 Antoine, Suite A
Houston, TX 77091
713-602-3300
Clinic Type: County Clinic
Clinic last updated 8/30/2012

Antoine WIC Center
5815 Antoine
Houston, TX 77091
713-407-5800
Clinic Type: County Clinic
Clinic last updated 7/5/2012

Baylor College of Medicine
One Baylor Plaza
Houston, TX 77030
713-798-4951
Clinic Type: Non-Profit Hospital
Clinic last updated 6/5/2012

Baylor Teen Health Clinic - Ben Taub Hospital
1504 Taub Loop
Houston, TX 77030

713-873-3601
Clinic Type: Non-Profit Provider
Clinic last updated 8/30/2012

Baylor Teen Health Clinic - Cavalcade
3815 Cavalcade
Houston, TX 77026
713-673-1655
Clinic Type: Non-Profit Provider
Clinic last updated 6/3/2013

Baylor Teen Health Clinic - Chavez High School
8501 Howard
Houston, TX 77017
713-495-6971
Clinic Type: Non-Profit Provider
Clinic last updated 8/30/2012

Baylor Teen Health Clinic - Cullen
5737 Cullen Blvd.
Houston, TX 77021
713-440-7313
Clinic Type: Non-Profit Provider
Clinic last updated 8/30/2012

Baylor Teen Health Clinic - Lawn
8111 Lawn
Houston, TX 77088
281-847-9970
Clinic Type: Non-Profit Provider
Clinic last updated 5/28/2013

Baylor Teen Health Clinic - LBJ Hospital
5656 Kelley
Houston, TX 77026
713-566-5612
Clinic Type: Non-Profit Provider
Clinic last updated 8/30/2012

Baylor Teen Health Clinic - Lee High School
6529 Beverly Hill Lane
Houston, TX 77057
713-787-1756
Clinic Type: Non-Profit Provider
Clinic last updated 8/30/2012

Bayside Clinic
621 S. Ross Sterling (FM 563)
Anahuac, TX 77514
409-267-4126
Clinic Type: Federally Qualified Health Center
Clinic last updated 2/25/2013

Baytown Health Center
1602 Garth Road
Baytown, TX 77520
281-837-2700
Clinic Type: Hospital District
Clinic last updated 6/21/2012

Baytown Health Clinic
1000 Lee Drive
Baytown, TX 77520
281-427-5195
Clinic Type: County Clinic
Clinic last updated 8/30/2012

Baytown WIC Center
1000 Lee Dr.
Baytown, TX 77520
281-427-7656
Clinic Type: County Clinic
Clinic last updated 6/22/2011

Bear Creek WIC Center
16233 Clay Rd.
Houston, TX 77084
713-407-5800
Clinic Type: County Clinic
Clinic last updated 6/22/2011

Bellville General Hospital
44 N. Cummings
Bellville, TX 77418
979-413-7400

Clinic Type: Non-Profit Hospital
Clinic last updated 9/10/2012

Ben Taub General Hospital
1504 Taub Loop
Houston, TX 77030
713-873-2000
Clinic Type: Hospital District
Clinic last updated 3/1/2013

Bering Omega Dental Clinic
1427 Hawthorne Street
Houston, TX 77006
713-341-3790
Clinic Type: Non-Profit Provider
Clinic last updated 6/21/2012

Brazosport Medical Center
905 North Gulf Boulevard
Freeport, TX 77541
979-239-1633
Clinic Type: Non-Profit Provider
Clinic last updated 8/8/2012

CanCare, Inc.
9575 Katy Freeway, Suite 428
Houston, TX 77024
713-461-0028
Clinic Type: Non-Profit Provider
Clinic last updated 7/19/2012

Casa De Amigos Health Center
1615 N. Main Street
Houston, TX 77009
713-222-2272
Clinic Type: Hospital District
Clinic last updated 6/5/2012

Cathedral Clinic-Health Care for the Homeless-Houston
1212 Prairie
Houston, TX 77002
713-220-9730
Clinic Type: Federally Qualified Health Center
Clinic last updated 6/20/2012

Central Care Community Health Center - Acres Home
1102-A Pinemont
Houston, TX 77018
713-734-4580
Clinic Type: Federally Qualified Health Center
Clinic last updated 3/29/2013

Central Care Community Health Center - MLK
8610 Martin Luther King Jr. Blvd.
Houston, TX 77033
713-734-4580
Clinic Type: Federally Qualified Health Center
Clinic last updated 2/21/2013

Central Care Community Health Center - Riverside -
3315 Delano St.
Houston, TX 77004
713-831-9663
Clinic Type: Federally Qualified Health Center
Clinic last updated 3/29/2013

Central Care Community Health Center at Acres Home
Houston, TX 77018
281-822-0900
Clinic Type: Federally Qualified Health Center
Clinic last updated 3/29/2013

Christ Clinic of Katy
5504 First Street
Katy, TX 77493
281-391-0190
Clinic Type: Non-Profit Provider
Clinic last updated 6/27/2013

CHRISTUS Point of Light Clinic
3828 Hughes Court, Suite 207
Dickinson, TX 77539
281-523-3500
Clinic Type: Non-Profit Provider
Clinic last updated 6/5/2012

CHRISTUS St. Mary's Clinic
2120 S. Wayside, Suite B
Houston , TX 77023
713-803-1840
Clinic Type: Non-Profit Provider
Clinic last updated 3/29/2013

Coastal Health & Wellness Galveston
4700 Broadway
Galveston, TX 77550
409-763-7200
Clinic Type: Federally Qualified Health Center
Clinic last updated 2/25/2013

Coastal Health & Wellness Texas City
9850 C Emmett Lowry Expressway
Texas City, TX 77590
409-938-2234
Clinic Type: Federally Qualified Health Center
Clinic last updated 3/26/2013

Conroe Regional Medical Center
504 Medical Blvd
Conroe, TX 77304
936-525-3900
Clinic Type: Non-Profit Hospital
Clinic last updated 6/5/2012

Decker WIC Center
4128 Decker Dr.
Baytown, TX 77521
713-407-5800
Clinic Type: County Clinic
Clinic last updated 6/22/2011

Deepwater School Based Clinic
305 Glenmore Drive
Pasadena, TX 77503
832-668-8380
Clinic Type: School-Based
Clinic last updated 7/3/2012

Denver Harbor Clinic Family Clinic
424 Hahlo
Houston, TX 77020
713-674-3326
Clinic Type: Federally Qualified Health Center
Clinic last updated 4/19/2013

EA Squatty Lyons Health Center
1712 First St.
Humble, TX 77338
281-446-4139
Clinic Type: Hospital District
Clinic last updated 10/9/2012

El Centro de Corazón - Eastwood Health Center
412 Telephone Rd.
Houston, TX 77023
713-660-1880
Clinic Type: Federally Qualified Health Center
Clinic last updated 3/29/2013

El Centro de Corazón - John S. Dunn Clinic
7635 Canal St.
Houston, TX 77012
713-660-1880
Clinic Type: Federally Qualified Health Center
Clinic last updated 3/27/2013

El Centro de Corazón - Magnolia Clinic
7037 Capitol St.
Houston, TX 77011

713-660-1880
Clinic Type: Federally Qualified Health Center
Clinic last updated 3/29/2013

El Centro de Corazon- Southeast Health Center
5901 Long Dr. Ste, 500
Houston, TX 77087
713-660-1880
Clinic Type: Federally Qualified Health Center
Clinic last updated 3/29/2013

El Franco Lee Health Center
8901 Boone Road
Houston, TX 77099
281-454-0500
Clinic Type: Hospital District
Clinic last updated 6/6/2012

Emerald Plaza WIC Center
11509 Veterans Memorial Dr.
Houston, TX 77067
713-407-5800
Clinic Type: County Clinic
Clinic last updated 6/22/2011

Galveston County Health District
9850-B Emmett F. Lowry Expressway
Texas City, TX 77591
409-938-2291
Clinic Type: County Clinic
Clinic last updated 3/26/2013

Good Neighbor Health Care Center/ 4th Ward Clinic
190 Heights Blvd.
Houston, TX 77007
713-529-3597
Clinic Type: Federally Qualified Health Center
Clinic last updated 3/12/2013

Good Neighbor-North
8504 Schuller Road
Houston, TX 77093
713-387-7171
Clinic Type: Federally Qualified Health Center
Clinic last updated 3/29/2013

Goose Creek School Based Clinic at San Jacinto Elem
2706 Kentucky Street
Baytown, TX 77520
281-420-1351
Clinic Type: School-Based
Clinic last updated 7/3/2012

Grimes County Community Health Center
1905 Dove Crossing
Navasota, TX 77868
936-825-0000
Clinic Type: Federally Qualified Health Center
Clinic last updated 2/25/2013

Gulfgate Health Center - HCHD
7550 Office City Drive
Houston, TX 77012
713-495-3700
Clinic Type: Hospital District
Clinic last updated 6/27/2012

Harris County Hospital District Dental Center
5230 Griggs Rd.
Houston, TX 77021
713-757-0572
Clinic Type: Hospital District
Clinic last updated 6/26/2012

HCHD-HCHP: Salvation Army Adult Rehabilitation Center
2118 Washington Avenue

Houston, TX 77007
713-869-3551
Clinic Type: Federally Qualified Health Center
Clinic last updated 8/30/2012

HCHD-HCHP: Salvation Army Family Residence
1603 McGowen
Houston, TX 77004
713-650-6530
Clinic Type: Federally Qualified Health Center
Clinic last updated 8/30/2012

HCHD-HCHP: Salvation Army Mens' Shelter
2407 North Main
Houston, TX 77009
713-224-2875
Clinic Type: Federally Qualified Health Center
Clinic last updated 7/9/2012

HCHD-HCHP: Star of Hope Mission Shelter
1811 Ruiz
Houston, TX 77002
713-227-8900
Clinic Type: Federally Qualified Health Center
Clinic last updated 7/9/2012

HCHD-HCHP: Star of Hope Women & Family Shelter
419 Dowling
Houston, TX 77003
713-222-2220
Clinic Type: Federally Qualified Health Center
Clinic last updated 6/6/2013

Health Center - Southeast Texas (Cleveland)
401 E. Crockett Street, Suite A
Cleveland, TX 77327
281-592-2224
Clinic Type: Federally Qualified Health Center
Clinic last updated 8/6/2012

Health Center - Southeast Texas (Shepherd)
1651 South Byrd Avenue
Shepherd, TX 77371
936-628-1100
Clinic Type: Federally Qualified Health Center
Clinic last updated 7/25/2012

Health Care for the Homeless - Houston
2505 Fannin St.
Houston, TX 77002
713-276-3073
Clinic Type: Federally Qualified Health Center
Clinic last updated 6/6/2013

HOPE Clinic
7001 Corporate Drive
Houston, TX 77036
713-773-0803
Clinic Type: Federally Qualified Health Center
Clinic last updated 4/19/2013

Houston Area Community Services, Inc.
2150 West 18th Street
Houston, TX 77008
713-426-0027
Clinic Type: Federally Qualified Health Center
Clinic last updated 4/5/2013

Humble Health Clinic
1730 Humble Place Drive
Humble, TX 77338
281-446-4222

Clinic Type: County Clinic
Clinic last updated 8/30/2012

Humble WIC Center
8950 Will Clayton Pkwy.
Humble, TX 77338
713-407-5800
Clinic Type: County Clinic
Clinic last updated 6/22/2011

Ibn Sina Community Clinic, SouthWest Hospital

11226 S. Wilcrest Drive
Houston, TX 77099
281-977-7462
Clinic Type: Non-Profit Provider
Clinic last updated 7/1/2013

Ibn Sina Community Clinic, Clear Lake
15132 Old Galveston Road
Houston, TX 77598
281-990-7462
Clinic Type: Non-Profit Provider
Clinic last updated 6/27/2013

Interfaith Community Clinic
101 Pine Manor Drive
Oak Ridge North, TX 77385
281-364-7889
Clinic Type: Non-Profit Provider
Clinic last updated 6/6/2013

La Nueva Casa de Amigos Health Center
1809 North Main St
Houston , TX 77009
713-547-8000
Clinic Type: City Clinic
Clinic last updated 2/28/2013

LaPorte Health Clinic
1009 South Broadway
LaPorte, TX 77571
281-471-4202
Clinic Type: County Clinic
Clinic last updated 8/30/2012

Legacy Community Health Services - Mapleridge
6550 Mapleridge St.
Houston, TX 77081
713-779-7200
Clinic Type: Federally Qualified Health Center
Clinic last updated 3/29/2013

Legacy Community Health Services @ Lyons Avenue
5602 Lyons Avenue
Houston, TX 77020
713-671-3041
Clinic Type: Federally Qualified Health Center
Clinic last updated 2/25/2013

Legacy Community Health Services-Baker Ripley
6500 Rookin, Building B, Suite 200
Houston, TX 77074
713-351-7350
Clinic Type: Federally Qualified Health Center
Clinic last updated 3/29/2013

Legacy Community Health Services-Southwest Clinic
6441 High Star
Houston, TX 77074
713-779-6400
Clinic Type: Federally Qualified Health Center

Legacy Montrose Clinic
1415 California Street
Houston, TX 77006
713-830-3000
Clinic Type: Federally Qualified Health

Center
Clinic last updated 4/24/2013

Lesbian Health Initiative of Houston, Inc.
401 Branard
Houston, TX 77006
713-426-3356
Clinic Type: Non-Profit Provider
Clinic last updated 4/22/2013

Lone Star Family Health Center
605 South Conroe Medical Drive
Conroe, TX 77304
936-539-4004
Clinic Type: Federally Qualified Health Center
Clinic last updated 6/6/2013

Magnolia Health Center
7037 Capitol St.
Houston, TX 77011
713-928-9800
Clinic Type: City Clinic
Clinic last updated 8/30/2012

Martin Luther King Jr. Health Center
3550 Swingle Road
Houston, TX 77047
713-547-1000
Clinic Type: Hospital District
Clinic last updated 6/7/2012

Matagorda Episcopal Health Outreach Program (MEHOP)
101 Avenue F, North
Bay City, TX 77414
979-245-2008
Clinic Type: Federally Qualified Health Center
Clinic last updated 3/4/2013

MD Anderson Cancer Center
1515 Holcombe
Houston, TX 77030
877-632-6789
Clinic Type: Non-Profit Hospital
Clinic last updated 10/10/2012

MD Anderson Cancer Center - Katy
19770 Kingsland Blvd
Houston, TX 77094
713-563-9600
Clinic Type: Non-Profit Hospital
Clinic last updated 6/7/2012

MD Anderson Cancer Center - Sugar Land
1327 Lake Pointe Parkway
Sugar Land, TX 77478
281-566-1800
Clinic Type: Non-Profit Hospital
Clinic last updated 6/7/2012

Memorial Hermann Centers for Schools - Jane Long
6501 Bellaire Blvd.
Houston, TX 77074
713-777-0481
Clinic Type: School-Based
Clinic last updated 8/30/2012

Memorial Hermann Health Centers for Schools--Hogg
1100 Merrill Street
Houston, TX 77009
713-864-7614
Clinic Type: School-Based
Clinic last updated 8/30/2012

Memorial Hermann Health Centers for Schools-Lamar
1002 E. Stadium Drive
Rosenberg, TX 77471
281-762-8383
Clinic Type: School-Based
Clinic last updated 8/20/2012

Memorial Hermann Health Centers for Schools-Terry
5500 Avenue N
Rosenberg, TX 77471
281-238-0852
Clinic Type: Non-Profit Provider
Clinic last updated 8/16/2012

Memorial Hermann Health Centers for Schools-WAVE
1500 Main St.
South Houston, TX 77587
713-946-7461
Clinic Type: School-Based
Clinic last updated 8/30/2012

Memorial Hermann Health Cntrs for Schools-Burbank
315 Berry Road
Houston, TX 77022
713-742-8158
Clinic Type: School-Based
Clinic last updated 8/30/2012

Memorial Hermann Mobile Dental Program
9301 S.W FRWY
Houston, TX 77074
713-249-4838
Clinic Type: School-Based
Clinic last updated 6/22/2011

Memorial Hermann Northeast
18960 Memorial North
Humble, TX 77338
281-540-7905
Clinic Type: Non-Profit Hospital
Clinic last updated 8/6/2012

Memorial Hermann Southeast
11800 Astoria Blvd
Houston, TX 77089
281-929-6100
Clinic Type: Non-Profit Hospital
Clinic last updated 10/10/2012

Memorial Hermann The Woodlands Hospital
9250 Pinecroft Dr.
The Woodlands, TX 77380
281-364-2300
Clinic Type: Non-Profit Hospital
Clinic last updated 6/7/2012

Methodist West Hospital Hospital
18400 Katy Freeway
Houston, TX 77094
832-522-2873
Clinic Type: Non-Profit Hospital
Clinic last updated 3/28/2013

Monica Lamb Wellness Foundation
5103 Yellowstone
Houston, TX 77021
832-352-5702
Clinic Type: Non-Profit Provider
Clinic last updated 6/7/2012

Montrose Counseling Center
401 Branard St.
Houston, TX 77006
713-529-0037
Clinic Type: Non-Profit Provider
Clinic last updated 6/7/2012

Neighborhood Health Center - Northwest
1800 W. 26th Street, Suite 103
Houston, TX 77008
713-957-8400
Clinic Type: Non-Profit Provider
Clinic last updated 10/9/2012

Neighborhood Health Center - Southwest
7600 Beechnut, Suite A

Houston, TX 77074
713-456-4280
Clinic Type: Non-Profit Provider
Clinic last updated 8/30/2012

Neighborhood Health Center Northeast
9813 Memorial Blvd, Suite H
Humble, TX 77338
281-319-8500
Clinic Type: Non-Profit Provider
Clinic last updated 8/30/2012

Northside Health Center
8504 Schuller Road
Houston, TX 77093
713-696-5900
Clinic Type: City Clinic
Clinic last updated 9/24/2012

Northwest Assistance Ministries' Children's Clinic
15555 Kuykendahl Road
Houston, TX 77090
281-885-4630
Clinic Type: Non-Profit Provider
Clinic last updated 8/30/2012

Northwest Health Center
1100 W 34th Street
Houston, TX 77018
713-861-3939
Clinic Type: Hospital District
Clinic last updated 6/7/2012

Pasadena Health Center
908 Southmore
Pasadena, TX 77502
713-554-1091
Clinic Type: Federally Qualified Health Center
Clinic last updated 2/25/2013

Pasadena WIC Center
524 Pasadena Blvd. Suite 1005
Pasadena, TX 77506
713-407-5800
Clinic Type: County Clinic
Clinic last updated 6/22/2011

Patrick Henry School Based Clinic
10702 East Hardy
Houston, TX 77093
713-696-2731
Clinic Type: School-Based
Clinic last updated 7/3/2012

Pediatric & Adolescent Health Center-Bear Creek
5870 Highway 6, Ste. 108
Houston , TX 77084
713-873-6860
Clinic Type: Hospital District
Clinic last updated 7/3/2012

Pediatric & Adolescent Health Center-Pasadena
3925 Fairmont Parkway
Pasadena, TX 77504
713-873-6300
Clinic Type: Hospital District
Clinic last updated 7/3/2012

People's Health Center
6630 Demoss
Houston, TX 77074
713-272-2600
Clinic Type: Hospital District
Clinic last updated 7/20/2012

Planned Parenthood Dickinson Health Center
3315 Gulf Freeway
Dickinson , TX 77539
713-514-1105
Clinic Type: Non-Profit Provider
Clinic last updated 8/14/2012

Planned Parenthood FM1960 Health Center
3995 FM1960 West
Houston, TX 77068
281-587-8082
Clinic Type: Non-Profit Provider
Clinic last updated 8/30/2012

Planned Parenthood Greenspoint Health Center
11834 Airline Dr.
Houston, TX 77037
713-514-1106
Clinic Type: Non-Profit Provider
Clinic last updated 8/30/2012

Planned Parenthood Northwest Health Center
13169 Northwest Freeway, Suite115
Houston, TX 77040
713-514-1107
Clinic Type: Non-Profit Provider
Clinic last updated 8/30/2012

Planned Parenthood Prevention Park
4600 Gulf Freeway
Houston, TX 77023
713-522-3976
Clinic Type: Non-Profit Provider
Clinic last updated 8/30/2012

Planned Parenthood Rosenberg Health Center
4203 Avenue H, #7
Rosenberg, TX 77471
713-514-1104
Clinic Type: Non-Profit Provider
Clinic last updated 8/14/2012

Planned Parenthood Southwest Health Center
5800 Bellaire Blvd
Houston, TX 77081
713-541-5372
Clinic Type: Non-Profit Provider
Clinic last updated 8/30/2012

Planned Parenthood Stafford Health Center
3727 Greenbriar, Suite 118
Stafford, TX 77477
713-514-1100
Clinic Type: Non-Profit Provider
Clinic last updated 8/14/2012

Quentin Mease Community Hospital
3601 N. MacGregor Way
Houston, TX 77004
713-873-3700
Clinic Type: Hospital District
Clinic last updated 6/7/2012

Red Oak WIC Center
830 FM 1960 West
Houston, TX 77090
713-407-5800
Clinic Type: County Clinic
Clinic last updated 6/22/2011

Riverside Health Center
3315 Delano St.
Houston, TX 77004
713-831-9600
Clinic Type: City Clinic
Clinic last updated 8/30/2012

Robert Carrasco School Based Clinic
1115 Noble
Houston, TX 77009
713-226-2632
Clinic Type: School-Based
Clinic last updated 7/3/2012

San Jacinto Methodist Hospital
4401 Garth Rd
Baytown, TX 77521
281-420-8600

Clinic Type: Non-Profit Hospital
Clinic last updated 6/7/2012

San Jose Clinic
2615 Fannin
Houston, TX 77002
713-228-9411
Clinic Type: Non-Profit Provider
Clinic last updated 6/27/2013

Scarsdale WIC Center
10851 Scarsdale Blvd.
Houston, TX 77089
713-407-5800
Clinic Type: County Clinic
Clinic last updated 6/22/2011

Settegast Health Center
9105 North Wayside
Houston, TX 77028
713-636-7192
Clinic Type: Hospital District
Clinic last updated 9/5/2012

Shalom Health Clinic
8121 Broadway Ste 103
Houston, TX 77061
713-900-2750
Clinic Type: Non-Profit Provider
Clinic last updated 6/27/2013

Sharpstown Health Center
6201 Bonhomme Suite 300 South
Houston, TX 77036
713-780-5600
Clinic Type: City Clinic
Clinic last updated 2/28/2013

Shaver WIC Center
152 Fairmont Pkwy.
Pasadena, TX 77504
713-407-5800
Clinic Type: County Clinic
Clinic last updated 6/22/2011

Sheldon School Based Clinic at Sheldon Elementary
17203 1/2 Hall Shepperd
Houston, TX 77049
281-456-5201
Clinic Type: School-Based
Clinic last updated 7/3/2012

Shifa Abu Bakr Clinic
8830 Old Galveston Road
Houston, TX 77034
713-910-7860
Clinic Type: Non-Profit Provider
Clinic last updated 9/4/2012

Shifa Al Mustafa Health Services
17250 Coventry Park Drive
Houston, TX 77084
281-712-1574
Clinic Type: Non-Profit Provider
Clinic last updated 9/4/2012

Shifa Al Salam Clinic
16700 Old Louetta Road
Spring, TX 77379
281-251-2639
Clinic Type: Non-Profit Provider
Clinic last updated 9/4/2012

Shifa Clinic Houston
10415 Synott Road
Sugar Land, TX 77478
281-561-5767
Clinic Type: Non-Profit Provider
Clinic last updated 8/28/2012

Smith Clinic
2525-A Holly Hall St.
Houston, TX 77054
713-526-4243
Clinic Type: Hospital District
Clinic last updated 3/1/2013

Southeast Health Clinic
3737 Red Bluff Rd.
Pasadena, TX 77503
713-740-5000
Clinic Type: County Clinic
Clinic last updated 8/30/2012

Southeast WIC Center
3737 Red Bluff Road
Pasadena, TX 77503
713-407-5800
Clinic Type: County Clinic
Clinic last updated 6/22/2011

Southside School Based Behavioral Health Clinic
1721 16th Street
Galena Park, TX 77547
713-676-1475
Clinic Type: School-Based
Clinic last updated 7/3/2012

Southside School Based Clinic
1721 16th Street
Galena Park, TX 77547
713-671-2461
Clinic Type: School-Based
Clinic last updated 7/3/2012

Spring Branch Community Health Center
1615 Hillendahl Suite 100
Houston, TX 77055
713-462-6565
Clinic Type: Federally Qualified Health Center
Clinic last updated 4/19/2013

Spring Branch Community Health Center Pitner Rd Clinic
8575 Pitner Rd.
Houston , TX 77080
713-462-6545
Clinic Type: Federally Qualified Health Center
Clinic last updated 3/29/2013

St Vincent's Clinic
2817 Postoffice Street
Galveston , TX 77550
409-765-2219
Clinic Type: Non-Profit Provider
Clinic last updated 3/21/2013

Stephen F. Austin Community Health Center
1111 W. Adoue Street
Alvin, TX 77511
281-824-1480
Clinic Type: Federally Qualified Health Center
Clinic last updated 2/25/2013

Strawberry Health Center
927 E. Shaw
Pasadena, TX 77506
713-982-5900
Clinic Type: Hospital District
Clinic last updated 6/25/2012

Sunnyside Health Center
9314 Cullen St.
Houston, TX 77051
713-732-5000
Clinic Type: City Clinic
Clinic last updated 9/24/2012

Texas Children's Pediatric Association-Corinthian Pointe
5505 W. Orem Dr. Suite 100
Houston, TX 77085
713-283-1039
Clinic Type: Non-Profit Provider
Clinic last updated 3/25/2013

Texas Children's Pediatric Associates - Cullen
5751 Blythewood Street

Houston, TX 77021
713-741-4078
Clinic Type: Non-Profit Provider
Clinic last updated 10/25/2012

Texas Children's Pediatric Associates - Gulfton
5900 Chimney Rock
Houston, TX 77081
713-661-2951
Clinic Type: Non-Profit Provider
Clinic last updated 8/30/2012

Texas Children's Pediatric Associates - Ripley
4410 Navigation Boulevard
Houston, TX 77011
713-547-8282
Clinic Type: Non-Profit Provider
Clinic last updated 8/30/2012

Texas Children's Pediatrics-AAMA
6001 Gulf Freeway Suite C-2
Houston, TX 77023
713-514-8060
Clinic Type: Non-Profit Provider
Clinic last updated 8/30/2012

The Rose Galleria
5420 West Loop South
Bellaire, TX 77401
713-668-2996
Clinic Type: Non-Profit Provider
Clinic last updated 9/12/2012

The Rose Southeast
12700 N. Featherwood
Houston, TX 77034
281-484-4708
Clinic Type: Non-Profit Provider
Clinic last updated 6/14/2012

The University of Texas Medical Branch
301 University Blvd.
Galveston, TX 77555
409-747-4952
Clinic Type: Non-Profit Hospital
Clinic last updated 6/7/2012

Thomas Street Health Center
2015 Thomas Street
Houston, TX 77009
713-873-4000
Clinic Type: Hospital District
Clinic last updated 7/9/2012

TOMAGWA Health Care Ministries
455 School Street
Tomball, TX 77375
281-357-0747
Clinic Type: Non-Profit Provider
Clinic last updated 6/27/2013

Tomball WIC Center
701 E. Main Street
Tomball, TX 77375
713-407-5800
Clinic Type: County Clinic
Clinic last updated 6/22/2011

UTMB Angleton RMCHP Clinic
1108 A. East Mulberry
Angleton, TX 77515
979-849-0692
Clinic Type: Non-Profit Hospital
Clinic last updated 8/13/2012

UTMB Breast Health and Imaging Center
2240 Gulf Freeway South
League City, TX 77573
832-505-1700
Clinic Type: Non-Profit Hospital
Clinic last updated 6/7/2012

UTMB Cancer Center - Dickinson Clinic
2401 West FM 646

Dickinson, TX 77539
281-534-8380
Clinic Type: Non-Profit Provider
Clinic last updated 6/8/2012

UTMB Conroe RMCHP Clinic
701 East Davis, Suite A
Conroe, TX 77301
936-525-2800
Clinic Type: Non-Profit Hospital
Clinic last updated 8/13/2012

UTMB Dickinson RMCHP
3828 Hughes Court
Dickinson, TX 77539
281-614-1256
Clinic Type: Non-Profit Provider
Clinic last updated 8/28/2012

UTMB Family Medicine, Island West
6710 Stewart Rd.
Galveston, TX 77551
409-744-4030
Clinic Type: Non-Profit Provider
Clinic last updated 8/13/2012

UTMB Galveston RMCHP
7th Floor UHC Bldg - 301 University Blvd
Galveston, TX 77555
409-747-4952
Clinic Type: Non-Profit Hospital
Clinic last updated 10/10/2012

UTMB Katy RMCHP Clinic
511 Park Grove Drive
Katy, TX 77450
281-398-7001
Clinic Type: Non-Profit Hospital
Clinic last updated 8/27/2012

UTMB New Caney RMCHP Clinic
21134 US Hwy 59, Ste. I
New Caney, TX 77357
281-577-8966
Clinic Type: Non-Profit Hospital
Clinic last updated 8/13/2012

UTMB Pasadena RMCHP
3737 Red Bluff, Suite 150
Pasadena, TX 77503
713-473-5180
Clinic Type: Non-Profit Hospital
Clinic last updated 10/10/2012

UTMB Pearland RMCHP Clinic
2750 East Broadway
Pearland, TX 77581
281-485-3220
Clinic Type: Non-Profit Hospital
Clinic last updated 6/7/2012

UTMB Pediatric and Adult Primary Care, Friendswood
128 W Parkwood
Friendswood, TX 77546
281-482-5695
Clinic Type: Non-Profit Provider
Clinic last updated 8/13/2012

UTMB Pediatric and Adult Primary Care, League City
6465 South Shore Blvd
League City, TX 77573
281-538-7735
Clinic Type: Non-Profit Provider
Clinic last updated 6/7/2012

UTMB Sugar Land RMCHP Clinic
14823 Southwest Fwy
Sugar Land, TX 77478
713-234-3100
Clinic Type: Non-Profit Hospital
Clinic last updated 8/13/2012

UTMB Texas City RMCHP
9300 EF Lowry Expressway
Texas City, TX 77591
40 -986-9686

Clinic Type: Non-Profit Provider
Clinic last updated 8/28/2012

UTMB Women's Specialty Care at Bay Colony & University Fertility Center
1804 FM 646
League City, TX 77539
281-534-6414
Clinic Type: Non-Profit Provider
Clinic last updated 8/13/2012

UTMB Women's Specialty Care, Nassau Bay
2060 Space Park Dr.
Houston, TX 77058
281-333-2744
Clinic Type: Non-Profit Provider
Clinic last updated 8/13/2012

Vaccine Center for Adults and Travelers
8000 North Stadium Dr.; 1st Floor
Houston, TX 77054
832-393-5174
Clinic Type: City Clinic
Clinic last updated 6/20/2012

Webster Health Clinic
311 Pennsylvania , Suite 200
Webster , TX 77598
281-338-0637
Clinic Type: County Clinic
Clinic last updated 6/7/2012

Health Outcomes				
Focus Area	**Measure**	**Weight**	**Source**	**Year(s)**
Mortality (50%)	Premature death (years of potential life lost before age 75 per 100,000 pop)	50%	National Center for Health Statistics	2008-2010
Morbidity (50%)	Poor or fair health (percent of adults reporting fair or poor health)	10%	Behavioral Risk Factor Surveillance System	2005-2011
	Poor physical health days (average number in past 30 days)	10%	Behavioral Risk Factor Surveillance System	2005-2011
	Poor mental health days (average number in past 30 days)	10%	Behavioral Risk Factor Surveillance System	2005-2011
	Low birthweight (percent of live births with weight < 2500 grams)	20%	National Center for Health Statistics	2004-2010

	Health Behaviors (30%)			
Focus Area	**Measure**	**Weight**	**Source**	**Year(s)**
Tobacco use (10%)	Adult smoking (percent of adults that smoke)	10%	Behavioral Risk Factor Surveillance System	2005-2011
Diet and exercise (10%)	Adult obesity (percent of adults that report a BMI >= 30)	7.5%	National Center for Chronic Disease Prevention and Health Promotion, Division of Diabetes Translation	2009
	Physical inactivity (percent of adults that report no leisure time physical activity)	2.5%	National Center for Chronic Disease Prevention and Health Promotion, Division of Diabetes Translation	2009
Alcohol use (5%)	Excessive drinking (percent of adults who report heavy or bringe drinking)	2.5%	Behavioral Risk Factor Surveillance System	2005-2011
	Motor vehicle crash deaths per 100,000 population	2.5%	National Center for Health Statistics	2004-2010

Sexual activity (5%)	Sexually transmitted infections (Chlamydia rate per 100,000 population)	2.5%	National Center for HIV/AIDS, Viral Hepatitis, STD, and TB Prevention	2010
	Teen birth rate (per 1,000 females ages 15-19)	2.5%	National Center for Health Statistics	2004-2010

	Clinical Care (20%)			
Focus Area	**Measure**	**Weight**	**Source**	**Year(s)**
Access to care (10%)	Uninsured (percent of population < age 65 without health insurance)	5%	Small Area Health Insurance Estimates	2010
	Ratio of population to primary care physicians	3%	HRSA Area Resource File	2011-2012
	Ratio of population to dentists	2%	HRSA Area Resource File	2011-2012
Quality of care (10%)	Preventable hospital stays (rate per 1,000 Medicare enrollees)	5%	Dartmouth Atlas of Health Care	2010
	Diabetic screening (percent of diabetics that receive HbA1c screening)	2.5%	Dartmouth Atlas of Health Care	2010
	Mammography screening (percent of females that receive screening)	2.5%	Dartmouth Atlas of Health Care	2010

	Social and Economic Environment (40%)			
Focus Area	**Measure**	**Weight**	**Source**	**Year(s)**
Education (10%)	High school graduation (percent of ninth grade cohort that graduates in 4 years)	5%	State sources and the National Center for Education Statistics	Varies by state
	Some college (Percent of adults aged 25-44 years with some post-secondary education)	5%	American Community Survey, 5-year estimates	2007-2011
Employment (10%)	Unemployment rate (percent of population age 16+ unemployed)	10%	Bureau of Labor Statistics	2011

Income (10%)	Children in poverty (percent of children under age 18 in poverty)	10%	Small Area Income and Poverty Estimates	2011
Family and social support (5%)	Inadequate social support (percent of adults without social/emotional support)	2.5%	Behavioral Risk Factor Surveillance System	2005-2010
	Percent of children that live in single-parent household	2.5%	American Community Survey, 5-year estimates	2007-2011
Community safety (5%)	Violent crime rate per 100,000 population	5%	Uniform Crime Reporting, Federal Bureau of Investigation *State data sources for Illinois*	2008-2010

	Physical Environment (10%)			
Focus Area	**Measure**	**Weight**	**Source**	**Year(s)**
Environmental quality (4%)	Daily fine particulate matter (average daily measure in micrograms per cubic meter)	2%	CDC WONDER Environmental data *Data not available for Alaska and Hawaii*	2008
	Drinking water safety (percent of population exposed to water exceeding a violation limit in the past year)	2%	Safe Drinking Water Information System	FY 2012
Built environment (6%)	Access to recreational facilities (rate per 100,000 population)	2%	County Business Patterns	2010
	Limited access to health foods (percent of population who lives in poverty and more than 1 or 10 miles from a grocery store)	2%	USDA Food Environment Atlas	2012
	Fast food restaurants (percent of all restaurants that are fast food)	2%	County Business Patterns	2010

County Health Rankings & Roadmaps
A Healthier Nation, County by County

Robert Wood Johnson Foundation

2013 National Benchmarks

Total # of counties/county equivalents in US – 3,143 **Total # of unranked counties in 2013 - 90** **Total # of ranked counties in 2013 – 3,053**

Category	Focus Area	Measure	Missing Counties (out of 3053)	Minimum	Maximum	Average	Standard Deviation	10th Percentile	Median	90th Percentile	National Benchmark
Outcomes	Mortality	Premature death	0	2,153	24,668	8,025	2,417	5,317	7,714	11,045	5,317
	Morbidity	Poor or fair health (%)	357	2	41	17	6	10	16	24	10
	Morbidity	Poor physical health days	204	0.7	8.5	3.8	1.0	2.6	3.7	5.1	2.6
	Morbidity	Poor mental health days	240	0.7	7.5	3.4	1.0	2.3	3.4	4.7	2.3
	Morbidity	Low birthweight (%)	134	3.4	17.5	8.3	2.0	6.0	7.9	11.1	6.0
Health Behaviors	Smoking	Adult smoking (%)	556	0	48	21	6	13	21	28	13
	Diet and Exercise	Adult obesity (%)	0	14	48	30	4	25	31	35	25
	Diet and Exercise	Physical inactivity (%)	0	10	44	28	5	21	28	34	21
	Alcohol Use	Excessive drinking (%)	467	0	37	15	6	7	15	22	7
	Alcohol Use	Motor vehicle crash death rate	280	3	111	22	10	10	20	36	10
	Sexual Activity	Sexually transmitted infections	6	0	2,813	315	271	92	236	646	92
	Sexual Activity	Teen birth rate	100	4	130	46	20	21	44	72	21
Clinical Care	Access to Care	Primary care physicians	122	218:1	17,377	2,596:1	2,114:1	1,067:1	1,963:1	4,822:1	1,067:1
	Access to Care	Uninsured (%)	0	4	41	18	5	11	18	26	11
	Access to Care	Dentists	152	348:1	35,544:1	3,630:1	2,735:1	1,516:1	2,868:1	6,634:1	1,516:1
	Quality of Care	Diabetic screening* (%)	12	17	100	84	7	76	85	90	90
	Quality of Care	Mammography screening* (%)	31	30	95	63	8	52	64	73	73
	Quality of Care	Preventable hospital stays	52	20	342	79	31	47	73	115	47
Social & Economic Factors	Education	High school graduation* (%)	13	1	100	82	10	70	84	93	
	Education	Some college* (%)	0	18	90	54	12	39	54	70	70
	Employment	Unemployment (%)	0	1.1	29.7	8.7	2.9	5.0	8.4	12.3	5.0
	Income	Children in poverty (%)	0	3	62	25	9	14	24	37	14
	Family & Social Support	Children in single-parent household (%)	2	2	75	31	10	20	30	44	20
	Family & Social Support	Inadequate social support (%)	622	0	57	19	5	14	19	26	14
	Community Safety	Violent crime rate	151	0	2,062	274	226	66	215	562	66
Physical Environment	Environmental Quality	Daily fine particulate matter**	29	6	15	11	2	9	11	13	8.8
	Environmental Quality	Drinking water safety (%)	52	0	100	9	20	0	0	31	0
	Built Environment	Access to recreational facilities*	0	0.0	62.4	7.6	7.4	0.0	6.9	15.8	16
	Built Environment	Fast food restaurants (%)	98	7	100	45	14	27	47	60	27
	Built Environment	Limited access to healthy foods (%)	0	0	72	8	7	1	6	15	1

* Reverse-coded measures, the national benchmark is the 90th percentile. For all other measures, the national benchmark is the 10th percentile.
** No data were available for these measures for Alaska and Hawaii.

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