Texas Southern University Digital Scholarship @ Texas Southern University

COVID Research

Office of Research

Winter 11-11-2024

Third Ward CASPER 2023 Final Report

Zuri Dale Texas Southern University, zuri.dale@tsu.edu

Vishnu Nepal Houston Health Department, vishnu.nepal@houstontx.gov

Debra Maxwell Houston Health Department, debra.maxwell@tsu.edu

Follow this and additional works at: https://digitalscholarship.tsu.edu/covid

Part of the Categorical Data Analysis Commons, Design of Experiments and Sample Surveys Commons, Statistical Methodology Commons, and the Vital and Health Statistics Commons

Recommended Citation

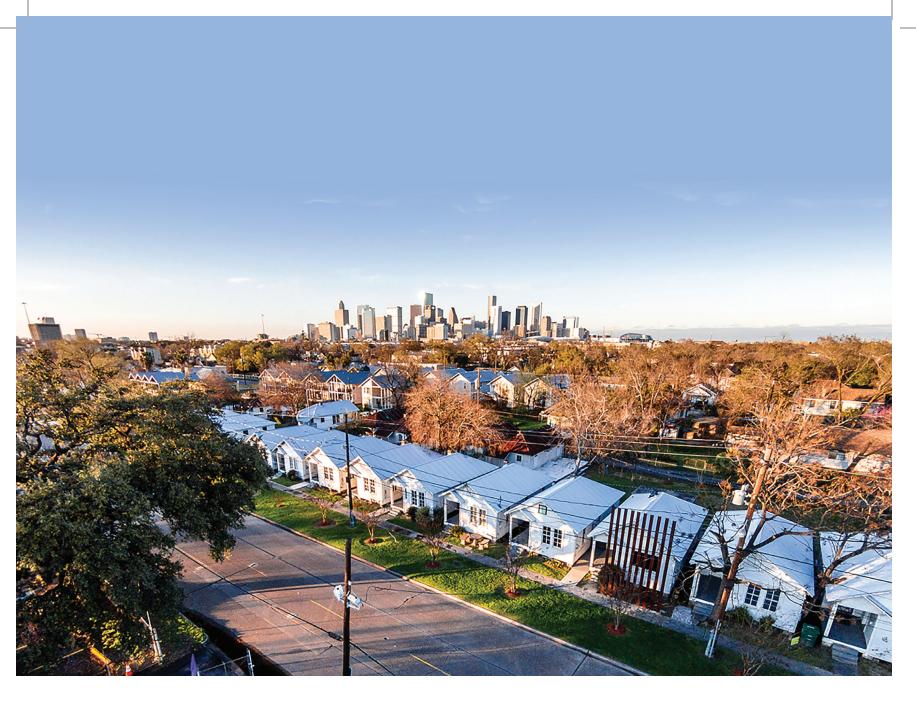
Dale, Zuri; Nepal, Vishnu; and Maxwell, Debra, "Third Ward CASPER 2023 Final Report" (2024). *COVID Research*. 2. https://digitalscholarship.tsu.edu/covid/2

This Data is brought to you for free and open access by the Office of Research at Digital Scholarship @ Texas Southern University. It has been accepted for inclusion in COVID Research by an authorized administrator of Digital Scholarship @ Texas Southern University. For more information, please contact haiying.li@tsu.edu.









Third Ward CASPER 2023 FINAL REPORT

For questions, please contact the Center for Transformative Health at **transformative.health@tsu.edu**

This project was funded by Grant #4600017558.

© 2024 Third Ward Casper Final Report. All rights reserved.

Acknowledgments

The following individuals are acknowledged for their collaboration and commitment in developing this report.

Zuri Dale, DrPH **primary author**

Douglas Willard **DESIGNER**

Contributors and Critical Reviewers

Vishnu Nepal, DrPH Debra Maxwell, MPH Judith Romero, MA Kelly Morris, RN Vee Decatur, CHW Ashlee Young, BS Tia Johnson

Contents

Third Word CASPER 2023 FINAL REPORT

- 2 Acknowledgments
- 3 List of Figures
- 3 List of Tables

INTRODUCTION TO THE CASPER

- 5 a. Mission
- 5 b. Objectives and Intended Outcomes
- 5 c. Justification
- 5 d. Assumptions
- 5 e. Third Ward

METHODOLOGY

- 7 a. Limitations
- 7 b. Questionnaire
- 8 c. Just in Time Training and Survey Teams
- 9 d. Incident Command Structure
- 10 e. Data Collection
- 10 f. Data Entry and Analysis

RESULTS

- 11 a. Response Rates
- 11 b. Demographic characteristics of the population
- 13 c. Clinical characteristics of the population
- 14 d. Health status and well-being of the population
- 14 e. COVID characteristics and post-COVID manifestations

DISCUSSION AND RECOMMENDATIONS

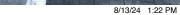
- 19 References
- 19 Appendices
- 19 Appendix A. Glossary of Terms
- 20 Appendix B. Frequency Rates

LIST OF FIGURES

- 6 Figure 1 Map of Third Ward, Houston, Texas.
- 7 Figure 2 Cluster overview map
- 8 Figure 3 Sample cluster map
- 11 Figure 4 Percentage of total household's type of home structure.
- $11\;$ Figure 5 $\;$ Percentage of total households' race.
- $12\;$ Figure 6 $\;$ Percentage of total households' employment status.
- 12 Figure 7 Percentage of total households' annual income.
- 12 Figure 8 Percentage of total households' highest education level.
- 12 Figure 9 Percentage of total households' age.
- 12 Figure 10 Percentage of total households' primary language.
- 13 Figure 11 Percentage of total households' health insurance coverage.
- 13 Figure 12 Percentage of total households's access to personal or family doctor.
- 13 Figure 13 Percentage of total households's source of coverage.
- 13 Figure 14 Percentage of total households' difficulty getting medical services.
- 14 Figure 15 Percentage of total households' reasons for difficulty getting medical services.
- 14 Figure 16 Percentage of respondent's personal health rating.
- 14 Figure 17 Percentage of total household's personal health rating.
- 14 Figure 18 Percentage of household's engagement in moderate physical activity.
- 15 Figure 19 Percentage of household's frequency of walking outside of the home.
- 15 Figure 20 Percentage of household's emotional problems keeping them from work.
- 15 Figure 21 Percentage of household consumption of three to five fruit and vegetable servings per day.
- 15 Figure 22 Percentage of households with access to fresh fruits and vegetables at the grocery store.
- 15 Figure 23 Percentage of households currently controlling or monitoring weight.
- 15 Figure 24 Percentage of households currently smoking.

LIST OF TABLES

- 11 Figure 1 Calculated response rates.
- 20 Figure 2 Weighted and unweighted frequencies of descriptive characteristics for households.
- 22 Figure 3 Weighted and unweighted frequencies of healthcare access for households.
- 24 Figure 4 Weighted and unweighted frequencies of health status/wellbeing for households.
- 26 Figure 5 Weighted and unweighted frequencies of COVID characteristics and symptoms experienced during COVID-19 infection for households.
- 30 Figure 6 Weighted and unweighted frequencies of behavioral characteristics.











INTRODUCTION

In collaboration with the Houston Health Department, the Center for Transformative Health at Texas Southern University conducted a Community Assessment for Public Health Emergency Response (CASPER) along portions of South Houston (Third Ward). CASPER is a cross-sectional, evidence-based epidemiologic technique designed by the CDC to provide quick, inexpensive, accurate, and reliable household-based public health information about a community for public health decisionmakers and emergency response officials.

MISSION

The mission of the Third Ward CASPER was to assess the state of health in Third Ward as a method to inform local officials who may use the results to strengthen intervention efforts in the future and ensure resources are distributed appropriately.

OBJECTIVES AND INTENDED OUTCOMES

Objectives of the Third Ward CASPER

- To present a Third Ward Super Neighborhood profile, including demographic and socioeconomic indicators, community trends, assets, and challenges.
- To inform Third Ward Super Neighborhood residents about health and human service resources available in or to the community.
- To provide health education and health promotion information to the Third Ward residents and provide and link residents identified as "in need" to available services.
- To collect health status data and community information that could be used in future planning for services and activities to improve health outcomes.
- To build relationships with stakeholders and community residents.

Additional Intended Outcomes

• Improved understanding and sensitivity of TSU/ HHD staff to community conditions.

- Improved response readiness.
- Improved data-gathering ability.
- Improved capacity to build solutions to identified problems.

JUSTIFICATION FOR CASPER

CASPER is a validated method developed by the Centers for Disease Control and Prevention to obtain information about a community's needs through rapid needs assessment. It was designed to provide accurate and timely data through precise analysis and interpretation. While it was originally designed for emergency management disaster settings, it has opportunities to influence public health in nondisaster settings. CASPER has been previously used to estimate community needs and assess public health perceptions. Other benefits include monitoring changes in community needs post-COVID-19 and producing household-based population estimates of needs for decision-makers.

ASSUMPTIONS:

It was assumed that the CASPER methodology would provide enough households in the dataset to generate meaningful population-based estimates about the population of interest.

THIRD WARD CHARACTERISTICS:

The CASPER was conducted in the Third Ward in Houston, Texas (Figure 1). Third Ward has a resident population of 38, 920, a population increase of 1.49 percent since 2020. The population by race is Black/ African American (38.43%), White (30.75%), American Indian (.56%), Asian (14.01%), Native Hawaiian/Pacific Islander (0.05%), Other (7.46%) and/or Mixed (8.74%). The median household income is \$59,026, and 18.72% of families live below the poverty line (\$23,400) for a family of four.

METHODOLOGY

The CASPER study was conducted using a cross-sectional two-stage cluster sampling methodology, a approach that provides quick, low-cost household information. In the first stage, cluster selection, a sampling frame was determined, requiring a list of all clusters and the number of households within each cluster. Once the frame was determined, thirty clusters were randomly selected, with the probability of a census block being selected being proportional to the number of households located within the census block. The second stage involved the selection of seven households per cluster using systematic random sampling, avoiding convenience, target, or sequential sampling. In a CASPER design, all households are chosen without substitution, meaning the originally selected clusters were assessed without modification. The Third Ward cluster overview map can be found in **Figure 2**.

Due to some clusters potentially being chosen more than once, some clusters may have had up to twenty-one interviews instead of the standard seven. Each cluster's total number of households was divided by seven to determine its sequence number (n). Survey teams then attempted to survey each "nth" home. A sample cluster map can be found in **Figure 3**.

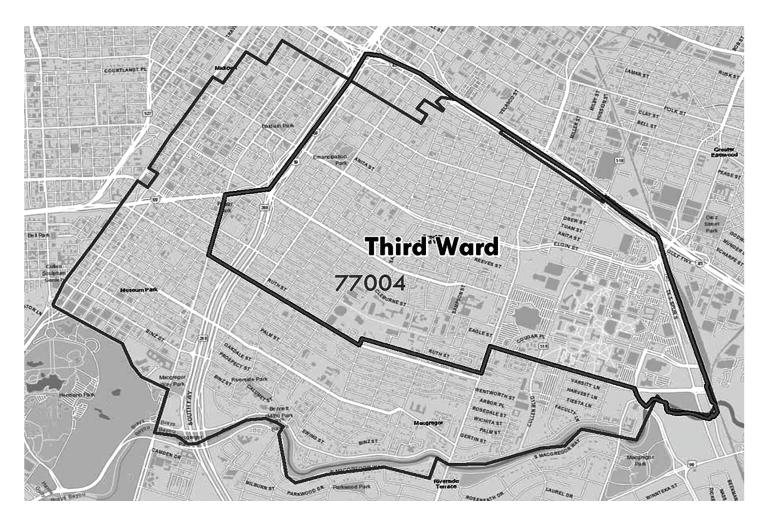


Figure 1 | Map of Third Ward, Houston, Texas

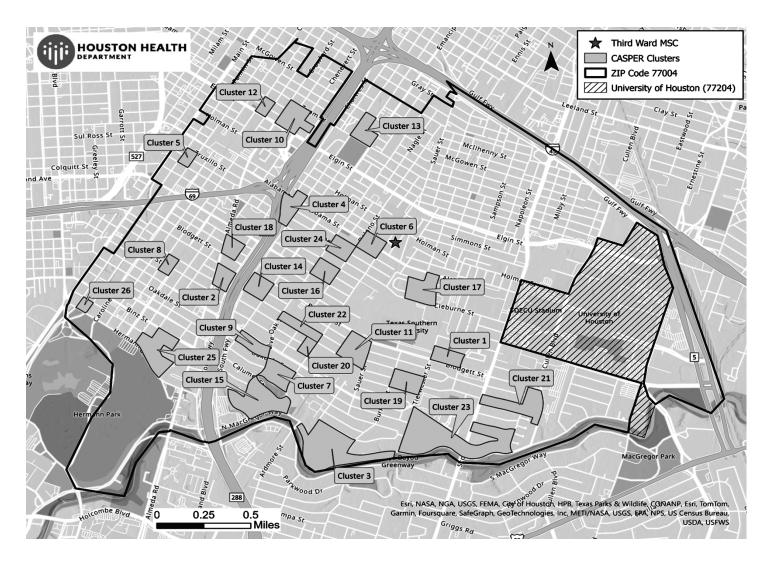


Figure 2 | Cluster overview map

Limitations

It's important to note that the CASPER methodology, while robust, is not immune to the effects of gentrification and the COVID-19 pandemic. The data used for the two-stage sampling, based on thirty randomly selected census blocks and 2020 U.S. Census Bureau data, may not have accurately reflected Third Ward Houston as of the 2023 CASPER implementation. The wide gentrification of the geographic area and the lingering aftereffects of COVID-19 could have led to significant changes in the overall number, composition, and geographic location of occupied housing units, which would not be reflected in the data used in the two-stage sampling process.

The gentrification of Third Ward has led to an increase in the number of multi-unit residences, including high-rise luxury apartments, gated townhomes, and private condominiums. These types of residences are not as easily accessible, which could have led to the systematic replacement of households and affected the representativeness of the data. This is an important consideration when interpreting the study results.

Questionnaire

The Center for Transformative Health and the Houston

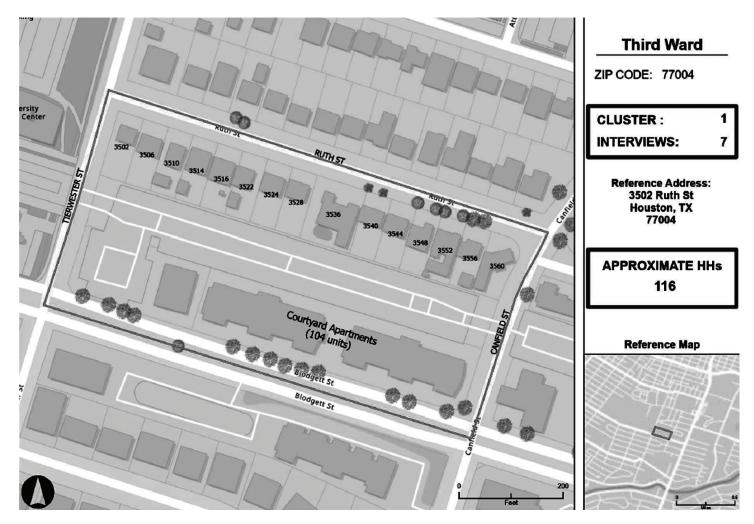


Figure 3 | Cluster 1 map with parcel labels

Health Department developed a comprehensive population-based questionnaire collect to information regarding household demographics, health communication methods, priority and perception, physical, emotional, and behavioral health, service utilization, and post-COVID conditions. Forms were translated into Spanish, and each field team had access to an interpreter. To streamline data collection, surveys were collected in the field in a paper-based format and entered electronically. Note: All questions were asked at the household level, and respondents were instructed to respond for their total household unless told otherwise.

Just-in-Time Training and Survey Teams

Field teams comprised Houston Health Department and Texas Southern University staff with additional support from community volunteers. All survey teams were required to attend Just in Time training before deployment into the field. Teams received a Third Ward CASPER playbook that included maps, team member responsibilities, safety protocols, logistics, methodology, consent scripts and forms, questionnaires, and tracking forms. Teams consisted of three members (one driver and two interviewers), and city fleet was utilized to transport field teams for the project. Teams conducted interviews between approximately 9:30 a.m. and 6: 00 p.m. on all field sampling days. To adequately prepare field teams for the overall project initiative, a Just-In-Time (JIT) training was conducted at the Third Ward Multipurpose Center the day before the CASPER mission. This time was utilized to review household selection methods, questionnaire content, interview techniques, safety, and logistics. Trainees were sent home with the JIT PowerPoint Presentation and CASPER playbook that included the consent script, questionnaire, and tracking form to review.

Incident Command Structure

The National Incident Management System (NIMS) Incident Command Structure (ICS) was utilized as a basis for organizing, planning, and executing CASPER activities. The ICS team conducted a series of meetings throughout the mission's preparation and planning phases to ensure a successful CASPER. The following core sections with assigned responsibilities were prepared for the CASPER.

- Incident Command: Responsible for the overall effective and safe execution of the CASPER mission. This includes administering all human and material resources and overseeing public affairs/communication efforts with the public and public officials. Personnel: Texas Southern University
- **Planning**: Responsible for coordinating and overseeing the following planning functions: data collection

and analysis, resource assessment, and management. Personnel: Houston Health Department and Texas Southern University.

- Operations: Responsible for coordinating and overseeing the planning and implementation of the following activities: field team composition and flow. Personnel: Houston Health Department
- Logistics: Provided logistical support, including facilities, supplies, food, ground transportation, communication, and employee care unit management. Personnel: Houston Health Department
- Volunteer Team: Responsible for recruiting and placing volunteers.

Personnel: Houston Health Department and Texas Southern University.

• Training: Responsible for developing and implementing training presentations.

Personnel: Houston Health Department and Texas Southern University.

 Internal Communications and Public Information: Responsible for developing and releasing information about the project to the public, media, etc.; developing materials for project promotion and keeping employees informed. Personnel: City of Houston Mayor's Office, Houston Health Department, Texas Southern University.



TSU_Third_Ward_CASPER_2023_Final_Report_PROD.indd 9



8/13/24 1:22 PM

Community Engagement and Notification of CASPER

A series of community engagement activities were conducted to inform residents of the CASPER mission. Activities included a health fair at Emancipation Park, a focus group series, dissemination of promotional material at community events, advertisement on KTSU radio station 90.9, and emails to disseminate promotional materials by local government officials to Third Ward distribution lists. The week before the mission, flyers were placed on doors and in mailboxes, and yard signs were placed at major intersections.

Data Collection

On October 27, 2023, and October 28, 2023, fifteen teams of three were deployed into the field to conduct door-to-door interviews in thirty randomly selected clusters. Teams were provided detailed maps of the earth and neighborhood, a cluster-specific tracking sheet, and referral forms. To be eligible to participate, respondents provided verbal consent and were aged 18 or older. If a household member was not home to conduct the interview, promotional material was left to inform the household that a field team had come by. Households that completed the interviews were given a \$20 HEB gift card, drawstring backpacks with educational materials, and city service information. All homes that field teams encountered irrespective of whether the interview was completed, were given drawstring backpacks with educational materials and city service information. On November 22, 2023, a strike team was sent back into the field to collect additional data to meet the 168 recommended minimum number of households.

Data Entry and Analysis

Upon returning to the incident command center, survey data was manually entered in Qualtrics by trained Houston Health Department and Texas Southern University data entry personnel. Data cleaning and analysis was done using SAS 9.4. One hundred sixtyeight of two hundred ten unique households completed The week before the mission, flyers were placed on doors and in mailboxes, and yard signs were placed at major intersections.

the interviewer-administered survey. Each household for whom an interview was completed was assigned a weight based on the household's mathematical weight for the probability of selection. In doing so, the estimates obtained were generalizable to every household in the sampling frame, thus ensuring each cluster was weighted equally. SAS 9.4 was utilized, allowing the multistage sample design to be weighed. The following weight formula was used:

weight = total number of households (number of households interviewed within the cluster) X (number of clusters selected)

Weighted frequencies, percentages, and 95% confidence intervals were then calculated for each interview question for cells with five or more observations. The 77004 sampling frame included 14,769 households, which were used in the weight calculation. Once the weight was assigned, frequencies and corresponding percentages were calculated for each question. Descriptive assessments were conducted among the 14,769 households.

RESULTS

Response Rates

Calculating response rates helps indicate the sample's representativeness to the population within the sampling frame and information collected on the tracking forms is used to calculate response rates. Interview teams contacted a person at two hundred and fifty-six households. Of these, one hundred and sixty-eight homes were surveyed, resulting in a cooperation rate of 65.6%. An attempt was made to interview three hundred and ninety-six households, resulting in a contact rate of 42.4%. The overall completion rate was 80% (168 surveys completed out of a goal of 210). Fifty-four households refused to participate, and one household did not participate due to a language barrier. Response rates are shown in Table 1.

| Questionnaire response | Percent | Rate |
|------------------------|---------|---------|
| Completion rate1 | 80% | 168/210 |
| Cooperation rate2 | 65.6% | 168/256 |
| Contact rate3 | 42.4% | 168/396 |

¹ Percent of surveys completed compared to the goal of 210

Percent of surveys completed compared to the total number of contacted households that were eligible and willing to participate

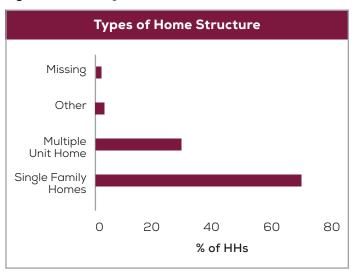
 Percent of surveys completed compared to all randomly selected households

The final descriptive analysis included 168 households in Third Ward, representing 14,769 weighted households. Survey results are grouped by subject and summarized on the following pages. For frequencies greater than or equal to five, weighted frequencies with 95% confidence intervals are provided in the Appendices.

Demographic characteristics of the population summary

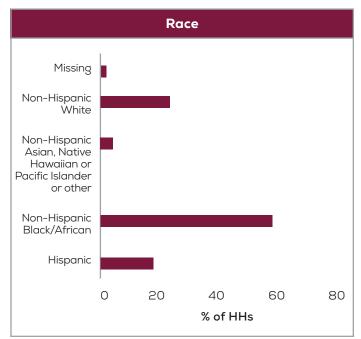
All CASPER surveys begin by asking for basic household information. Weighted frequencies, percentages, and 95% confidence intervals were then calculated for each interview question for cells with five or more observations. The following figures show the complete descriptive characteristics of the surveyed population.

Figure 4 | Percentage of household's structure

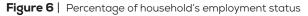


Of the participants, 57.78% (N= 8432) of households identified as non-Hispanic Black/African American and 16. 78% (N= 2449) identified as Hispanic (Figure 5).





Most households identified as employed (42.45%, N= 6076) (Figure 6), had a household income of \$75,000 or more (29.70%, N=3999) (Figure 7), and had at least one individual in the home who had attended college (74.58%, N=9938) (Figure 8). Most respondents identified the members of their household as representing the 18-64 age group (73.35%, N=10,833) (Figure 9). The primary language spoken among households was English (Figure 10).



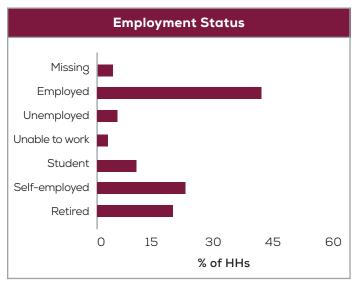
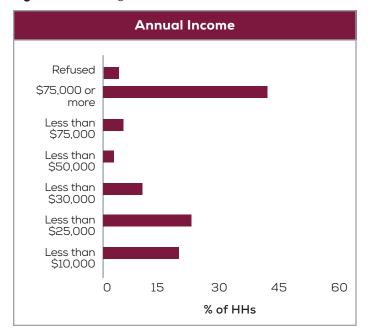


Figure 7 | Percentage of household's annual income





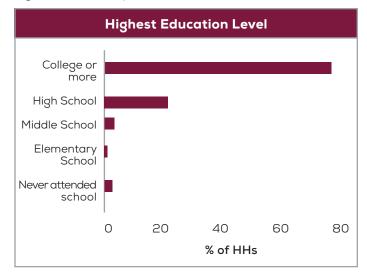


Figure 9 | Percentage of household's age

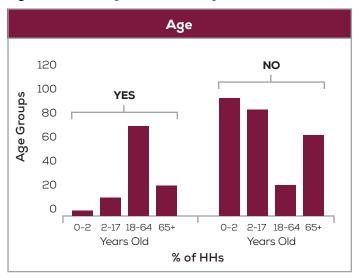
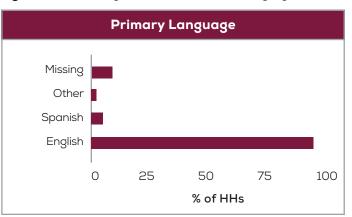


Figure 10 | Percentage of household's primary language



Clinical characteristics of the population

Approximately seventy percent of households (78.01%, N=11,233) of households identified as not having health insurance coverage (Figure 11) and cited a doctor's office as the place visited most often to see a doctor (52.81%, N=7707) (Figure 12) with private insurance being the largest source of coverage (Figure 13).



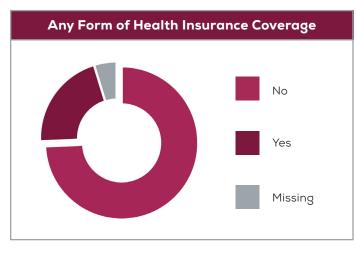


Figure 12 | Percentage of household's access to personal or family doctor

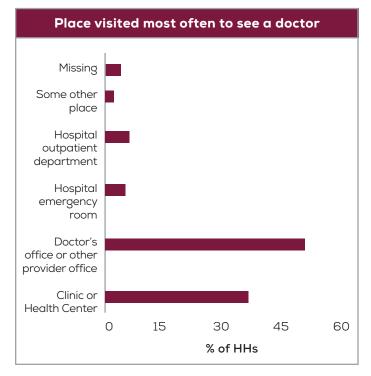
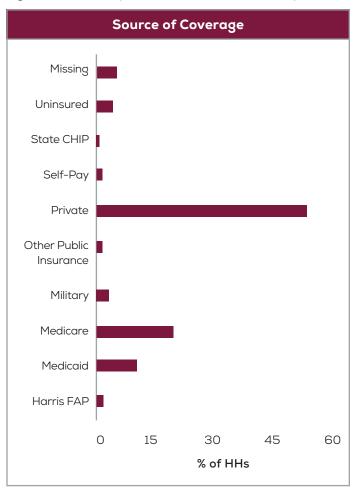
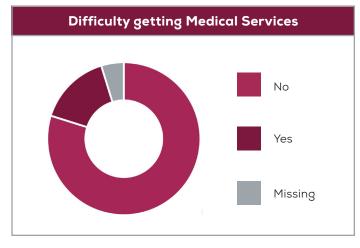


Figure 13 | Percentage of household's source of coverage

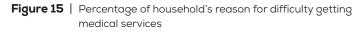


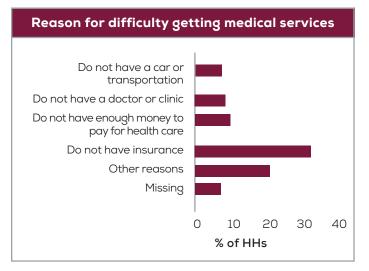
83.86%, N=12,011 of households indicated no difficulty getting medical services in the prior twelve months (Figure 14).





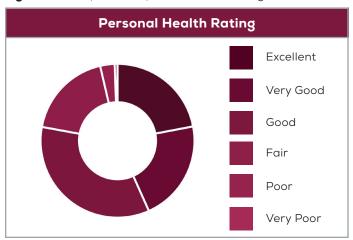
Of those who cited difficulty (16.14%, N=2312), lack of insurance represented the greatest barrier to care (39.33%, N=950) (Figure 15).

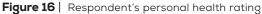




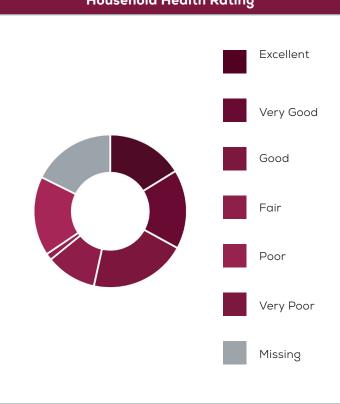
Health status and wellbeing

Approximately half of households cited their household health rating as good (34.58%, N=5107) or very good (21.29%, N=3145) (Figure 16 & 17). High blood pressure (36.79%, N=5321), high cholesterol (25.92%, N=3701), poor mental health (19.18%, N=2740), obesity (18.79%, N=2699) and diabetes/high blood sugar (17.53%, N=2511) were cited as the more prevalent health conditions. Weighted and unweighted frequencies of each comorbid condition can be found in Table 4.





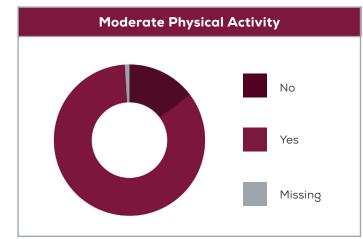




Behavioral Characteristics

85.05% of households report moderate physical activity (Figure 18), and 73.91% report frequently walking outside their home (Figure 19).

Figure 18 | Percentage of household's engagement in moderate physical activity





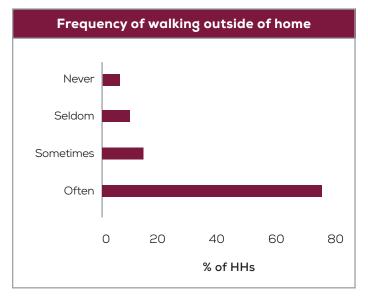


Figure 20 | Percentage of households experiencing emotional problems keeping them from work

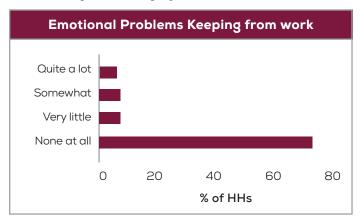
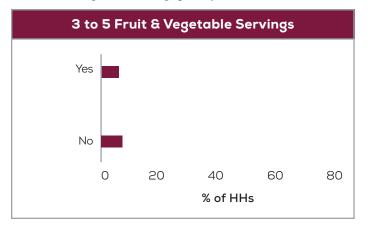
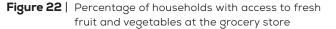
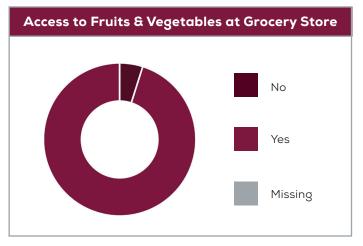


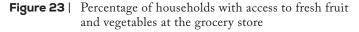
Figure 21 | Percentage of households eating 3-5 fruit and vegetable servings per day

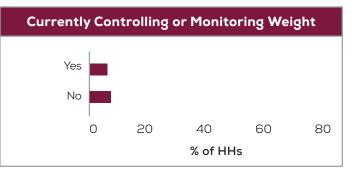


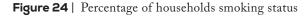


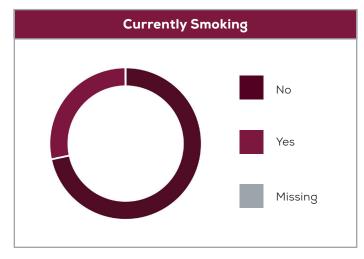


64.53% of households report actively controlling or monitoring their weight (Figure 23), and 71.69% do not smoke (Figure 24).









The Third Ward CASPER also explored long-COVID activities of daily living impacted by COVID-19 symptoms.

COVID characteristics and post-COVID manifestations

Approximately half of households (48.87%, N=7088) reported having tested positive for COVID-19 with most households (76.46%, N=5346) reporting it had been 12 months of more since their diagnosis. 18.06%, N=1134 reported long-COVID (still experiencing symptoms beyond 30 days after their initial COVID-19 infection). Most households reported moderate symptoms (50.77%, N=3505) with 12.05% (N=832) of household indicating symptoms to be severe. Systemic symptoms including tiredness or fatigue, joint or muscle pain, taste or smell changes, headache, brain fog, and shortness of breath were the most frequently experienced household symptoms anytime during infection. The most persistent symptoms lasting 30 days or more included anxiety, brain fog, depression, joint or muscle pain, shortness of breath, exercise inability, tiredness or fatigue, and weight loss. Eight hundred and forty (12.23%) households indicated at least one household member was hospitalized for COVID with 20.27% (N=1399) reporting at least one outpatient clinic visit after COVID recovery. 1134 (18.06%) households reported long-COVID according to the Center for Disease Control definition (Table 5). The Third Ward CASPER also explored activities of daily living impacted by COVID-19 symptoms. Shopping, meal preparation, and household chores were cited to be among the activities of daily living most impacted by COVID-19 infection.



DISCUSSION AND RECOMMENDATIONS

Based on analysis of the data collected during the CASPER, the following is recommended:

 In the past, Third Ward residents have identified access to healthcare as a concern, and as of the 2023 CASPER implementation, 26% of households still reported difficulty accessing care, with the majority citing lack of health insurance being the greatest barrier.

RECOMMENDATION: As of March 2023, continuous Medicaid eligibility ended for some adults and children resulting in many users having to reestablish eligibility. Ensuring residents know how to renew Medicaid and CHIP coverage programs may be needed to accommodate residents that are no longer covered. In addition, increased outreach and visibility to ensure residents know about the Houston Health Center locations that provide patient services can increase neighborhood well-being. Moreover, expanding preventative clinical care services beyond the current services provided at the four health center locations may improve neighborhood health.

 High blood pressure (36.79%, N=5321), high cholesterol (25.92%, N=3701), poor mental health (19.18%, N=2740), obesity (18.79%, N=2699) and diabetes/high blood sugar (17.53%, N=2511) were cited as the more prevalent health conditions in Third Ward.

RECOMMENDATION: Supporting campaigns/ organizations that promote healthy eating and increased physical activity, tracking the number of Houstonians who receive health care preventative services, and measuring the social and environmental factors that influence health can each lessen the burden of chronic disease.

 Approximately half of the households (48.87%, N=7088) reported having tested positive for COVID-19, with (18.06%) of households reporting long-COVID. **RECOMMENDATION:** The federal government no longer provides free COVID-19 vaccines, treatments, and tests, and after September 30, 2024, access to vaccines, treatments, and tests may be reduced through Medicaid. Continuing to offer free testing and vaccination sites will help lessen disease transmission. Maintaining the wastewater dashboard will also provide pooled surveillance when clinical testing numbers are low. Establishing a long-term impact team that conducts routine surveillance on the burden of long-term COVID-19 in Houston will assist in measuring the disease burden.

4. Anxiety and depression were two symptoms experienced during COVID-19 infection and were reported to have lasted longer than thirty days post-COVID-19 infection. Experiencing anxiety during infection was also associated with the development of long-term COVID-19 after controlling for confounding variables. In the 2018 Third Ward Complete Communities action plan, it was cited that 14% of the adults in the Third Ward neighborhood struggled with mental health for 14 days or more during 2013-2014.

RECOMMENDATION: Further explore mental health needs in the community in the post-COVID landscape. Consider expanding mental health supportive services to be included in each health clinic as it is expected that the prevalence of anxiety and depression may have increased post-COVID.

5. Most households report their health as good, very good, or excellent. Households also report that they engage in moderate physical activity daily, have access to fresh fruits and vegetables, and are currently controlling their weight. The CASPER has shed light on the impacts of gentrification and how the landscape of Third Ward has changed. While most of the households represented are the African American race, it is noteworthy to mention

the impact gentrification in Third Ward may have had on findings. According to the 2015 Census, the percentage of non-Hispanic white Americans in 77004 increased from 9% to 28% percent, and the black population declined from 77% to 60% during the same period. As of April 2024, the percentage of Black/African Americans is 38.21% and that of non-Hispanic white Americans is 31.65%. These shifts in the neighborhood are evident as windshield tours depict how luxury condominiums, townhomes, and high-rise complexes are replacing old buildings and single-family homes. CASPER utilizes a twostage cluster sampling methodology to prevent convenience sampling but it is important to note that the demographic breakdown of respondents may not represent the demographic distribution of residents. This has the potential to skew the data heavily, and further research is needed to elucidate the impact gentrification may have had on the long-term data.

RECOMMENDATION: Exercise caution when measuring data as averages across populations. Distributing resources equally in Third Ward may not have the intended impact. We must think differently about how we allocate resources, especially as it relates to the non-clinical health factors that disproportionately affect populations. Emphasis can be placed on Census tracts 3123, 3122, 3124, and 3127.



REFERENCES

- Centers for Disease Control and Prevention (CDC). Community Assessment for Public Health Emergency Response (CASPER) Toolkit: Second edition. Atlanta (GA): CDC; 2012.
- 2. Bayleyegn, T. M., Schnall, A. H., Ballou, S. G., Zane, D. F., Burrer, S. L., Noe, R. S., & Wolkin, A. F. (2015). Use of community assessments for public health emergency response (CASPERs) to rapidly assess public health issues—United States, 2003-2012. Prehospital and disaster medicine, 30(4), 374-381.

APPENDIX A | GLOSSARY OF KEY TERMS

- CASPER The Community Assessment for Public Health Emergency Response, is a robust epidemiologic technique. It is specifically designed to provide public health leaders and emergency managers with household-based information about a community. This ensures the data we gather is comprehensive and reliable, instilling confidence in the methodology.
- 2. Cluster-Non-overlapping section in a geographic area with a known number of households. The key metric's completion rate indicates how close interview teams came to collecting the desired number of interviews, typically n=210. Completion rates below 80% are considered unacceptably low, as they result in an insufficient number of completed interviews. To address this, it's recommended that additional interview teams be available to revisit low-responding clusters the following day(s) to complete data collection. In the 2023 Third Ward CASPER instance, a strike team was dispatched to low-responding clusters to ensure the recommended minimum of 168 interviews was reached.
- 3. Cooperation Rate: The corporation rate represents the proportion of completed interviews out of all households in which the interview teams contacted a person. This rate signifies the community's eligibility and willingness to complete the CASPER interview.

The lower the cooperation rate, the more the sample becomes one of convenience

- 4. Contact Rate: This rate represents the proportion of completed interviews out of all households the interview teams attempted to interview. Higher contact rates indicate better representativeness of the sample to the population. Lower contact rates indicate that interview teams had to attempt interviews at many households (i.e., knock on many doors) to obtain the final number of completed interviews. In this instance, the sample becomes more convenient in the second stage.
- Household- All dwelling inhabitants intended for occupancy as separate living quarters. This can be a house, apartment, single room, or group of rooms. Note: Each individual apartment in an apartment complex is considered a separate household.
- 6. Representative Sample- A subgroup representing the entire sampling frame or population from which the sample is drawn.
- 7. Sampling Frame- The population from which the sample is drawn.
- 8. Weight- The inverse of the probability that a given household will be included in the sample due to the sampling design.
- 19 Third Ward CASPER FINAL REPORT 2023

APPENDIX B | FREQUENCY TABLES

| | Unweighted N = 168 | Weighted N | Weighted % HH | 95% CI (lb.) | 95% Cl (ub.) |
|-------------------------|-----------------------|------------|------------------|--------------|--------------|
| Type of Structure | | | | | |
| Single Family Homes | 108 | 9820 | 66.89 | 54.74 | 79.05 |
| Multiple Units | 57 | 4684 | 31.9 | 19.28 | 44.52 |
| Other | 2 | 177 | 1.2 | 0 | 2.92 |
| Missing | 1 | - | - | - | - |
| Primary Language | | | | | |
| English | 143 | 12825 | 92.51 | 86.80 | 98.22 |
| Spanish | 11 | 862 | 6.22 | 0.54 | 11.89 |
| Other | 2 | 177 | 1.27 | 0.00 | 3.10 |
| Missing | 12 | - | - | - | - |
| Annual Income | | | | | |
| \$10-24K | 33 | 2430 | 18.05 | 7.42 | 28.68 |
| \$25K-34K | 12 | 965 | 7.16 | 1.83 | 12.50 |
| \$35K-49K | 9 | 766 | 5.69 | 1.43 | 9.95 |
| \$50K-74K | 29 | 2408 | 17.88 | 9.82 | 25.95 |
| \$75K+ | 34 | 2898 | 21.52 | 12.43 | 30.61 |
| \$75,000 or more | 36 | 3999 | 29.70 | 16.20 | 43.19 |
| Refused | 15 | - | - | - | - |
| Highest Education Level | | | | | |
| Never Attended School | 2 | 177 | 1.33 | 0.00 | 3.25 |
| Elementary School | 1 | 44 | 0.3 | 0.00 | 1.01 |
| Middle School | 3 | 243 | 1.82 | 0.00 | 4.00 |
| High School | 38 | 2924 | 21.94 | 13.67 | 30.21 |
| College | 107 | 9938 | 74.58 | 65.93 | 83.22 |
| Missing | 17 | - | - | - | - |
| | | | | | |

Table 2 | Weighted and unweighted frequencies of descriptive characteristics for households in Third Ward Houston, TX

Table 2 | Continued

| | Unweighted N = 168 | Weighted N | Weighted % HH | 95% CI (lb.) | 95% Cl (ub.) |
|---|-----------------------|------------|------------------|--------------|--------------|
| Employment Status | | | | | |
| Retired | 29 | 2607 | 18.21 | 10.86 | 25.57 |
| Self-Employed | 36 | 3030 | 21.17 | 14.46 | 27.88 |
| Student | 15 | 1296 | 9.06 | 0.00 | 19.12 |
| Unable to Work | 7 | 449.22 | 3.14 | 0.37 | 5.91 |
| Unemployed | 10 | 854.26 | 5.97 | 1.16 | 10.78 |
| Employed | 66 | 6076 | 42.45 | 31.27 | 53.62 |
| Missing | 5 | - | - | - | - |
| Race | | | | | |
| Hispanic | 30 | 2449 | 16.78 | 8.17 | 25.39 |
| Non-Hispanic Black/African American | 103 | 8432 | 57.78 | 42.7 | 72.78 |
| Non-Hispanic Asian, Native Hawaiian or Pacific Islander, or other | 7 | 608 | 4.16 | 1.34 | 6.99 |
| Non-Hispanic White | 26 | 3104 | 21.27 | 8.18 | 34.36 |
| Missing | 2 | - | - | - | - |
| Age | | | | | |
| <2 years old | | | | | |
| Yes | 5 | 361 | 2.44 | 0.29 | 4.59 |
| No | 163 | 14408 | 97.56 | 95.41 | 99.71 |
| 2-17 | | | | | |
| Yes | 28 | 2276 | 15.41 | 7.75 | 23.06 |
| No | 140 | 12494 | 84.59 | 76.94 | 92.25 |
| 18-64 | | | | | |
| Yes | 121 | 10833 | 73.35 | 63.05 | 83.64 |
| No | 47 | 3936 | 26.65 | 16.36 | 36.95 |
| >65 years | | | | | |
| Yes | 43 | 3494 | 23.66 | 14.01 | 85.99 |
| No | 125 | 11275 | 76.34 | 66.69 | 33.31 |

HH= Frequency of households (HH) | CI (ub)= Confidence interval upper bound | CI (lb) = Confidence interval lower bound

Table 3 | Weighted and unweighted frequencies of healthcare access characteristics for households in Third Ward Houston, TX

| | Unweighted N = 168 | Weighted N | Weighted % HH | 95% CI (lb.) | 95% CI (ub.) |
|--|-----------------------|------------|------------------|--------------|--------------|
| Any health insurance coverage | | | | | |
| No | 125 | 11223 | 78.01 | 71.09 | 84.94 |
| Yes | 38 | 3163 | 21.99 | 15.06 | 28.91 |
| Missing | 5 | - | - | - | - |
| Source of Coverage | | | | | |
| Harris FAP | 5 | 331 | 2.31 | 0.03 | 4.6 |
| Medicaid | 18 | 1355 | 9.46 | 3.57 | 15.35 |
| Medicare | 31 | 2585 | 18.04 | 10.60 | 25.48 |
| Military | 6 | 530 | 3.7 | 0.35 | 7.06 |
| Other Public Insurance | 5 | 368 | 2.57 | 0.1 | 5.04 |
| Private | 83 | 7924 | 55.31 | 44.13 | 66.48 |
| Self-Pay | 6 | 519 | 3.62 | 0.00 | 7.38 |
| State CHIP | 2 | 140 | 0.98 | 0.00 | 2.42 |
| Uninsured | 7 | 574 | 4.01 | 0.64 | 7.38 |
| Missing | 5 | - | - | - | - |
| Access to personal or family doctor | | | | | |
| No | 28 | 2894 | 20.67 | 9.02 | 32.31 |
| Yes | 130 | 11109 | 79.33 | 67.69 | 90.98 |
| Missing | 10 | | | | |
| Difficulty getting medical services | | | | | |
| No | 135 | 12011 | 83.86 | 77.24 | 90.47 |
| Yes | 28 | 2312 | 16.14 | 9.53 | 22.76 |
| Missing | 5 | - | - | - | - |

Table 3 | Continued

| | Unweighted N = 168 | Weighted N | Weighted % HH | 95% CI (Ib.) | 95% CI (ub.) |
|---|-----------------------|------------|------------------|--------------|--------------|
| Place visited most often to see a doctor | | | | | |
| A clinic of health center | 57 | 5199 | 35.63 | 22.97 | 48.29 |
| A doctor's office or other provider's office | 88 | 7707 | 52.81 | 39.03 | 66.59 |
| A hospital emergency room | 9 | 707 | 4.84 | 1.35 | 8.34 |
| A hospital outpatient department | 10 | 803 | 5.50 | 1.61 | 9.40 |
| Some other place | 2 | 177 | 1.21 | 0.00 | 2.94 |
| Missing | 2 | - | - | - | - |
| Reason for difficulty getting medical services | | | | | |
| Do not have a car or transportation | 3 | 280 | 11.59 | 0.00 | 23.61 |
| Do not have a doctor/clinic | 4 | 353 | 14.63 | 0.00 | 29.83 |
| Do not have enough money to pay for health care | 6 | 464 | 19.21 | 4.14 | 34.28 |
| Do not have insurance | 11 | 950 | 39.33 | 20.30 | 58.35 |
| Other reasons | 5 | 368 | 15.24 | 2.64 | 27.85 |
| Yes | 139 | - | - | - | - |
| Missing | 3 | 280 | 11.59 | 0.00 | 23.61 |

N= Frequency of households (HH) | CI (ub)= Confidence interval upper bound | CI (lb) = Confidence interval lower bound

 Table 4
 Weighted and unweighted frequencies of health status/wellbeing for households in Third Ward Houston, TX

| | Unweighted N = 168 | Weighted N | Weighted % HH | 95% CI (lb.) | 95% Cl (ub.) |
|-------------------------|-----------------------|------------|------------------|--------------|--------------|
| Personal Health Rating | | | | | |
| Excellent | 31 | 3251 | 22.01 | 12.32 | 31.71 |
| Very Good | 39 | 3145 | 21.29 | 13.90 | 28.68 |
| Good | 57 | 5107 | 34.58 | 25.63 | 43.53 |
| Fair | 34 | 2728 | 18.47 | 10.17 | 26.78 |
| Poor | 6 | 449 | 3.04 | 0.68 | 5.41 |
| Very Poor | 1 | 88 | 0.60 | 0.00 | 1.84 |
| Household Health Rating | | | | | |
| Excellent | 30 | 3082 | 24.74 | 13.13 | 36.35 |
| Very Good | 39 | 3181 | 25.54 | 17.24 | 33.84 |
| Good | 44 | 3892 | 31.24 | 23.80 | 38.69 |
| Fair | 25 | 2036 | 16.35 | 9.10 | 23.59 |
| Poor | 3 | 265 | 2.13 | 0 | 4.56 |
| Very Poor | 39 | 3181 | 25.54 | 17.24 | 33.84 |
| Missing | 27 | - | - | - | - |
| Heart Disease | | | | | |
| No | 139 | 12398 | 87.52 | 81.57 | 93.48 |
| Yes | 21 | 1767 | 12.48 | 6.52 | 18.43 |
| Missing | 8 | - | - | _ | - |
| Blood Pressure | | | | | |
| No | 103 | 9143 | 63.21 | 53.26 | 73.16 |
| Yes | 61 | 5321 | 36.79 | 26.84 | 46.74 |
| Missing | 4 | - | - | _ | - |
| Stroke | | | | | |
| No | 152 | 13388 | 93.14 | 89.03 | 97.24 |
| Yes | 11 | 987 | 6.86 | 2.76 | 10.97 |
| Missing | 5 | - | - | - | - |
| Asthma | | | | | |
| No | 139 | 12383 | 87.15 | 81.4 | 92.9 |
| Yes | 22 | 1826 | 12.85 | 7.1 | 18.6 |
| Missing | 7 | - | - | - | - |
| Cancer | | | | | |
| No | 145 | 12611 | 89.38 | 82.94 | 95.82 |
| Yes | 15 | 1499 | 10.62 | 4.18 | 17.06 |
| Missing | 8 | - | - | - | - |

Table 4 | Continued

| | Unweighted | | Weighted | | |
|---------------------------|------------|------------|----------|--------------|--------------|
| | N = 168 | Weighted N | % йн | 95% CI (Ib.) | 95% Cl (ub.) |
| High Cholesterol | | | | | |
| No | 116 | 10579 | 74.08 | 67.24 | 80.93 |
| Yes | 45 | 3701 | 25.92 | 19.07 | 32.76 |
| Missing | 7 | | | | |
| Overweight/Obesity | | | | | |
| No | 131 | 11665 | 81.21 | 74.32 | 88.1 |
| Yes | 32 | 2699 | 18.79 | 11.9 | 25.68 |
| Missing | 5 | | | | |
| Diabetes/High Blood Sugar | | | | | |
| No | 132 | 11812 | 82.47 | 75.75 | 89.18 |
| Yes | 30 | 2511 | 17.53 | 10.82 | 24.25 |
| Missing | 6 | | | | |
| Poor Mental Health | | | | | |
| No | 133 | 11547 | 80.82 | 72.53 | 89.12 |
| Yes | 29 | 2740 | 19.18 | 10.88 | 27.47 |
| Missing | 6 | | | | |
| Poor Physical Health | | | | | |
| No | 141 | 12567 | 87.96 | 82.29 | 93.64 |
| Yes | 21 | 1720 | 12.04 | 6.36 | 17.71 |
| Missing | 6 | | | | |
| COPD | | | | | |
| No | 151 | 13388 | 94.89 | 91.26 | 98.51 |
| Yes | 9 | 722 | 5.11 | 1.49 | 8.74 |
| Missing | 8 | | | | |
| Chronic Kidney Disease | | | | | |
| No | 154 | 13661 | 96.21 | 93.53 | 98.9 |
| Yes | 7 | 538 | 3.79 | 1.1 | 6.47 |
| Missing | 7 | | | | |
| Emotional Problems | | | | | |
| Extremely | 6 | 530 | 3.79 | 0.35 | 7.24 |
| Quite a lot | 15 | 1296 | 9.28 | 2.32 | 16.23 |
| Moderately | 24 | 2088 | 14.94 | 9.47 | 20.41 |
| Slightly | 22 | 2029 | 14.52 | 8.46 | 20.57 |
| Yes | 15 | 1499 | 10.62 | 4.18 | 17.06 |
| Missing | 8 | - | - | - | - |
| - | | | | | |

CoN= Frequency of households (HH) | CI (ub)= Confidence interval upper bound | CI (lb) = Confidence interval lower bound

 Table 5
 Weighted and unweighted frequencies of COVID characteristics and post COVID manifestations

| | Unweighted N = 168 | Weighted N | Weighted % HH | 95% CI (lb.) | 95% CI (ub.) |
|---|-----------------------|------------|------------------|--------------|--------------|
| Positive COVID test or | | | | | |
| symptoms | | | | | |
| No | 91 | 7416 | 51.13 | 41.05 | 61.21 |
| Yes | 74 | 7088 | 48.87 | 38.79 | 58.95 |
| Missing | 3 | | | | |
| Still Experiencing COVID symptoms | | | | | |
| No | 50 | 5144 | 81.94 | 68.39 | 95.48 |
| Yes | 13 | 1134 | 18.06 | 4.52 | 31.61 |
| Missing | 105 | | | | |
| Time since diagnosis | | | | | |
| 1 to 3 months | 5 | 405 | 5.79 | 0.00 | 12.12 |
| 3 to 6 months | 2 | 140 | 2.00 | 0.00 | 5.03 |
| 6 to 9 months | 4 | 353 | 5.06 | 0.00 | 10.91 |
| 9-12 months | 9 | 747 | 10.69 | 3.06 | 18.32 |
| 12 months or more | 52 | 5346 | 76.46 | 63.82 | 89.1 |
| Long COVID | | | | | |
| No | 50 | 5144 | 81.94 | 68.39 | 95.48 |
| Yes | 13 | 1134 | 18.06 | 4.52 | 31.61 |
| Missing | 105 | | | | |
| Worst COVID symptoms | | | | | |
| No symptoms | 3 | 486 | 7.04 | 0.00 | 16.17 |
| Mild | 25 | 2080 | 30.13 | 16.45 | 43.81 |
| Moderate | 32 | 3505 | 50.77 | 36.37 | 65.18 |
| Severe | 11 | 832 | 12.05 | 4.81 | 19.3 |
| Missing | 97 | | | | |
| Hospitalized for COVID | | | | | |
| No | 61 | 6028 | 87.77 | 79.24 | 96.31 |
| Yes | 10 | 840 | 12.23 | 3.69 | 20.76 |
| Missing | 97 | | | | |
| Outpatient clinic visit after COVID recovery | | | | | |
| No | 54 | 5505 | 79.73 | 69.38 | 90.09 |
| Yes | 17 | 1399 | 20.27 | 9.91 | 30.62 |
| Missing | 97 | | | | |
| COVID symptoms during infection | | | | | |
| Anxiety | | | | | |
| No | 163 | 14312 | 96.91 | 94.31 | 99.51 |
| Yes | 5 | 457 | 3.09 | 0.49 | 5.69 |

Table 5 | Continued

| | Unweighted N = 168 | d Weighted N | Weighted % HH | 95% Cl (lb.) | 95% CI (ub.) |
|-------------------|-----------------------|--------------|------------------|--------------|--------------|
| Brain Fog | | | | | |
| No | 149 | 12619 | 85.44 | 76.34 | 94.54 |
| Yes | 19 | 2150 | 14.56 | 5.46 | 23.66 |
| Chest Pair | n | | | | |
| No | 156 | 13782 | 93.32 | 89.30 | 97.34 |
| Yes | 12 | 987 | 6.68 | 2.66 | 10.7 |
| Constipat | ion | | | | |
| No | 165 | 14541 | 98.45 | 96.64 | 100.00 |
| Yes | 3 | 228 | 1.55 | 0 | 3.36 |
| Depressio | n | | | | |
| No | 165 | 14489 | 98.11 | 95.94 | 100.00 |
| Yes | 3 | 280 | 1.89 | 0 | 4.06 |
| Diarrhea | | | | | |
| No | 159 | 13775 | 93.27 | 88.43 | 98.10 |
| Yes | 9 | 994 | 6.73 | 1.9 | 11.57 |
| Dizziness | | | | | |
| No | 159 | 13782 | 93.32 | 88.16 | 98.47 |
| Yes | 9 | 987 | 6.68 | 1.53 | 11.84 |
| Exercise Ir | nability | | | | |
| No | 148 | 13105 | 88.73 | 83.36 | 94.10 |
| Yes | 20 | 1664 | 11.27 | 5.9 | 16.64 |
| Hair Loss | | | | | |
| No | 166 | 14592 | 98.80 | 97.09 | 100.00 |
| Yes | 2 | 177 | 1.2 | 0 | 2.91 |
| Headache | 2 | | | | |
| No | 144 | 12063 | 81.68 | 72.32 | 91.03 |
| Yes | 24 | 2706 | 18.32 | 8.97 | 27.68 |
| Heart Pal | | | | | |
| No | 161 | 14180 | 96.01 | 92.73 | 99.29 |
| Yes | 7 | 589 | 3.99 | 0.71 | 7.27 |
| Hypersom | | | | | |
| No | 163 | 14312 | 96.91 | 94.31 | 99.51 |
| Yes | 5 | 457 | 3.09 | 0.49 | 5.69 |
| Insomnia | | | | | |
| No | 163 | 14371 | 97.31 | 94.37 | 100.00 |
| Yes | 5 | 398 | 2.69 | 0 | 5.63 |
| Joint or M | luscle Pain | | | | |
| No | 130 | 10726 | 72.63 | 62.34 | 82.91 |
| Yes | 38 | 4043 | 27.37 | 17.09 | 37.66 |
| | | | | | |

N= Frequency of households (HH) | CI (ub)= Confidence interval upper bound | CI (lb) = Confidence interval lower bound

Table 5 | Continued

| | Unweighted N = 168 | Weighted N | Weighted % HH | 95% CI (lb.) | 95% Cl (ub.) |
|--------------------------|-----------------------|------------|------------------|--------------|--------------|
| Menstrual Changes | | | | | |
| No | 166 | 14592 | 98.80 | 97.09 | 100.00 |
| Yes | 2 | 177 | 1.2 | 0 | 2.91 |
| Nightmares | | | | | |
| No | 165 | 14489 | 98.11 | 95.94 | 100.00 |
| Yes | 3 | 280 | 1.89 | 0 | 4.06 |
| Rash | | | | | |
| No | 167 | 14681 | 99.40 | 98.16 | 100.00 |
| Yes | 1 | 88 | 0.6 | 0 | 1.84 |
| Shortness of Breath | | | | | |
| No | 144 | 12751 | 86.34 | 80.01 | 92.66 |
| Yes | 24 | 2018 | 13.66 | 7.34 | 19.99 |
| Taste or smell changes | | | | | |
| No | 142 | 11742 | 79.51 | 69.27 | 89.75 |
| Yes | 26 | 3027 | 20.49 | 10.25 | 30.73 |
| Tiredness or fatigue | | | | | |
| No | 111 | 9242 | 62.58 | 53.27 | 71.88 |
| Yes | 57 | 5527 | 37.42 | 28.12 | 46.73 |
| COVID symptoms lasting 3 | 30 days or more | | | | |
| Anxiety | | | | | |
| No | 163 | 14327 | 97.01 | 93.02 | 100.00 |
| Yes | 5 | 442 | 2.99 | 0 | 6.98 |
| Brain Fog | | | | | |
| No | 162 | 14320 | 96.96 | 94.59 | 99.32 |
| Yes | 6 | 449 | 3.04 | 0.68 | 5.41 |
| Chest Pain | | | | | |
| No | 164 | 14497 | 98.16 | 96.28 | 100.00 |
| Yes | 4 | 272 | 1.84 | 0 | 3.72 |
| Constipation | | | | | |
| No | 166 | 14592 | 98.80 | 97.09 | 100.00 |
| Yes | 2 | 177 | 1.2 | 0 | 2.91 |
| Depression | | | | | |
| No | 162 | 14261 | 96.56 | 93.93 | 99.18 |
| Yes | 6 | 508 | 3.44 | 0.82 | 6.07 |
| Diarrhea | | | | | |
| No | 166 | 14629 | 99.05 | 97.65 | 100.00 |
| Yes | 2 | 140 | 0.95 | 0 | 2.35 |
| Dizziness | | | | | |
| No | 164 | 14541 | 98.45 | 96.64 | 100.00 |
| Yes | 4 | 228 | 1.55 | 0 | 3.36 |
| Exercise Inability | | | | | |

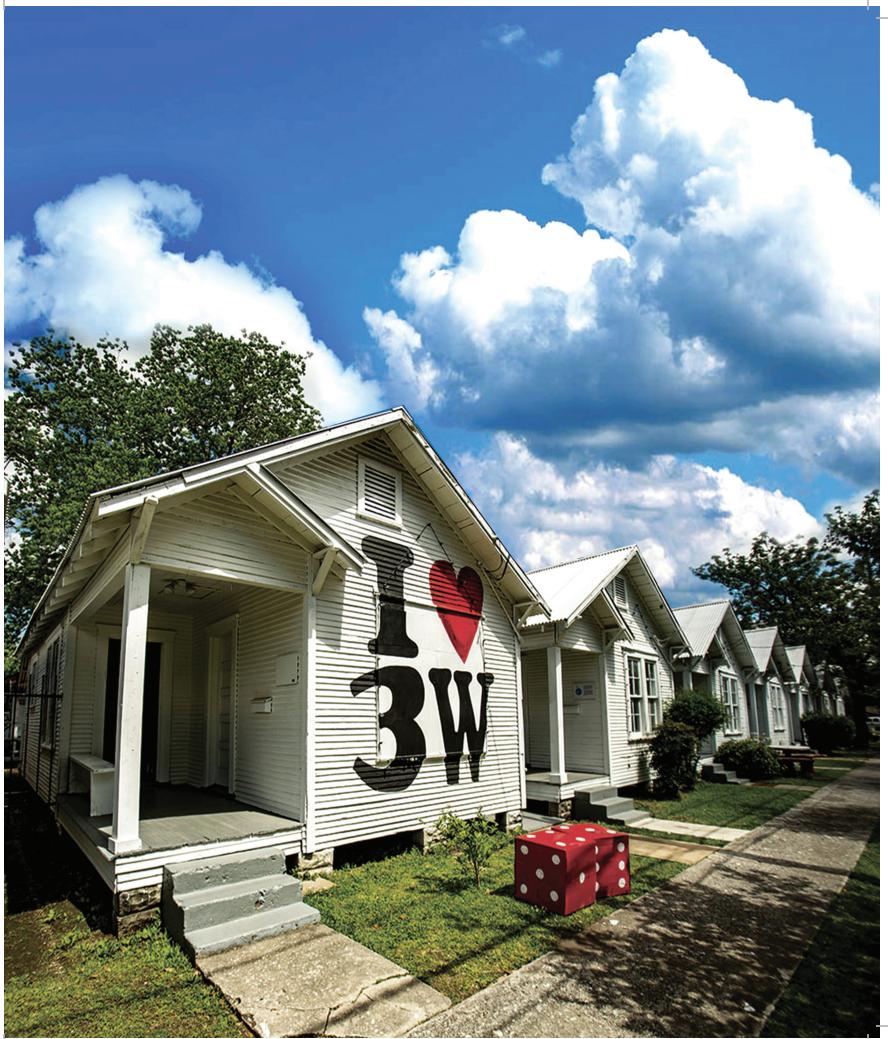
Table 5 | Continued

| | Unweighted N = 168 | Weighted N | Weighted % HH | 95% CI (lb.) | 95% CI (ub.) |
|------------------------|-----------------------|------------|------------------|--------------|--------------|
| No | 163 | 14357 | 97.21 | 94.78 | 99.64 |
| Yes | 5 | 412 | 2.79 | 0.36 | 5.22 |
| Hair Loss | | | | | |
| No | 164 | 14416 | 97.61 | 94.18 | 100.00 |
| Yes | 4 | 353 | 2.39 | 0 | 5.82 |
| Headache | | | | | |
| No | 164 | 14460 | 97.91 | 95.15 | 100.00 |
| Yes | 4 | 309 | 2.09 | 0 | 4.85 |
| Heart Palpitations | | | | | |
| No | 164 | 14460 | 97.91 | 95.81 | 100.00 |
| Yes | 4 | 309 | 2.09 | 0 | 4.19 |
| Hypersomnia | | | | | |
| No | 164 | 14445 | 97.81 | 95.60 | 100.00 |
| Yes | 4 | 324 | 2.19 | 0 | 4.4 |
| Insomnia | | | | | |
| No | 164 | 14445 | 97.81 | 95.60 | 100.00 |
| Yes | 4 | 324 | 2.19 | 0 | 4.4 |
| Joint or Muscle Pain | | | | | |
| No | 159 | 14084 | 95.36 | 92.49 | 98.24 |
| Yes | 9 | 685 | 4.64 | 1.76 | 7.51 |
| Menstrual Changes | | | | | |
| No | 166 | 14629 | 99.05 | 97.65 | 100.00 |
| Yes | 2 | 140 | 0.95 | 0 | 2.35 |
| Nightmares | | | | | |
| No | 165 | 14489 | 98.11 | 95.94 | 100.00 |
| Yes | 3 | 280 | 1.89 | 0 | 4.06 |
| Rash | | | | | |
| No | 166 | 14629 | 99.05 | 97.65 | 100.00 |
| Yes | 2 | 140 | 0.95 | 0 | 2.35 |
| Shortness of Breath | 100 | 14004 | 0.0.01 | 00.57 | 100.00 |
| No | 162 | 14224 | 96.31 | 92.57 | 100.00 |
| Yes | 6 | 545 | 3.69 | 0 | 7.43 |
| Taste or Smell changes | 105 | 14400 | 00.11 | | 100 |
| No | 165 | 14489 | 98.11 | 95.3 | 100 |
| Yes | 3 | 280 | 1.89 | 0 | 4.7 |
| Tiredness or Fatigue | 10.4 | 14401 | 0751 | | 00.00 |
| No | 164 | 14401 | 97.51 | 95.1 | 99.92 |
| Yes | 4 | 368 | 2.49 | 0.08 | 4.9 |
| Weightloss | | | | | |
| No | 163 | 14401 | 97.51 | 95.1 | 99.92 |
| Yes | 5 | 368 | 2.49 | 0.08 | 4.9 |

N= Frequency of households (HH) | CI (ub)= Confidence interval upper bound | CI (lb) = Confidence interval lower bound

 Table 6
 Weighted and unweighted frequencies of behavioral characteristics for households in Third Ward Houston, TX

| | Unweighted N = 168 | Weighted N | Weighted % HH | 95% CI (Ib.) | 95% CI (ub.) |
|---|-----------------------|------------|------------------|--------------|--------------|
| Moderate Physical Activity | | | | | |
| No | 26 | 2191 | 14.92 | 8.48 | 21.36 |
| Yes | 141 | 12490 | 85.08 | 78.64 | 91.52 |
| Missing | 1 | - | - | - | - |
| Walk Outside Home Frequency | | | | | |
| Often | 115 | 10295 | 73.91 | 65.42 | 82.39 |
| Sometimes | 24 | 1889 | 13.56 | 7.44 | 19.68 |
| Seldom | 16 | 1303 | 9.36 | 4.88 | 13.83 |
| Never | 6 | 442 | 3.17 | 0.00 | 6.43 |
| Missing | 7 | - | - | - | - |
| Emotional Problems Keeping from Work | | | | | |
| Quite a lot | 14 | 1215 | 8.81 | 2.63 | 14.98 |
| Somewhat | 16 | 1303 | 9.45 | 4.44 | 14.45 |
| Very little | 15 | 1270 | 9.21 | 3.87 | 14.54 |
| None at all | 112 | 10008 | 72.54 | 60.94 | 84.14 |
| Missing | 11 | - | - | _ | _ |
| 3 to 5 Fruit and Vegetable Servings | | | | | |
| No | 50 | 4334 | 30.25 | 23.82 | 36.68 |
| Yes | 113 | 9993 | 69.75 | 63.32 | 76.18 |
| Missing | 5 | - | - | - | - |
| Fruits and Vegetables at Grocery | | | | | |
| No | 8 | 707 | 4.9 | 0.96 | 8.85 |
| Yes | 156 | 13709 | 95.1 | 91.15 | 99.04 |
| Missing | 4 | - | - | - | - |
| Currently Controlling or Monitoring Weight | | | | | |
| No | 51 | 5081 | 35.47 | 23.72 | 47.21 |
| Yes | 112 | 9246 | 64.53 | 52.79 | 76.28 |
| Missing | 5 | - | - | - | - |
| Currently Smoke | | | | | |
| No | 114 | 10398 | 71.69 | 63.99 | 79.4 |
| Yes | 51 | 4106 | 28.31 | 20.60 | 36.01 |
| Missing | 3 | - | - | _ | - |



Third Ward CASPER 2023 FINAL REPORT

For questions, please contact **Zuri Dale** at **713.313.7554** or via email at **zuri.dale@tsu.edu**

For media inquiries please contact media@tsu.edu or call 713.313.7421

Texas Southern University 3100 Cleburne Street Houston, Texas 77004

© 2024 Third Ward Casper Final Report. All rights reserved.

