

The Need for Caring in North and Central Brooklyn **The Community Survey**

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Executive Summary

The study, *The Need for Caring in North and Central Brooklyn*, was undertaken as a Community Health Needs Assessment to determine needs, barriers, and gaps in access to health care services in 15 zip codes in this part of Brooklyn. The communities identified have long been known as medically underserved and in need of more equal treatment. The communities are: Bushwick, Beford-Stuyvesant, East New York, Williamsburg, Brownsville and East Flatbush, Crown Heights, Flatbush, Fort Greene. Other communities included in this study are: Downtown Brooklyn, Gowanus, and Greenpoint.

The *Need for Caring* study was undertaken by a partnership of three community organizations with significant academic back-up. The original goal was to undertake a survey of 600 community residents and a series of focus groups to capture populations that would not be part of the survey. Six hundred forty four surveys were completed in the 15 zip codes. To ensure that the surveyed reflected the community, there were four screening questions: income and household size, age, and residence in one of the 15 zip codes.

The quantitative part of the survey contains ten demographic questions and 29 questions that address the persons' health care experience, including access to and barriers to care. The survey also includes qualitative questions in the form of three open-ended questions and additional requests for information added to the quantitative questions. The focus groups bring an additional dimension and focus on the qualitative findings of this study.

Important Findings:

- The population captured in this survey mirrors the general population of the community in which the 15 zip codes are located in North and Central Brooklyn.
 - 39% of the respondents in this survey are foreign-born, and 40% of the population of Brooklyn is foreign-born.
 - Race and Ethnicity -- over 80% of the respondents in the survey are Black and Latino. The population of Central Brooklyn is 80% Black, including African Americans and Caribbean/West Indians.
 - The income for people who are working in this study appears to be lower than the median income in the identified zip codes. In the *Need for Caring* 58 percent (201 of the 300 respondents) indicated an income less than \$30,000 per year. The lowest median income is found in 11237 (\$23,104). Several of the zip codes had median incomes a little higher

than \$30,000 per year (11206, 11233, 11216, 11208, 11207). The highest median incomes are found in: 11201 (\$56,293) and 11217 (\$49,567).

Access to care was not always available within all of the zip codes studied. Doctors and Dentists are the most frequently named providers that are needed. The types of services which respondents had most difficulty accessing by zip code are:

- A doctor or nurse – 11212 (20.5%), 11226 (25.9%), 11201 (31.3%).
- Dentist – 11221 (27.8%), 11206 (29.6%), 11208 (29.4%), 11212 (23.1%), 11205 (30.4%), 11217 (30.4%), 11222 (33.3%).
- Prenatal Care – 11212 (15.4%), 11238 (21.7%)
- Pediatrics – 11221 (19.4%)

In the open-ended questions on the survey, the same types of services were identified as needed in the community: Dental care (86), more doctors and clinics (76), pediatricians (35), OB/GYN (38), mental health (32), and geriatric services (18), were the most frequently mentioned as services needed in the community. A 2008 study by the City Council and done by the Health and Hospitals Corporation, listed the same services as needed in the community. Put in cite.

Specialty care services were also mentioned frequently as needed in the community are: general specialists (44), eye doctor (14), cardiologist (10), and orthopedist. Services for special populations, is identified ten times. Recreation and preventive services was identified by eight people.

Barriers to care were also identified. Respondents were read a list of issues and asked to check all that apply. “Did any of the following ever limit your ability to secure health care or cause you to wait before you or your household member went to the doctor or nurse in your neighborhood?” Almost half of the respondents (48.6%) have not had limited ability to secure health care services. The highest percent of reasons given by zip code as barriers to care are:

- Could not afford the bill by zip code – 11238 (37.5%), 11201 (22.2%)
- No health insurance by zip code – 11208 (19.5%), 11212 (21.4%), 11238 (25%), 11201 (33.3%), and 11233 (29.6%).
- Had to wait too long to get an appointment by zip code – 11237 (42.9%), 11221 (52.6%), 11212 (21.4%), 11238 (20.8%), and 11222 (33.3%), 11213 (14.5%)
- Had to wait too long at the appointment by zip code – 11237 (36.7%), 11221 (28.9%), and 11238 (16.9%).
- Have not had limits accessing doctor or nurse by zip code – 11206 (29.6%), 11207 (25.5%), 11217 (38.5%) and 11213 (49.1%).

Special Findings

Of all of the people with different race and ethnicity cited, African Americans had the highest number and percent of persons using the emergency room in the last two years, 155, which was 51.5% of the African American respondents. Of this total, the highest number of visits to the ER by African Americans was found in: 11205 (12), 11207 (17), 11208 (17), 11212 (30 – more than half of those surveyed), 11216 (16), and 11226 (12). 54 of the African American ER users are male, 95 are female. 22 are married, 126 are not married. 67 are working and 79 are not working. 140 of the 155 African Americans (90%) have health insurance coverage, 79 are covered by Medicaid. There is high incidence of illnesses found in the African American population surveyed: 50 have asthma; 26 have diabetes; 46 have high blood pressure, 23 have bone and joint problems, 29 have hearing or vision problems, and 19 are depressed.

Pictures of the Communities

To develop the pictures of the communities below, zip codes were combined based on: contiguous borders; similar populations; and the priority code assigned to them. The data in each zip code that was collected during the survey and reported in this profile, is out-of-the-ordinary, and stands out as important information to review and understand. This information about the communities is from the analysis of the Community Health Survey – *The Need for Caring in North and Central Brooklyn*.

The data on median income for these zip codes is for the population of the entire zip code.

11237 has the lowest median income - \$23,104. In 11206, the median income is somewhat higher at \$33,657. In 11221, 11233, and 11216, the median income ranges from \$34,863 to \$43,236. In 11205, \$32,698 is the median income. In 11238, the median income is \$39,503. In 11207, the median income is \$33,657. In 11208, the median income is \$33,657. In 11212, the median income is \$44,264. In 11213, the median income is \$39,503. In 11216, the median income is \$42,071. The median income in 11201 is the highest of any of the zip codes, \$56,293. In 11217, the median income is \$49,567. In 11222, the median income is \$33,578.

Bushwick – 11237 (49 surveyed) – Williamsburg – 11206 (55 surveyed)

Race/Ethnicity/Foreign-born- In 11237, 95.9% self-identified as Latino/Hispanic, with 89.4% foreign-born,

- **Insurance-** 16.3% uninsured
- **Illnesses** – In 11237, 12% Asthma, 30.6% High Blood Pressure, 20.4% Diabetes, 28.6% Hearing and Vision Problems. In 11206, 36.4% indicated they

have none of the health conditions. 34% said they go to a doctor when they don't feel well.

- **Provider type-** In 11237, 68.9% receive care in a hospital clinic. In 11206, 73.3% of visits are made to a doctors' office.
- **Reason for going for care outside the neighborhood-** In 11237, 40% wait too long to get an appointment. 40% wait too long at an appointment. In 11206, 70.4% of visits outside of the neighborhood are to see a specialist. 33.3% of the time is for referred care.

Bedford – Stuyvesant – 11221, 11233, 11216. (40, 27, 38 surveyed respectively)

- **Race/Ethnicity/Foreign-born-** More than 50% of population in 11216 is African American. Large Caribbean/West Indian population in 11216. Latino population in 11221. 67.5% in 11221 are foreign-born. 40.7% in 11233 are foreign born.
- **Insurance/Employment-** 14.8% are uninsured in 11233, 60.5% in 11216 are not working. .
- **Illnesses** – 22.5% Asthma in 11221. 18.5% (11233) and 21.1% have hypertension in 11216. 18.4% have diabetes in 11216. 30% (11221) and 18.4% (11216) have hearing or vision problems.
- **Reason for visiting provider** – 11233 medical emergency 33.3%.
- 8.5% had no visits in the neighborhood in 11233.
- **Provider type** – 45.9% in 11221 received care in a hospital clinic. 41.4% received care in a community health center in 11216.
- **Reasons for going for care outside the neighborhood** – referred to care 33.3% in 11216, 22.2% not satisfied with care in 11216.

Bedford Stuyvesant and Fort Greene – 11205 (64 surveyed) – Prospect Heights – 11238 (27 surveyed)

- **Employment-** in 11205, 46.8% of the respondents are not working
- **Illnesses-** in 11205, 35.9% indicated hypertension. In 11238, 51.9% said they have none of the conditions named.
- **Reason for visiting provider-** In 11205, 41.7% sent to the doctor because they were not feeling well.
- **Provider type-** In 11205, 55.2% received their care in a doctors' office. In 11238, 61.6% received their care in a doctors' office.
- **Reasons for going for care outside the neighborhood** – In 11205, 58.6% to see a specialist and 27.6% not satisfied with care in the neighborhood. In 11238, 30% said they were referred for care outside the neighborhood.

East New York – 11207 (50 surveyed) -- Cypress Hills/Clinton Hill -- 11208 (54 surveyed) – Brownsville/East Flatbush – 11212 (53 surveyed)

- **Race/Ethnicity/Foreign-born-** In 11207, More than 50% of the population is African American. There is also a large number of Caribbean/West Indians. In 11208, more than 50% of the population are African American. In 11212, more than 50% of the population are African American.
- **Employment/Insurance-** In 11207, 58% of this population is not working. 16% are uninsured. In 11208, 51.9% said they are not working. 13% are uninsured. In 11212, 51% said they are not working.
- **Illnesses-** in 11207, 22% have Asthma, 24% have high blood pressure, 42% have none of the conditions. In 11208, 29.6% have Asthma, 16.7% have diabetes, 38.9% have none of the health conditions. In 11212, 39.6% have Asthma, 39.6% have high blood pressure, 30.2% have diabetes, 15.1% have hearing or vision problems.
- **Reason for visiting a provider** – In 11207, 44.4% did not feel well. 34.8% for a medical emergency, 41.3% when they do not feel well. In 11212, 52.9% for an emergency, 58.8% when they do not feel well.
- In 11207, 11% of visits are outside the neighborhood. **Reasons for going for care outside the neighborhood** – 57.9% are to see a specialist. In 11208, 9.3% have no visits in the neighborhood. 25.9% said they are not satisfied with the care in the neighborhood.
- **Provider type-** In 11207, 41.7% of visits to a provider are made at a Community Health Center. In 11208, 46.3% of visits are to a Community Health Center and 48.8% are to a doctors' office. In 11212, 37% of visits are to an emergency room, 54.3% are made at Community Health Center, and 45.7% are at a doctors' office.

Crown Heights – 11213 (55 surveyed)

- **Race/Ethnicity/Foreign-born-** More than 50% of the population are African Americans.
- **Employment** - 43.7% are not working.
- **Illnesses-** 23.6% have high blood pressure, 16.4% have hearing or vision problems, 47.4% indicated they had none of the health conditions.
- **Reason for visiting provider-** 47.2% when they do not feel well.
- **Provider type-** 53.3% of visits in hospital clinics.
- 8.5% have no visits in the neighborhood. **Reasons for going for care outside the neighborhood-** 52.2% of visits outside the neighborhood are to see a specialist, 30.4% are because the person was referred.

Flatbush – 11226 (83 surveyed)

- **Race/Ethnicity/Foreign-born-** There are large numbers of Caribbean/West Indians. 74.7% of those interviewed are foreign-born.
- **Insurance-** 14.5% of those interviewed are uninsured.
- **Illnesses-** 28.9% have high blood pressure, 22.9% have diabetes, 36.1% have none of the conditions named.
- **Reason for visiting provider-** 44.6% go to the doctor when they do not feel well.
- **Provider type-** 57.3% go for care at a doctors' office.

Downtown Brooklyn – 11201 (18 surveyed) -- Gowanus – 11217 (28 surveyed) – Greenpoint – 11222 (3 surveyed)

- **Race/Ethnicity/Foreign-born-** In 11217, More than 50% of the population surveyed are African American. There were many Latinos interviewed. In 11222, of the 3 people interviewed, a number are Latino. In 11201, 61.1% are foreign-born. 13 of the 18 people surveyed in 11201 self-identified as Arab/Middle Eastern.
- **Employment/Insurance-** In 11201, 72.2% are not working. 22.2% are uninsured. In 11217, 46.8% are not working, and 21.4% are uninsured.
- **Illnesses-** In 11201, 50% indicated they have none of the conditions named. In 11217, 35.7% have high blood pressure. 35.7% have none of the conditions named.
- **Provider type-** In 11217, 42.9% go for care in a hospital clinics, 50% go for care in a doctors' office. In 11222, 66.7% visit a Community Health Center for their care.
- In 11217, 10.2% made no visits in their neighborhood.

Recommendations

The information gathered from the 644 community residents in the North and Central Brooklyn communities provides important directions for moving forward in providing services and coordinating efforts to improve health and living conditions. The target of this survey was lower-income residents so the recommendations we make may not be applicable to the whole community, but does address needs of the population not necessarily well-served now by the health system.

The 15 zip codes targeted for this survey differ from other communities, and from each other in many respects. In preparing to survey within these zip codes, priority was given to those areas with: over 50% of residents Medicaid and uninsured, the least number of

Full Time Equivalent primary care providers per 1,000 population, the highest percent of African American and Latino residents, and those identified in another study as “Hot Spots.” The highest need communities were defined as: Bushwick, Bedford-Stuyvesant, East New York, Williamsburg, Brownsville, Crown Height, Clinton Hills and Cypress Hills, Flatbush, Prospect Heights, and Fort Greene. The analysis of the surveys show that these communities have important health care access and health care needs. Particular services needed were identified by survey respondents in some zip codes, however this does not mean that other zip codes have sufficient amount of these services.

Our recommendations, based on this survey, are:

- Focused attention on particular illnesses and communities in order to target services where they are most needed.
 - Asthma, Diabetes, and Hypertension were identified as prevalent conditions and often the reason for a visit to the Emergency Room. These conditions can be treated on an outpatient basis, when comprehensive, continuous primary care is available to residents. Targeting of additional services to many of the community, is important and in particular to Bushwick (11237), East New York (11207), and Cypress Hills (11208).
- The highest prevalence of Asthma is found in a cluster of neighborhoods: Brownsville (11212), Cypress Hills (11208), East New York (11207), and Bushwick (11237). Medical care alone cannot ameliorate this condition. We recommend the need for an air quality study and identification of triggers in ambient air in these neighborhoods, with a plan to address this problem.
- There is a need for more primary care practitioners that accept public health insurance, particularly in Brownsville and East Flatbush (11212), Flatbush (11226), and Arabic-speaking doctors who accept public health insurance in 11201. We recommend a coordinated campaign to reach out to, and work with, practitioners in these and other zip codes to encourage doctors and clinics to accept public health insurance and broaden the numbers of managed care companies that they contract with since almost all Medicaid patients are now required to be enrolled in managed care. With the introduction of the Affordable Care Act’s increase in primary care reimbursement, there may be more receptivity to this campaign.
- Other primary care practitioners in short supply and mentioned as needed are OB/GYN and pediatricians. Prenatal care is needed in Brownsville and Flatbush (11212), and Prospect Heights (11238). Pediatricians are needed in Bedford-Stuyvesant and Bushwick (11211).

- Dental care was the most often cited service not available, but needed in North and Central Brooklyn communities. Considering our knowledge of how important proper care of the mouth is to better health status, this should be a priority for action and resources. These services are particularly needed in: Bedford-Stuyvesant and Bushwick (11211), Williamsburg (11206), Cypress Hills (11208), Brownsville and East Flatbush (11212), Bedford Stuyvesant and Fort Greene (11205), Gowanus (11217), and Greenpoint (11222).
- The finding of high use of Emergency Room services by African American residents and persons insured by Medicaid requires special attention. One way of addressing this problem is to ensure that primary care services are available in the community and that the hours of operation of these services address people's work, school, or other schedules. Another way to address this problem is to interview and work with community residents to help in defining a message and means of conveying the message, to encourage use of alternative services. The problem has been well-documented in this and other studies, but the process of figuring out ground-level solutions is still elusive. Special attention should be paid to: Brownsville and East Flatbush (11212), Cypress Hills (11208), East New York (11207), and Bushwick (11237).
- Two major barriers to accessing care identified by many of the respondents are: too long a wait to get an appointment and too long a wait at the appointment. One recommendation to address these access barriers is a coordinated effort amongst providers in the community to share provider resources and ensure that services are available where they are needed, and where people go for care.
- To ensure that culturally and linguistically competent information is available in the communities it would be helpful to develop a coordinated network of health care providers, social service providers, and community-based organizations to ensure that they are working together to assist community residents.

“Brooklyn faces daunting population health challenges. High rates of chronic disease are exacting a human and economic toll.”

“Community health care needs and health care resources vary widely by neighborhood. Disparities in health status are also associated with poverty, race and ethnicity.”¹

THE NEED FOR CARING IN NORTH AND CENTRAL BROOKLYN

INTRODUCTION

Need for this Study

The study, *The Need for Caring in North and Central Brooklyn*, was undertaken as a Community Health Needs Assessment to determine needs, barriers, and gaps in access to health care services in 15 zip codes in this part of Brooklyn. The communities identified have long been known as medically underserved and in need of more equal treatment. The communities are: Bushwick, Beford-Stuyvesant, East New York, Williamsburg, Brownsville and East Flatbush, Crown Heights, Flatbush, Fort Greene. Other communities included in this study are: Downtown Brooklyn, Gowanus, and Greenpoint.

This study was undertaken by community-based organizations to document health needs in the community. At the same time, a national consultant, Navigant worked on a review of hospital finances and market strategies in order to propose recommendations for the two hospitals involved – Interfaith Medical Center and The Brooklyn Hospital Center. Other communities around the state are similarly challenged and could use this study – *The Need for Caring in North and Central Brooklyn* -- as a model of the way to document the needs and gaps in care and services in their neighborhoods.

The health care system in North and Central Brooklyn is under challenge to change by an official state study recommending mergers, closings, and reductions in beds. These communities have long been recognized as medically underserved, where poverty and illnesses are intertwined. Residents are often medically uninsured or rely on public health insurance coverage to pay for their health care services. This leads to financial challenges for the health care providers serving these communities. Past, and current, studies have shown problems with access to, and gaps in care and services, and the need for expansion of access to distinct services identified by community residents in their neighborhoods.

The intent of this research is to directly influence the proposed merger (and any decisions about structural changes to Brooklyn's healthcare system), by highlighting the health needs of the community. The research was funded by the New York State Health Department, Brooklyn Hospital, and the Foundation at Interfaith Hospital.

The Background

The financial fragility of hospitals in North and Central Brooklyn was acknowledged in 2011 and made the subject of a special Task Force set up by the New York State Commissioner of Health, Dr. Nirav Shah. The five-member Task Force – the Health Systems Redesign: Brooklyn Working Group (the Berger group) – was charged with reviewing five hospitals in the community, and making recommendations about their future. They were to assess the strengths and weaknesses of Brooklyn Hospitals and the health care system. This Task Force, a part of the Medicaid Redesign Team (MRT), was appointed by the newly elected Governor, Andrew Cuomo.² The initial goal of the MRT was to make recommendations on how to reduce the state's share of the Medicaid budget, by \$2.3 billion. The second phase of the work of the MRT was a series of work groups charged with recommending health system redesign, the Berger Brooklyn committee was a part of this phase.

The need for health services in North and Central Brooklyn is long-recognized. At the same time that the Berger Group initiated its work, State Senate Minority Leader John Sampson and Borough President Marty Markowitz formed a Brooklyn-based Work Group (Sampson Group) to develop recommendations.³ Contrary to the membership of the Berger group, the membership of this group was Brooklyn focused, including health care providers, unions, community-based organizations, and advocacy groups. Although it did not make any specific recommendations about the five vulnerable hospitals, the Sampson group developed an important frame work for designing the health system. (Appendix 1).

The Berger group held two public hearings, visited all of the hospitals in Brooklyn, and contracted with experts to analyze financial and other data. The Berger Group report and recommendations were sweeping and raised concerns about continued services in underserved communities. The specific recommendations for the hospitals included:⁴

- merging Interfaith and Wyckoff with Brooklyn Hospital which was designated to take the lead;
- merging Brookdale Hospital with Kingsbrook Jewish which was designated to take the lead;
- closing the hospital services at Downstate University Hospital and merging these services into the Long Island College Hospital which had been merged with Downstate; and

- closing Kingsboro State Psychiatric Hospital and shifting the patients and services to a hospital in Staten Island.
- closing 1,200 hospital beds.

In addition, the Berger report recommended the availability of Health Care Efficiency and Affordability Law (HEAL) to assist in accomplishing these actions. HEAL dollars are federal and state funds distributed through a competitive process through the State Health Department, and generally used for capital projects.

These recommendations mobilized community, union, and elected officials into action. One of the outcomes of the Berger recommendations was the development of a Community Health Work Group to plan with Brooklyn, Interfaith, and Wyckoff Hospitals. Wyckoff Hospital, with a new administration, chose not to participate in this planning effort. The membership of this group includes: Interfaith and Brooklyn Hospitals, Community Health Centers, community organizations, and the three partners of The Need for Caring – Brooklyn Perinatal Network (BPN), Commission on the Public’s Health System (CPHS), and New York Lawyers for the Public Interest (NYLPI). With state funding, The Brooklyn Hospital Center contracted with Navigant Consulting to gather data and guide the hospitals through restructuring proposals.

Members of the Save Our Safety Net – Campaign (SOS-C),⁵ who had been involved in the Sampson/Markowitz Task Force work, were invited to join the Community Health Working Group by Senator Sampson. These groups were asked to indicate community needs to which they responded that they would need to go out and talk with community residents in order to identify with them, their needs. Under the leadership of the Brooklyn Perinatal Network, a proposal for funding was developed and submitted. The Community Health Needs Assessment, to do the surveying and focus groups, was developed and funded by the State Health Department, the foundation at Interfaith Hospital, and The Brooklyn Hospital Center.

The agreement by the three partners in this assessment – BPN, CPHS, and NYLPI – was to develop a survey instrument, define the zip codes of interest, develop focus groups of populations that would be missed in the survey, and contract with an academic center to assist and advise the partners on ways to make study valid. The CUNY Institute for Health Equity (CIHE) became the academic partner in this effort.

LITERATURE SEARCH

Community Health Needs Assessment is defined by the National Institute for Clinical Excellence (NICE) as: “a systematic method for reviewing the health issues facing a population, leading to agreed priorities and resource allocation that will improve health and reduce inequalities.”⁶ Although some CHNA definitions place more emphasis on

the data collection and analysis, while others on the implementation and policy development – the commonality remains in the emphasis on community engagement in the design, data collection, analysis, and interpretation of the assessment.

To conduct the Community Health Needs Assessment (CHNA), a Community Based Participatory Approach (CBPR) was employed. Community-engaged approaches to research, like CBPR, have the potential to reduce and/or eliminate racial and ethnic health disparities.⁷ CBPR can be defined as:

“(A) a collaborative research approach that is designed to ensure and establish structures for participation by communities affected by the issue being studied, representatives of organizations, and researchers in all aspects of the research process to improve health and well-being through taking action, including social change.”⁸

CBPR can help bridge the gap between researcher and community stakeholders in meaningful ways. For example, CBPR helps to address the lack of trust of community members may have. The lack of trust challenge is of particular concern for our study as the literature shows that trust within partnerships is paramount, particularly within the African-American community, which is “more likely than the majority population to believe that health research holds personal risk and that full disclosure is not afforded minority populations.”⁹ In addition, building trust is also important for reducing health disparities, which can “be addressed [when] culturally relevant, trustworthy approaches are employed.”¹⁰

Part of the impetus for undertaking the Community Health Needs Assessment is the concern with the impact of potential closing of safety net facilities, or the merger of hospitals that leads to reductions of services in medically underserved communities. The three hospitals whose catchment areas are the major focus of this study can all be defined as safety-net hospitals, based on a definition in the “Berger” report.¹¹

- “1. Is situated in and serve a high need community, often characteristically by poverty, public health challenges, low levels of educational attainment, and other psychological demands, like drug and alcohol abuse and inadequate housing;
2. Fulfills otherwise unmet health care needs in a community;
3. Serves a high volume of Medicaid and medically indigent patients;
4. Serves comparatively few commercially-insured patients;
5. Is typically located in a federally-designated Medically Underserved Area (MUA) or Health Professional Shortage Area (HPSA);
6. Principally provides core medical and surgical services, such as obstetrics, pediatrics, and internal medicine, and behavioral health services.”¹²

The literature shows that having nearby safety-net resources, in particular hospital emergency departments and public hospitals had positive effects on service utilization

and access to care for the uninsured.¹³ The literature also suggests that although all patients are impacted when safety net hospitals are closed, Medicaid and uninsured patients may experience a greater impact because it is more difficult for them to find an acceptable alternative facility where they can get care.¹⁴

To date, the professional literature is inconclusive with regards to the impact of hospital mergers on patient care. The vast majority of the literature focuses on the financial and management impacts rather than quality of care.¹⁵ There is very little professional literature that looks at the impact of mergers of safety net facilities in medically underserved communities. There are however, media reports about the untoward impact of the merger of the Catholic hospitals in New York City into one management and governance structure. In an effort to be more efficient, all Catholic Hospitals in New York City in 1999 were merged as the St. Vincent Catholic Medical Center.

The merger, in addition to the flagship St. Vincent's in Manhattan, included: Bayley Seton and St. Vincent's on Staten Island; Mary Immaculate, St. John's and St. Joseph's in Queens; St. Mary's in Bedford Stuyvesant in Brooklyn, and a facility in Westchester.¹⁶ All of these hospitals were sold or closed, and all, except for St. Vincent's in Manhattan, were located in medically underserved communities. In court papers filed for bankruptcy of the entire system, there was documentation of incompetent leadership as well as millions of dollars spent and wasted on a management company hired as turn-around consultants. A law suit filed against the company accused them of padding their bills, and paying for expenses such as membership in a private university club, opera tickets, and hundreds of dinners in Manhattan restaurants.¹⁷

More directly related to the current review, St. Mary's Hospital in Bedford-Stuyvesant closed in 2004, and was the third of the St. Vincent Catholic Medical Center hospitals to close in one year.¹⁸ The closing also meant the eventual closing of all but one of the seven community health centers the hospital operated along with several WIC centers, leaving an already underserved community with even fewer services.

THE COMMUNITIES

North and Central Brooklyn have long been recognized as medically underserved communities. Poverty is concentrated in the north central neighborhoods of Brooklyn¹⁹ where greater than 30 percent of the population in 2000 lived in poverty. The area also had the highest mortality rates overall. Several of the zip codes have up to 41% of the residents who have been told they have high blood pressure by a medical provider.²⁰ In the same survey, three of the Central Brooklyn neighborhoods reported not getting needed medical care in the past year (14.7% - 19.7%). Another indicator of poverty is seen in the percent of Uninsured and Medicaid population at greater than 50%²¹. The

map in Appendix 2 outlines the communities targeted for *The Need for Caring*. The following zip codes are identified with greater than 50%: 11237 (68.5%), 11221 (60.1%), 11233 (60.1%), 11207 (58.3%), 11206 (50.9%), 11216 (60.1%), 11208 (58.3%), and 11222 (50.9%).

A large percent of the residents of North and Central Brooklyn, are people of color and immigrants, larger percent than the population of the city itself. The African American population is 25.1% of the city, and the Latino population is 27.5% of the city. In Central Brooklyn, the Black and Latino population is close to 80%. The zip codes with the highest percent of residents who are people of color are: 11237, 11221, 11233, 11207, 11212, 11216, 11213, 11208, 11238, and 11205.

Prevention Quality Indicators (PQI) measure inpatient hospital visits that might have been avoided or treated through better preventative care. Communities in the northeast section of Brooklyn have the highest PQI rates.²² Statewide four percent of admissions are potentially preventable. In Brooklyn the following hospitals in 2009, exceeded the four percent mark (in order of highest percent to lowest): Long Island College, SUNY Downstate, Kingsbrook Jewish, Wyckoff, and Brooklyn Hospitals. Emergency Department use in Brooklyn is not much different than the rest of the city or the state for Not Emergency category, and emergent but primary care treatable.

The Brooklyn Healthcare Improvement Project (B-HIP) provided important information on the use of Emergency Room services in North and Central Brooklyn, overlapping almost the same zip codes as used in *The Need for Caring*²³. The *Need for Caring* study complements the B-HIP study as it interviews residents in the community as opposed to the Emergency Room. In the B-HIP, patients and staff were interviewed in the Emergency Rooms of the 6 hospitals participating in the project. In addition, canvassers were hired to locate provider sites within the community and to estimate the numbers of health care providers available in the selected zip codes. The B-HIP study concluded that: "There appears to be a shortage of quality, accessible primary care throughout much of the study area coupled with challenges to full utilization of existing PCP's."²⁴ The zip codes identified as having a shortage of Primary Care FTE to 1500 population are: 11237, 11221, 11233, 11207, 11206, and 11212.²⁵

The B-HIP also identified communities which were labeled "Hot Spots" which are described as being densely populated "with the highest average annual rates of ACSC hospital discharges and ED utilization in the study area along with high incidence of chronic diseases."²⁶ ACSC is defined as Ambulatory Care Sensitive Conditions that could have been treated on an outpatient basis. ED is the Emergency Department. The three communities that contain census tracts identified as Hot Spots are: Brownsville/East New York (11212 and 11207), Crown Heights North/Bedford

Stuyvesant (11213, 11216, 11233), and Bushwick/Stuyvesant Heights (11221, 11237, and 11206)²⁷.

The federally designated Health Professional Shortage Areas (HPSA)²⁸ are located in these communities: Bedford-Stuyvesant, Bushwick, East New York, and Williamsburg. There are population groups within communities that are also HPSA designated: low-income residents in Crown Heights.

The “Berger” report identifies the number of visits for Medicaid fee-for-service beneficiaries and managed care enrollees in 2009. The zip codes in which Medicaid patients made the fewest visits (up to 5.5 per year) are identified as: 11216; 11233; 11207; 11212; 11225; 1226; and 11203.²⁹ The reason(s) for the lower number of visits per person were not identified.

Two studies in 2006³⁰, identified Primary Care Shortage areas in the city and the state. The entire North Eastern and Central Brooklyn neighborhoods were designated as Physician Shortage Areas. In a ranking of counties in one study (Lager) Brooklyn was rated the second worst county in a provider ranking based on a number of variables – only the Bronx was rated worse. In a 2008 report,³¹ that targeted communities in the city in need of primary care service expansion, telephone surveys were done and street surveying was accomplished by community-based organizations. The eight targeted zip codes in Brooklyn overlapped with the targeted zip codes in *The Need for Caring*: 11206, 11237, and 11221; 11233, 11212, 11207, and 11208; 11226.

The top five barriers identified to seeing a doctor in the respondents’ neighborhood, in the 2008 study, as we will see described throughout *The Need for Caring*, are very similar to those raised by the people surveyed in this report:

- Had to wait too long in the waiting room
- Needed an appointment sooner than the appointment time offered
- Doctor or nurse did not spend enough time with us
- Doctor or nurse did not listen carefully enough
- Could not afford to pay the bill.³²

In *The Need for Caring*, 11.8% of respondents could not afford the bill; 17.4% had to wait too long to get an appointment, and 12.4% had to wait too long at the appointment. These concerns received the highest number of responses.

“Late hours for working people.”³³

“Doctors office that can open long hours for working people.”

“Health services even if you cannot pay.”

In addition, in the same study, respondents were asked to name the category of provider they had the most difficulty in accessing in their community. The responses are consistent with the responses in *The Need for Caring* described throughout this report:

- Dentist
- Doctor or nurse you go to for your basic health care needs
- Pediatrician/baby doctor
- Prenatal care/mid-wife/obstetrician/gynecologist
- Mental health counselor.³⁴

In *The Need for Caring*, 86 people cited the need for more dentists; 76 cited the need for more doctors/clinics; 35 the need for more pediatricians; 38 the need for more OB/GYN's; and 32 for mental health counselors. These were the most frequently cited primary services that were needed in the community, along with geriatric services (18).

It does not appear as if these deficits have as yet been addressed. In *The Need for Caring*, the same issues were identified.

THE SURVEY

Six hundred forty four people were surveyed in fifteen North and Central Brooklyn zip codes. In recognition that there are differences among and between the zip codes in this study, each of the zip codes was placed in priority order based on: the percent of Medicaid beneficiaries and uninsured residents; the number of Full Time Equivalent primary care providers per 1,500 population,³⁵ race and ethnicity,³⁶ and BHIP identified Hot Spots.³⁷ (Appendix 3)

The Priority 1 zip codes have over 50% of Medicaid and uninsured, the least number of Full Time Equivalent primary care providers, the highest percent of African American and Latino residents, and were identified in the BHIP Hot Spots, and included:

Priority 1 zip codes	
11237	Bushwick (49 people surveyed)
11221	Bedford-Stuyvesant (40)
11233	Bedford-Stuyvesant (27)
11207	East New York (50)
11206	Williamsburg (55)
11212	Brownsville and East Flatbush (53)

The Priority 2 zip codes are similar to Priority 1 zip codes, but with slightly lower indicator levels, and included:

Priority 2 zip codes

11216	Bedford-Stuyvesant (38)
11213	Crown Heights (55)
11208	Clinton Hills and Cypress Hills (54)
11226	Flatbush (83)
11238	Prospect Heights (27)
11205	Bedford Stuyvesant and Fort Greene (64)

The Priority 3 zip codes exhibited the lowest indicator levels, and included:

Priority 3 zip codes	
11201	Downtown Brooklyn (18)
11217	Gowanus (27)
11222	Greenpoint (3)

This report will describe the overall findings from the 644 surveys. For purposes of reporting on what was found in the zip codes (found in Appendix 3), the zip codes were grouped based on: common characteristics and populations; contiguous borders; and priority grouping. In 11226, the borders were not contiguous with other zip codes, so the findings are reported solely for that one zip code.

As the surveys were being administered, the populations that were not interviewed were identified and targeted for the focus groups, e.g. males, people with disabilities, etc.

Data Collection and Methodology

The hospitals and community health centers participating in the Community Health Work Group (CHWG) identified their primary service catchment areas, so that 14 of the targeted zip codes were identified in this way. In addition, the Community Health Needs Assessment (CHNA) concept and work plan was presented to a special Brooklyn meeting of the SOS-C, which was attended by providers, unions, community-based organizations, and community residents. During that meeting, the targeted zip codes were discussed and a strong case was made for one additional zip code, not contiguous, but with similar populations and health problems. The 15th zip code – 11226 in Flatbush -- was incorporated into the study. It should be noted that the Navigant consultant study being prepared under contract with the hospitals, only

included the zip codes identified in the hospital catchment areas. There is however much overlap with the zip codes targeted in the BHIP study³⁸.

Survey Monkey was used for this survey for easier data collection and analysis. The survey was to be administered on iPads for ease of data input. The survey questions and format were developed by BPN and CPHS, then reviewed and approved by all members of the partnership. The survey instruments for two former studies that these organizations had been involved with were used as a guide for question development.³⁹ With expert assistance from the CUNY Institute for Health Equity (CIHE), targeting within the zip codes was accomplished through recommendations of types of locations to do the surveying, as well as, screening questions that eliminated from consideration populations that were not targeted, e.g., less than 18 years of age; zip code of residence; and income and family size based on the income guidelines developed by the New York City Housing Authority (NYCHA). These income guidelines were used rather than federal poverty levels, because they more accurately reflect the income needed to live in a high cost city.

Community-based organizations were identified by BPN to do the surveying; as groups that were located in, trusted by the residents, and reflected the composition, language, and culture of the communities in which the surveys were being administered. The community-based organizations that participated in the survey are: Arab American Family Support Center; Brooklyn Perinatal Network; Caribbean Women's Health Association; East New York D&TC; Fort Greene SNAP; Make the Road New York; New Dimensions in Care; New York Communities for Change; Progressive Community Center for Children & Families; and United Jewish Organizations of Williamsburg. This way of surveying has been shown to improve the response and the willingness of participants to share information.

Ethnic minorities and immigrant populations are less likely to engage in research than their white counterparts.⁴⁰ This may be in part, due to barriers in reaching linguistically and culturally isolated communities, and also the long-standing mistrust between researchers and minority communities.⁴¹ By partnering with community-based organizations, many studies have seen improved rates of survey participation.⁴² Additionally, the findings from CBO-led surveys at times identified missing data or provided more thorough findings than standard survey methods.⁴³

The literature goes on to mention that the training and hiring surveyors from the assessed community can achieve the following results: (1) potential respondent more likely to participate in an interview conducted by someone from the area; (2) enhanced data quality due to greater trust; (3) local interviewers set the time tone for community-based nature of the research and intervention that would follow; and (4) provide employment for the community.⁴⁴

Training for the Surveyors

Two training sessions were held for the surveyors on how to administer the survey. Five of the surveyor organizations used I-Pads for the survey, the other five administered the survey on paper and then transferred the data to the Survey Monkey. The organizations that chose to administer the survey on paper identified the need to protect their staff in high crime areas, so they opted to do the survey on paper and transfer the data to the Survey Monkey. During the training sessions, several organizations raised concerns about the wording and the order of the questions. These concerns led to several changes in the survey.

Also, during the training session, the participants were asked to pair up and test the survey with their partner, so one person asked the questions of their partner. This was done to test the understandability of the instrument, the understandability of the questions, and the time needed to complete the survey. For most of the participants the survey took between 15 and 20 minutes to administer. The survey was pre-tested in this way. After several adjustments, the survey instrument was pre-tested in the community, and some additional adjustments were made, particularly in the questions in which there were skip patterns.

The surveying organizations were instructed to offer incentives worth no more than \$10. The organizations were allowed to choose what those incentives would be, e.g., \$10 in cash, a \$10 MetroCard. The person being interviewed was not initially told what the incentive would be for participating in the survey.

The Survey Instrument

The survey instrument (Appendix 4) contains four screening questions: zip code; age group; number of people living in household; and household income. If a person did not meet the criteria set by the screening questions, they were thanked and did not complete the survey. There are 10 demographic questions including: born in the United States; how long lived in the neighborhood; marital status; how many people live in the household; employment/unemployment status; race and ethnicity.

The next set of 29 questions center around the persons' health care experience. The three final questions are totally open-ended, and ask what services are missing from your neighborhood; if you had the power what changes would you make in the health system; and anything else that the person chose to share. The closed questions probed for the satisfaction level of services within the persons' neighborhood; the reasons for going for care outside their neighborhood; whether, and what kind of, health insurance the person and members of the household have; if health services have been used in the last two years; if there were visits to an emergency room in the last two years, and the reason(s) for this visit; the type of health care provider where the person receives his/her care; the specific provider; the length of time needed to arrive at their

place of care, the mode of transportation; and barriers that they encountered when going for health care services. Many of these questions contained additional open-ended space to list reasons for their response, or place of care.

A subset of questions asked if the person, or any member of their household, had particular listed illnesses or a disability. If they responded affirmatively to any of these questions, they were also asked: if there was a disability, what type of accommodation they received; if they were able to receive care for this disability or illness; what type of provider they went to for this treatment; and if they were satisfied with the care they received.

Coding of the Open-Ended Questions

The responses to the three open-ended questions were reviewed by the same person several times. Patterns of answers were reviewed, so that categories of responses could be identified. For consistency, each of the responses was placed by the same person in a category that best represented what was being shared. The responses were placed in a category, and where the category answers grew large, they were sub-categorized. The categories of responses fell into two “buckets”: the type of services people felt was missing from the community and/or would like to see in the community; and general access and barriers identified.

For question #27, people were asked specifically: “Are there any medical or health-related services you think your neighborhood needs more of? If so, what are the services?” Question #28 asked for a more general response of: “If given the power for one day, what changes would you make in the medical care system?” Question #29 was added to ensure that if the previous questions had not addressed the respondents’ particular concern, “Is there was anything else to tell us about their family’s health care, or health care services in your neighborhood?” In spite of the different thrusts of these questions, the responses to each of the questions fit into the major themes identified.

In addition, the direct quotes from respondents that were typical, poignant, or illustrative of a problem or solution, were identified and will be reported. These quotes will be reported in *italics*.

“The struggles and predicaments of low income families and children in poverty is a never ending story. We struggle with bad eating habits, lower birth weight infants. We need farmers markets, whole foods, fruit stands, vitamins, dental care, etc.”

THE FINDINGS – Drawing a picture of the surveyed population

The survey instrument was administered by community-based organizations to community residents in 15 zip codes in North and Central Brooklyn.

This process produced 644 completed surveys. Seventy nine invalid surveys were eliminated because the person being interviewed did not meet the screening criteria, or because of insufficient information.

Population Characteristics

Age. A majority of the respondents, 352 or 54.7%, were between the ages of 26-35 and 36-50.

Household. A large majority of the respondents, 521 or 80.9%, lived in households with one to four people. The surveyors were instructed to ask the question as households rather than family, in order to ascertain how many people were living in one dwelling. Of the people living in these households, respondents said that 468 are children and 640 are adults.

- Twenty nine percent of the respondents lived in two-person households
- Twenty three percent of the respondents lived in three-person households.
- Only 93 respondents, 14.4% lived in households of 5-6 people.
- An even smaller number of people, 27, lived in larger households of 7-10 people.
- Household income and household size were two of the screening questions that used broad categories for reporting income, so that the data for this question is not precise. A later question about income was asked of a subset of the respondents who indicated they are working.

Gender. A very large majority, almost two-thirds, of the respondents identified as women – 424, 65.8%. Recognizing the need for male voices, two focus groups were organized to gather more information from men.

Race, Ethnicity and Country of Origin

Race: The zip codes surveyed are largely communities of color, in Central Brooklyn over 80% of the population is Black, including African Americans and Caribbean/West Indians. Of the respondents in this survey:

- 285 people (44.3%) self-identified as African American,
- 162 people (25.3%) self-identified as Caribbean/West Indian,
- 6 people self-identified as Asian/Pacific Islander,
- 22 people self-identified as Arab/Middle Eastern,
- 21 people self-identified as Mixed race/ethnicity,

- 88 people (13.7) identified as White.

More than two-thirds of the respondents 482 (74.8%), identified as persons of color. For 88 (13.7%) of the respondents there was no answer. Latinos could identify in any race.

- Seven of the zip codes have over 50% African American respondents: 11207 and 11208, East New York and Cypress Hills; 11212, Brownsville; 11238, Prospect Heights; 11217, Gowanus; 11216, Bedford-Stuyvesant; 11213, Crown Heights.
- Large numbers of Caribbean/West Indian respondents were interviewed from 11207, East New York; 11226, Flatbush; 11233, Bedford-Stuyvesant; and 11213, Crown Heights.
- Numbers of White respondents were interviewed from 11206, Williamsburg; 11205, Fort Greene; and 11222, Greenpoint.
- Asian/Pacific Islanders were interviewed from 11208, 11226, 11238, and 11213.
- Arab/Middle Eastern respondents were interviewed from 11201 (46.4%), Downtown Brooklyn; 11237, Bushwick; 11206, Williamsburg; 11208, East New York; 11226, Flatbush; 11233 and 11216, Bedford-Stuyvesant; and 11212, Brownsville. (Appendix 5)

Latino/Hispanic: One hundred thirty five (21%) identified as Latino/Hispanic. Latinos can identify with any race. The highest percent of Latinos are found in 11237 (95.9%) and 11221 (77.5%) and are where the highest percent of respondents did not indicate race. Many Latino/Hispanic respondents (who can be of any race) were interviewed in large numbers in 11237, 11221, 11217, and 11222. (Appendix 6)

Foreign-born: Two hundred fifty three of the respondents, 39.3%, identified as foreign born. This is consistent with the population of New York City and the borough of Brooklyn. One hundred thirty seven identified Caribbean countries; 85 identified Latin and South American countries of birth. The countries of origin are consistent with the populations living in the zip codes. Nine respondents, born in Puerto Rico, identified as foreign born even though they are U.S. citizens.

- The highest percent of persons born outside of the U.S. are found in: 11237 (89.4%), 11221 (67.5%), 11226 (74.7%), 11201 (61.1%), and 11223 (40.7%). (Appendix 7)

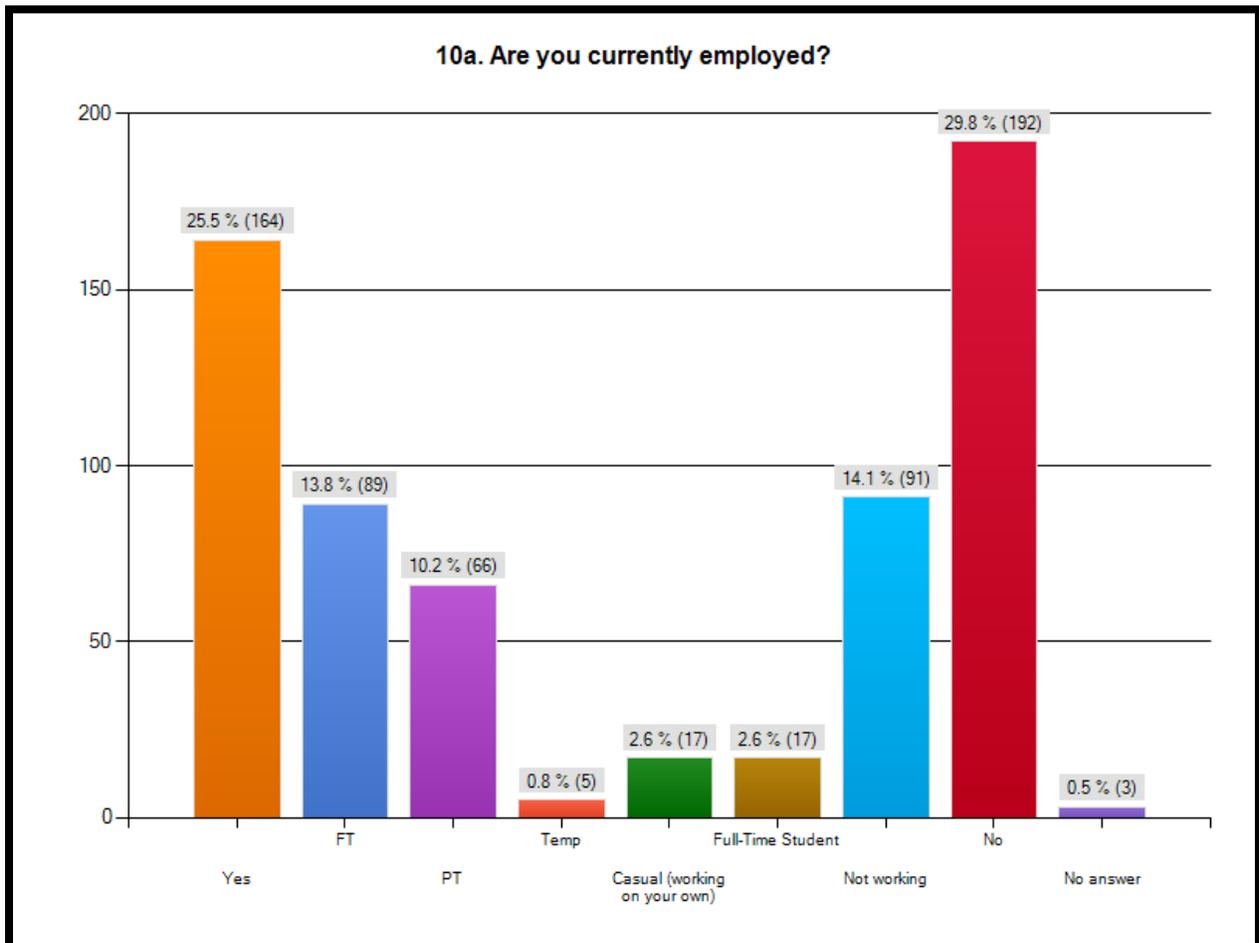
Language: Four hundred eighty nine people responded that they were comfortable speaking about their health care in English; 87 said Spanish; 28 said Creole; 22 said Arabic; 14 said Yiddish; 2 said French; and 1 said Hungarian.

Other Neighborhood Characteristics

Years in Neighborhood: Two hundred eighty seven respondents (44.6%) have lived in their neighborhood for more than 10 years; 94 (14.6%) have lived there for five to 10 years, and 90 (14.0%) have lived there for three to five years. Although there are changes in the populations in all of these communities, this sample shows a stable living situation.

Marital Status: When asked about their marital status, 339 people (52.6%) indicated that they are single and 175 (27.2%) indicated that they are married. Others indicated that they were living with someone, divorced or widowed.

Employment Status:



When asked about employment status, only 164 respondents (25.5%) indicated that they were employed. Two hundred eighty three (43.4%) said they were not working.

- The zip codes in which over 40% of the respondents indicated that they were not working/no are: 11207 (58%); 11208 (51.9%); 11212 (51.0%); 11205 (46.8%); 11217 (46.8%); 11201 (72.2); 11216 (60.5%); and 11213 (43.7%). (Appendix 8)
 - The high numbers of respondents indicating they are not working could be a function of interviewing during the day time hours, and finding people who don't work or who are retired.

Income/Earnings: Respondents that indicated that they are working were asked a follow-up question about their earnings. Three hundred nine people indicated personal income. Almost 58 percent (201) of the 342 who responded indicated an income of less than \$30,000, and 36.6% had incomes less than \$20,000 a year. The incomes in *The Need for Caring* are generally lower than incomes found in the community profiles done by the Center for the Study of Brooklyn. The median household incomes ranged from \$23,104 (Bushwick 11237) to \$56,293 (Downtown Brooklyn 11201).

Health Care Experience

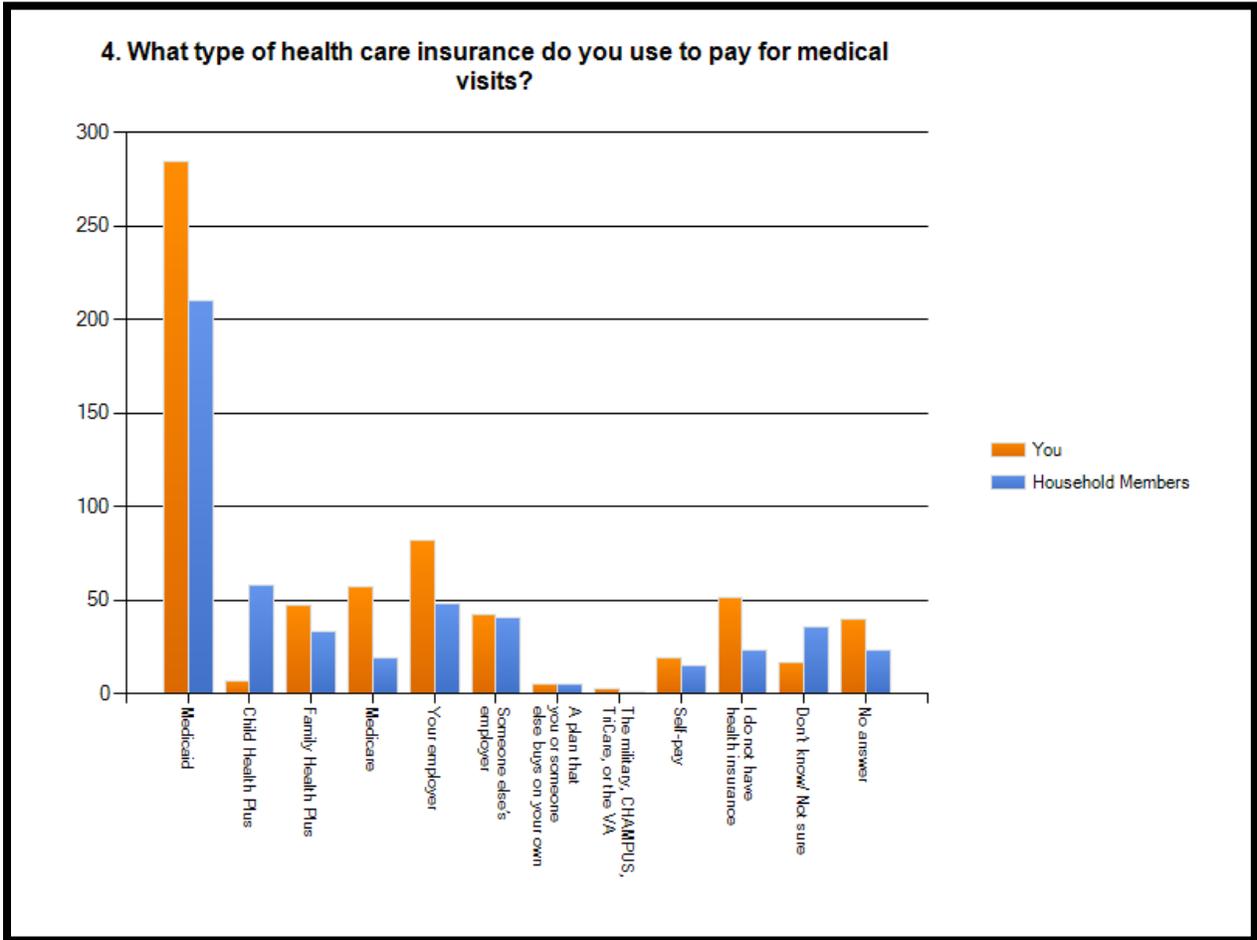
Health Care Decisions. Respondents were asked who in the household makes health care decisions for you and your household. Of the 616 responses to this question, 457 (74.2%) persons said they made the health care decisions for themselves and their households.

Health Insurance. Do you and those living in your household have health insurance, including Medicaid?

- Four hundred sixty three (71.3%) said that all members of the household have health insurance,
 - 77 (12.6%) said that some have insurance,
 - 76 (11.8%) said that no one in the household has health insurance.
 - Twenty two people (3.4%) said don't know/not sure, and
 - 6 people (.9%) did not answer this question.
- Fourteen percent of all respondents have no health insurance. The highest numbers of uninsured residents reside in zip codes 11237 (16.3%), 11207

(16.0%), 11208 (13.0%), 11226 (14.5%), 11217 (21.4%), 11201 (22.2%), 11233 (14.8%). (Appendix 9)

Type of Health Insurance



The majority of respondents, 338 (52.4%), and 301 members of their household (46.7%), are covered by income-eligible public health insurance – Medicaid, Child Health Plus, and Family Health Plus. Approximately one million of the 2.5 million Brooklyn residents are covered by public health insurance. Fourteen percent of the respondents indicated they have no health insurance. 129 respondents have private coverage, and 94 household members have private coverage.

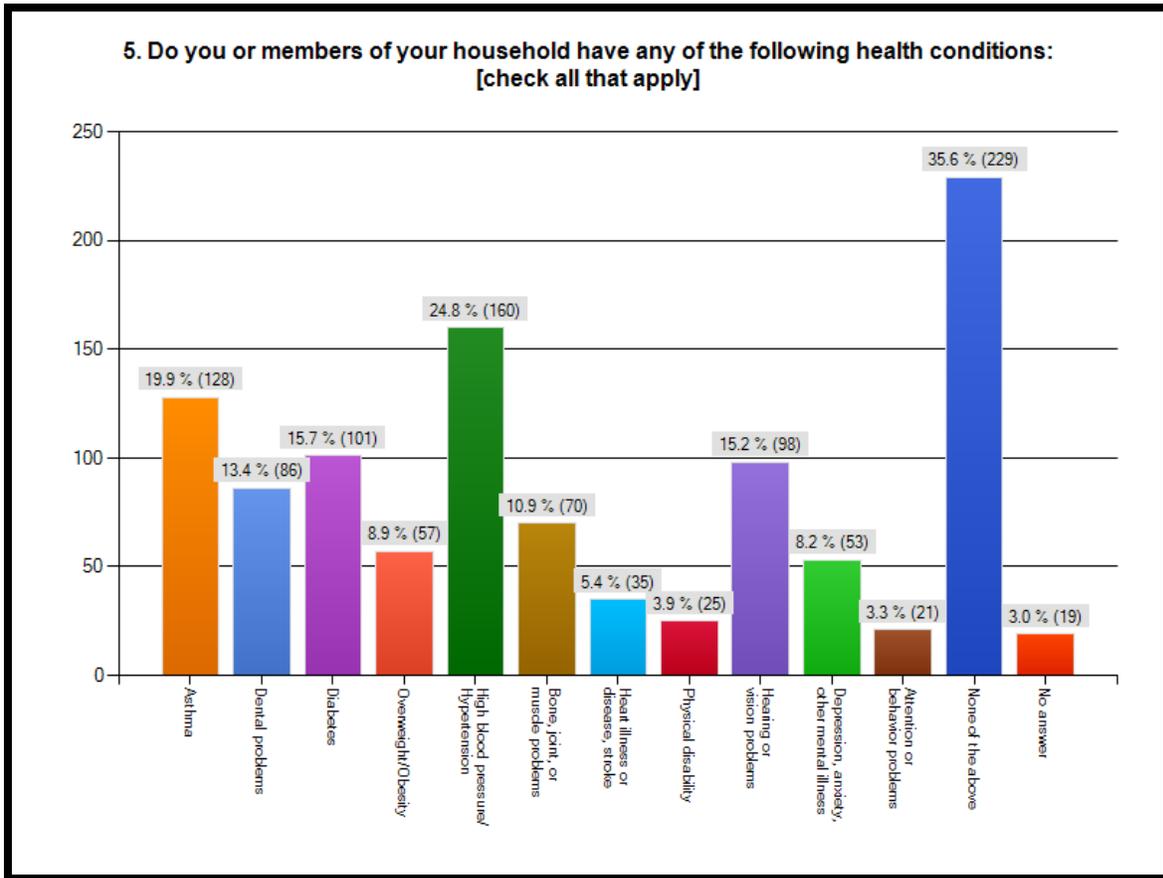
	<u>You</u>	<u>Household</u>
Public insurance		
○ Medicaid	284	210

- Child Health Plus 7 58
- Family Health Plus 47 33

Other health insurance coverage:

- Medicare 57 19
- Your employer 82 48
- Someone else's employer 42 41
- Plan that someone else buys 5 5
- Military/TriCare/VA 3 1
- Self-pay 19 15
- Not have health insurance 51 23
- Don't know/not sure 17 36
- No answer 40 23
- Some other source 48

Health Conditions



“Are there any health related services that my community needs more of? Yes of course especially in low income neighborhoods; HIV, STD testing and prevention services more information on how to prevent diseases. Also services preventing cancer health issues as in obesity. More sickle cell foundation treatments for sickle cell patients curse for the sickle cell. Two of my sisters are dealing with the sickle cell disease, they get very sick.”

Do you or members of your household have any of the following health conditions? The respondents surveyed were asked to respond to a list of illnesses or disability that they or a household member has (check all that apply).

<input type="radio"/> Asthma	128	19.9%
<input type="radio"/> Dental problems	86	13.4%
<input type="radio"/> Diabetes	101	15.7%
<input type="radio"/> Overweight/obesity	57	8.9%
<input type="radio"/> High blood pressure/Hypertension	160	24.8%
<input type="radio"/> Bone, joint, or muscle problems	70	10.9%
<input type="radio"/> Heart illness or disease, stroke	35	5.4%
<input type="radio"/> Physical disability	25	3.9%
<input type="radio"/> Hearing or vision problems	98	15.2%
<input type="radio"/> Depression, anxiety, other mental	53	8.2%
<input type="radio"/> Attention or behavior problems	21	3.3%
<input type="radio"/> None of the above	229	35.6%
<input type="radio"/> No answer	19	3.0%
<input type="radio"/> Other – please specify	34	

Amongst the list of other conditions cited are: Sickle Cell, Alzheimer, Autism, Lupus, Cancer, and allergies.

The most often cited medical conditions are hypertension, asthma, diabetes, and hearing or vision problems, as reported by zip code:

- Asthma was cited most often in: 11237 (12%), 11221 (22.5%), 11207 (22%), 11208 (29.6), 11212 (39.6)
- High blood pressure/hypertension was cited most often in: 11237 (30.6%), 11207 (24%), 11212 (39.6%), 11226 (28.9%), 11205 (35.9%), 11217 (35.7%), 11233 (18.5%), 11216 (21.1%), and 11213 (23.6%).
- Diabetes was cited most often in: 11237 (20.4), 11208 (16.7%), 11212 (30.2%), 11226 (22.9%), and 11216 (18.4%)

- Hearing or vision problems were cited most often in: 11237 (28.6%), 11221 (30%), 11212 (15.1%), 11216 (18.4%), and 11213 (16.4%).
- None of the above was the response from 229 (35.6%) of the respondents. The highest percent of this response is found in: 11206 (36.4%), 11207 (42%), 11208 (38.9%), 11226 (36.1%), 11238 (51.9%), 11217 (35.7%), 11201 (50%), 11233 (48.1%), and 11213 (47.3%).

See subset questions on page 31, for the responses to follow-up questions for those surveyed that indicated one or more conditions in response to the question above.

Access to Care

In the last two years, have you or members of your household gone to a health care provider? (If yes, why? If no, why?) Responses: 568 (88.8%) said yes and 72 (11.3%) said no. There were 63 individual responses with reasons when people said no, which are categorized and included:

- | | |
|---------------------|----|
| ○ No insurance | 15 |
| ○ Not sick/no need | 23 |
| ○ Not tried | 2 |
| ○ Time issues | 4 |
| ○ Been incarcerated | 1 |
- Five zip codes have higher numbers of people who had not seen a provider in the last two years: 11205 (25.0%), 11201 (27.8%), 11217 (21.4%), 11208 (14.8%), and 11216 (13.2%). (Appendix 10)
 - If yes have visited a health care provider in the last two year, reasons given for visiting a provider in the last two years (88.8%), by zip code:
 - Medical emergency – 11237 (33.3%), 11208 (34.8%), 11212 (52.9%), and 11233 (33.3%).
 - Needed a medical test – 11221 (38.9%), 11206 (34%), and 11212 (45.1%).
 - Didn't feel well – 11206 (34%), 11207 (44.4%), 11208 (41.3%), 11212 (58.8%), 11226 (44.6%), 11205 (41.7%), and 11213 (47.2%).
 - Regular Check-up – all zip codes above 50%. (Appendix 11)

Have you and your household members been able to get regular check-ups when you are healthy? 536 respondents (83.2%) said yes; 87 respondents (13.5%) said no;

and for 21 respondents (3.3%) there was no answer.

Care in the Neighborhood

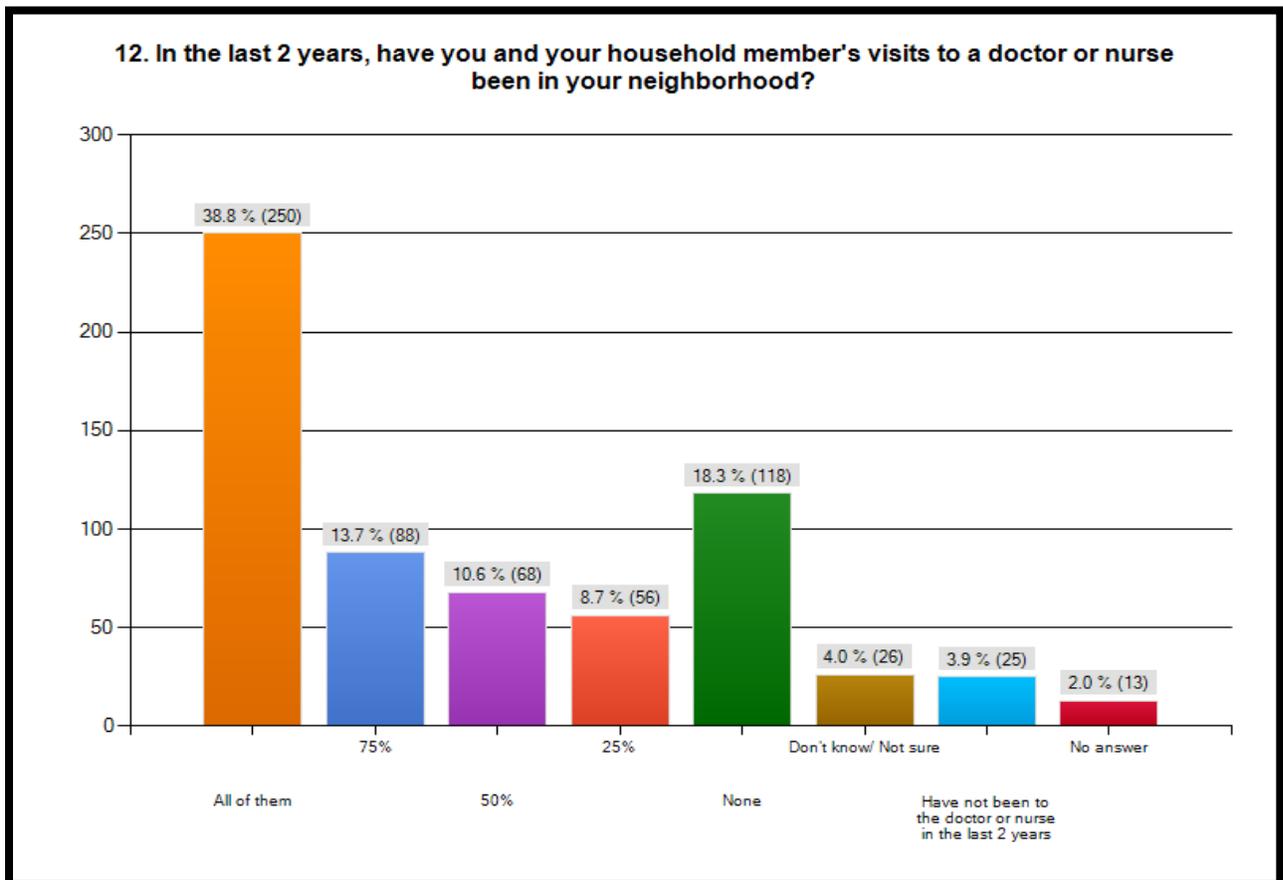
“More affordable clinic put more clinics in our neighborhood. Low income communities need more educational services, preventing obesity because obesity is affecting our communities.”

“There needs to be more of everything so you don’t have to go out of the neighborhood.”

“The neighborhood needs a community low income based clinic for the underprivileged (sic) with working hours between Monday and Saturday.”

“Put a health clinic in 11223, more pharmacies. I would re-open St. Mary’s.”

Care in the neighborhood



In the last two years, have you and your household members' visits to a doctor or nurse been in your neighborhood? This question was included because there have

been concerns raised about a lack of services in many of the North and Central Brooklyn communities. Almost 20% of all of respondents' made all visits outside their neighborhood. Less than 40% of respondents had all visits in their neighborhood; 32% of respondents' visits were in part in their neighborhood; and 18.3% had no visits in their neighborhood.

○ All	250	38.8%
○ 75%	88	13.7%
○ 50%	68	10.6%
○ 25%	56	8.7%
○ None	118	18.3%
○ Not been to a doctor	25	3.9%
○ Don't know/not sure	26	4.0%
○ No answer	13	2.0%

- One hundred eighteen respondents indicated that *none* of their visits had been to a provider in their neighborhood in the last two years. Of the 118 responses, the zip codes with the highest percent of respondents not using services in their neighborhood are: 11207 (11%), 11208 (9.3%), 11213 (8.5%), 11217 (10.2%), and 11233 (8.5%).

For the 118 *None* responses to the question about visits in the neighborhood, the next three questions were skipped because they were about care in the persons' neighborhood.

What kind of place is it in your neighborhood? (check all that apply) The totals add to more than the number of respondents, as people indicated more than one source of care.

○ Doctors or nurses office	241	46.5%
○ Traditional healer	5	1.0%
○ Community health center	153	29.5%
○ Hospital clinic	171	33.0%
○ Emergency Room	77	14.9%
○ Another kind of place	3	.6%
○ Don't know	6	1.2%
○ No answer	34	6.6%

- In zip code 11237, 68.9% of the respondents get their care in a hospital clinic; in zip code 11221, 45.9% receive their care in a hospital clinic; 42.9% in zip code 11217; and 53.3% in 11213.

- In zip code 11212, 37% of respondents indicated they get their care in a hospital ER.
- The respondents in the following zip codes indicated high usage of community health centers/clinics: 11207 (41.7%), 11208 (46.3%), 11212 (54.3%), 11222 (66.7%), and 11216 (41.4%).
- The respondents in the following zip codes indicated high usage of private doctors' offices: 11206 (73.3%), 11208 (48.8%), 11212 (45.7%), 11226 (57.3%), 11238 (61.1%), 11205 (55.2%), and 11217 (50%). (Appendix 12)

Please provide a specific name of the facility where you go for care in your neighborhood. Not all named are located in North and Central Brooklyn.

- Five hospitals outside of Brooklyn (7 responses)
- Six community health centers in Brooklyn (17 responses)
- One HHC Diagnostic and Treatment Center (4 responses)
- Private doctor (31 responses)
- Other types of providers (22 responses)
- Seven North and Central Brooklyn Hospitals (150 responses)
 - Brookdale 37
 - Brooklyn 27
 - Downstate 6
 - Interfaith 16
 - Kings County 16
 - Woodhull 31
 - Wyckoff 17

How long does it take you and members of your household to get to care in your neighborhood? Four hundred nine of the 528 responses (77.4%) to this question traveled for 30 minutes or less to get to care in their neighborhood.

- | | | |
|-------------------------|-----|-------|
| ○ Less than 10 minutes | 148 | 28.0% |
| ○ 10-30 minutes | 261 | 49.4% |
| ○ 30 minutes to an hour | 59 | 11.2% |
| ○ Over an hour | 11 | 2.1% |
| ○ Do not know/not sure | 15 | 2.8% |
| ○ No answer | 34 | 6.4% |

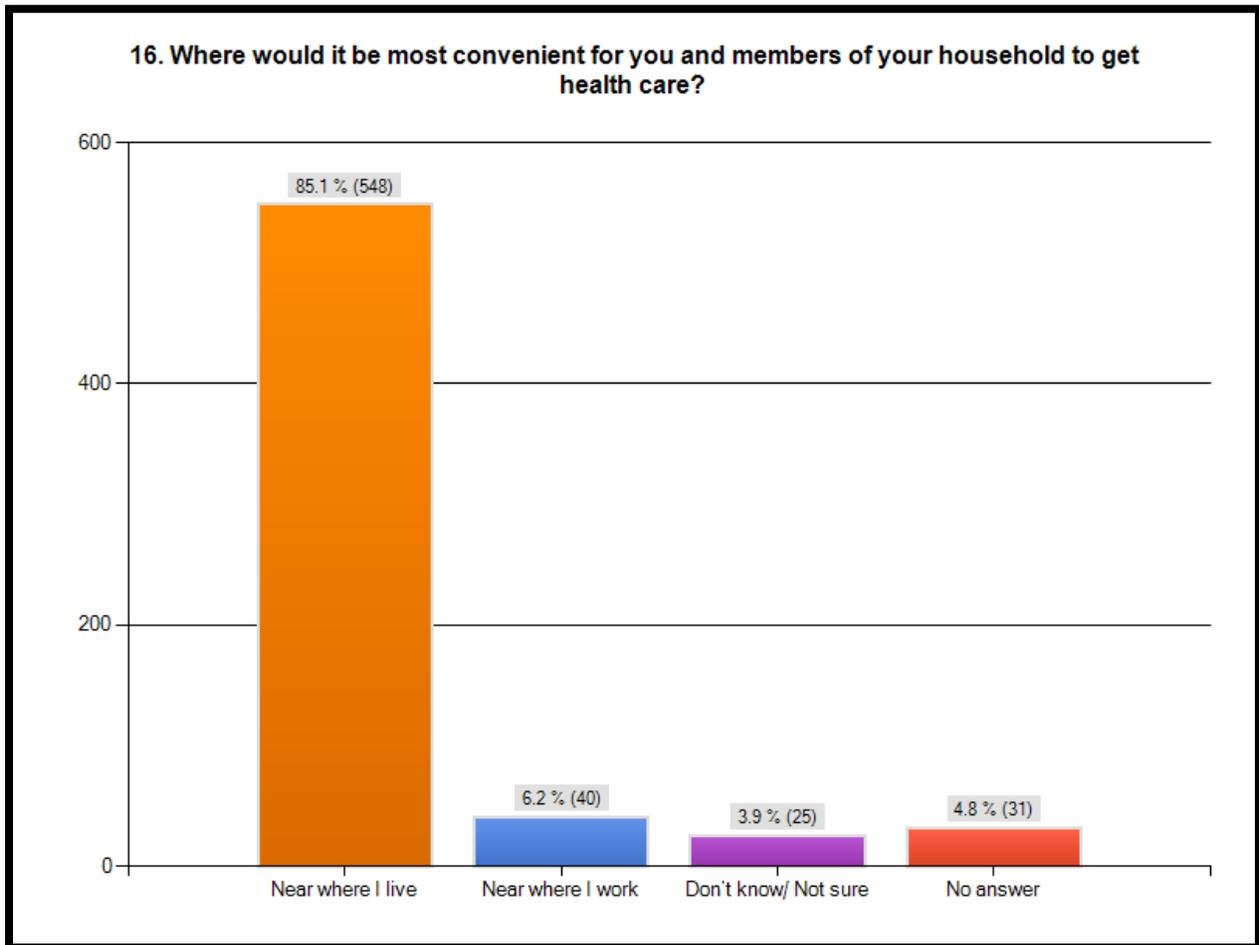
How do you get there? (in your neighborhood) (check all that apply)

- | | | |
|----------|-----|-------|
| ○ Walk | 244 | 47.4% |
| ○ Drive | 65 | 12.6% |
| ○ Subway | 78 | 15.1% |
| ○ Bus | 191 | 37.1% |

- Cab 67 13.0%
- Car Service 23 4.5%
- No answer 36 7.0%
- Other 24

There were 24 other responses, including: 2 by bike, 4 by Access-A-Ride, 4 by Ambulette, 11 by ambulance, 1 by wheel chair, and 1 by motorcycle.

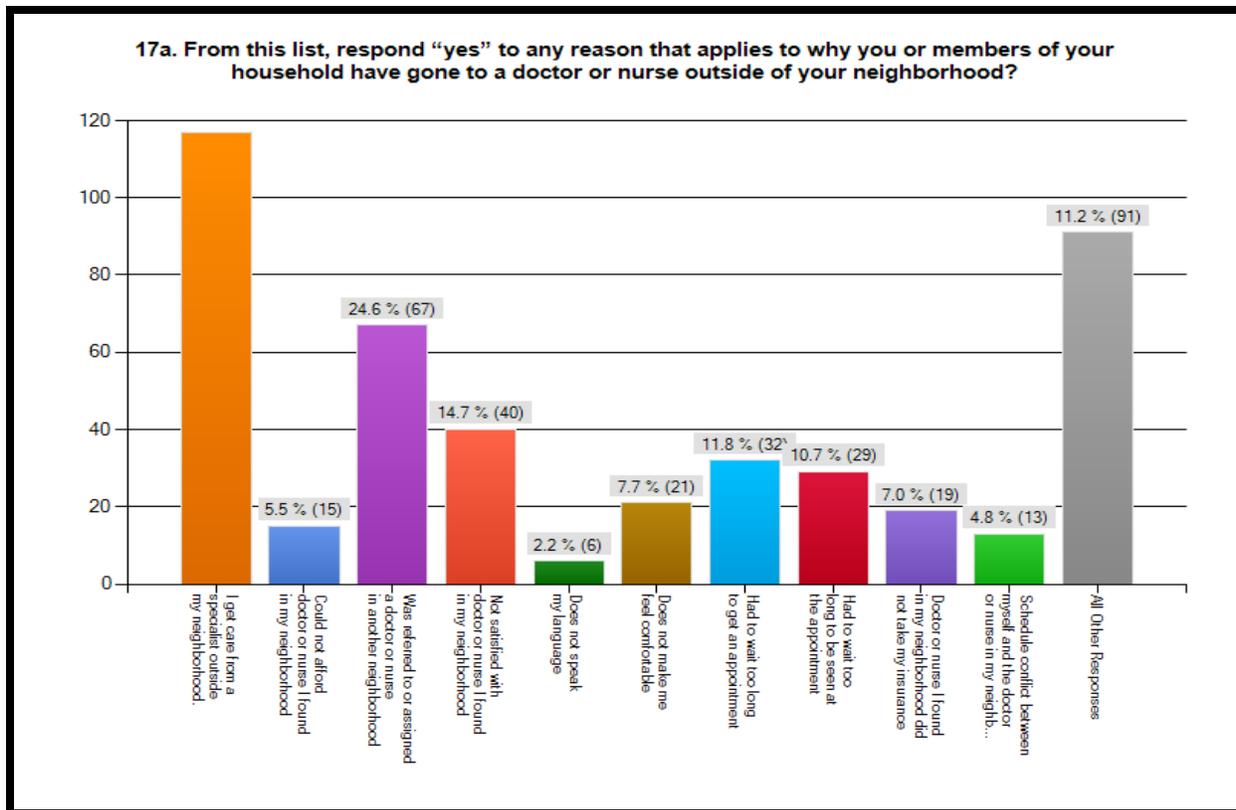
Convenience of Care



“I wish I have a clinic close to my home because I have three little children I travel with all of them to the doctor office.”

Where would it be most convenient for you and members of your household to get care? Of 644 responses, more than 85% of respondents said it would be more convenient to receive care near where they live.

- Near where I live 548 85.1%
- Near where I work 40 6.2%



From this list, respond “yes” to any reason that applies to why you or members of your household have gone to a doctor or nurse outside of your neighborhood.

For this question, respondents were read a list and asked to identify any reason that applies to why they or members of their household have gone to a doctor or nurse outside their neighborhood. The most frequently cited reasons for going outside the neighborhood are: specialist outside neighborhood (43%) which indicates a choice, and referred or assigned doctor in another neighborhood (24.6%) which suggests there was no choice.

- I get care from a specialist outside my neighborhood 117 43.0%
- Could not afford a doctor or nurse found in neighborhood 15 5.5%
- Was referred or assigned a doctor in another neighborhood 67 24.6%
- Not satisfied with doctor found in my neighborhood 40 14.7%
- Does not speak my language 6 2.2%
- Does not make me feel comfortable 21 7.7%
- Had to wait too long to get an appointment 32 11.8%
- Had to wait too long to be seen at an appointment 29 10.7%
- Doctor found in neighborhood didn't take insurance 19 7.0%
- Schedule conflict between myself and doctor 13 4.8%
- Facility could not accommodate my disability 5 1.8%

- Don't know/not sure 17 6.3%
- No answer 69 25.4%
- Other, please specify 74

- **Other please specify** – there were 74 responses – reported are those where there is more than one similar response:

- Going there before I moved 10
- Emergency 5
- Vet that goes to the V.A. 4
- Didn't go to any doctor 4
- Go to private doctor 3
- Customer service poor 2
- Doctor in another neighborhood 2
- Go near to work 2

- If get care from a specialist outside the neighborhood, **what kind of specialist**, the most often-cited specialists are dental, general doctor, OB/GYN, cardiologist, and general doctor:

- Allergist 1
- Asthma treatment 1
- Cardiologist 8
- Dental 12
- Dermatologist 1
- Eye doctor 8
- Endocrinologist 5
- Eye doctor 6
- Gastroenterologist 4
- General doctor 11
- Gynecologist/OB 19
- Dermatologist 7
- Neurologist 6
- Orthopedist 6
- Pediatrician 5
- Physical therapy 2
- Podiatrist 7
- Psychiatry/Psychology/Counseling 7
- Rheumatologist 3
- Surgeon 3
- Urologist 5

- The break-down by zip code of highest number of reasons given for going for care outside of the neighborhood are:

- I get care from a specialist outside my neighborhood – 11206 (70.4%), 11207 (57.9%), 11205 (58.6%), 11213 (52.2%).
- Was referred or assigned a doctor in another neighborhood -- 11206 (33.3%), 11238 (30%), 11216 (33.3%), 12213 (30.4%)
- Not satisfied with doctor found in my neighborhood – 11206 (22.2%), 11208 (25.9%), and 11205 (27.6%),
- Had to wait too long to get an appointment – 11237 (40%), and 11221 (30%)
- Had to wait too long to be seen at an appointment -- 11237 (40%), and 11221 (30%)

What kind of place is it outside your neighborhood? The highest percent of responses is: private doctor, 116 (37.4%), and hospital clinic, 72 (23.2%)

○ Private doctors office	116	37.4%
○ Traditional healer	1	.3%
○ Community health clinic or health center	43	13.9%
○ Clinic in a hospital	72	23.2%
○ Emergency Room	19	6.1%
○ Another kind of place	7	2.3%
○ Don't know/not sure	7	2.3%
○ No answer	45	14.5%

- Please provide a specific name of the facility where you go for your care – 125
 - Ten hospitals outside of Brooklyn (21 responses)
 - One community health center in Brooklyn (1 response)
 - Private doctor (19 responses)
 - Other types of providers (20 responses)
 - Three other hospitals in Brooklyn (6 responses)
 - Eight North and Central Brooklyn Hospitals (26 responses)
 - Brookdale 1
 - Brooklyn 11
 - Downstate 3
 - Interfaith 3
 - Kings County 4
 - Kingsbrook 1
 - Woodhull 1
 - Wyckoff 2

- Of the respondents who visited the ten hospitals outside of Brooklyn: 3 from 11205, 1 from 11206, 2 from 11207, 1 from 11208, 2 from 11212, 1 from 11213, 1 from 11216, 3 from 11217, 1 from 11221, 2 from 11226, and 3 from 11237.

How long does it take you to get to the provider outside your neighborhood?

Unlike the travel time in the respondents neighborhood, the travel took longer – 47.7% of respondents said it took from 30 minutes to an hour.

○ Less than 30 minutes	77	25.5%
○ 30 minutes to 1 hour	138	47.7%
○ 1-2 hours	38	12.8%
○ More than 2 hours	3	1.0%
○ No answer	46	15.2%

How do you travel to the provider outside your neighborhood? (check all that apply)

○ Walk	30	9.9%
○ Drive	58	19.2%
○ Subway	130	43.0%
○ Bus	91	30.1%
○ Cab	36	11.9%
○ Car Service	26	8.6%
○ No answer	42	13.9%
○ Other (please specify)	13	

- **If yes, how often?** Of the 301 respondents who had visited the Emergency Room in the last two years, 220 respondents identified how often they had used the Emergency Room. The largest number of responses indicated four times or less visits to the Emergency Room (182, 82.7%).

○ Once	75
○ Once to twice	2
○ Twice	57
○ Three times	23
○ Three to four times	2
○ Four times	23
○ Four to five times	2
○ Five times	5
○ Six times	2
○ Five to ten times	2
○ Eight times	1
○ Ten times	1
○ Fifteen times	2
○ Monthly	1
○ Every two months	2
○ Every three months	1
○ Every six months	1
○ Once a year	7
○ Twice a year	3
○ Other	4

- **If yes, what was the reason that you or your family went to the Emergency Room?** There were 295 responses written in, with the highest number of visits for asthma (28.9%), and High blood pressure (27.6%). Both of these conditions can often be treated on an outpatient basis if care is available in the community.
- Type of health insurance coverage appears to have an impact on ER usage. Of the 301 respondents who indicated they had used the Emergency Room in the last two years, the highest percent usage of ER visits by insurance coverage was: Medicaid (50.3%), insurance by employer (13.9%), Medicare (10%), and no health insurance/self-pay (10.4%).
- The highest percent of respondents who used the ER by zip code are located in: 11226 (12%), 11212 (11.3%), and 11207 (8.6%).

- Of all of the people with different race and ethnicity cited, African Americans had the highest number and percent of persons using the emergency room in the last two years, 155, which was 51.5% of the African American respondents. Of this total, the highest number of visits to the ER by African Americans was found in: 11205 (12), 11207 (17), 11208 (17), 11212 (30 – more than half of those surveyed), 11216 (16), and 11226 (12). (Appendix 13)
- 54 of the African American ER users are male, 95 are female. 22 are married, 126 are not married. 67 are working and 79 are not working. 140 of the 155 African Americans (90%) have health insurance coverage.

Subset questions on Access to Care

In order to ascertain additional information from respondents who indicated a particular illness or disability, a series of follow-up questions was asked. Only those who answered in the affirmative to an identified condition(s) were asked the next four questions: accommodations for the disabled, getting treatment for all these conditions; where treatment is received; and satisfaction with services.

What types of accommodations are made for people with disabilities: no answer (8) and wheel chair (1). There were seven other responses, including Access – A – Ride, transport to private practice, and physical and occupational therapy.

Do you get treatment for all of these conditions: all the time 155 (36.8%), most of the time 85 (20.2%), sometimes 83 (19.7%), few times 28 (6.7%), never 26 (6.2%), and no answer 44 (10.5%).

Where do you and your household members get treatment -- check all that apply:

<input type="radio"/> Doctors office	201	48.0%
<input type="radio"/> Health center	96	22.9%
<input type="radio"/> Hospital clinic	135	32.2%
<input type="radio"/> Emergency Room	70	16.7%
<input type="radio"/> Not get treatment	12	2.9%
<input type="radio"/> Don't know/No answer	35	8.3%

Several reports have suggested that a high percentage of Brooklyn residents travel to Manhattan for their care. Of the 137 respondents who responded to this subset question, only 12 Respondents (8.7%) visited hospitals outside of Brooklyn.

- Three community health centers were named (4 responses)
- Two HHC Diagnostic and Treatment Centers were named (3 responses)
- Private doctors named (23 responses)
- Seven North and Central Brooklyn Hospitals were named (95 responses)

- Brookdale 9
- Brooklyn 19
- Downstate 5
- Interfaith 7
- Kings County 14
- Woodhull 27
- Wyckoff 14

Are you or members of your family satisfied with this care (if receiving services)?

Seventy eight percent of respondents were very or somewhat satisfied with the care. Only 8.8% were somewhat dissatisfied or dissatisfied with the care they received. Another 2.4% are not receiving any care.

○ Very satisfied	171	40.6%
○ Somewhat satisfied	159	37.8%
○ No opinion	17	4.0%
○ Somewhat dissatisfied	15	3.6%
○ Dissatisfied	22	5.2%
○ Am not receiving care	10	2.4%
○ No answer	27	6.4%

Forty respondents gave reasons when asked to say why they were not satisfied. Ten respondents indicated a problem with the waiting time; 3 had health insurance problems; two said it was too expensive; one said ‘no good doctors’; one said no communication; one said no specialists; and one cited the language barrier. Some of the direct quotes from respondents stand out:

“Son with developmental delays only gets therapy at school and he also needs it at home.”

“Because I don’t think my child is getting the best treatment for his condition.”

“Western medicine is inaccessible to people of lower income.”

“Lack of service offered in a low income neighborhood.”

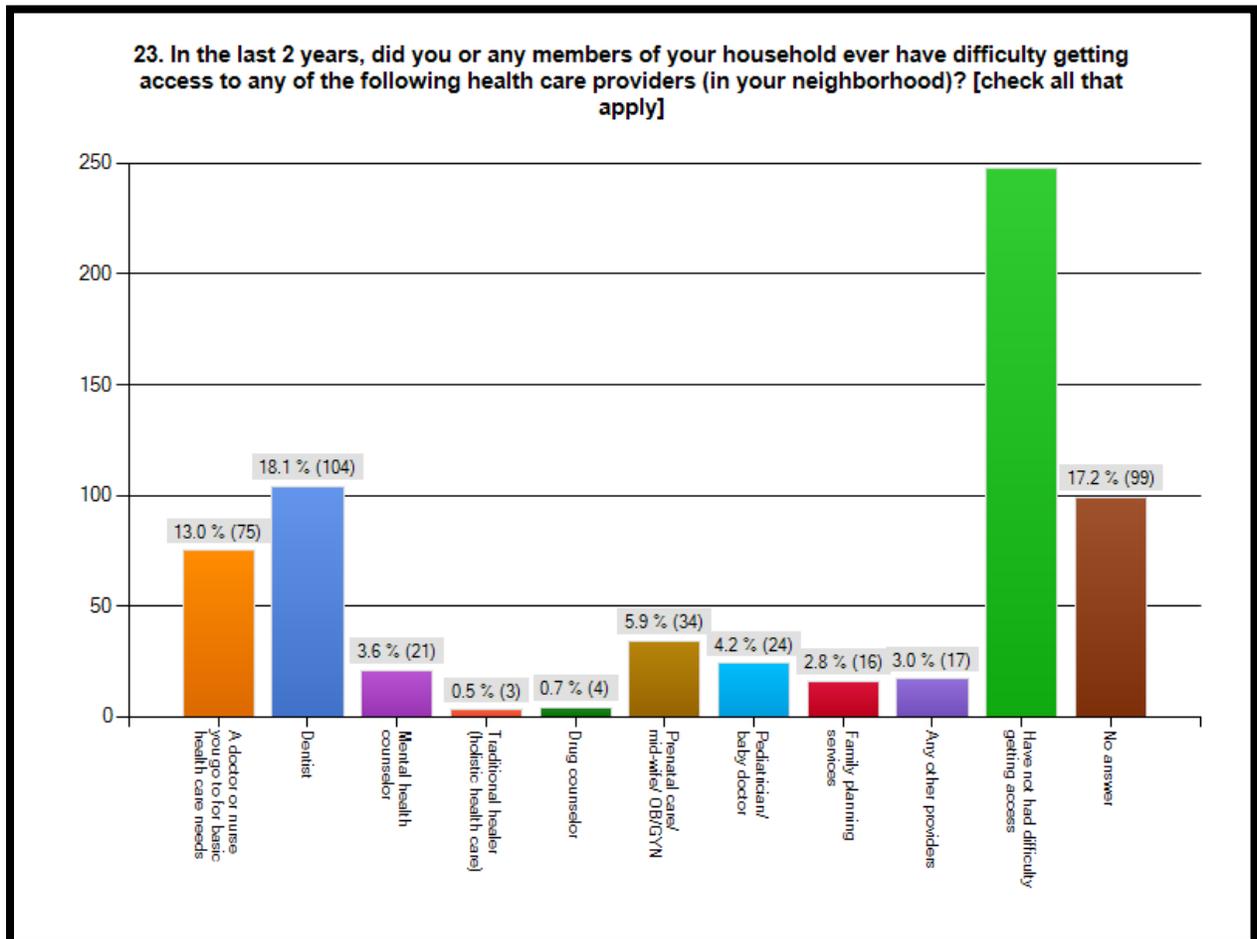
“Sometimes hospital/clinic staff assume we have Medicaid because of our skin color.”

End of Subset

Barriers to Care

“More clinics to avoid emergency room”

“More clinics to cut down on wait time.”



In the last 2 years, did you or any of your family ever have difficulty getting access to any of the following health care providers in your neighborhood?

Respondents were read a list and asked to identify all that apply. “In the last two years, did you or any members of your household ever have difficulty getting access to any of the following health care providers in your neighborhood?” 43% of respondents had no difficulty getting access to providers in their neighborhood. But the most often cited access problems: 13% had difficulty in seeing a doctor for basic care, 18.1% to see a dentist, and 5.9% to see a Mid-wife, OB/GYN.

- A doctor or nurse you go to for basic health care 75 13.0%
- Dentist 104 18.1%
- Mental health counselor 21 3.6%
- Traditional healer 3 .5%

○ Drug Counselor	4	.7%
○ Prenatal Care/mid-wife/OB/GYN	34	5.9%
○ Pediatrician/baby doctor	24	4.2%
○ Family planning services	16	2.8%
○ Any other providers	17	3.0%
○ Have not had trouble getting access	248	43.1%
○ No answer	99	17.2%

“If I was given the power for day the changes I would make would be focusing on good mental health. It helps us enjoy life and cope with problems. It offers a feeling of well being and inner strength. It determines how we take care of our bodies by eating right and exercising.”

- The types of services which respondents had difficulty accessing by zip code are:
 - A doctor or nurse – 11212 (20.5%), 11226 (25.9%), 11201 (31.3%).
 - Dentist – 11221 (27.8%), 11206 (29.6%), 11208 (29.4%), 11212 (23.1%), 11205 (30.4%), 11217 (30.4%), 11222 (33.3%).
 - Prenatal Care – 11212 (15.4%), 11238 (21.7%)
 - Pediatrics – 11221 (19.4%)
- If yes, please tell us what happened (141 responses), for those who responded yes to the question of difficulty in access to care. Those cited by more than one person are listed here:
 - No insurance 12
 - The don't take my insurance 8
 - Needed dental care 5
 - Did not have car fare 3
 - Don't have health problems 5
 - Hours of service 6
 - Can't get care right away 2
 - Not enough special needs doctors 2
 - No services in area 2
 - There were 34 other responses each listed by one person.

Did any of the following ever limit your ability to secure health care or cause you to wait before you or your household member went to the doctor or nurse in your neighborhood? Respondents were read a list of issues and asked to check all that apply. 182 respondents (30.1%) indicated that they had no barriers in access to care based on this list. 112 respondents (18.5%) have not had limits in accessing a doctor or

nurse. Taken together, almost half of the respondents (48.6%) have not had limited ability to secure health care services.

○ Could not afford the bill	71	11.8%
○ Insurance did not pay for what was needed	59	9.8%
○ No health insurance	95	15.7%
○ Health plan problem	48	7.9%
○ Could not find a doctor that took your insurance	41	6.8%
○ Did not know how to find a doctor or a nurse	12	2.0%
○ Did not know how to make an appointment	16	2.6%
○ Did not have a doctor or nurses phone number	6	1.0%
○ They were hard to reach by phone	20	3.3%
○ They did not return your phone call	24	4.0%
○ Had to wait too long to get an appointment	105	17.4%
○ Had to wait too long at the appointment	75	12.4%
○ Did not speak my language	21	3.5%
○ Did not make me feel comfortable	28	4.6%
○ Cannot miss work or school	31	5.1%
○ Hours of service are a problem	24	4.0%
○ Couldn't find a doctor or translator spoke language	10	1.7%
○ Transportation problems	13	2.2%
○ Took too long to get there	5	.8%
○ Did not know where to go	9	1.5%
○ Did not like the care received	27	4.5%
○ The facility was not accessible	6	1.0%
○ Have not had limits accessing doctor or nurse	112	18.5%
○ None	182	30.1%
○ Other (please specify)	31	

“There are health services in my area. Long Island College Hospital is not too far, but I have no health insurance to use it.”

“Waiting period is too long, more staff, always short staffed.”

“Health clinic for myself and my children with Arabic speaking doctors; travel far with my children.”

“The doctors need to care about the patients. Speak to them personally and the office staff should be polite.”

“Accessible rides to doctors and visiting service. Make services more affordable for the working class and don't discriminate when they don't have co-payments. They still

need health services done.”

Barriers by zip code

- Could not afford the bill by zip code – 11238 (37.5%), 11201 (22.2%)
- No health insurance by zip code – 11208 (19.5%), 11212 (21.4%), 11238 (25%), 11201 (33.3%), and 11233 (29.6%).
- Had to wait too long to get an appointment by zip code – 11237 (42.9%), 11221 (52.6%), 11212 (21.4%), 11238 (20.8%), and 11222 (33.3%), 11213 (14.5%)
- Had to wait too long at the appointment by zip code – 11237 (36.7%), 11221 (28.9%), and 11238 (16.9%).
- Have not had limits accessing doctor or nurse by zip code – 11206 (29.6%), 11207 (25.5%), 11217 (38.5%) and 11213 (49.1%).

Access to medications

In the last 12 months, have you or your family members been able to receive all of the prescription medications needed?

- | | | |
|---------------------------|-----|-------|
| ○ Yes | 486 | 76.4% |
| ○ No | 77 | 12.1% |
| ○ Did not need medication | 31 | 4.9% |
| ○ Do not know/not sure | 22 | 3.5% |
| ○ No answer | 20 | 3.1% |
- **If the answer was no to the question about receiving prescription medications check all that apply.** The most frequent responses were: costs too much (38.7%), no health insurance (40.6%), and health plan problems (22.6%).

○ Costs too much	41	38.7%
○ No health insurance	43	40.6%
○ Health plan problems	24	22.6%
○ Can't find doctor who accepts health insurance	7	6.6%
○ Cannot miss work	5	4.7%
○ Hours of service	2	1.9%
○ Not available in area	6	5.7%
○ Not know where to go	3	2.8%
○ Not like the service	3	2.8%
○ No answer	28	26.4%

Open-Ended Qualitative Questions on the Survey

This survey contains three open-ended questions that are not tied to another question and do not request an explanation of additional information about that question. In other surveys, at times the picture drawn by respondents is rosy and that everything is OK, however when asked directly for their opinion, problems are more likely to be expressed⁴⁵. This survey asks the respondent many times to respond in their own words, so that the answers to the questions below appear to corroborate the other responses.

The responses from these three questions were used in two ways: to identify direct quotes that contribute to the overall information provided in this survey; and to categorize the responses so that there is also a count of the prevalence of similar responses. The categories chosen were identified based on the purpose of the survey: a community health needs assessment of the North and Central Brooklyn communities to gather information from residents about what they think of health services in their neighborhoods and what they perceive is missing or more is needed. After a reading of the responses to these questions, with the assessment as the focus, the categories were selected. The chosen quotes and the proposed categories were sent to the health assessment partnership organizations for their review.

27. Are there any medical or health-related services you think your neighborhood needs more of? If so, what are the services?

Community Health: Some of the quotes from respondents address the overall need for services and for changes in the neighborhood that promote healthier living.

“Convenient physical access to grocery stores and other retailers that sell a variety of foods. More clinics/dental offices.”

“Better time service and more organized clinic appointed visits for patients and staff members that are knowledgeable.”

“More parks and pools to swim.”

“More mother father classes for young men and woman with children.”

“Every service that provides for the communities general health needs.”

“Need youth health programs; get youth off of the corner and into a productive environment.”

On specific services:

“Dental services that accepts more different types of Medicaid, drug services that could provide addicts rehab and also more clinics for youth treatment.”

“Wish there were more options for men.”

“More services for children with special needs.”

The most frequently mentioned as services needed in the community: Dental care (86), more doctors and clinics (76), pediatricians (35), OB/GYN (38), mental health (32), and geriatric services (18). As well, the theme of the need for more of these services was repeated in the other two open-ended questions.

The specialty care services mentioned most frequently as needed in the community are: general specialists (44), eye doctor (14), cardiologist (10), and orthopedist. Services for special populations, is identified ten times. Recreation and preventive services was identified by eight people.

Barriers to care that were identified included: culture and language (8), hours of service (8), problems with attitude of providers (8), and waiting time (7).

Additional issues that were raised included: costs (32), insurance problems (21), quality (16), and lack of information (12).

“Better communication between patient and doctor (language barriers).”

“More doctors because I have to wait too long to be seen.”

“More convenient for seniors that don’t have access to ambulant.”

“More services to educate people about access to medical care.”

“Medical transportation by local organizations that the community trusts. This would also create jobs.”

#28 If you were given the power for one day, what changes would you make in the medical care system that you feel would make it work better for you, your family, and for people in your community?

“Allow uninsured to receive health care, never denied.”

“A better system to expedite visits.”

“Easier to obtain health, more system communications between doctors and files.”

“No distortion of the diagnosis that will inhibit recovery for possible quality of life.”
“Hire doctors too crowded.”

“I live in Bed-Stuy and they do not make you feel comfortable. You have to wait too long. The doctors treat you as if you are just another number.”

“I don’t have health insurance. I think the uninsured should be seen and not made to feel inferior.”

“Bring services closer to your home and more readily available and have appointments dates set up to accommodate the client needs at time of need instead if months down the year. Waiting time should not take a half a day.”

“Cover everything: eliminate co-pays; all services under one roof; reduce wait times. Better customer service; more time with patients; clearer explanation of diagnoses, illnesses, procedures.”

“Reduce infant mortality, make schools healthier. I’ll get rid of all drugs or any harmful narcotic. Better food less hybrid. Eliminate all fast food restaurants.”

The above quotes are the types of statements that respondents expressed in response to this question. Access and coverage statements were predominant.

The responses to this question were more related to issues of access and barriers than the responses to question #27. However, there was also indication of the need for particular kinds of services, including: more doctors and clinics (54), dental (13), and geriatric services (13).

Barriers to care and access concerns were identified by more than half of the respondents to this survey. Some of the barriers included: waiting time (31), culture and language differences (23), attitude problems (23), and hours of service (9). Other

related problems include: costs (26), quality (22), insurance problems (14), and lack of information (14). In addition, systems change issues (17) got attention, along with the need to do more to teach/educate (16), and focus on the social determinants of health (10), including food and recreation.

Access to care and coverage was most often cited in response to this question. The responses included:

- Care more accessible and available 81
- Universal access to health care 40
- Free universal coverage 52
- Free care 47
- Equal treatment 10

There are many quotes from respondents that cover these issues, just a few of them will be listed here:

“Faster doctor visits, less wait times.”

“For doctors to make house call and come see you as needed.”

“Make services more cleaner and more professional also more organized. Try to get more people in better healthy by building organizations to get more people medical care on track.”

“Late hours for working people. Doctors should look at the whole person, not only what you tell them. They should ask questions. Maybe there are other issues. Make mandatory to remind patients of needed exams and vaccinations for children.”

“Bring services closer to home. Doctors should spend enough time with patient to really understand the problem.”

“Increase the allowed income for middle class to be eligible for Medicaid.”

“I will give everyone a good health service and will make everybody can qualify for Medicaid.”

“I make the services more readily available for everyone including people without immigration status.”

"I will bring more Spanish doctors from Latin America! They know us better and we would have a better communication and understanding!"

#29 Is there anything you would like to tell us about you and your family's health care, or health care services in your neighborhood? (For example: Do your children get good medical care? If not, what are the reasons?)

The responses to this question were mostly more personal and/or general. A large number of respondents (70) indicated that they were satisfied with their health care, but this applied mainly to the care received by their children. The wording of the example in this question directed people toward talking about their children's medical care. It is not clear if respondents would have answered the same way in talking about their own care.

There were again many negative comments about care in the community.

"The health care services are garbage. There should be more home visits by doctors."

"More language access for those doesn't speak English or more Hispanic doctors."

"People in my neighborhood do not know there are resources, and we cannot find private practices, only clinics and facilities, and there we cannot get personal care."

"Better doctor office so individual groups like my 19 year older brother can go and be comfortable."

"My child has good medical care but mine isn't really too good, once I got a certain age my Medicaid was shut off. I am still trying to build it back up."

"We need environmental testing in the area. There have been lots of contaminations in the area and residential buildings were built on top of them. Kids are being diagnosed with cancer and asthma, etc., at a higher rate as a result."

"Doctors office hours are limited it is very difficult for my daughter to help me with my wife."

“I spent all day at the doctor office and it create problem with my job.”

“Not too bad, could be a little better. They’re closing hospitals in our area. They’re closing Downstate and we don’t want that at all.”

“Our community has a lot of health issues because we do not have good doctors and don’t get a proper diagnosis, etc. Doctors don’t spend much time with patients therefore missing important facts regarding the health of patients.”

“Providers should bring service in my community based on our needs.”

“The area is not safe or healthy for our children.”

“The care we get is alright but would like to see the same doctor all the time.”

There is concern expressed in response to this question for more doctors/clinics (17) and dental care (8).

Most of the access and barrier question responses reflect the answers to the other open-ended questions. Under barriers: culture/language (8), waiting time (12), attitude problems (10). Also cited in these responses are: insurance problems (15), costs (19), quality (31), and lack of information (14).

Summary and Important Findings

The goal of this survey was to target, screen, and interview community residents in an effort to, as closely as possible, mirror the population in the 15 zip codes in North and Central Brooklyn communities. For example, 39% of the respondents in this survey are foreign-born compared to 40% of Brooklyn residents. Over 80% of the respondents in this survey are Black (African American and Caribbean/West Indian) and Latino and the Central Brooklyn population is 80% Black. Fourteen percent of the respondents have no health insurance. Over 52 % of the respondents are covered by income-eligible public health insurance – Medicaid, Family Health Plus, and Child Health Plus.

This study targeted respondents with lower incomes based on family size, using the New York City Housing Authority (NYCHA) guidelines. Therefore the income of respondents in this study, who are working, appears to be lower than the median income in the identified zip codes. In the Need for Caring 58 percent (201 of the 300 working respondents) indicated an income less than \$30,000 per year. The lowest

median income is found in 11237 (\$23,104). Several of the zip codes had median incomes a little higher than \$30,000 per year (11206, 11233, 11216, 11208, 11207). The highest median incomes are found in: 11201 (\$56,293) and 11217 (\$49,567).

The overall goal of *The Need for Caring in North and Central Brooklyn*, was to document health care needs, gaps in services and barriers to care.

The most often reported illnesses/health conditions are: high blood pressure/hypertension (24.8%); asthma (19.9%); diabetes (15.7%); and hearing or vision problems (15.2%). All of the conditions are amenable to preventive and primary care services, when these services are available. These illnesses were not evenly distributed among the different zip codes. 11237 showed high prevalence of each of the conditions. 11207 showed high prevalence for two of the conditions – asthma and high blood pressure. 11208 had high prevalence for two of the conditions – asthma and diabetes.

- Asthma was cited most often in: 11237 (12.1%); 11221 (22.5%); 11207 (22%); 11208 (29.6%); and 11212 (39.6%)
- High blood pressure/hypertension was cited most often in: 11237 (30.6%), 11207 (24%), 11212 (39.6%), 11226 (28.9%), 11205 (35.9%), 11217 (35.7%), 11233 (18.5%), 11216 (21.1%), and 11213 (23.6%).
- Diabetes was cited most often in: 11237 (20.4), 11208 (16.7%), 11212 (30.2%), 11226 (22.9%), and 11216 (18.4%)
- Hearing or vision problems were cited most often in: 11237 (28.6%), 11221 (30%), 11212 (15.1%), 11216 (18.4%), and 11213 (16.4%).

Eighty five percent of respondents said that it would be most **convenient to receive care** in their neighborhood. But many residents did not receive all of their care in their neighborhood, for a variety of reasons.

Access to care was not always available within all of the zip codes studied.

Respondents were asked, and shared the types of services they felt were missing from their community. Doctors and Dentists are the most frequently named providers that are needed. The types of services which respondents had most difficulty accessing by zip code are:

- A doctor or nurse – 11212 (20.5%), 11226 (25.9%), 11201 (31.3%).
- Dentist – 11221 (27.8%), 11206 (29.6%), 11208 (29.4%), 11212 (23.1%), 11205 (30.4%), 11217 (30.4%), 11222 (33.3%).
- Prenatal Care – 11212 (15.4%), 11238 (21.7%)
- Pediatrics – 11221 (19.4%)

In the open-ended questions on the survey, the same types of services were identified as needed in the community: Dental care (86), more doctors and clinics (76), pediatricians (35), OB/GYN (38), mental health (32), and geriatric services (18), were the most frequently mentioned as services needed in the community. A 2008 study by the City Council, prepared by the Health and Hospitals Corporation in conjunction with a community task force, in which respondents were surveyed in some of the same zip codes, listed the same services as needed in the community.⁴⁶

Specialty care services that were mentioned frequently as needed in the community are: general specialists (44), eye doctor (14), cardiologist (10), and orthopedist. Services for special populations, is identified ten times. Recreation and preventive services was identified by eight people.

Barriers to care were also identified. Respondents were read a list of issues and asked to check all that apply. “Did any of the following ever limit your ability to secure health care or cause you to wait before you or your household member went to the doctor or nurse in your neighborhood?” Of particular concern is the large number of responses that indicated the respondents had to wait too long to get an appointment, detailed below by zip code. Cost of care and lack of health insurance were also raised as problems. Almost half of the respondents (48.6%) have not had limited ability to secure health care services. The highest percent of reasons given by zip code as barriers to care are:

- Could not afford the bill, by zip code – 11238 (37.5%), 11201 (22.2%)
- No health insurance, by zip code – 11208 (19.5%), 11212 (21.4%), 11238 (25%), 11201 (33.3%), and 11233 (29.6%).
- Had to wait too long to get an appointment by zip code – 11237 (42.9%), 11221 (52.6%), 11212 (21.4%), 11238 (20.8%), and 11222 (33.3%), 11213 (14.5%)
- Had to wait too long at the appointment by zip code – 11237 (36.7%), 11221 (28.9%), and 11238 (16.9%).
- Have not had limits accessing doctor or nurse, by zip code – 11206 (29.6%), 11207 (25.5%), 11217 (38.5%) and 11213 (49.1%).

In two of the three open-ended questions, barriers to care were frequently raised, and the responses were more qualitative in nature than found in the rest of the survey responses. Concerns that were not captured in the closed-ended questions, were cited in these responses. It is not unusual for respondents to disclose more information when not constricted by multiple choice questions. Often barriers cited in response to both questions are: costs, insurance problems, quality, and lack of information. Other important barriers that were raised by respondents included: culture and language differences, hours of service, problems with attitude of providers, and waiting times.

Care outside the neighborhood is of major concern. Since an overwhelming majority of respondents (85%) said that it would be more convenient to receive care in their neighborhood, it is important to understand why people go for care outside of this neighborhood. In detail above, we showed the responses to question of what types of services respondents had difficulty accessing, and broke it down by zip code: a doctor or a nurse, dentist, OB/GYN, and pediatrician. In addition, we showed the types of barriers that respondents faced in accessing care, and broke this information down by zip code. Taken together, the responses to these questions could be one source in understanding why respondents go outside of their neighborhood for care.

The break-down by zip code of highest number of reasons given for going for care outside of the neighborhood are:

- I get care from a specialist outside my neighborhood – 11206 (70.4%), 11207 (57.9%), 11205 (58.6%), 11213 (52.2%).
- Was referred or assigned a doctor in another neighborhood -- 11206 (33.3%), 11238 (30%), 11216 (33.3%), 12213 (30.4%)
- Not satisfied with doctor found in my neighborhood – 11206 (22.2%), 11208 (25.9%), and 11205 (27.6%),
- Had to wait too long to get an appointment – 11237 (40%), and 11221 (30%)
- Had to wait too long to be seen at an appointment -- 11237 (40%), and 11221 (30%)

Emergency Room use is an important component, of the health care delivery system in medically underserved communities. There are many health conditions that could be treated on an outpatient basis in the community if there is access to services. This study is complementary to a study prepared by the Brooklyn Health Improvement Project (B-HIP), in which residents from almost the same zip codes were interviewed in the Emergency Room. Another important aspect of the B-HIP study was the identification of what as labeled “Hot Spots” in the neighborhoods.⁴⁷ Using SPARCS data, the project was able to identify problems of health care usage in three distinct areas that had the highest number of hospital discharges for conditions that could be treated in the community (ACSC).⁴⁸ The top “Hot Spots”, reported in census tracts, are located in Brownsville/East New York (11212, 11207); Crown Heights/North Bedford Stuyvesant (11213); and Bushwick/Stuyvesant Heights (11237, 11233). There is some overlap with our study, in that the zip codes with the heaviest usage of the ER are: 11226, 11216, 11212, and 11207.

Of the 644 respondents to the survey, 301 (46.8%) indicated that they or a member of their household had been to an Emergency Room in the last two years. Of this number, 220 identified how often they had visited the Emergency Room; most of the responses

were four or less visits to the Emergency Room in the last two years (182, 82.7%). When asked to identify the reason for the Emergency Room visit, 28.9% indicated asthma, and 27.6% said high blood pressure. Acute phases of these chronic conditions need urgent treatment, but preventive and ongoing, continuous, comprehensive care can mitigate the need for emergency treatment.

Some troubling patterns in the use of emergency care from the survey were noted. Of all of the people with different race and ethnicity cited, African Americans had the highest number and percent of persons using the emergency room in the last two years, 155, which was 51.5% of the African American respondents. Of this total, the highest number of visits to the ER by African Americans was found in: 11205 (12), 11207 (17), 11208 (17), 11212 (30 – more than half of those surveyed), 11216 (16), and 11226 (12). 54 of the African American ER users are male, 95 are female. 22 are married, 126 are not married. 67 are working and 79 are not working. 140 of the 155 African Americans (90%) have health insurance coverage, 79 are covered by Medicaid. There is high incidence of illnesses found in the African American population surveyed: 50 have asthma; 26 have diabetes; 46 have high blood pressure, 23 have bone and joint problems, 29 have hearing or vision problems, and 19 are depressed.

Another important finding in this study is that type of health insurance coverage appears to have an impact on ER usage. Typically, it is believed that the uninsured heavily use ER for services. In this study, of the 301 respondents who indicated they had used the ER in the last two years, the highest percentage usage of ER visits by insurance coverage was: Medicaid (50.3%), insurance by employer (13.9%), Medicare (10%), and no health insurance/self pay (10.4%).

Recommendations

The information gathered from the 644 community residents in the North and Central Brooklyn communities provides important directions for moving forward in providing services and coordinating efforts to improve health and living conditions. The target of this survey was lower-income residents so the recommendations we make may not be applicable to the whole community, but does address needs of the population not necessarily well-served now by the health system.

The 15 zip codes targeted for this survey differ from other communities, and from each other in many respects. In preparing to survey within these zip codes, priority was given to those areas with: over 50% of residents Medicaid and uninsured, the least number of Full Time Equivalent primary care providers per 1,000 population, the highest percent of African American and Latino residents, and those identified in another study as “Hot Spots.” The highest need communities were defined as: Bushwick, Bedford-Stuyvesant, East New York, Williamsburg, Brownsville, Crown Height, Clinton Hills and Cypress Hills, Flatbush, Prospect Heights, and Fort Greene. The analysis of the surveys show that these communities have important health care access and health care needs. Particular services needed were identified by survey respondents in some zip codes, however this does not mean that other zip codes have sufficient amount of these services.

Our recommendations, based on this survey, are:

- Focused attention on particular illnesses and communities in order to target services where they are most needed.
 - Asthma, Diabetes, and Hypertension were identified as prevalent conditions and often the reason for a visit to the Emergency Room. These conditions can be treated on an outpatient basis, when comprehensive, continuous primary care is available to residents. Targeting of additional services to many of the community, is important and in particular to Bushwick (11237), East New York (11207), and Cypress Hills (11208).
- The highest prevalence of Asthma is found in a cluster of neighborhoods: Brownsville (11212), Cypress Hills (11208), East New York (11207), and Bushwick (11237). Medical care alone cannot ameliorate this condition. We recommend the need for an air quality study and identification of triggers in ambient air in these neighborhoods, with a plan to address this problem.
- There is a need for more primary care practitioners that accept public health insurance, particularly in Brownsville and East Flatbush (11212), Flatbush (11226), and Arabic-speaking doctors who accept public health insurance in

11201. We recommend a coordinated campaign to reach out to, and work with, practitioners in these and other zip codes to encourage doctors and clinics to accept public health insurance and broaden the numbers of managed care companies that they contract with since almost all Medicaid patients are now required to be enrolled in managed care. With the introduction of the Affordable Care Act's increase in primary care reimbursement, there may be more receptivity to this campaign.

- Other primary care practitioners in short supply and mentioned as needed are OB/GYN and pediatricians. Prenatal care is needed in Brownsville and Flatbush (11212), and Prospect Heights (11238). Pediatricians are needed in Bedford-Stuyvesant and Bushwick (11211).
- Dental care was the most often cited service not available, but needed in North and Central Brooklyn communities. Considering our knowledge of how important proper care of the mouth is to better health status, this should be a priority for action and resources. These services are particularly needed in: Bedford-Stuyvesant and Bushwick (11211), Williamsburg (11206), Cypress Hills (11208), Brownsville and East Flatbush (11212), Bedford Stuyvesant and Fort Greene (11205), Gowanus (11217), and Greenpoint (11222).
- The finding of high use of Emergency Room services by African American residents and persons insured by Medicaid requires special attention. One way of addressing this problem is to ensure that primary care services are available in the community and that the hours of operation of these services address people's work, school, or other schedules. Another way to address this problem is to interview and work with community residents to help in defining a message and means of conveying the message, to encourage use of alternative services. The problem has been well-documented in this and other studies, but the process of figuring out ground-level solutions is still elusive. Special attention should be paid to: Brownsville and East Flatbush (11212), Cypress Hills (11208), East New York (11207), and Bushwick (11237).
- Two major barriers to accessing care identified by many of the respondents are: too long a wait to get an appointment and too long a wait at the appointment. One recommendation to address these access barriers is a coordinated effort amongst providers in the community to share provider resources and ensure that services are available where they are needed, and where people go for care.
- To ensure that culturally and linguistically competent information is available in the communities it would be helpful to develop a coordinated network of health care providers, social service providers, and community-based organizations to ensure that they are working together to assist community residents.

Endnotes

¹ Stephen Berger. *At the Brink of Transformation: Restructuring the Healthcare Delivery System in Brooklyn*. Page 5. Workgroup Findings: Brooklyn Health Care. http://www.health.ny.gov/health_care/medicaid/redesign/docs/brooklyn_mrt_final_report

² The Governor's Medicaid Reform Task Force. <http://www.governor.ny.gov/press/01052011medicaid>

³ *Creating a Vision for Brooklyn's Health Care System: A report of the Brooklyn Healthcare Working Group*. <http://www.nysenate.gov/files/pdfs/Creating%20a%20Vision%20for%20Brooklyns%20Health%20Care%20System%20A%20Report%20of%20the%20Brooklyn%20Healthcare%20Working%20Group.doc>

⁴ Berger, *ibid*

⁵ The Save Our Safety Net –Campaign, a coalition of community and labor, was organized in 2006 when an official State Commission was appointed by the then-Governor Pataki to perform a review for hospital closings. SOS-C organized a campaign to ensure that if hospitals were to be closed, they would not be closed in low-income, community-based, immigrant and communities of color. www.soscnny.wordpress.com

⁶ National Institute for Clinical Excellence (2005) *Health Needs Assessment: A Practical Guide*. London

⁷ Wallerstein, N., & Duran, B. (2010). Community-Based Participatory Research Contributions to Intervention Research: The Intersection of Science and Practice to Improve Health Equity. *American Journal of Public Health*. 100-S1. S40-546.

⁸ Viswanathan, M. Ammerman, A. Eng, E, et al. (2004 Aug.) Community-Based Participatory Research: Assessing the Evidence: Summary. In. *AHRQ Evidence Report Summaries*. Rockville (MD); Agency for Healthcare Research and Quality. 1998-2005. 99.

⁹ Parrill, R. Kennedy, B.R., (2011). Partnerships for Health in the African American Community: Moving Toward Community-Based Participatory Research. *Journal of Cultural Diversity*. 18(4), 150-154.

¹⁰ *Ibid*, Parrill

¹¹ Berger *ibid*: page 41.

¹² Berger, *ibid*

¹³ Lee Rivers Mobley, et al. (2012) The Effects of Safety Net Hospital Closures And Conversions on Patient Travel Distance to Hospital Services. *Health Services Research*. 47.1pt1 129-150.

¹⁴ *Ibid*. Mobley

¹⁵ Richman, BD. (2007). Antitrust and Nonprofit Hospital Mergers: A Return to Basics. *University of Pennsylvania Law*

¹⁶ Anemona Hartocolis. "The Decline of St. Vincent's Hospital. *New York Times*. February 10, 2010

<http://www.nytimes.com/2010/02/03/nyregion/03vincents.html?pagewanted=all&r=0>

¹⁷ Hartocolis. Ibid

¹⁸ Marc Santora. "St. Mary's Hospital in Brooklyn Is to Close After Years of Losses. *New York Times*. June 4, 2005.

[www://http:Travel.nytimes.com/2005/06/04/nyregion/04hospital.html](http://www.nytimes.com/2005/06/04/nyregion/04hospital.html)

¹⁹ New York Medicaid Redesign Health System Redesign Brooklyn Work Group, Power Point presentation by Rick Cook, NYS Department of Health, July 28, 2011.

http://www.health.ny.gov/health_care/medicaid/redesign/docs/2011-07_28_brooklyn_work_group_presentation.ppt

²⁰ Ibid, Cook, citing the NYC Department of Health and Mental Hygiene. *Community Health Survey. A Self Reported Telephone Survey*, 2009.

²¹ Center for Study of Brooklyn <http://www.brooklyn.cuny.edu/pub/departments/csb/>

²² Ibid, Cook Power Point presentation. Source: SPARCS 2010.

²³ Wong, Grace, Fyfe, Dorothy. Brooklyn Healthcare Improvement Project. Final Report: Making the Connection to Care in Northern and Central Brooklyn. SUNY Downstate, New York. August 8, 2012. Twelve of the zip codes in both studies overlapped: 11206, 11237, 11217, 11238, 11216, 11213, 11226, 11212, 11207, 11208, 11233, and 11221. The B-HIP study also covered 11210 and 11227. The Need for Caring also covered: 11222, 11211, 11205, and 11201. <http://www.downstate.edu/bhip/pdf/B-HIP-Final-Report.pdf>

²⁴ Wong, B-HIP, page 5.

²⁵ Wong, B-HIP

²⁶ Wong, B-HIP, page 7

²⁷ Source: Center for Health Workforce Studies, October 2011. <http://chws.albany.edu/>

²⁸ <http://bhpr.hrsa.gov/shortage/hpsas/designationcriteria/designationcriteria.html>

²⁹ Berger, page 76, source not identified.

³⁰ Lager, Nancy, Green, Donna, Kim, Victor and Deborah Zahn. *A Primary Care Capacity Shortage in New York City & The Potential Impact of Hospital Closures*. Primary Care Development Corporation and the New York City Health and Hospitals Corporation. September 2006. And Rosenbaum, Sara, Shin, Peter, and Perez Trevino Whittington, Ramona. *Laying the Foundation. Health System Reform in New York State and the Primary Care Imperative*. June 2006.

³¹ *Primary Care Initiative Community Health Assessment*. Final Report. Health & Hospitals Corporation. August 21, 2008. New York

<http://council.nyc.gov/downloads/pdf/PCI%20Final%20Report.pdf>

³² Ibid.

³³ Quotations in italics are respondents answers to The Need for Caring Open-Ended Questions.

³⁴ Ibid.

³⁵ BHIP study cite

³⁶ Center for Brooklyn study

³⁷ BHIP

³⁸ BHIP

³⁹ CPHS Child Health Initiatives survey *Voices from the Community*. CPHS. 2008. New York http://www.cphsnyc.org/cphs/reports/december_2008-voices_from_the_c/ and HHC survey, *ibid*

⁴⁰ Giuliano AR, Mokuau R, Hughes N, et al. (2000) Participation of minorities in cancer research: the influence of structural, cultural, and linguistic factors. *Ann Epidemiol.* 10(8 Suppl):522-534. and Wendler D, Kington R, Madans J, et al. Are racial and ethnic minorities less willing to participate in health research? (2006) *PLoS Med.* 3(2):e19.

⁴¹ Nyguen GT, et al. Surveying Linguistically Challenged Southeast Asian American Population Use of a Community-Partnered Methodology. *Journal of Health Care for the Poor and Underserved.* (August 2011) Vol.22:3 pp. 1101-1114. and Moreno J. Lessons learned a half-century of experimenting on humans.(1999) *Humanist.* 59:9-15.

⁴² Patel V, Rajpathat S, Karasz. (2012) Bangladeshi Immigrants in New York City: A Community-Based Health Needs Assessment Of A Hard To Reach Population. *Journal of Immigrant And Minority Health.* 14.5:767-773. and Martinez IL, Carter-Pokras O. (2006) Addressing Health Issues and Barriers to Health in a Heterogeneous Latino Community. *Journal of Healthcare for the Poor and Underserved.* 17(4):899-909.

⁴³ *Ibid* Nyguen

⁴⁴ Schulz A, Parker EA, Israel, BA, et al. (1998) Conducting a participatory community-based survey for a community health intervention on Detroit's East Side. *J Public Health Manag Pract.* 4:10-24.

⁴⁵ CPHS. *Ibid.* 2008.

⁴⁶ Health and Hospitals Corporation, *ibid.*

⁴⁷ B-HIP, *ibid.*

⁴⁸ B-HIP, *ibid.* page 29.