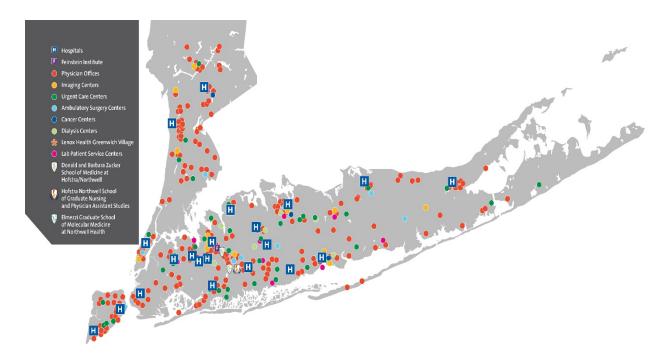


## Northwell Health 2019 Community Health Needs Assessment: Richmond County Assessment

### **Encompassing the following Northwell Health Hospital:**

Staten Island University Hospital





#### Richmond County Health Indicator Status Since 2016 CHNA

The 2016-2019 Implementation Plan activities have had an impact in improving and meeting New York State Prevention Agenda Objectives that were related to health disparities, chronic disease, safe environments, maternal child health, STD/HIV, vaccine preventable diseases, healthcare-associated infections and behavioral health as shown below. Since 2018, Northwell Health has delivered over 13,000 community health programs and over 22,000 health screenings. Examples of interventions that helped achieved these goals include robust chronic disease and cancer screening programs; implementation of culturally relevant evidence-based chronic disease self-management education; prevention of childhood obesity through school-based projects as well as promotion of policies and practices in support of breastfeeding; creation of community environments that promote and support healthy food and beverage choices and physical activity; elimination of exposure to secondhand smoke and prevention of the initiation of tobacco use by youth, especially among low socioeconomic status (SES) populations and the promotion of tobacco cessation, especially among low SES populations and those with poor mental health; and strengthened infrastructure to promote mental, emotional and behavioral wellbeing. However, the burden of health disparities, chronic disease, obesity and behavioral health issues is still present as demonstrated below by the indicators that have not met the New York State Department of Health (NYSDOH) Prevention Agenda Objectives and/or have worsened indicating the need to continue to primarily address the 2019-2024 priority agenda items of Prevent Chronic Disease and Promote Well Being and Prevent Mental and Substance Use Disorders as well as including strategies that can improve other priority areas as well.

Since the last community health needs assessment, the following NYSDOH Prevention Objectives<sup>1</sup> have:

#### **Improved**

#### NYSPAO Category: Improve Health Status and Reduce Health Disparities

Premature deaths: Ratio of Hispanics to White non-Hispanics

Age-adjusted preventable hospitalization rate per 10,000 - Aged 18+ years\*>

Preventable hospitalizations: Ratio of Black non-Hispanics to White non-Hispanics#>

#### **NYSPAO Category: Prevent Chronic Disease**

Asthma emergency department visit rate per 10,000 - Aged 0-4 years\*>

Rate of hospitalizations for short-term complications of diabetes per 10,000 - Aged 6-17 years>

#### NYSPAO Category: Promote a Healthy Safe Environment

Rate of emergency department visits due to falls per 10,000 - Aged 1-4 years\*#>

Assault-related hospitalization: Ratio of Hispanics to White non-Hispanics>

Percentage of population with low-income and low access to a supermarket or large grocery store\*

#### NYSPAO Category: Promote Healthy Women, Infants and Children

Premature births: Ratio of Hispanics to White non-Hispanics#

Exclusively breastfed: Ratio of Black non-Hispanics to White non-Hispanics Exclusively breastfed: Ratio of Medicaid births to non-Medicaid births#>

Percentage of children who have had the recommended number of well child visits in government

sponsored insurance programs\*#

<sup>&</sup>lt;sup>1</sup> New York State Department of Health Prevention agenda Dashboard <a href="https://webbi1.health.ny.gov/SASStoredProcess/guest?">https://webbi1.health.ny.gov/SASStoredProcess/guest?</a> program=%2FEBI%2FPHIG%2Fapps%2Fdashboard%2Fpa d <a href="mailto:assbboard&p=ch&cos=62">assbboard&p=ch&cos=62</a> Assessed November 2019



Percentage of children aged 12-21 years who have had the recommended number of well child visits in government sponsored insurance programs \*#

Adolescent pregnancy: Ratio of Black non-Hispanics to White non-Hispanics#>

Adolescent pregnancy: Ratio of Hispanics to White non-Hispanics#

Percentage of unintended pregnancy among live births\*>

## NYSPAO Category: Prevent HIV/STDs, Vaccine Preventable Diseases and Healthcare Associated Infections

Primary and secondary syphilis case rate per 100,000 women

\*Significant change # Did not meet NYSDOH Prevention Agenda Objective

> Continued improvement since 2010-2013 Community Health Needs Assessment

#### **No Significant Change**

#### **NYSPAO Category: Improve Health Status and Reduce Health Disparities**

Percentage of premature deaths (before age 65 years)#

Percentage of adults (aged 18-64) with health insurance#

Age-adjusted percentage of adults who have a regular health care provider - Aged 18+ years#

#### **NYSPAO Category: Prevent Chronic Disease**

Percentage of adults who are obese#

Percentage of children and adolescents who are obese

Percentage of cigarette smoking among adults #

Asthma emergency department visit rate per 10,000 population#

Age-adjusted heart attack hospitalization rate per 10,000 population

#### **NYSPAO Category: Promote a Healthy Safe Environment**

Rate of hospitalizations due to falls per 10,000 - Aged 65+ years#

Rate of occupational injuries treated in ED per 10,000 adolescents - Aged 15-19 years

Percentage of population that lives in a jurisdiction that adopted the Climate Smart Communities pledge

Percentage of residents served by community water systems with optimally fluoridated water

#### NYSPAO Category: Promote Healthy Women, Infants and Children

Percentage of preterm births

Percentage of infants exclusively breastfed in the hospital#

Percentage of children aged 0-15 months who have had the recommended number of well child visits in government sponsored insurance programs #

Percentage of children aged 0-15 months who have had the recommended number of well child visits in government sponsored insurance programs #

Percentage of children (aged under 19 years) with health insurance#

Adolescent pregnancy rate per 1,000 females - Aged 15-17 years

Unintended pregnancy: Ratio of Black non-Hispanic to White non-Hispanic#

Unintended pregnancy: Ratio of Hispanics to White non-Hispanics

Unintended pregnancy: Ratio of Medicaid births to non-Medicaid births#

Percentage of women (aged 18-64) with health insurance#

Percentage of live births that occur within 24 months of a previous pregnancy#

#### NYSPAO Category: Promote Mental Health and Prevent Substance Abuse

Age-adjusted percentage of adults with poor mental health for 14 or more days in the last month# Age-adjusted percentage of adults binge drinking during the past month#



## NYSPAO Category: Prevent HIV/STDs, Vaccine Preventable Diseases and Healthcare Associated Infections

Percentage of adults with flu immunization - Aged 65+ years#

Newly diagnosed HIV case rate per 100,000 population

Difference in rates (Hispanic and White) of newly diagnosed HIV cases

Gonorrhea case rate per 100,000 women - Aged 15-44 years

Chlamydia case rate per 100,000 women - Aged 15-44 years

Primary and secondary syphilis case rate per 100,000 men#

# Did not meet NYSDOH Prevention Agenda Objective

#### Worsened

#### NYSPAO Category: Improve Health Status and Reduce Health Disparities

Premature deaths: Ratio of Black non-Hispanics to White non-Hispanics# Preventable hospitalizations: Ratio of Hispanics to White non-Hispanics

**NYSPAO Category: Prevent Chronic Disease** 

Rate of hospitalizations for short-term complications of diabetes per 10,000 - Aged 18+ years#<

#### **NYSPAO Category: Promote a Healthy Safe Environment**

Assault-related hospitalization rate per 10,000 population#<

Assault-related hospitalization: Ratio of Black non-Hispanics to White non-Hispanics<

Assault-related hospitalization: Ratio of low-income ZIP codes to non-low-income ZIP codes#<

Percentage of employed civilian workers age 16 and over who use alternate modes of transportation to

work or work from home#<

#### NYSPAO Category: Promote Healthy Women, Infants and Children

Premature births: Ratio of Black non-Hispanics to White non-Hispanics#<
Premature births: Ratio of Medicaid births to non-Medicaid births#
Exclusively breastfed: Ratio of Hispanics to White non-Hispanics

Maternal mortality rate per 100,000 live births#<

#### **NYSPAO Category: Promote Mental Health and Prevent Substance Abuse**

Age-adjusted suicide death rate per 100,000 population#<

### NYSPAO Category: Prevent HIV/STDs, Vaccine Preventable Diseases and Healthcare Associated Infections

Difference in rates (Black and White) of newly diagnosed HIV cases

Gonorrhea case rate per 100,000 men - Aged 15-44 years#

\*Significant change # Did not meet NYSDOH Prevention Agenda Objective

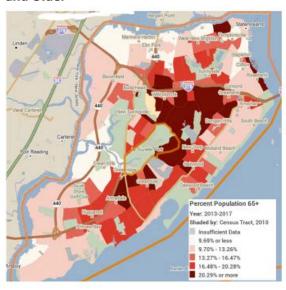
< Continued worsening since 2010-2013 Community Health Needs Assessment



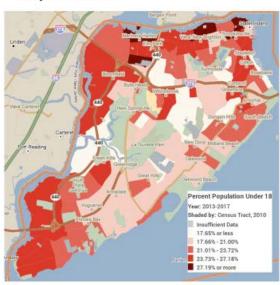
#### **Demographic Profile**

Our primary service area in Staten Island encompass two hospitals, Staten Island University Hospital, North and Staten Island University Hospital, South. Richmond County has a population of 478,009 that is 52% female and has an age distribution of 22% aged less than 18 years, 34% aged between 18 and 44 years old, 28% aged 45 to 64, and 16% over 65 years of age. The following maps identify areas with concentrations of children and older adults.

### Richmond-Estimated Percent of all People 65 and Older



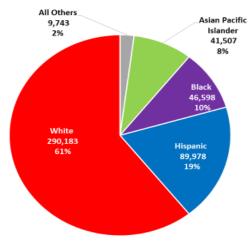
#### Richmond-Estimated Percent of all People Under 18



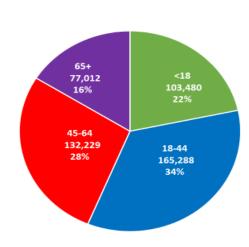
Source: PolicyMap 2018 v 2019:25:11; Census tract

The racial distribution of Staten Island is 63% white, 18% Hispanic, 9% black, and 8% Asian. Approximately 22% of Richmond County residents are foreign-born and 31% of residents speak a language other than English at home.

#### **Staten Island Racial Diversity**



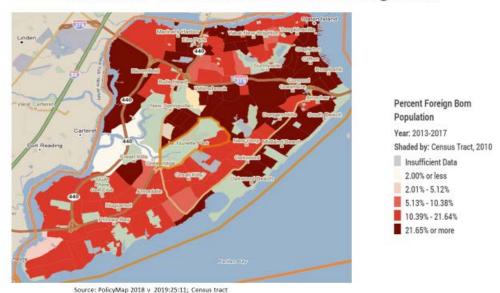
#### **Staten Island Population Age Distribution**





The Hispanic population is the most largely represented minority in Richmond County. Within the Hispanic population, there are several countries of origin represented which are listed in order of presence: Puerto Rican, Central American, South American and Spanish subgroups and Mexican. In addition, there are several countries of origin represented in the Asian population of Staten Island. The breakdown of Asian subpopulations presence is as follows: Chinese, Asian Indian, other Asian, Filipino, Korean, Vietnamese, and Japanese. The following map demonstrates the diversity in Staten Island.

#### **Richmond-Estimated Percent of all Foreign Born**





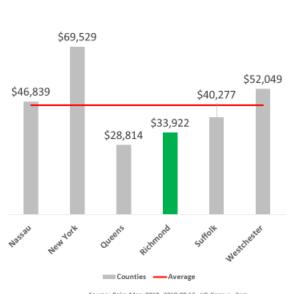
#### Social Determinant Analysis

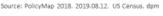
Secondary data on various social determinants of health in Richmond County was analyzed to identify factors that may contribute to the health status of the population of Richmond County. The results of this analysis are as follows.

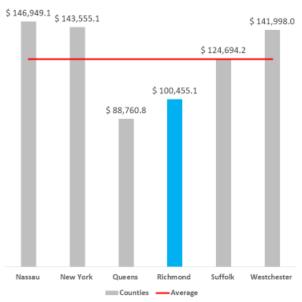
The average household income in Staten Island is \$100,455 while the per capita income is \$33,922. Both of these statistics fall below the service area average. The poverty rate in Staten Island is high at 11.8%, above the service area average. As depicted in the map below, there are higher rates of poverty in the St. George and Stapleton sections of Staten Island. In these areas, residents may be up to 29% below federal poverty level. The socioeconomic state of Staten Island is further represented in its rates of unemployment. While the county-wide unemployment rate is 4.1%, the highest rate in the Northwell's service area average, there are higher unemployment rates in the same impoverished communities mentioned above. One cannot be discussed without the other.



### Average Household Income Service Area Avg.= \$124,402

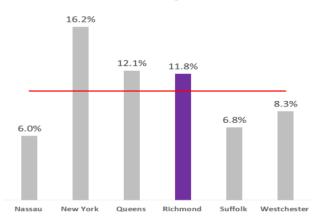






Source: NYCLIW 2018, 2019.08.12, US Census, dpm

### Percent Poverty (est). Service Area Avg.= 10.2%

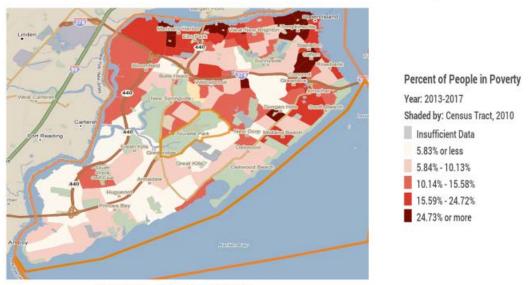


#### 2018 Unemployment Rate Service Area Avg.= 3.8%



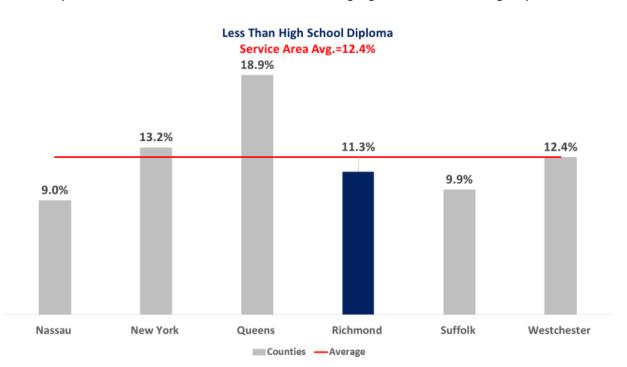


#### Richmond-Estimated Percent of all People living in Poverty



Source: PolicyMap 2018 v 2019:25:11; Census tract

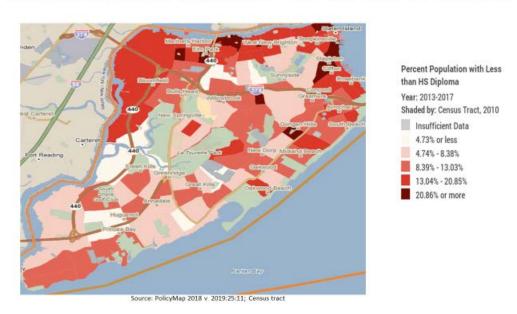
Poverty and unemployment are not the only socioeconomic determinants of health. Educational attainment has perhaps the strongest correlation to health outcomes. In Staten Island, 80.8% of students graduate from high school which is the highest rate in NYC. In addition, almost 11% of Staten Island residents have less than a high school diploma and the communities where reside are highlighted on the following map.



Source: PolicyMap 2018 v 2019.08.12 U5 Census, dpm

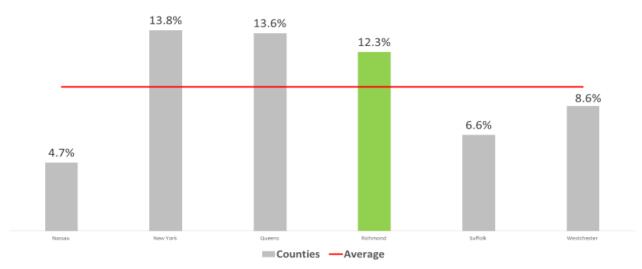


#### Richmond-Percent population with less than HS diploma



Income and employment greatly impact health in a number of ways, but perhaps the most discernible of those is one's ability to buy food, especially healthful foods. An estimated 9% of the population of Staten Island experiences food insecurity, with approximately 42,599 food insecure individuals living in Staten Island<sup>3</sup>. Approximately 12.3% of Staten Island residents are receiving food assistance (SNAP). This is well above our service area average of 9.9% and, as shown in the figure to the right, there is a significant divide in food assistance amongst our counties served. Between 12 and 14% of residents of Manhattan, Staten Island, and Queens receive food assistance while just 4 to 8% of Long Island and Westchester residents receive food assistance.



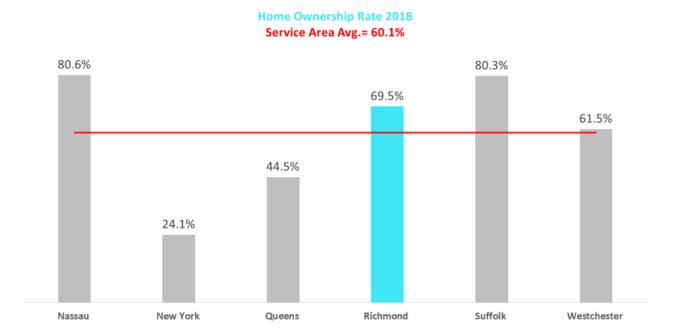


Source: NYCLIW 2018 v 2019.08.12. US Census. dpm

<sup>&</sup>lt;sup>3</sup> Map the Meal Gap, 2018



Other contributors to health status include housing. The home ownership rate in Staten Island from 2018 was 69.5%. Even with higher rates of home ownership, it's important to examine rent burden in Staten Island. The U.S. Census Bureau American Community Survey defines rent burden as the percent of renter households whose gross rent (rent plus utilities) is greater than 30 percent of their monthly pre-tax income. In Richmond, we see that there are many communities with significant rent burden which is associated with lack of affordable housing and homelessness.



Counties —Average

Source: PolicyMap 2018, 2019.08.12. U5 Census, dpm



#### Richmond-Estimated Percent of all Renters who are Cost Burdened



Source: PolicyMap 2018 v 2019:25:11; Census tract

Health status is also shaped by a community's social vulnerability which refers to the resilience of communities when confronted by external stresses on human health, stresses such as natural or human-caused disasters or disease outbreaks, reducing social vulnerability can decrease both human suffering and economic loss. The CDC Vulnerability Index uses 15 US Census variables at tract level to help identify communities at risk. Below is the social vulnerability map for Richmond.

#### Richmond-social vulnerability level-socioeconomic category





#### **Primary Data Analysis**

To identify community health needs beyond medical health conditions, inspire new dialogues among a cross sector of community-based organizations, develop strategies, and solutions to improve the community health of local communities, Northwell Health organized community-based organization summits in New York, Queens and Richmond Counties. In Richmond County, Northwell invited community-based social service and behavioral health organizations to participate in small group facilitated discussions to elicit feedback on what community-based organization participants perceived as main health issues and disparities within their respective communities based on New York State Department of Health's Prevention Agenda, the social determinants of health impacting the overall health of communities and strategies to address these issues. The summit was held on April 29, 2019 at the Staten Island University Medical Center on Staten Island. Trained Northwell facilitators led the small group discussions using the Delphi Method to initiate discussions and achieve consensus on priority issues. A comprehensive report, including the methodology, on the Northwell Community Summits can be found in the Appendix.

Analyzing data with a NYS Prevention Agenda lens, the number one priority area across all three counties was Promote Well-Being and Prevent Mental and Substance Use Disorders. Mental health attention and services were a persistent topic of discussion among all groups. Preventing Chronic Diseases was the second leading priority area across all counties. Richmond County specific results related to barriers to accessing healthcare, strategies to address these barriers and social determinants of health impacting community health are listed in the following tables.

#### Top barriers to accessing healthcare for the community

Health literacy
Insurance/ Cost of healthcare
Stigma/Fear
Lack of transportation

#### **Most Effective Strategies to Address Healthcare Barriers**

Community partnerships/Engagement
Culturally competent professionals/Services
Early education
Access to transportation
Senior support

#### Top Social Determinants of Health Impacting the Community's Health

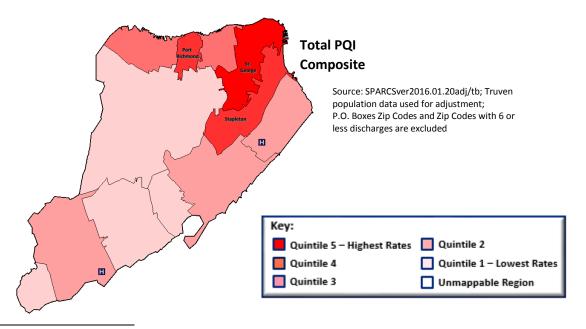
Health literacy
Lack of community engagement
Lack of affordable Housing
Poor neighborhood infrastructure
Food insecurity
Safe housing and recreation
Deprioritization of health
Early childhood influence
Environmental hazards
Prevalence of racism/Discrimination



As aforementioned, sources of information included SPARCS data<sup>2</sup> (version 2016), NYSDOH Vital Statistics, NYS Cancer Registry, the NYSDOH Surveillance System, New York State DOH Prevention Agenda Dashboard, New York State Community Indicator Reports, New York State Opioid Data Dashboard, New York City Neighborhood Health Atlas, Behavioral Health Risk Factor Surveillance System, NYCDOHMH EpiQuery data set, Policy Map, Northwell Health TSI Reporting and Analytics and U.S Census data. Data were age-adjusted (direct standardization of rates) based on 2010 U.S. standard population. A mapping of Prevention Quality Indicators (PQIs) quintiles was also used as part of the data analysis to identify pockets of diminished health in the counties we serve. For PQIs, quintiles are assigned to the data based on their comparative rates of disease per 100,000 population, and we use these quintiles to assess the relative health of different zip codes. The quintiles are arranged 5 to 1 with the 5<sup>th</sup> quintile containing the highest rates of the targeted PQIs and their associated conditions, while quintile 1 contains the lowest rates.

#### Prevention Quality Indicator (PQI) Composite

Richmond County's percentage of premature deaths, defined as before the age of 65 years, was 25.7% above the New York State (NYS) and the New York State Prevention Agenda Objective (NYSPAO) rates. The premature death ratio of Black non-Hispanics to White non-Hispanics increased and is above the NYS and NYSPAO ratios, but the ratio of Hispanics to White non-Hispanics improved. Age-adjusted adult preventable hospitalization rates declined significantly below NYS and NYSPAO rates. The preventable hospitalizations ratio of Black non-Hispanics to White non-Hispanics improved but is still above the NYS and NYSPAO ratios. The Hispanic to White non-Hispanic ratio worsened but is below the NYS and NYSPAO ratios. Of Staten Island's 12 zip codes, a few consistently emerged in PQI quintiles 4 or 5, indicating high rates of disease and poorer health outcomes in those areas. These areas include Port Richmond, St. George, and Stapleton.



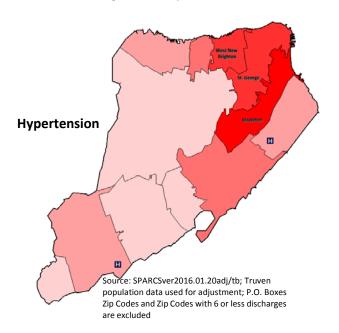
<sup>&</sup>lt;sup>2</sup> 2017 SPARCS data set was recalled by the NYSDOH for further analysis leaving the 2016 data set as the most recent at the time of this assessment but a 2 year analysis of 2015 and 2016 was not possible due to the use of IDC 9 codes in 2015 and the use of IDC 10 codes in 2016. Therefore, with guidance from the NYSDOH the PQI analysis was performed using the combined 2013-2014 data sets.

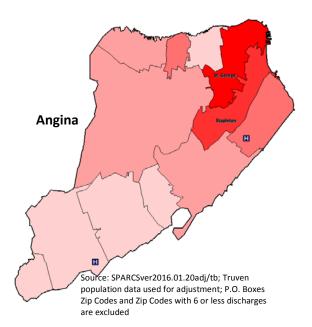


#### Chronic Disease

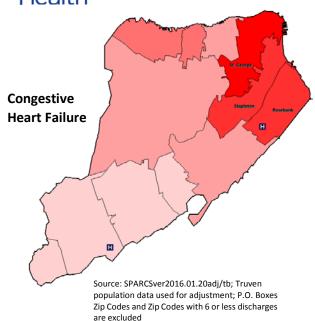
To assess chronic disease prevalence in Richmond County, the county prevalence is compared to New York State (NYS) and in relation to the 2018 NYS Prevention Agenda Objectives (NYSPAO). In addition, communities within the county that have higher prevalence rates than the county average have been identified.

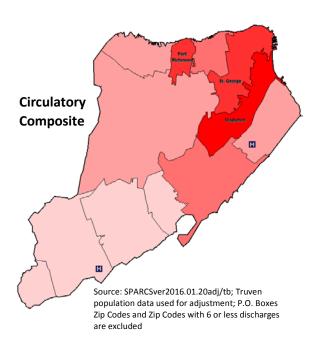
Richmond County age-adjusted percentage of adults with cardiovascular disease (defined as heart attack, coronary heart disease or stroke) was 5.8% below NYC and NYS levels. Staten Island age-adjusted cardiovascular disease mortality rate was above the NYS and NYS rates. Cardiovascular disease premature death (ages 35-64 years) rate is above the NYS and NYS rates. Age-adjusted coronary heart disease hospitalization rate in Staten Island is above both the NYS and the NYS rates. Age-adjusted heart attack mortality rate significantly improved but it is still almost double the NYC and NYS rates. Age-adjusted congestive heart failure hospitalization rates significantly worsened but is lower than NYC and a third of the NYS rates. Age-adjusted Cerebrovascular (Stroke) disease mortality was above the NYC and NYS rates. Age-adjusted percentage of adults with physician diagnosed high blood pressure was 27.8% on par with NYC and NYS levels. Hypertension hospitalization and emergency department visit rates were above the NYC and NYS rates. Circulatory PQIs had the highest rates in Port Richmond, St. George, and Stapleton. The other circulatory disease maps highlight areas with increased PQIs.





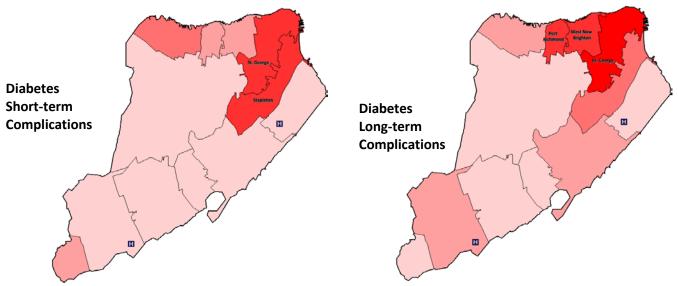




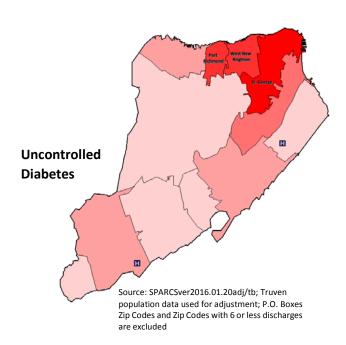


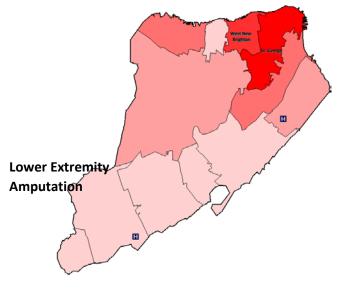


Age-adjusted Diabetes prevalence rates measured as a percent of adults with physician diagnosed diabetes was 8.7%, lower than the NYC and NYS levels. Age-adjusted diabetes mortality and hospitalization rates were on par with NYC but above NYS rates. The adult diabetes short term complication hospitalization rate worsened but is below the NYS rate and above the NYSPAO. However, the pediatric (ages 6-17 years) rate improved and is below the NYS and the NYSPAO rates. Obesity rate for adults (BMI>30) was 21.7%, below both the NYC and NYS levels; however, almost 2/3 of adults are overweight or obese. Diabetes PQIs had the highest rates in St. George and Stapleton.

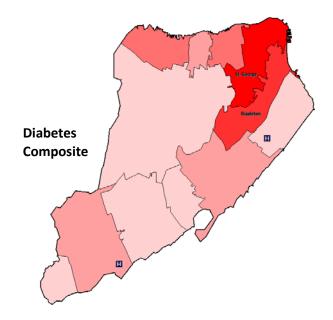








Source: SPARCSver2016.01.20adj/tb; Truven population data used for adjustment; P.O. Boxes Zip Codes and Zip Codes with 6 or less discharges are excluded

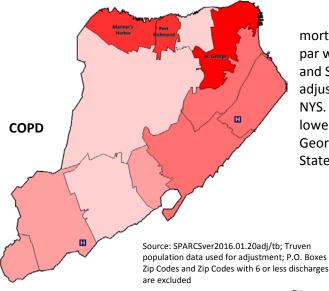


Key:

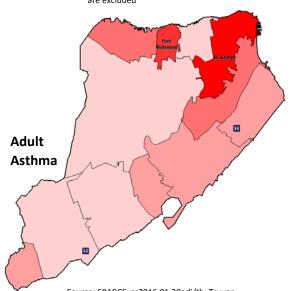
Quintile 5 – Highest Rates Quintile 2
Quintile 4 Quintile 1 – Lowest Rates
Quintile 3 Unmappable Region

Source: SPARCSver2016.01.20adj/tb; Truven population data used for adjustment; P.O. Boxes Zip Codes and Zip Codes with 6 or less discharges are excluded



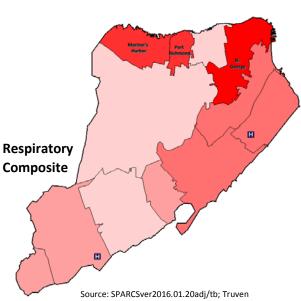


Age-adjusted chronic lower respiratory disease mortality and hospitalization rates are above NYC and on par with NYS rates. Mariner's Harbor, Port Richmond, and St. George had the highest rates of COPD. The age-adjusted adult asthma rate is 9% on par with NYC and NYS. Pediatric asthma-related hospitalization rates were lower than NYC and NYS rates. Port Richmond and St. George had the highest asthma rates. The north and east Staten Island had higher fine particulate matter rates.



Source: SPARCSver2016.01.20adj/tb; Truven population data used for adjustment; P.O. Boxes Zip Codes and Zip Codes with 6 or less discharges are excluded





Source: SPARCSver2016.01.Z0adj/tt; Truven population data used for adjustment; P.O. Boxes Zip Codes and Zip Codes with 6 or less discharges are excluded



Lifestyle data including nutrition and physical activity are major factors in the prevention and management of chronic disease. The cigarette smoking rate on Staten Island is 12.8% lower than the NYS level but above the NYSPAO of 12.3 Recently, e cigarette use and youth vaping has increased dramatically. Approximately 1/3 of Staten Island adults have not reported participating in any leisure time physical activity in the past 30 days and the same amount reported no daily fruit and vegetable consumption. The percentage of population with low income and low access to a supermarket or large grocery has significantly declined; however, overweight is still a major problem in Richmond County as shown on the following map.

#### Richmond-estimated percent of adults reporting to be overweight

Pct. of Adults Reporting to be Overweight (BMI > 24.9 and <

Year: 2013 Shaded by: Census Tract, 2010 Insufficient Data 35:77% or less 35:78% - 36:80% 36:81% - 37:59% 37:50% - 38:47% 38:48% or more



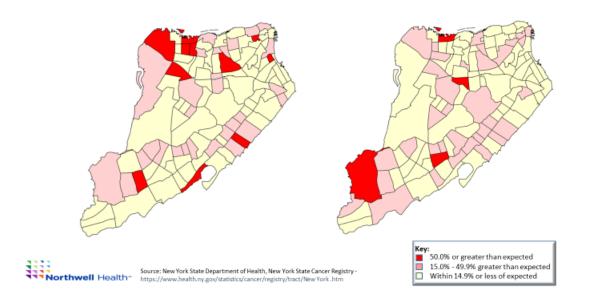
Source: PolicyMap 2018 v 2019:25:11; Census tract



Richmond age-adjusted all cancer incidence and mortality rates were above NYC and NYS levels. Age-adjusted colon and rectum cancer mortality rates were above NYC and NYS rates. The percentage of adults, ages 50-75 years who received colorectal cancer screening was 64% which is lower than NYS and NYS levels. Age-adjusted melanoma cancer mortality rate was above the NYC and NYS levels. Age-adjusted prostate cancer mortality and late stage incidence rates were below NYC rates, but mortality was above NYS and incidence was below NYS rates. Areas with the highest prostate cancer PQIs are identified on the following map. Age-adjusted female breast cancer incidence was above NYC and NYS levels and mortality rates were lower than NYS and NYC rates. The highest female breast cancer rates are located in the communities highlighted on the following map. Age-Adjusted cervix uteri incidence was lower than NYC and on par with NYS rates. The percentage of women aged 21-65 yrs. receiving cervical cancer screening based on 2012 guidelines was 86.4% above NYC and NYS. The percentage of women 50-74 yrs. Receiving breast cancer screening based on recent guidelines was 75% below NYC and NYS levels. The percentage of women in the same age group who had a mammogram between October 2014 and December 2016 was 75.7% below NYC and NYS levels. Age-adjusted lung and bronchus cancer mortality and incidence rates were above NYC and NYS levels. The highest PQIs are identified on the following map.

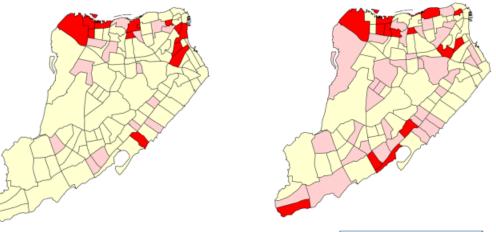


Richmond County Breast (Female) Cancer Incidence Observed vs. Expected Cases (2010- 2014)\* Richmond County Breast (Female) Cancer Incidence Observed vs. Expected Cases (2010- 2014)\*



#### Richmond County Prostate Cancer Incidence Observed vs. Expected Cases (2010- 2014)\*

Richmond County Colorectal Cancer Incidence Observed vs. Expected Cases (2010- 2014)\*





Source: New York State Department of Health, New York State Cancer Registry-https://www.health.ny.gov/statistics/cancer/registry/tract/New York .htm

Key:

50.0% or greater than expected

15.0% - 49.9% greater than expected

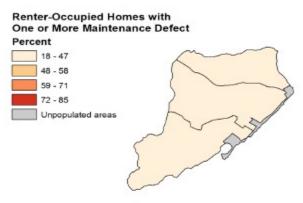
Within 14.9% or less of expected



Healthy Safe Environment

To assess preventable injury prevalence in Richmond County, the county prevalence is compared to New York State (NYS) and in relation to the 2018 NYS Prevention Agenda Objectives (NYSPAO). Fall-related hospitalizations for Staten Island residents aged 65+ years (per 10,000) were 236, above the NYS (183) and NYSPAO (204) rates. The highest rates were present in St. George, Stapleton, and Rosebank. Pediatric (0-4 yrs.) emergency department fall related visits significantly declined but are still above the NYS and NYSPAO levels.

There are also several environmental factors that contribute to safety and safe living conditions. The NYC Department of Health mapped the percentage of renter-occupied homes that have one or more maintenance defects. Maintenance defects included water leaks, cracks and holes, inadequate heating, presence of mice or rats, toilet breakdowns or peeling paint. As shown in the map below, of the residents surveyed in Staten Island, 18-47% of homes report one or more maintenance defects.



Source: NYC Housing and Vacancy Survey, 2011

Air quality also plays a prominent role in health status, especially when it comes to respiratory outcomes like childhood or adult asthma. According to NYC Neighborhood Health Atlas Community Health Profiles, the north and eastern sections of Richmond have increased levels of fine particulate matter in the air. Another environmental hazard is lead exposure which has health impacts. The following map identifies Richmond communities with lead exposure risk.

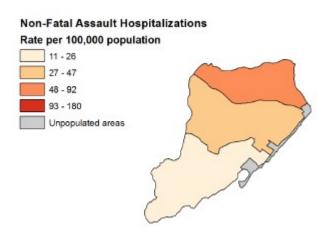
#### Richmond-rankings for lead exposure risk



Source: PolicyMap 2018 v 2019:25:11; Census tract



Finally, neighborhood safety also plays an important role in one's ability to achieve and maintain good health. The rate of non-fatal assault hospitalizations in a neighborhood speaks to its relative safety and whether or not residents may feel comfortable walking, biking, or otherwise exercising outside. Age-adjusted assault hospitalization rate was lower than NYC but above NYS rates. According to the New York City Neighborhood Health Atlas, West New Brighton-New Brighton St. George, Stapleton-Rosebank, Grymes Hill- Clifton-Fox Hills have relatively high rates of non-fatal assault hospitalizations.



Source: New York State Department of Health, Statewide Planning and Research Cooperative System, 2011-2013



Below is a table outlining NYS Department of Health Injury Data for Staten Island from 2014-2016, color-coded by whether or not the metric was significantly better than, significantly worse than, or comparable to the NYS average.

## NYS Department of Health Injury Data – Staten Island (2014 – 2016)

| 2016 Total                            | Richmond<br>County Rate   | NYS Rate  | Significant<br>Difference                            |  |  |  |  |  |  |  |
|---------------------------------------|---|---|--|--|--|--|--|--|--|--|
| Falls hospitalization rate per 10,000 |   |   |  |  |  |  |  |  |  |  |
| 2,381                                 | 50  | 38.2  | Yes  |  |  |  |  |  |  |  |
| 2,381                                 | 43.7  | 32.2  | Yes  |  |  |  |  |  |  |  |
| 131                                   | 23.4  | 7.4   | Yes  |  |  |  |  |  |  |  |
| 18                                    | 5.9   | 4.5   | No   |  |  |  |  |  |  |  |
| 33                                    | 5.5   | 4.8   | No   |  |  |  |  |  |  |  |
| 653                                   | 25.4  | 17  | Yes  |  |  |  |  |  |  |  |
| 430                                   | 99.2  |   | Yes  |  |  |  |  |  |  |  |
| 524                                   | 255.4   | 203.3   | Yes  |  |  |  |  |  |  |  |
|                                       | 638.1   | 534.4   | Yes  |  |  |  |  |  |  |  |
| ning hospitalizatio                   | n rate per 10,000   |   |  |  |  |  |  |  |  |  |
| 320                                   | 6.7   | 7.2   | No   |  |  |  |  |  |  |  |
| 320                                   | 6.5   | 6.9   | No   |  |  |  |  |  |  |  |
| rvehicle mortality                    | rate per 100,000  |   |  |  |  |  |  |  |  |  |
| 71                                    | 5   | 5.7   | No   |  |  |  |  |  |  |  |
| 71                                    | 4.7   | 5.3   | Yes  |  |  |  |  |  |  |  |
| tor vehicle mortal                    | ity rate per 100,00   | 0   |  |  |  |  |  |  |  |  |
| 429                                   | 30.1  | 27.3  | No   |  |  |  |  |  |  |  |
| 429                                   | 28.9  | 24.9  | Yes  |  |  |  |  |  |  |  |
| l hospitalization ra                  | te per 10,000   |   |  |  |  |  |  |  |  |  |
| 709                                   | 14.9  | 8.3   | Yes  |  |  |  |  |  |  |  |
| 709                                   | 14.1  | 7.6   | Yes  |  |  |  |  |  |  |  |
| d motor vehicle n                     | ortality rate per 1   | .00,000   |  |  |  |  |  |  |  |  |
| 302                                   | 21.2  | 29.9  | Yes  |  |  |  |  |  |  |  |
| icide mortality rat                   | e per 100,000   |   |  |  |  |  |  |  |  |  |
| 94                                    | 6.6   | 8.4   | Yes  |  |  |  |  |  |  |  |
| 94                                    | 6.1   | 8   | Yes  |  |  |  |  |  |  |  |
| 2                                     | 2.3*  | 5   | Nσ   |  |  |  |  |  |  |  |
|                                       | s hospitalization realization | County Rate s hospitalization rate per 10,000  2,381 48,7 131 23,4 18 5.9 33 5.5 33 5.5 34 35 48 480 50.2 324 35 48 480 50.2 324 35 48 300 6.7 320 6.7 320 6.5 r vehicle mortality rate per 100,000  71 5 71 4.7 tor vehicle mortality rate per 100,000  429 30.1 423 28,8 I hospitalization rate per 10,000  709 14,9 709 14,1 red motor vehicle mortality rate per 1 302 21.2 icide mortality rate per 100,000  94 6.6 94 6.6 | County Rate s hospitalization rate per 10,000  2,381 |  |  |  |  |  |  |  |



Key:
Significantly Better than NYS Average
No Significant Difference from NYS Average
Significantly Worse than NYS Average

Source: https://webbit.health.ny.gov/SASStoredProcess/guest?\_program=%2FEBI%2FPHiG%2Fapps%2Fchir\_dashboard%2Fchir\_dashboard%p=ct&cos=62



#### Healthy Women, Infants, and Children

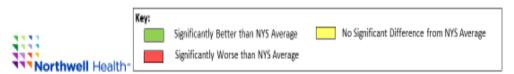
To assess the prevalence conditions related to the health of women, infants and children in Richmond County, the county prevalence is compared to New York State (NYS) and in relation to the 2018 NYS Prevention Agenda Objectives (NYSPAO). County maternal mortality rates increased and are still above NYS and the NYSPAO. The percentage of births delivered by cesarean section is above NYC and NYS levels. The percentage of very low and low birthweight births is on par with NYC and NYS levels. The premature birth ratio of Black non-Hispanics to White non-Hispanics worsened above NYS and NYSPAO levels and the same ratio for Hispanic to White non-Hispanics improved but was still above the NYSPOA. The percent of women receiving first trimester prenatal care including women enrolled in WIC was above or on par with NYC and NYS rates. The percentage of women receiving adequate prenatal care is above NYC and NYS rates. The percentage of women receiving late or no prenatal care is 2.6% for the county but Mariner's Harbor and Port Richmond had the higher rates of late or no prenatal care, severe maternal morbidity and preterm births. Premature birth ratio of Black non-Hispanics to White non-Hispanics rate worsened but the same ratio of Hispanic to White non-Hispanics improved. The percentage of WIC enrolled pregnant women who were prepregnancy overweight or obese significantly increased to 1 in 4 women. The percentage of WIC enrolled pregnant women with gestational weight gain greater than ideal significantly increased to 44% and the percentage of the same population with gestational diabetes increased. The WIC enrolled pregnant women with hypertension during pregnancy declined. Richmond percentage of infants exclusively fed breastmilk in the hospital was 32% below the NYC and NYS levels. However, the ratios of hospital exclusively breastfed infants of Black non-Hispanics to White non-Hispanics and Medicaid births to non-Medicaid births improved the Hispanics to White non-Hispanics ratio worsened. The percent of obese children (ages 2-4 years) enrolled in WIC was above the NYC and NYS levels but their TV viewing time significantly declined.



Following is a table outlining NYS Department of Health Birth-related data for Staten Island from 2014- 2016, color-coded by whether or not the metric was significantly better than, significantly worse than, or comparable to the NYS average.

### NYS Department of Health Birth-related Statistics – Staten Island (2014 – 2016)

| CHIRS Indicators  | 3-Year Total<br>2014-2016 | Richmond<br>County Rate | NYS Rate | Significant<br>Difference |
|---|---------------------------|-------------------------|----------|---------------------------|
| Percentage of Bir   | ths                       |                         |          |                           |
| % births to women aged 25 years and older without a high school education | 1,298                     | 9.6                     | 12.8     | Yes                       |
| % births to out-of-wedlock mothers  | 5,476                     | 34.2                    | 39.3     | Yes                       |
|   |                           | 4.1                     | 3.7      |                           |
| Miearly (1st trimester) prenatal care                                     |                           |                         | 75.2     |                           |
| % births with late (3rd trimester) or no prenatal care                    | 423                       | 2.6                     | 5.6      | Yes                       |
| % births with adequate prenatal care                                      | 12,143                    | 76.4                    | 74       | Yes                       |
| WIC Indicators  | 1                         |                         |          |                           |
| % pregnant women in WIC with early (1st trimester) prenatal care          | 5,442                     | 85.8                    | 86.5     | No                        |
|   | 2,716                     | 44.1                    | 41.7     |                           |
| % pregnant women in WIC with gestational diabetes                         | 315                       | 5                       | 5.5      | No                        |
| % pregnant women in WIC with hypertension during pregnancy                | 373                       | 5.9                     | 7.1      | Yes                       |
|   |                           |                         |          |                           |
| % infants fed any breast milk in delivery hospital                        |                           |                         |          |                           |
|   | 4,337                     | 31.2                    | 45.2     |                           |
|   |                           | 37.2                    |          |                           |
| Mortality Rate Per 1,000  | Live Births               |                         |          |                           |
| Infant (<1 year)  | 57                        | 3.6                     | 4.5      | No                        |
| Neonatal (<28 days)   | 36                        | 2.2                     | 3.1      | No                        |
| Post-neonatal (1 month to 1 year)   | 21                        | 1.3                     | 1.5      | No                        |
| Maternal mortality rate per 100,000 live births                           | 4                         | 24.9*                   | 20.4     | No                        |
| Low Birth Rate India  | ators                     |                         |          |                           |
| % very low birthweight (<1.5 kg) births                                   | 191                       | 1.2                     | 1.4      | Yes                       |
| % very low birthweight (<1.5kg) singleton births                          | 134                       | 0.9                     | 1        | Yes                       |

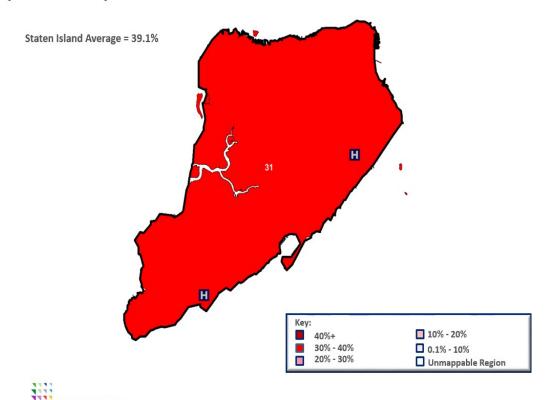




Many chronic conditions have their roots in pediatric obesity. Diabetes, cardiovascular disease, cancer, orthopedic conditions, pulmonary disease and gastrointestinal disease are comorbidities of obesity. Currently, Type 2 Diabetes is the most common form of diabetes diagnosed in adolescents. The NYSDOH has required school districts to measure and report body mass index, a measure of obesity using a person's height and weight, in order to identify overweight and obesity in the school aged children and adolescents. The following maps identify the prevalence of overweight and obesity in geographic areas based on school districts. The school districts with over 40% of children and adolescents classified as overweight or obese are:

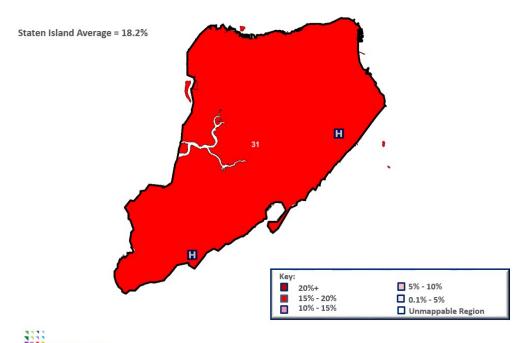
Richmond County School Districts with 30% of Students Classified as Overweight or Obese: 31

## School District Overweight/Obese Percentages (K – 8th Grade) (2012 - 2013)



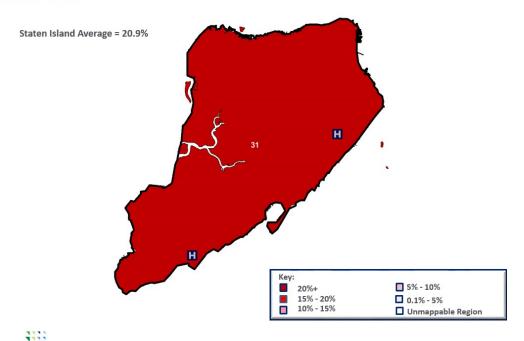
## Northwell Health\*\*

## School District Overweight Percentages (K – 8th Grade) (2012 - 2013)

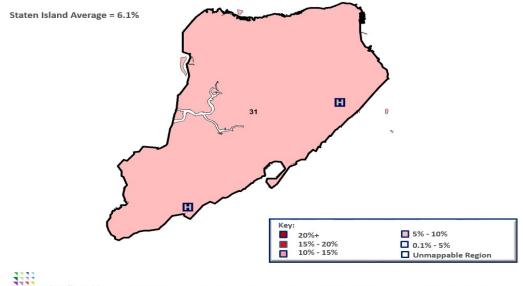


Northwell Health\* Source: NYC public school body mass index (BMI) data, collected through the NYC FITNESSGRAM body composition assessments for Administrative School Districts 1-32, Grades K-8; Excludes Charter, Special Ed and Continuing Ed Schools

## School District Obese Percentages (K – 8th Grade) (2012 - 2013)



## School District Severely Obese Percentages (K – 8th Grade) (2012 - 2013)



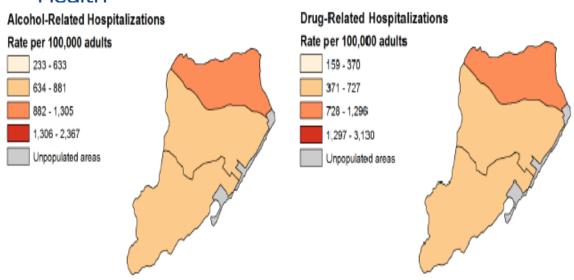
Northwell Health Source: NYC public school body mass index (BMI) data, collected through the NYC FITNESSGRAM body composition assessments for Administrative School Districts 1-32, Grades K-8; Excludes Charter, Special Ed and Continuing Ed Schools

#### Mental Health and Substance Abuse

To assess the prevalence of mental health disorders and substance abuse in Richmond County, the county prevalence is compared to New York State (NYS) and in relation to the 2018 NYS Prevention Agenda Objectives (NYSPAO). Although the suicide rate (per 100,000) for Richmond County was 6.1, lower than the NYS rate (8), it was on par with the NYSPAO of 5.9. The ageadjusted percent of Staten Island adults reporting 14 or more days with poor mental health in the last month was 10.7% on par with NYC, NYS and NYSPAO. PQI data for mental health emergency department visits showed increased rates in West New Brighton and Rosebank. Richmond County's rate of binge drinking is 18.7%, on par with NYS (19%) and NYSPAO. The crude rate of overdose deaths involving any opioid and overdose deaths from synthetic opioids other than methadone significantly increased above NYC and NYS rates. Rates for opioid burden and hospital discharges and emergency department visits involving opioid abuse, dependence and unspecified use were all above the NYC and NYS rates and in some cases double the NYC rates. PQI data for substance abuse emergency department visits showed increased rates in West New Brighton and St. George. New York opioid and heroin death rates were higher than any other state and rose by 2000% from heroin which prompted a NYS Opioid Prescription Monitoring Program\*. The number of provider opioid analgesics prescriptions significantly decreased. Age-adjusted prescribing buprenorphine for substance use disorders and Benzodiazepine prescription rates significantly improved as well.

<sup>\*</sup> Prescription Opioid Abuse and Heroin Addiction in New York State. Report from Office of NYS Comptroller. (June 2016) https://www.osc.state.ny.us/press/releases/june16/heroin\_and\_opioids.pdf





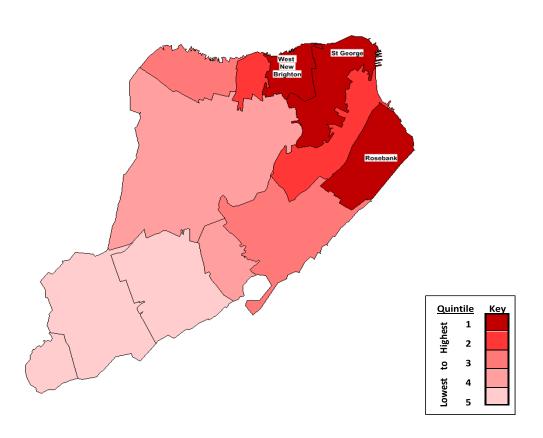
Source: New York State Department of Health, Statewide Planning and Research Cooperative System, 2011-2013

This data was also supported by the analysis of serious mental illness in Richmond. The calculation of serious mental illness rates first required establishing a definition of all behavioral health diagnoses that qualify as a Serious Mental Illness (SMI). After review of scholarly and regulatory research, it was determined that the definition most relevant and applicable was New York State's Office of Mental Health's (OMH) DSM4-R/ICD-9 diagnoses codes for Serious Mental Illness, a criteria used to determine eligibility for Health Home services for Medicaid recipients. CMS General Equivalency Mappings (GEMs) were applied to crosswalk all ICD-9 diagnoses codes to find their ICD-10 equivalents. The updated definition was then applied to NYS DOH Statewide Planning and Research Cooperative Systems, (SPARCS) claims based data source. The definition was used to analyze all inpatient admissions within Northwell Health's service area counties, with a principle diagnoses code defined as an SMI for the full years of 2014-2015. The data was stratified by patient origin (county and zip code), gender and agegroup. Adjusted rates were calculated after stratifying both inpatient volumes and US census based population estimates (sourced from Truven Health Analytics) by patient origin (county and zip), gender, and age-group. An average county-level rate was calculated and used as a benchmark comparison when analyzing at the zip-code level. The adjusted rates per zip-code, per county, were then ranked into quintiles, and visualized using MapInfo, a geo-spatial software program. While the analysis is indicative of a density of patients and cases, and can add value in future planning and community health initiatives, it is not without its limitations. The primary limitation of the analysis is that it is far from comprehensive, restricted to just claims-based data looking at inpatient admissions based on a principle diagnoses of SMI. However, its value is in its ability to provide a relational understanding in terms of neighborhoods and communities with the highest rates of SMI.



The county rate of Serious Mental Illness (SMI) in Richmond was 512.5 per 100,000 population. The highest rates of SMI were found in the St. George, Stapleton and Rosebank communities. Zip code 10301, St. George, had the highest rate in all of Staten Island, with a total of 907.8 per 100,000 population.

#### Richmond County Serious Mental Illness (SMI) Rates



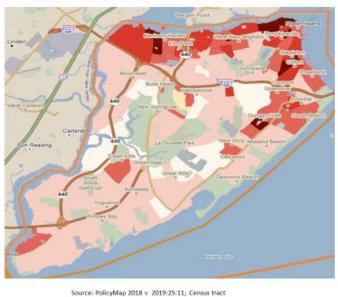


## Richmond-estimated percent of adults reporting seven or more days of poor mental health

Pct. of Adults Reporting Seven or More Days of Poor Mental Health in the Past 30

Shaded by: Census Tract, 2010
Insufficient Data
17.10% or less
17.11% - 18.88%
18.89% - 20.69%
20.70% - 23.28%
23.29% or more

Days Year: 2013

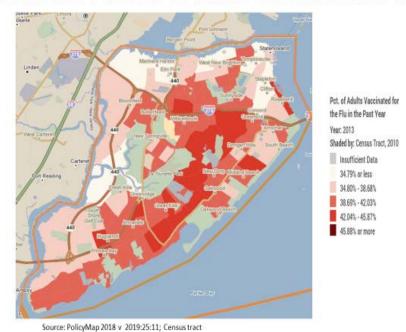




HIV, STDs, Vaccine-Preventable Diseases & Health Care-Associated Infections

To assess the prevalence of HIV, STDs. Vaccine-Preventable Diseases & Health Care-Associated Infections in Richmond, the county prevalence is compared to New York State (NYS) and in relation to the 2018 NYS Prevention Agenda Objectives (NYSPAO). The age-adjusted Richmond County's newly diagnosed HIV case rate (per 100,000) and the difference in rates (Hispanic and White) are below NYS and the NYSPAO; however the difference in rates (Black and White) significantly worsened and is above the NYS but below the NYSPAO. The Richmond neighborhoods with increased case rates were Port Richmond and West New Brighton-New Brighton-St. George. The Richmond County men's ages 15-44 years Gonorrhea case rate (per 100,000) significantly increased to 215, below the NYS rate (452) and above the NYSPAO rate (199). The women's ages 15-44 years Chlamydia case rate is below the NYS and NYSPAO rates. The men's primary and secondary syphilis case rate is half of the NYS rate and on par with the NYSPAO rate. The women's primary and secondary syphilis case improved and is below the NYS and NYSPAO rates. The Mumps incidence was less than NYC and NYS. The tuberculosis case rate (per 100,000) for Richmond County significantly improved to 2.3, below the NYC and the NYSPAO rates. The percentage of adults 65 + years of age with flu immunization is 53% below NYS and the NYSPAO (70%) levels.

#### Richmond-Percent of adults vaccinated for flu

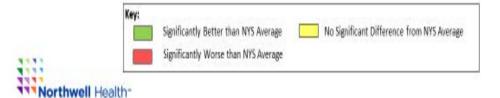




Below is a table outlining 2014-2016 HIV/AIDS and STD Rates for Staten Island, compared to NYS averages. The indicators are color-coded by whether Staten Island is significantly better than, significantly worse than, or comparable to state averages.

## NYS Department of Health AIDS & STD Rates – Staten Island (2014-2016)

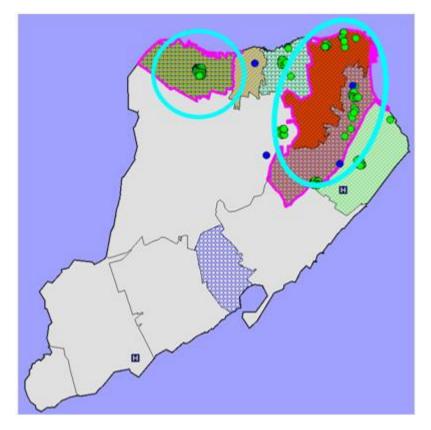
| Indicator  | 3 Year Total<br>2014-2016 | Richmond<br>County Rate | New York State<br>Rate | Significant<br>Difference |
|--|---------------------------|-------------------------|------------------------|---------------------------|
| HIV Case Rates   | Per 100,000               |                         |                        |                           |
| Crude  | 154                       | 10.8                    | 16                     | Yes                       |
| Age-aged   | 154                       | 11.1                    | 16                     | Yes                       |
| AIDS Case Rate   | s Per 100,000             |                         |                        |                           |
| Crude  | 80                        | 5.6                     | 7.8                    | Yes                       |
| Age-aged   | 80                        | 5.3                     | 7.7                    | Yes                       |
| AIDS Mortality Ra  | tes Per 100,000           |                         |                        |                           |
| Crude  | 52                        | 3.7                     | 3                      | No                        |
| Age-aged   | 52                        | 3.1                     | 2.6                    | Yes                       |
| Early Syphilis Case I  | Rates Per 100,00          | 0                       |                        |                           |
| Early syphilis case rate per 100,000   | 126                       | 8.8                     | 25.1                   | Yes                       |
| Gonorrhea Case Ri  | ates Per 100,000          | 10000                   |                        |                           |
| Males - Aged 15-44 years   | 485                       | 176                     | 377.5                  | Yes                       |
| Females - Aged 15-44 years   | 314                       | 113.1                   | 191                    | Yes                       |
| Aged 15-19 years   | 139                       | 156.9                   | 305.8                  | Yes                       |
| Chlamydia Case Ra  | ites Per 100,000          |                         |                        |                           |
| Males - Aged 15-44 years   | 1,282                     | 465.3                   | 875.7                  | Yes                       |
| Females - Aged 15-44 years   | 3,045                     | 1,096.60                | 1,577.40               | Yes                       |
| % sexually active young women (aged 16-24) with at least one   | 2,363                     | 74.2                    | 74.3                   | No                        |
| chlamydia test in Medicaid program (2016 only)   |                           |                         |                        |                           |
| Pelvic Inflammatory Disease Ho   | spitalization Ra          | tes Per 10,000          |                        |                           |
| Pelvic inflammatory disease (PID) hospitalization rate per 10,000 females - Aged 15-44 years (2016 only) | 29                        | 3.2                     | 2.5                    | No                        |

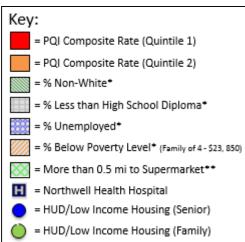




#### **Richmond County Summary of Findings**

Finally, PQI and social determinant data were overlaid to identify areas of greatest need in Richmond County. Areas of Richmond County that fall into Quintiles 4 & 5 of the PQI Composite Rate were mapped. Then we began to overlay characteristics that provide some indication of health outcomes such as percent Non-White, percent Less than High School Diploma, percent Unemployed, and percent Below Poverty Level. In addition, areas where less than 70% were located within 0.5 mi to a supermarket, which classifies an urban area as food insecure were highlighted. Ultimately, there was substantial overlap between social determinants of health, a lack of easy access to food, and poor health outcomes. This overlap was most apparent in Mariner's Harbor, St. George, and Stapleton (these areas are circled on the map below).





Sources: PQIs - SPARCSver11.01.2012adj/tb; Truven population used for adjustment; P.O. Boxes are excluded; Low Income Housing Developments – HUD New York State Housing Website

http://portal.hud.gov/hudportal/HUD?src=/states/new\_York; Website of individual Richmond
County Local Housing Authorities; Social
Determinant Indicators - 2014 United States
Census American Community Survey https://www.census.gov/programs-surveys/;
Access to food - http://www.ers.usda.gov/data-products/food-access-research-atlas/go-to-the-atlas.aspx



In both our primary and secondary data analyses, major trends emerged regarding mental health and substance abuse, chronic disease, health literacy, health behaviors and community infrastructure associated with nutrition and physical activity, as well as access to healthcare. In our primary data analysis, community-based organizations expressed concerns about mental health and substance abuse and chronic diseases identifying that access to healthcare services is affected by insurance, cost, health literacy, transportation and fear or stigma. These conditions were also identified as needs through the secondary data analysis especially in areas with increased disease and social determinant of health prevalence. The community stakeholders identified social determinants of health such as poor neighborhood infrastructure, lack of safe affordable housing, transportation, health literacy, food insecurity, environmental hazards, racism/discrimination, deprioritzation of health, early childhood influencers such as trauma and lack of community engagement that are impacting community health. The stakeholders advocated for creating more healthcare community based organization partnerships to engage community members, improving cultural competency of health service providers, youth health education, senior support services and better public transportation and medical transportation options. We saw the impacts of social determinants of health in our secondary data analysis as well. Finally, much of the conversation in our primary data analyses was centered on health disparities.

Therefore, as a result of the 2019 primary and secondary data analysis the following health priorities, which are also impacted by identified social determinants of health such as poverty, unemployment, lack of housing, education and healthy food access which are present in Richmond County, emerged as pressing community health issues in the Northwell Health Richmond County Service area:

- Mental health and substance abuse
- Chronic disease, especially in at risk and diverse communities
- Health Literacy including fear and stigma
- Limited transportation
- Access to healthcare including costs of insurance and health care
- Poor neighborhood infrastructure related to housing, recreation and safety
- Food insecurity
- Economic instability and lack of affordable housing
- Environmental hazards
- Need for early childhood health and youth education
- Lack of community engagement
- Need for stronger healthcare and community-based organization partnerships.



# **APPENDIX**

Greater New York Hospital Association Health Committee Members and Meeting Dates

Northwell Health Community-Based Summits Report



# **Greater New York Hospital Association Community Health Needs Assessment Planning Committee**

Bronx-Lebanon Hospital Center Health Care System\*
Flushing Hospital Medical Center
Hospital for Special Surgery
Jamaica Hospital Medical Center
Memorial Hospital for Cancer and Allied Diseases
Montefiore Health System\*
The Mount Sinai Health System\*
New York Hospital Queens
NYC Health + Hospitals
New York-Presbyterian Hospital\*
NYU Langone Medical Center\*
Northwell Health\*
Richmond University Medical Center
St. John's Episcopal Hospital
The Rockefeller University Hospital

### **Meeting Dates**

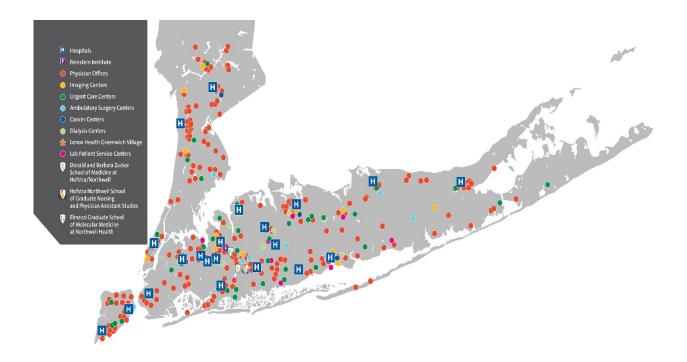
January 11, 2019

March 13, 2019

May 29, 2019

<sup>\*</sup>Health systems that represent multiple hospital facilities in NYC

# Northwell Health 2019 New York, Queens, and Richmond Counties Community Based Organization Community Health Summits





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**Acknowledgement:** Northwell Health would like to acknowledge Devin Oliva for her efforts in the data analysis and preparation of this report.



# **Executive Summary**

**Background-** Health disparities negatively impact the health of individuals and communities. Disparities are the preventable differences that are the product of unequal distribution of resources. Health disparities arise from life circumstances such as economic standing, access to education, transportation options, and literacy levels. These circumstances are better known as social determinants of health. Understanding the unique social determinants of health in each community is imperative to improving the overall health of that community. To better understand what the community views as priority, Northwell Health conducted a Community Health Needs Assessments (CHNA). CHNAs identify unmet health needs and work to address these issues. The purpose of these summits was to elicit feedback from the local community, government and health and social service providers related to their perspectives on the health and social needs of their clients with the goal of advancing the New York State Department of Health's 2019-2024 Prevention Agenda (NYSPA) to:

- 1. Improve the health of New Yorkers in five priority areas; and
- 2. Reduce health disparities for racial, ethnic, disability and low socioeconomic groups, as well as other populations who experience them.

**Methods-** Over 57 cross sector Community Based Organizations (CBO) that provide services in Richmond, Queens, and New York counties participated in county community health summits facilitated by trained Northwell Health staff. Participants were separated into small groups which had representation from cross sectors such as behavioral health, food insecurity, transportation, legal, housing, chronic disease, healthcare and entitlement program access. The Delphi Method was used to promote a focused discussion and elicit feedback. Written responses were used to compile top New York State Prevention Agenda priority areas, barriers to healthcare, and social determinants of health data tables. Audio recordings were used to supplement the written data.

**Results-** The three counties shared common answers across questions but also showcased the unique needs of each geographic location. The most common NYS Agenda priority focus area across the three counties was the prevention of mental and substance use disorders. Common barriers to healthcare were lack of health literacy skills, high cost of insurance and medical care, and the stigma associated with certain health conditions. An effective strategy to combating barriers was the encouragement of community engagement and CBO-Health Provider partnerships. Social determinants of health addressing the areas of economics, education, environment, and social factors covered a wide variety of issues. Top answers included lack of affordable housing, food insecurity, health literacy levels, and environmental hazards.

**Conclusion-** The Northwell CHNA process engages the community to gain a better understanding the needs of a population from community-based organizations who are direct providers of services to vulnerable community members. This process has identified the top areas of focus including social determinants of health by county. The results are intended to be used to develop and enhance programs and services designed for and by the community to improve population health.



#### **Methods**

This study used small group discussions as the primary method of data collection. Small groups encourage the exchanging of ideas and experiences among participants. This method is useful to examine what people think of a topic, how they think, and why they think the way they do (Kitzinger, 1995). To elicit feedback from the community on health issues and social determinants of health, community-based organizations serving these communities were invited to provide input. Northwell Health, New York's largest health system, conducted half day summits at Commonpoint Queens' Central Queens Forest Hills in Queens County on June 21, 2019, United Jewish Appeal (UJA) Federation of New York in New York County on June 27, 2019, and Staten Island University Hospital in Richmond County on April 29, 2019. The summits were comprised of members from various Community Based Organizations (CBO) across the three counties. The main goal of these summits was gaining community feedback on the New York State Department of Health Prevention Agenda and social determinants of health impacting the community.

### Recruitment

For Richmond County, the Community Outreach staff of Staten Island University Hospital (SIUH) sent an email from the SIUH Executive Director inviting local organizations in Richmond County to participate in the focus groups. The email explained the purpose of the summit, time, place, and how to register through Eventbrite. Through the Eventbrite registration link, participants filled out their name, contact information, and the organization they represented. Participants were also asked to identify the top two areas their organization focused on. The service areas they could choose from were behavioral health, food insecurity, transportation, legal, housing, chronic disease, healthcare and entitlement program access, and other, which was free text write in response. SIUH staff received weekly and biweekly updates on registration statistics. They reached out to organizations through email and phone to encourage registration.

Queens and New York Counties also utilized Eventbrite registration. Northwell Health partnered with the Human Services Council of NY, Human Services Council, a network of New York City human service organizations representing over 200,000 staff providing services such as housing, childcare, elder care, food pantries, and mental health counseling to vulnerable New York City community members to aid in recruitment of their members. Forest Hills Hospital and Lenox Hill Hospital Community Outreach contacted local organizations. The Human Services Council sent emails from their Executive Director to member organizations serving Queens and New York Counties with information about registration.

After registration, email confirmation and any updates were sent through Eventbrite. This included an email 24 hours prior as a reminder. The participants were divided into groups based on the total number of participants. To create multi-service groups, groups were comprised of participants from various organizations that had different service areas.

### **Participants**

Upon arrival, participants were checked in at a registration desk. They were given instructions as to the group number they were assigned and where to go. Richmond County had



the largest number of groups with five. Queens County and New York County had two groups each. Each group in Richmond consisted of 11 to 12 people for a grand total of 57. The Queens groups had 16 and 17 people for a grand total of 33. The New York groups had 21 people each for a grand total of 42. Participants were verbally informed that the session was being recorded and assured that participation was voluntary. "Ground rules" were also discussed and participants were asked to avoid using names and specific details to maintain confidentiality. A list of organizations represented is available in Appendix A and a copy of the script used by interviewers is available in Appendix B.

### **Procedure**

The Delphi Method was employed in the small groups to collect data. The classical Delphi Method is broken down into two phases, exploration and evaluation. During the exploration phase, participants are first posed with a question or problem to answer or comment on via questionnaire. This provides participants with the opportunity to explore the problem or topic. During the evaluation phase, responses are summarized and then used to construct the second question. This gives participants the chance to assess and re-evaluate their responses based on group feedback (Adler & Ziglio, 1996). The Delphi Method provides anonymity and allows expression of opinions while also permitting refinement of views. This method is viewed as a flexible research technique that can be adapted in numerous ways. (Skulmoski, Hartman, & Krahn, 2007). Due to the Delphi Method's flexibility, it was utilized for the summits. Each participant was provided a copy of the NYS Prevention Agenda, sticky notes and markers. The Delphi Method was adapted and utilized for the first two questions as follows.

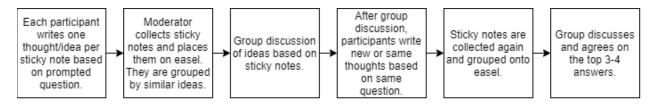


Figure 1: Delphi Method

To reduce the time burden on the participants and efficiently facilitate discussion and feedback for the next five questions, the participants were read the question aloud and instructed to write their response(s) on sticky notes. The sticky notes were collected, grouped by common themes, posted on the easel by the moderator and discussed as a group.

#### **Data analysis**

After data collection, the sticky notes were analyzed by group by question and responses were recorded. Each idea or thought went towards a grouping. If one sticky note had multiple responses listed, it was counted toward one or more groupings. The responses were then organized and compared to the NYS Prevention Agenda's priority and focus areas. The responses from the first focus group question, "What do you think are the biggest health concerns in your community?", were categorized into the priority and focus areas. Tables by county were created to summarize data.



# Results

With the NYS Prevention Agenda as a framework, the top priority areas of each county become evident. Tables 4-6 categorize participant responses based on NYS Agenda priority and focus areas. The following data is in response to the question, "What do you think are the biggest health concerns in your community?".



|          | Table 4: Richmond C   | County by NYS Prevenue n= 5 | ntion Agenda Priority and Focus Areas<br>7                       |                     |
|----------|---|-----------------------------|--|---------------------|
| County   | Priority Area   | Priority Area Total         | Focus Area   | Focus Area<br>Total |
|          | Promote Well- Being and Prevent<br>Mental and Substance Use Disorders |                             |  |                     |
|          |   | 72                          | Prevent Mental and Substance Use Disorders                       | 50                  |
|          |   |                             | Promote Well Being   | 22                  |
|          | Prevent Chronic Diseases  | 25                          | Preventive Care and Management                                   | 12                  |
|          |   |                             | Healthy Eating and Food Security                                 | 9                   |
|          |   |                             | Tobacco Prevention   | 3                   |
|          |   |                             | Physical Activity  | 1                   |
|          |   |                             |  |                     |
|          | Promote a Healthy and   |                             |  |                     |
| pu       | Safe Environment  | 21                          | Injuries, Violence and Occupational Health                       | 9                   |
| Richmond |   |                             | Built and Indoor Environments                                    | 6                   |
| Cich     |   |                             | Outdoor Air Quality  | 5                   |
| 1 12     |   |                             | Food and Consumer Products                                       | 1                   |
|          |   |                             |  |                     |
|          | Promote Healthy Women,  |                             |  |                     |
|          | Infants and Children  | 9                           | Child & Adolescent Health Cross Cutting Health Women, Infants, & | 4                   |
|          |   |                             | Children   | 3                   |
|          |   |                             | Maternal & Women's Health  | 1                   |
|          |   |                             | Perinatal & Infant Health  | 1                   |
|          |   |                             |  |                     |
|          | Prevent Communicable Diseases   | 5                           | Sexually Transmitted Infections (STIs)                           | 2                   |
|          |   |                             | Vaccine-Preventable Diseases                                     | 2                   |
|          |   |                             | Human Immunodeficiency Virus (HIV)                               | 1                   |

Notes: Priority and focus areas are from NYS Department of Health Prevention Agenda 2019-2024. Responses are from the first question groups were asked, "What do you think are the biggest health concerns in your community?".



|        | Table 5: Queens Co  | ounty by NYS Preven<br>n= 3 | tion Agenda Priority and Focus Areas                                      |                     |
|--------|---|-----------------------------|---|---------------------|
| County | Priority Area   | Priority Area Total         | Focus Area  | Focus Area<br>Total |
|        | Promote Well- Being and Prevent<br>Mental and Substance Use Disorders |                             |   |                     |
|        |   | 39                          | Promote Well Being  | 23                  |
|        |   |                             | Prevent Mental and Substance Use Disorders                                | 16                  |
|        | Prevent Chronic Diseases  | 35                          | Preventive Care and Management  | 20                  |
|        |   |                             | Healthy Eating and Food Security  | 10                  |
|        |   |                             | Physical Activity   | 3                   |
| sus    |   |                             | Tobacco Prevention  | 2                   |
| Queens | Promote a Healthy and Safe Environment                                | 8                           | Built and Indoor Environments   | 5                   |
|        |   |                             | Injuries, Violence and Occupational Health                                | 3                   |
|        | Promote Healthy Women,<br>Infants and Children                        | 4                           | Child & Adolescent Health Cross Cutting Health Women, Infants, & Children | 3                   |
|        | Prevent Communicable Diseases   | 1                           | Vaccine-Preventable Diseases  | 1                   |

Prevent Communicable Diseases 1

Notes: Priority and focus areas are from NYS Department of Health Prevention Agenda 2019-2024. Responses are from the first question groups were asked, "What do you think are the biggest health concerns in your community?".



|          | Table 6: New York County by NYS Prevention Agenda Priority and Focus Areas n= 42 |                            |   |                  |  |
|----------|--|----------------------------|---|------------------|--|
| County   | Priority Area  | <b>Priority Area Total</b> | Focus Area  | Focus Area Total |  |
|          | Promote Well- Being and Prevent<br>Mental and Substance Use                      |                            |   |                  |  |
|          | Disorders  | 40                         | Prevent Mental and Substance Use Disorders                    | 19               |  |
|          |  |                            | Promote Well Being  | 21               |  |
|          | Prevent Chronic Diseases   | 27                         | Healthy Eating and Food Security                              | 10               |  |
|          |  |                            | Preventive Care and Management                                | 10               |  |
|          |  |                            | Physical Activity   | 5                |  |
|          |  |                            | Tobacco Prevention  | 2                |  |
| 74       |  |                            |   |                  |  |
| New York | Promote a Healthy and<br>Safe Environment  | 16                         | Injuries, Violence and Occupational Health                    | 11               |  |
| Š        |  |                            | Built and Indoor Environments                                 | 5                |  |
|          |  |                            |   |                  |  |
|          | Promote Healthy Women,<br>Infants and Children                                   | 10                         | Child & Adolescent Health                                     | 6                |  |
|          |  |                            | Cross Cutting Health Women, Infants, & Children               | 2                |  |
|          |  |                            | Maternal & Women's Health                                     | 2                |  |
|          |  |                            | * 10 * * * * * *  |                  |  |
|          | Prevent Communicable Diseases  | 4                          | Sexually Transmitted Infections (STIs)                        | 3                |  |
|          |  |                            | Antibiotic Resistance and<br>Healthcare-Associated Infections | 1                |  |

Notes: Priority and focus areas are from NYS Department of Health Prevention Agenda 2019-2024. Responses are from the first question groups were asked, "What do you think are the biggest health concerns in your community?".

Table 7 is derived from the question, "What do you think prevents people from getting treatment in your community?". Table 8 uses participant quotes to highlight the top barriers to accessing treatment.



| Table 7: Top Barriers to Healthcare in the<br>Community by County |                        |       |  |
|---|------------------------|-------|--|
| County  | Top Barrier Answers    | Total |  |
| pı  | Health Literacy        | 18    |  |
| Richmond  | Insurance/Cost         | 16    |  |
| ichr  | Stigma/Fear            | 16    |  |
| R   | Lack of Transportation | 11    |  |
| Notes: $n=57$   |                        |       |  |

Notes: n = 57

Respondents could write the same answer twice. Total represents the frequency of the answer across all groups within that county.

| County | Top Barrier Answers | Total |
|--------|---------------------|-------|
|        | Insurance/Cost      | 19    |
| neens  | Health Literacy     | 11    |
| Que    | Lack of Trust       | 6     |
|        | Stigma/Fear         | 5     |

Notes: n=33

Respondents could write the same answer twice. Total represents the frequency of the answer across all groups within that county.

| County | County Top Barrier Answers |    |
|--------|----------------------------|----|
| rk     | Health Literacy            | 19 |
| York   | Insurance/Cost             | 10 |
| New    | Lack of Transportation     | 10 |
| Ž      | Lack of Healthcare Funding | 9  |

Notes: n=42

Respondents could write the same answer twice.

Total represents the frequency of the answer across all groups within that county.



|                        | Health                        |   |
|------------------------|-------------------------------|---|
|                        | Т                             | able 8: Participant Quotes on Healthcare Barriers   |
| Topic                  | Theme                         | Quote   |
| Barriers to healthcare | Stigma/Fear                   | "I have a client her language wasn't as great in English and she was diagnosed with uh postpartum depression um and ACS (Administration for Children's Services) was called in this instance, right. But she did not have postpartum depression. It was a lack of communication there. Why was ACS called on this particular client who is an immigrant and maybe not someone else who was diagnosed with postpartum depression. Right? But it's also the stigma of being diagnosed with something and being looked at different because of who you represent and what community you represent." - Group 5, Female.   |
|                        | Health Literacy               |   |
|                        |                               | "Because the healthcare is so complex, they don't understand for your particular health plan, whatever level of health plan you are paying or not paying But the complexity of the system prevents people from understanding how to get there with declining resources, whatever they have." - Group 7, Female.   |
|                        | Lack of Transportation        | " we see a large number of dialysis patients and one of the um key reasons why they end up in the emergency room is because of missed dialysis appointments and its because they're going three times a week back and forth and if there are issues getting transportation, getting affordable transportation, um they end up just not going to treatment and then we constantly see them in the emergency room and they have to be admitted"- Group 9, Female.   |
|                        | Lack of Trust                 |   |
|                        |                               | "Um we won't know about any of the other issues that these patients are having unless they can trust us enough to divulge this information so that we can help them um if patients are coming to you and not speaking about you know the domestic violence, the uh lack of food, the fact that you know maybe their children were taken away, the not having the the um right support system or going through a depression and they don't feel trust enough in their provider to to say all these things that are sort of causing their barriers to health. The idea is I'm just coming to my provider say give me a pill for my diabetes and let me get out of here because I gotta go home and take care of this other stuff. Um but if I'm trusting in my provider to say I'm opening up and saying I can't take care of my diabetes because I don't have enough money to buy food. I think it is all about trust, particularly with the underserved community that we service. A lot of them are ya know individuals who don't speak their language, have a different culture who are maybe undocumented." - Group 6, Female. |
|                        | Insurance/Cost                | "What are you going to do to make sure I don't go into debt because I have this health issue and that is a huge concern because like no one wants to go to the doctor until the last minute because its like I don't know if I'll be able to pay for that. Like why is that even a thought you know? It's it's a really dangerous, I guess mind set, that a lot of us have um here in the U.S. because we just don't believe we can afford our care."- Group 6, Male.   |
|                        | Insurance/Cost                | "People tend to have insurance um but with co-payments and deductibles and all these things, they can't afford to go to the doctor. Because yes, maybe the visit will be free but medication, they would have to pay a co-payment, they may not be able to afford it "- Group 4, Female.  |
|                        | Lack of Healthcare<br>Funding | "To the fundamental flaws in the way systems and funding are designed. Um you know you start with where the funding goes to and you know who provides what service and I think this really gets back to what people are talking about. If you started, if you started from scratch and took people and said what is it that you need and designed around that, we would have a very opposite situation." - Group 8, Female.   |



After barriers were discussed, the question, "What kind of strategies or education or services do you think would help address the top barriers?" was asked. Table 9 highlights the top responses by county.

| Table 9: Most Effective Strategies to Address Healthcare<br>Barriers by County                 |   |       |  |
|--|---|-------|--|
| County   | Top Strategy Answers                        | Total |  |
|  | Community Partnerships/Engagement           | 12    |  |
| puc  | Culturally Competent Professionals/Services | 9     |  |
| Richmond   | Early Education                             | 3     |  |
| Ric  | Access to Transportation                    | 2     |  |
|  | Senior Support                              | 2     |  |
| Notes: n=57 Total represents the frequency of the answer across all groups within that county. |   |       |  |

| County       | Top Strategy Answers To                     |   |  |
|--------------|---|---|--|
|              | Integrated Healthcare                       | 7 |  |
| su           | Community Partnerships/Engagement           | 6 |  |
| Queens       | Culturally Competent Professionals/Services | 4 |  |
| $\circ$      | Access to Education                         | 3 |  |
|              | Increasing Health Literacy                  | 3 |  |
| Notes: n= 33 |   |   |  |

Total represents the frequency of the answer across all groups within that county.

| County     | Top Strategy Answers              | Total |  |  |
|------------|-----------------------------------|-------|--|--|
|            | Integrated Healthcare             | 9     |  |  |
| ork        | Affordable Insurance Coverage     | 7     |  |  |
| New York   | Community Partnerships/Engagement | 7     |  |  |
| Nev        | Increased Healthcare Funding      | 7     |  |  |
|            | Health Education Programs         | 6     |  |  |
| Notes: n=/ | Notae: n=42                       |       |  |  |

Total represents the frequency of the answer across all groups within that county.



Table 10 combines two questions, "How does economic instability impact the health of your community?" and "How does education impact the health of your community?".

| Т                  | able 10: How Economic Stability and Ed | ucatio | n Impact Community Health by County |       |
|--------------------|--|--------|-------------------------------------|-------|
| County             | Economic Stability                     | Total  | Education                           | Total |
| puc<br>(/          | Lack of Affordable Housing             | 8      | Improved Health Literacy            | 16    |
| Richmond (n=57)    | Deprioritization of Health             | 6      | Improved Health Outcomes            | 7     |
| Ri                 | Food Insecurity                        | 4      | Early Childhood Education Influence | 5     |
|                    |  |        |                                     |       |
| ns<br>3)           | Lack of Affordable Housing             | 11     | Improved Health Literacy            | 9     |
| Queens (n=33)      | Job Instability                        | 6      | Better College Opportunities        | 6     |
|                    | Limited Transportation Access          | 5      | Need for Quality Education          | 5     |
|                    |  |        |                                     |       |
| ork<br>2)          | Lack of Affordable Housing             | 14     | Improved Health Literacy            | 13    |
| New York<br>(n=42) | Food Insecurity                        | 5      | Better College Opportunities        | 3     |
| Ne<br>(            | Lack of Employment Opportunities       | 5      | Language Barriers                   | 3     |

Notes: Total represents the frequency of the answer across all groups within that county.



Health start Table 11 combines the questions, "How does your neighborhood and environment impact the health of your community?" and "How do social factors impact the health of your community?".

| Table 11: How Neighborhood/ Environment and Social Factors Impact Community Health by County |                                  |       |  |       |  |
|--|----------------------------------|-------|--|-------|--|
| County   | Neighborhood and Environment     | Total | Social Factors                         | Total |  |
| Richmond<br>(n=57)   | Poor Neighborhood Infrastructure | 9     | Community Engagement Improves Health   | 9     |  |
|  | Need for Safe Housing/Recreation | 8     | Prevalence of Racism/Discrimination    | 5     |  |
|  | Environmental Hazards            | 6     | Need for Culturally Competent Services | 2     |  |
|  |                                  |       |  |       |  |
| Queens<br>(n=33)   | Poor Neighborhood Infrastructure | 9     | Need for Culturally Competent Services | 4     |  |
|  | Environmental Hazards            | 8     | Immigration Status Impacts Health      | 4     |  |
|  | Food Deserts                     | 5     | Low Income                             | 4     |  |
|  |                                  |       |  | _     |  |
| New York<br>(n=42)   | Food Deserts                     | 9     | Prevalence of Racism/Discrimination    | 5     |  |
|  | Need for Safe Housing/Recreation | 7     | Lack of Family/Social Support          | 3     |  |
|  | Need for Affordable Housing      | 5     | Incarceration Rates                    | 2     |  |

Notes: Total represents the frequency of the answer across all groups within that county.



### **Discussion**

### **Community Health Concerns**

While differences among county priorities and determinants of health exist, similarities are also evident. Analyzing data with a NYS Prevention Agenda lens, the number one priority area across all three counties was Promote Well-Being and Prevent Mental and Substance Use Disorders. Mental health attention and services were a persistent topic of discussion among all groups. Preventing Chronic Diseases was the second leading priority area across all counties. The counties diverge in the specific focus areas. Queens heavily focused on preventive care and management whereas Richmond and New York had a closer breakdown between preventive care and food security.

### **Barriers**

There were six leading healthcare barriers across the counties. The top barrier answers were health literacy, insurance/cost, stigma/fear, lack of transportation, lack of trust, and lack of healthcare funding. Richmond and New York's top barrier was health literacy and Queens' was insurance/cost.

# **Strategies to Barriers**

A common answer among all groups and counties on how to address barriers to healthcare was community partnerships and engagement. This ranged from the CBO involvement in health programs and partnerships with hospitals to encouraging community members to utilize community services. Another top response was providing culturally competent services. Cultural competency is the ability to live and work in a culture other than one's own (Issel & Wells, 2018). Cultural competency is a continuum that varies greatly but the highest level is cultural proficiency. Proficiency entails proactively seeking knowledge and information about other cultures, in addition to being able to educate others on cultures (Issel & Wells, 2018). The need for cultural proficiency is heightened in the three counties due to various racial and ethnic backgrounds as well as immigration status.

### **Social Determinants of Health**

The top economic stability impact on health across the three counties was lack of affordable housing. This is consistent with CDC data that found Richmond and Queens counties with high social vulnerability levels for housing and transportation and moderate to high for New York County ("Online GIS Maps"). The leading educational impact on health across all three locations was health literacy. Responses stated that higher educational levels resulted in higher health literacy. This is reinforced by the fact that estimates show that census block groups in Queens County could have as high as 73% of people in that block group having below basic or



basic health literacy. Richmond block groups could have as high as 53% and New York with 66% ("Health Literacy Data Map). Below basic skills include being able to locate information such as the time of a visit on an appointment slip but struggling with more complex information. Basic health literacy skills include being able to locate multiple pieces of information but struggling with interpreting the meaning, such as knowing if their blood pressure is in a healthy range ("Health Literacy Data Map).

The top neighborhood and environment factor in Richmond and Queens were poor neighborhood infrastructure. For New York county, the top response was food deserts. However, this category did not have a large gap as other categories did. Need for safe housing/recreation, environmental hazards, and need for affordable housing were also leading answers. For social factors impacting health, New York's top response was the prevalence of racism and discrimination. Richmond had that community engagement improves overall health and Queens had the need for culturally competent services. Social conditions such as racism and the lack of culturally competent services can contribute to chronic stress, which leads to compromised health (Woolf & Braveman, 2011).

#### Limitations

The original second question of "What do you think are the biggest priorities for health in your community?" has been omitted. This question has been omitted because only two out of the nine groups directly addressed the question. It is also a continuation and redundancy of the first question, "What do you think are the biggest health concerns in your community?". Further, it should be noted that the totals used in result tables represent the frequency of sticky notes that contained that response. However, due to the data collection process, respondents could write the same response two times. Therefore, there is no way to determine if the response was from the first round of being asked the question or the second round of being asked the same question. In addition, due to sound quality, audio transcription was not completed. Without transcription, a traditional qualitative analysis was not preformed.

#### Conclusion

This CHNA process aimed to understand what CBOs considered top health concerns, barriers to healthcare, and social determinants of health in their communities. Understanding non-medical factors such as economic status, education level, and health literacy skills in each county and how they influence health, aid in better serving local communities. This allows healthcare systems to develop and implement programs that meet the needs of their community in partnership with Community-Based Organizations.



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# Appendices

# **Appendix A: Summit Participant Organizations**

| County                     | Organization                                     |  |
|----------------------------|--|--|
| Richmond                   | City Harvest                                     |  |
| Richmond                   | Richmond Community Health Center of Richmond     |  |
| Richmond                   | Coordinated Behavioral Care                      |  |
| Richmond                   | Empowerment Zone                                 |  |
| Richmond                   | GRACE Foundation of New York                     |  |
| Richmond                   | ichmond Healthcare Associates in Medicine        |  |
| Richmond                   | Legal Services NYC                               |  |
| Richmond                   | Richmond New York Council on Problem Gambling    |  |
| Richmond                   | Richmond Northwell                               |  |
| Richmond                   | hmond Office of The District Attorney Richmond   |  |
| Richmond                   | On Your Mark                                     |  |
| Richmond                   | Richmond University Medical Center               |  |
| Richmond                   | Seamen's Society                                 |  |
| Richmond                   | Staten Island Partnership for Community Wellness |  |
| Richmond Staten Island PPS |  |  |
| Richmond                   | Staten Island USA                                |  |
| Richmond                   | VISIONS Services for the Blind                   |  |
| Richmond                   | YMCA NYC   |  |
| Queens                     | American Lung Association                        |  |
| Queens                     | Catholic Charities Neighborhood Services, Inc.   |  |
| Queens                     | Community Healthcare Network                     |  |
| Queens                     | Comunilife                                       |  |
| Queens                     | EAC Network/DSRIP-PAM Program                    |  |
| Queens                     | Fortune Society                                  |  |
| Queens                     | Lawyers Alliance for New York                    |  |
| Queens                     | My Elder   |  |
| Queens                     | New Horizon counseling center                    |  |
| Queens                     | NowPow   |  |
| Queens                     | Public Health Solutions                          |  |
| Queens                     | SACSS  |  |
| Queens                     | Self-employed                                    |  |
| Queens                     | The Child Center of NY                           |  |
| Queens                     | UNH  |  |
| Queens                     | Urban Pathways                                   |  |
| Queens                     | YWCA of Queens                                   |  |



| неа      | ILI I "   |
|----------|---|
| County   | Organization  |
| New York | Chayim Aruchim  |
| New York | Columbia University   |
| New York | Community Healthcare Network  |
| New York | CompuForce  |
| New York | Comunilife, Inc.  |
| New York | DIDIT   |
| New York | Dominican Women's Development Center                                    |
| New York | Fortune Society   |
| New York | Harlem Grown  |
| New York | Healthfirst   |
| New York | Hudson Guild  |
| New York | Lenox Hill Hospital   |
| New York | NCS   |
| New York | NowPow  |
| New York | NYC Department of Transportation – Safety Education & Outreach Division |
| New York | Partnership with Children   |
| New York | Pink Concussions  |
| New York | Public Health Solutions   |
| New York | RAIN TOTAL CARE, Inc.   |
| New York | Say-Ah  |
| New York | The Bridge Inc.   |
| New York | The Jewish Board  |
| New York | Urban Pathways  |
| New York | VISIONS Services for the Blind  |



## **Appendix B: Script**

-Introduction and overview
(10 minutes total)
(3 minutes)

Hello and welcome to this group discussion. My name is\_\_\_\_\_\_, and I am today's

facilitator. My role is to help get a conversation going and to make sure we cover several important topics that we would like your input on. Let's go around the room now and introduce ourselves.

Rules for Focus Groups

(2 minutes)

I would like to thank you all for taking the time out of your day to come here and discuss your ideas. The overall goal is to hear your thoughts about health. In particular, we are interested in your views about things that impact the health of the people in your community.

- We value your experience and we are here to learn from you. Your thoughts are very important to all of us on this team we will be audio recording today's meeting so that we won't miss anything you say.
- Participating in today's meeting is completely voluntary. You have the right to withdraw from the group at any time without penalty.

The total length of time of the focus group meeting is expected to be about 1 hr. 15 minutes. We will be timing sections so that we can cover all the topics and get your feedback on these issues.

There are a few "ground rules"

- I might move you along in conversation. Since we have limited time, I'll ask that off-topic questions or comments be answered after the focus group session. I'd like to hear everyone speak so I might ask people who have not spoken up to comment.
- Please respect each other's opinions. There are no right or wrong answer to the
  questions I will ask. We want to hear what each of you think and its okay to have
  different opinions.



- We'd like to stress that we want to keep the sessions confidential, so we ask that
  you not use names or anything directly identifying when you talk about your
  personal experiences. For example, if you talk about a friend, or specific places,
  don't use their full names or give the kind of information that could be used to
  fully identify someone. We want to keep all identities anonymous.
- We also ask that you not discuss other participants' responses outside of the discussions. However, because this is in a group setting, the other individuals participating will know your responses to the questions and we cannot guarantee that they will not discuss your responses outside of the focus group.
- Please do not film or record any part of this session. Please silence and put away your phones and other electronic devices.

Overview of "Delphi Method"

(5 minutes)

Let's talk about the sticky notes and markers in front of you. For some of the questions today, I will ask you the question, and then I want you to write your response down on those sticky notes, one idea per note. You will put the notes in that container and then pass the container to the moderator. I will stick the notes onto this easel, and together we will see which notes are similar and which ones are different, by putting them into groups. We want the notes to be anonymous, so don't write your name on it, and you don't have to say which one you wrote. We will use these notes to start many of our conversations today.

Let's practice doing this now. I'm going to ask you a question and I want you to write down your answers, one idea per note. Make sure you write legibly and in big letters. What is your favorite season? Write down your answer on the sticky note, put it in the container.

[Moderator's assistant takes the container full of notes, mixes them up, and places them on the easel, grouping the notes that say the same thing. Then, pointing to one of the seasons:]

Let's talk about this group. Why do you think someone would say this is their favorite?

[Discuss the pros/cons to that season, and then move on to the next season—until it seems like the group understands how it will work]



We will use this method for many of the discussion questions today. For other questions, we will just talk without writing anything. I will tell you when to write something down and when we will just talk about it. Ok?

DO YOU HAVE ANY QUESTIONS SO FAR?

Ok, let's get started (Start Recorder)

# To health concerns in our community

(30 minutes)

Step 1: Group generation

To start our conversation today, let's talk about the New York State Prevention Agenda which are the health priority areas identified by the New York State Department of Health. Please take out and look at your handout titled "New York State Prevention agenda 2019-2024 Priority areas, Focus Areas and Goals "in your folder. There are 5 priority areas: Prevent Chronic Diseases — Promote Healthy and Safe Environment —Promote Healthy Women, Infants and



Children — Promote Wellbeing and Prevent Mental and Substance Use Disorders and Prevent Communicable Diseases. Under each of these areas are specific focus areas that relate to the main priority. (Give participants 2 minutes to review)

### Step 2: Individual generation I

(3 minutes) Now, with all of these different types of health priorities, what do you think are the biggest health concerns in your community? Write down one or more thoughts on the sticky notes provided, using one sticky note for each thought. Be sure to write in very big, legible letters. Place sticky note in the container.

[Moderator's assistant writes "Health Concerns in Your Community" on easel pad. Moderator's assistant takes the container full of notes, mixes them up, and places them on the easel, grouping the notes that say similar things.]

Step 3: Discussion of individual ideas I

(15 minutes) Let's talk about your responses for a few minutes and think through what the biggest concerns for your community might be. Remember, you don't need to say what your answer was, and you can change your mind about your answer. What do people think about (say name of 1 the group of responses)? [Briefly discuss each grouping. Ensure discussion focuses on the specific community. While there may be many concerns, remember that we are interested in identifying the biggest concerns.]

### Step 4: Individual generation II

(2 minutes) Now that we've had a chance to talk about these issues, I'd like to get your written responses again. So, just like before, please write down what <u>you</u> think the biggest priorities for health in your community are. You can write the same ideas you wrote last time, or you can write something different.

### Step 5: Build consensus



[Moderator's assistant takes the container full of notes, mixes them up, and places them on the easel, grouping the notes that say similar things.]

[Take 8 minutes to help the group identify the top 3-4 concerns]

# Barriers to getting treatment

(15 minutes)

# Step 1. Individual generation

(2-3 minutes) Sometimes people cannot or do not get care for their health problems. What do you think prevents people from getting treatment in your community? Some examples might be lack of insurance, transportation, embarrassment or stigma, and not knowing how to get treatment. Please write your response on a note.

[Moderator's assistant writes "Barriers to health care" on easel. After 1-2 minutes of participants writing and putting their notes into the container, Moderator's assistant takes the container full of notes, mixes them up, and places them on the easel, grouping the notes that say similar things]

### Step 2. Discussion of individual ideas

(5 minutes) Let's talk about your responses and think through what the biggest barriers in your community might be.

[Discuss groupings of notes. Ensure discussion focuses on the specific community. While there may be many concerns, remember that we are interested in identifying the biggest concerns]

# Step 3. Build consensus

(2-3 minutes) What would you all say the biggest factors are for your community? Let's discuss them.

[Help group reach a consensus. Identify top 3 barriers. They can vote is that helps the group]



Step 4. Group generation of solutions

(3 minutes)

What kind of strategies or education or services do you think would help address the top barriers? Don't respond out loud yet, just write your response on a sticky note and place in container.

(Moderator's assistant takes the container full of notes, mixes them up, and places them on the easel, grouping the notes that say similar things. Move on to next section while moderator's assistant groups and places notes on easel)

# Social determinants of health

(20 minutes, 5 min. per topic)

Now, we're going to talk in more detail about how your community and environment affect your health.

Step 1. Individual generation I (economic stability)

(1-2 minutes) How does economic instability impact the health of your community? In other words, how do housing, employment, food, and transportation impact health in your specific community? Write your answers down on the notes and place them in the container.

[Allow 1-2 minutes to write responses]

[Moderator's assistant collects and shuffle notes, place them on easel.]

Step 2. Discussion of individual generation I (economic stability)

o (3 minutes) Let's discuss your responses for a few minutes. Remember, you don't need to say what your answer was, and you can change your mind about your answer. Do you feel the responses are accurate? Do you want to change anything?

### Step 3. Individual generation II (education)

o (1-2 minutes) How does education impact health of your community? In other words, how do issues like literacy and early childhood education impact health in



your specific community? Write your answers down on the notes and place them in the container.

[Allow 1-2 minutes to write responses]

[Moderator's assistant collects and shuffle notes, place them on easel]

## Step 4. Discussion of individual generation II (education)

o (3 minutes) Let's discuss your responses for a few minutes. Remember, you don't need to say what your answer was, and you can change your mind about your answer. Do you feel the responses are accurate? Do you want to change anything?

# Step 5. Individual generation III (neighborhood and environment)

o (1-2 minutes) How does your neighborhood and environment impact the health of your community? In other words, how do issues like having access to types of food stores, the level of safety, amount of pollution, and other similar issues impact health in your specific community? Write your answers down on the notes and place them in the container.

[Allow 1-2 minutes to write responses]

[Moderator's assistant collects and shuffle notes, place them on easel]

### Step 6. Discussion of individual generation III (neighborhood and environment)

o (3 minutes) Let's discuss your responses for a few minutes. Remember, you don't need to say what your answer was, and you can change your mind about your answer. Do you feel the responses are accurate? Do you want to change anything?

# Step 7. Individual generation IV (social factors)

1. (1-2 minutes) How do social factors impact health of your community? In other words, how do issues like how tightly knit a community is, the amount of discrimination a person faces, or incarceration impact health in your specific community? Write your answers down on the notes and place them in the container.

[Allow 1-2 minutes to write responses]

[Moderator's assistant collects and shuffle notes, place them on easel]



Step 8. Discussion of individual generation IV (social factors)

2. (3 minutes) Let's discuss your responses for a few minutes. Remember, you don't need to say what your answer was, and you can change your mind about your answer. Do you feel the responses are accurate? Do you want to change anything?

# Conclusions:

(5-10 minutes)

- (2-3 minutes) Is there anything else you want to talk about that we haven't addressed?
- (2-3 minutes) What was the most important thing that we discussed today?

Thank you all again for sharing your thoughts, feelings, and experiences with us today. We so appreciate it!