

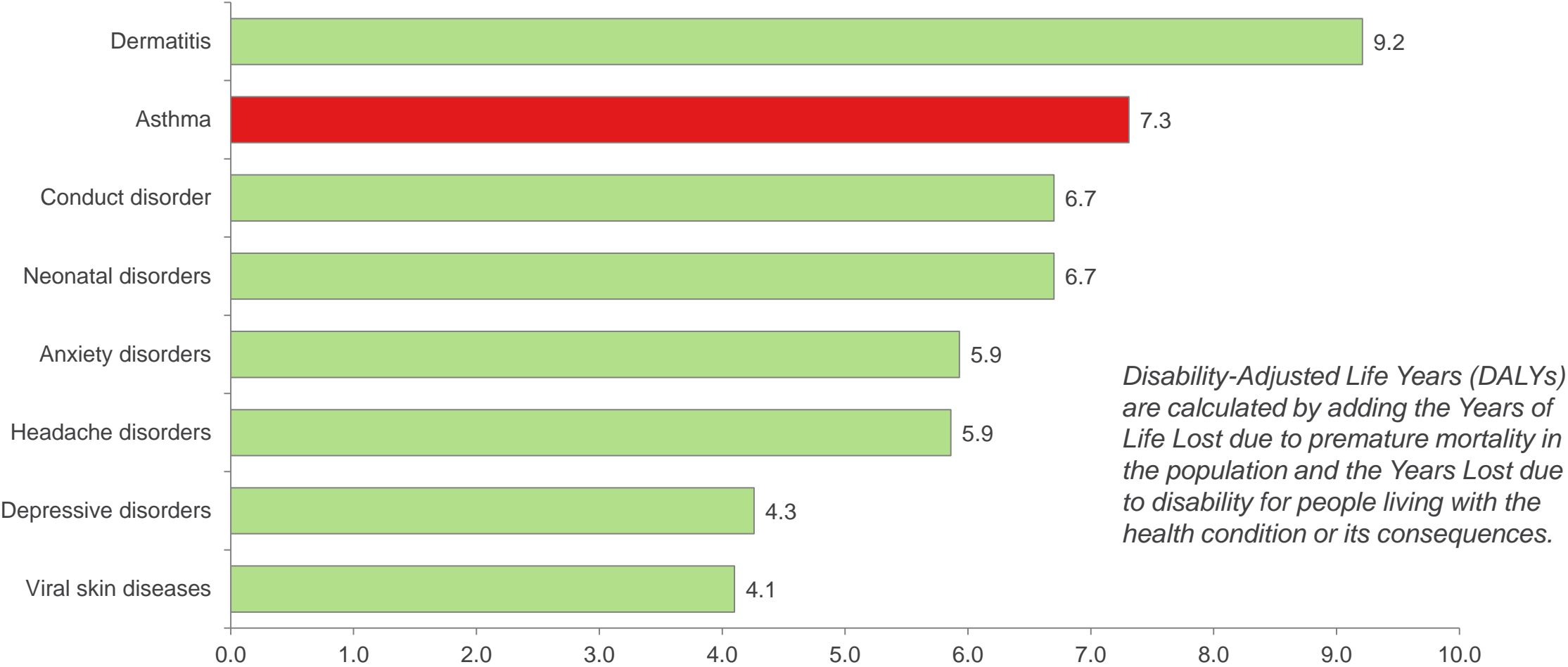
# Bronx Community Health Dashboard: *Asthma*

Last Updated: 9/24/2019

See [end of presentation](#) for more information about this project and links to data sources.

# Asthma is the 2<sup>nd</sup> leading cause of disability in the US among children 5-14y

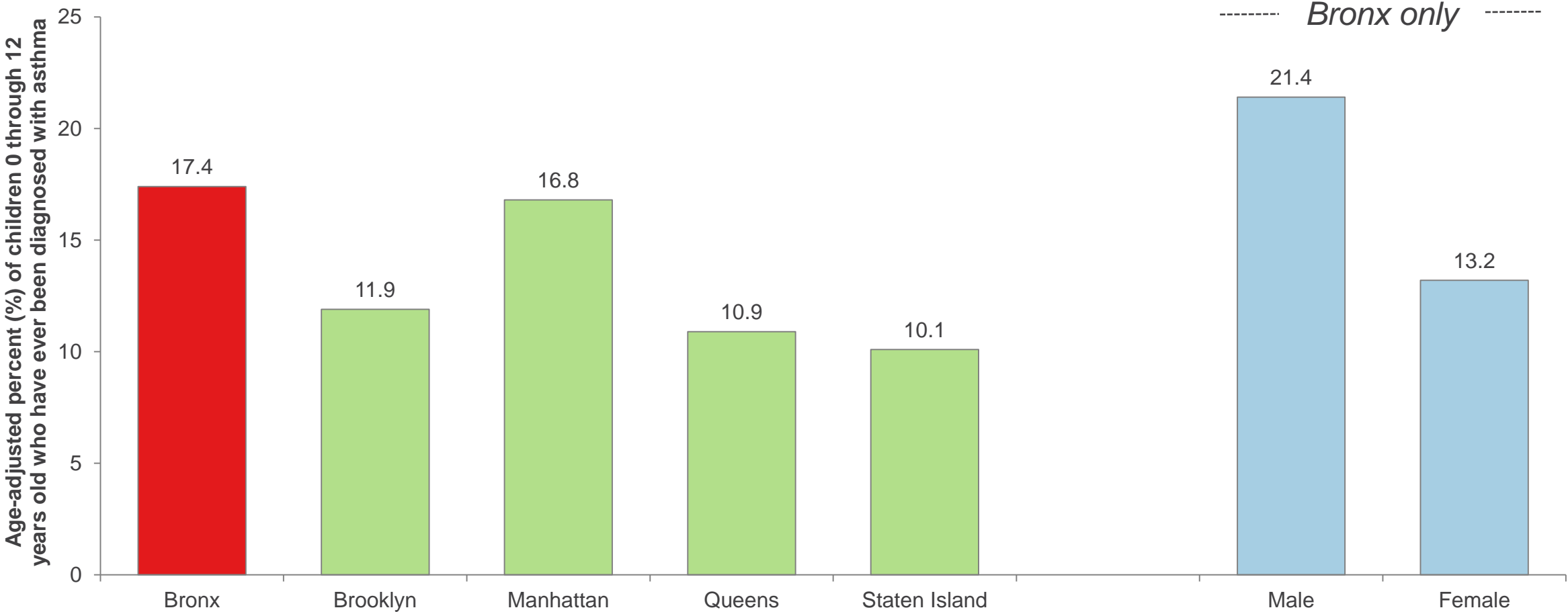
Percent of Total DALYs



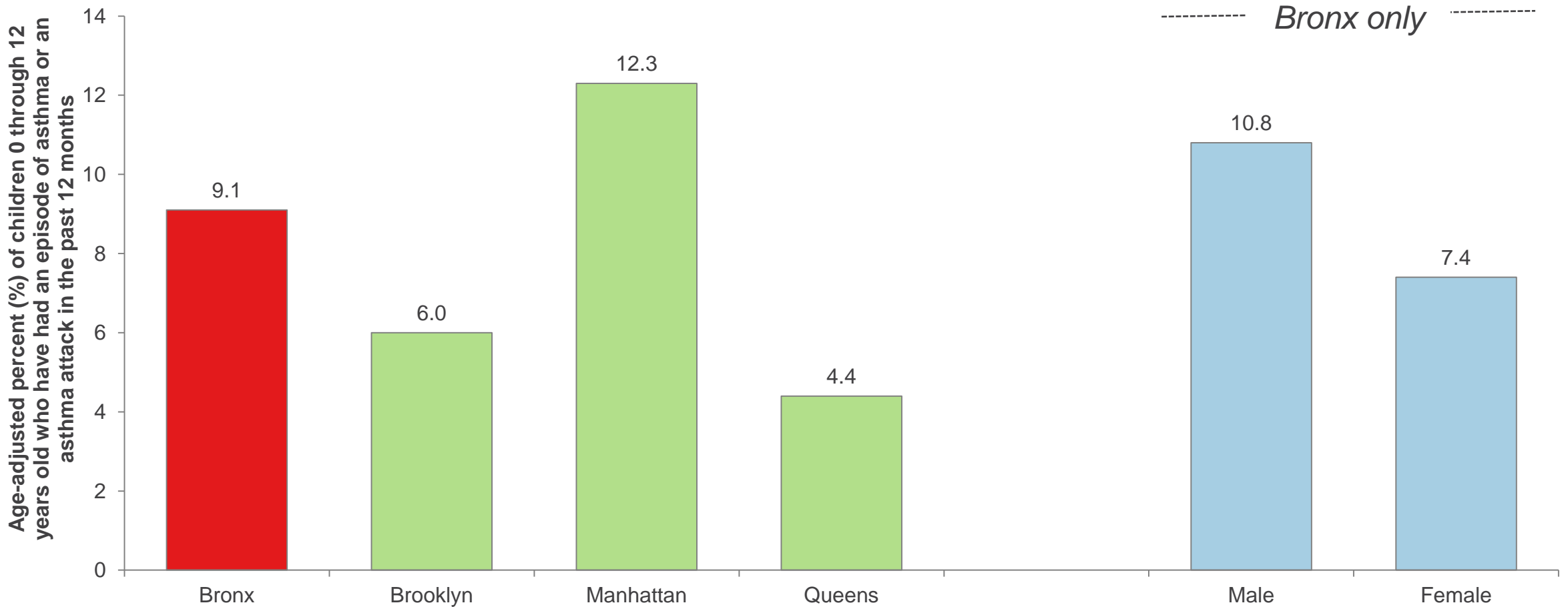
# Child & adolescent asthma

Lifetime prevalence | Current asthma | Asthma severity | Asthma ED visits | Asthma hospitalizations

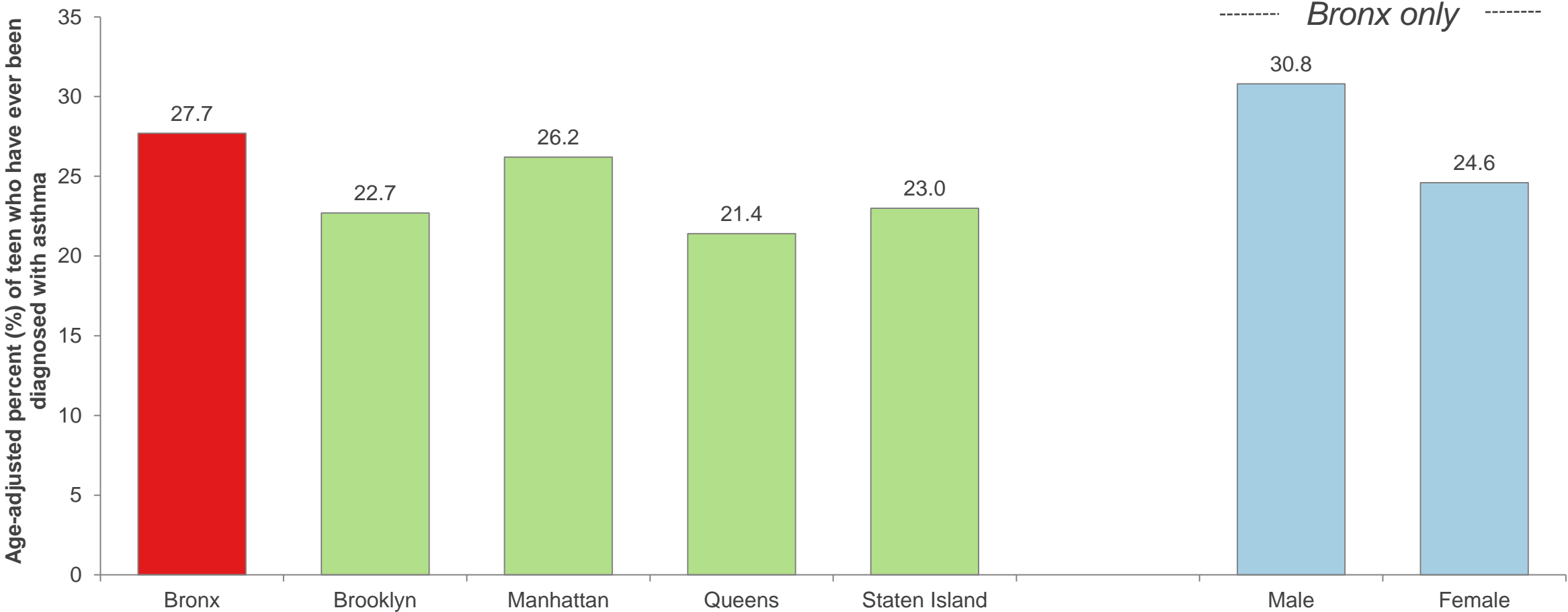
# The Bronx has the highest percentage of children 0-12 years old who have ever been diagnosed with asthma; within the Bronx, asthma is more common among boys



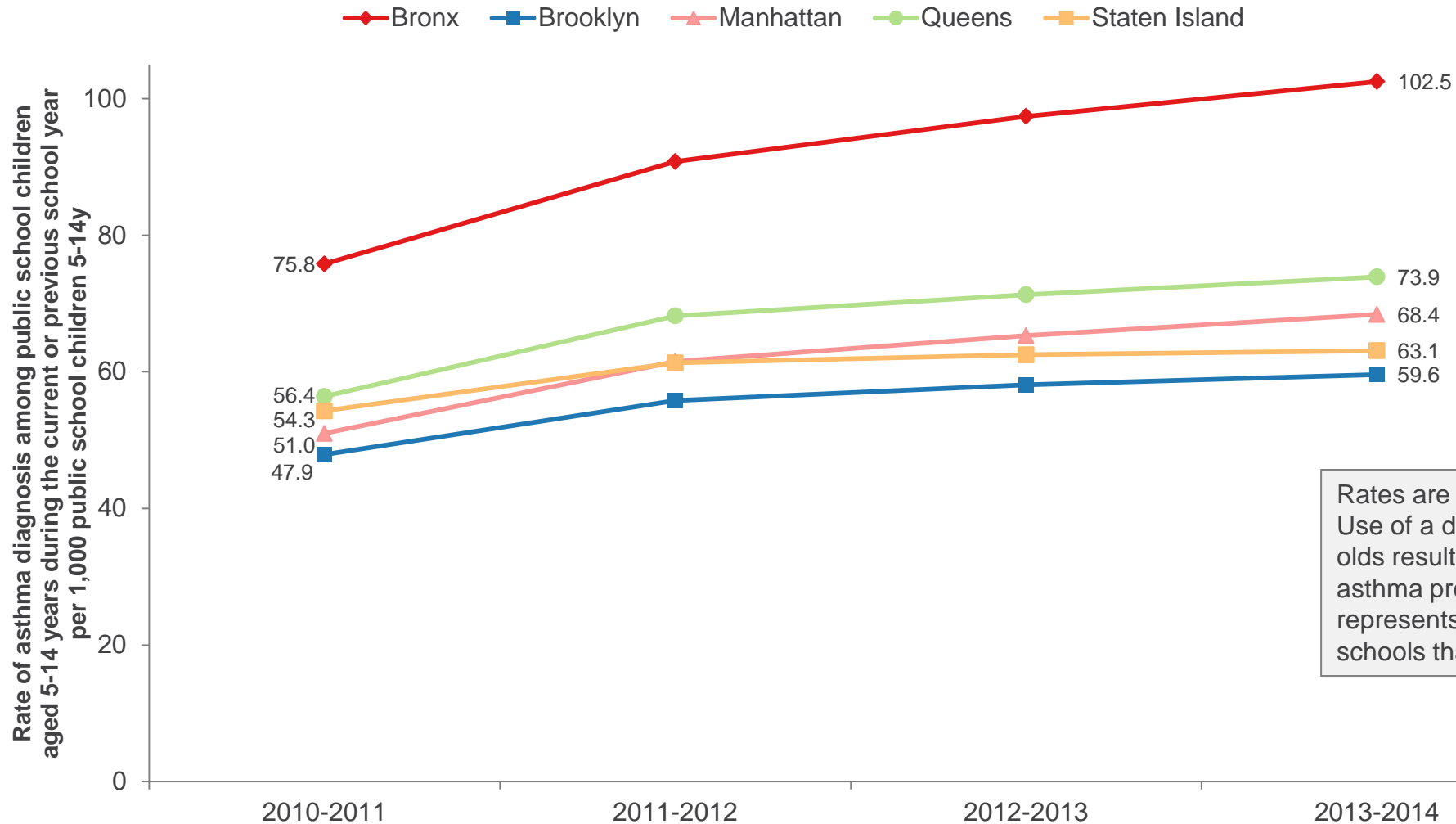
# The Bronx has the second highest percentage of children 0-12 years old currently with asthma; within the Bronx, current asthma is higher among boys



# The Bronx has the highest percentage of teens who have ever been diagnosed with asthma; within the Bronx, asthma is higher among boys

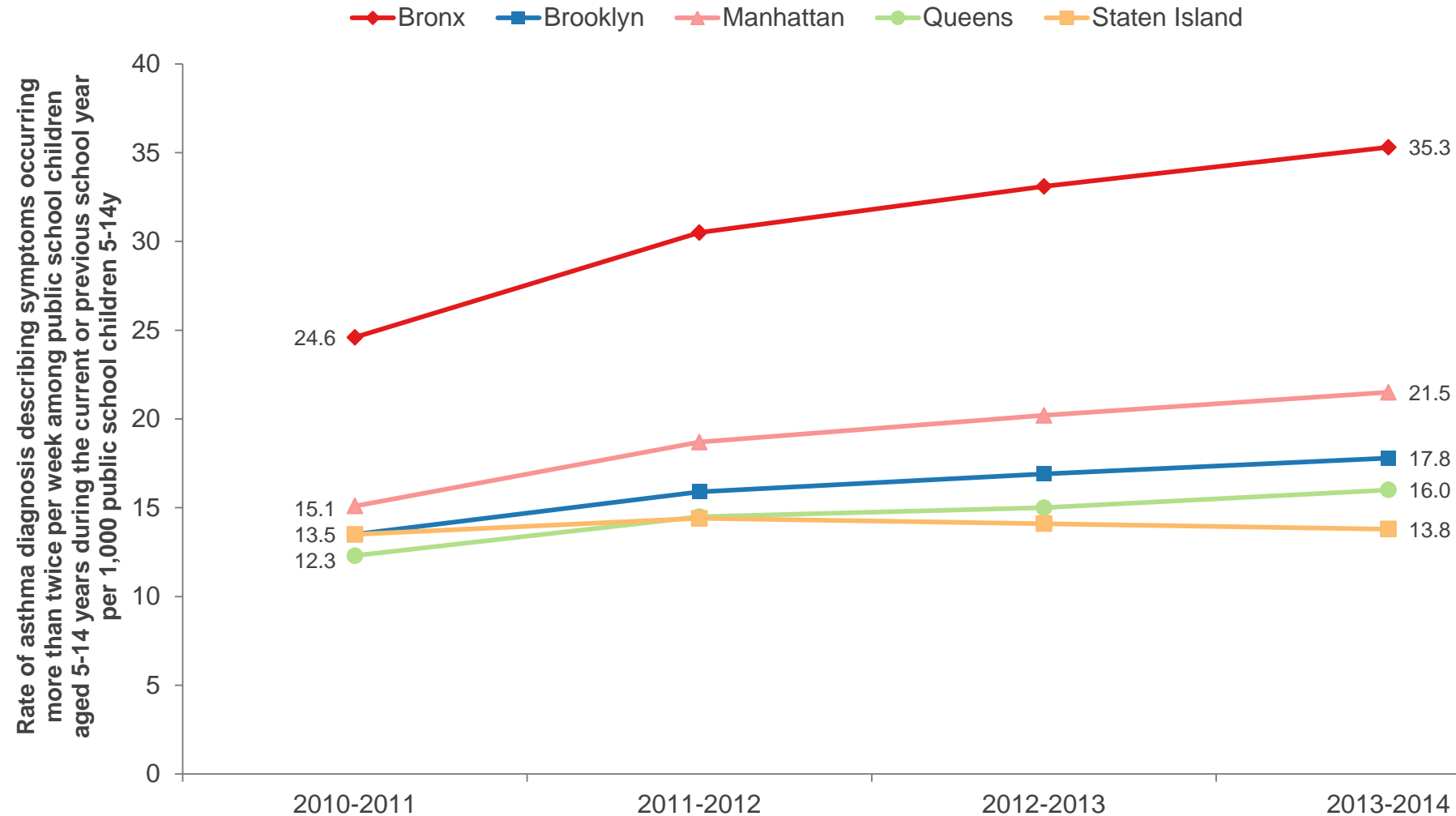


# Asthma rates among public school children aged 5-14 years old have increased in all 5 NYC boroughs and remain highest in the Bronx



Rates are calculated by residence of the child. Use of a denominator consisting of all 5-14 year olds results in an underestimate of the true asthma prevalence, since the numerator represents only children enrolled in public schools that report to NYC DOHMH.

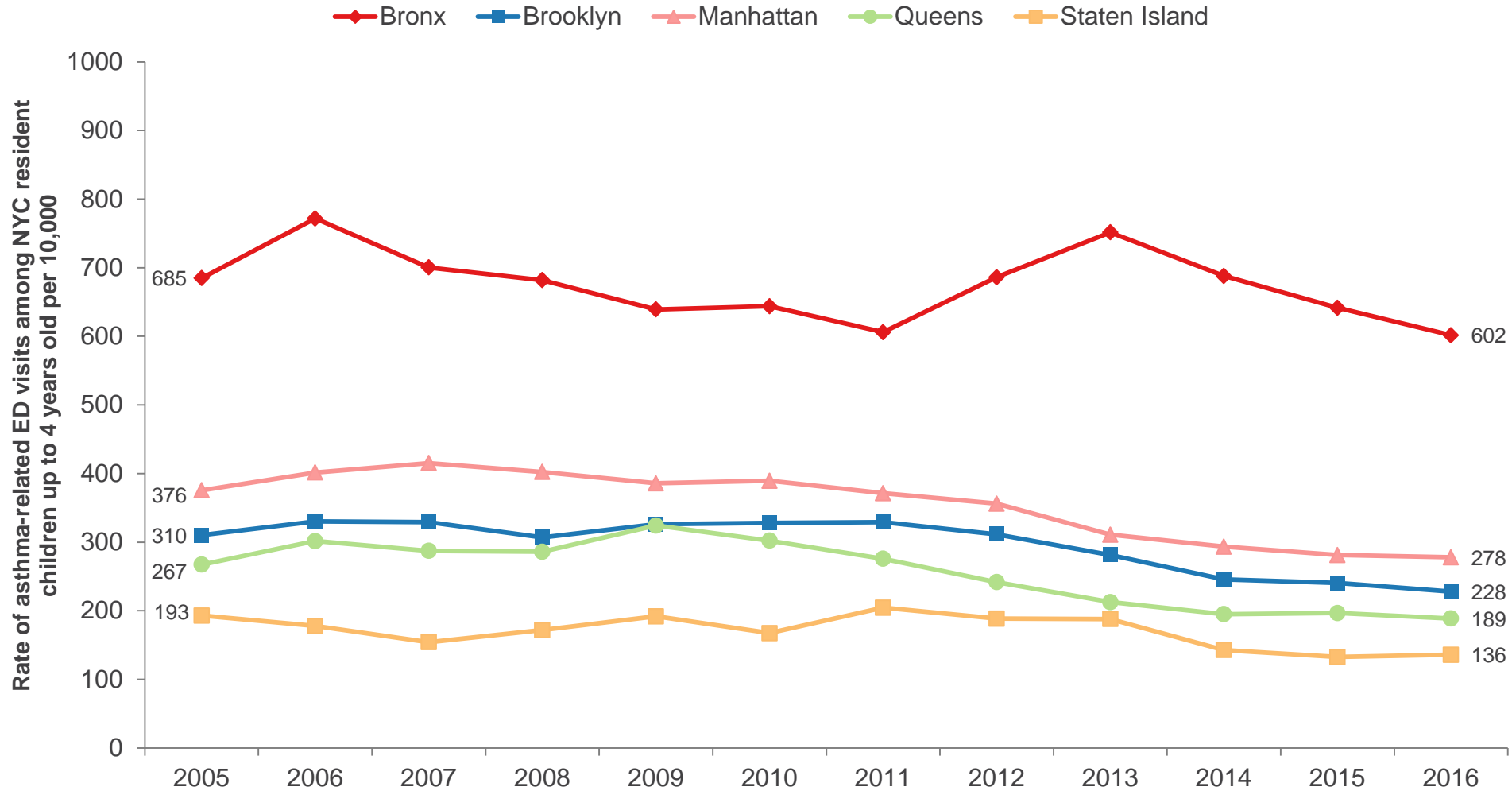
# Persistent asthma rates among public school children aged 5-14 years old have increased in all 5 NYC boroughs and remain highest in the Bronx



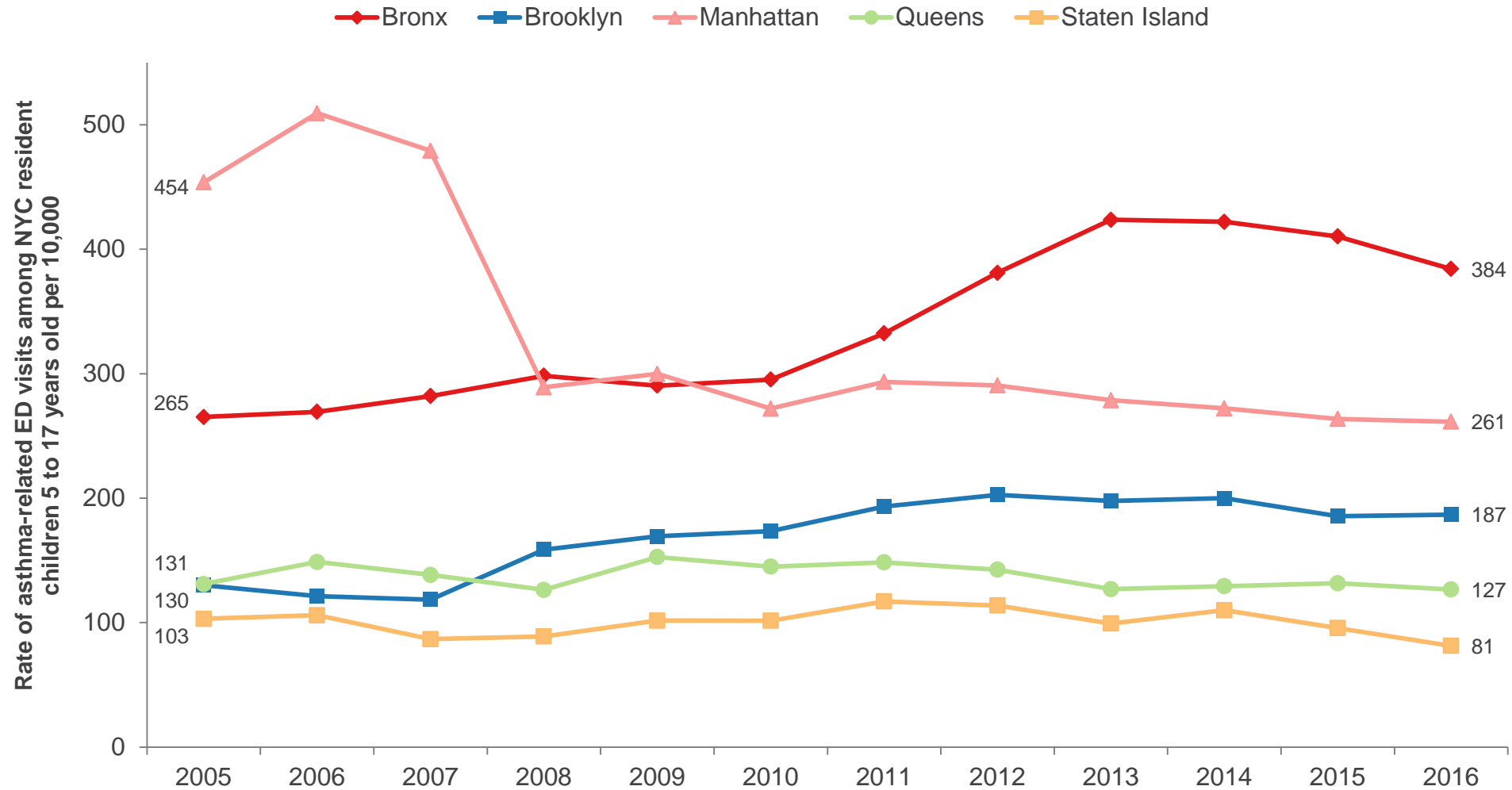
Rates are calculated by residence of the child. Use of a denominator consisting of all 5-14 year olds results in an underestimate of the true asthma prevalence, since the numerator represents only children enrolled in public schools that report to NYC DOHMH.



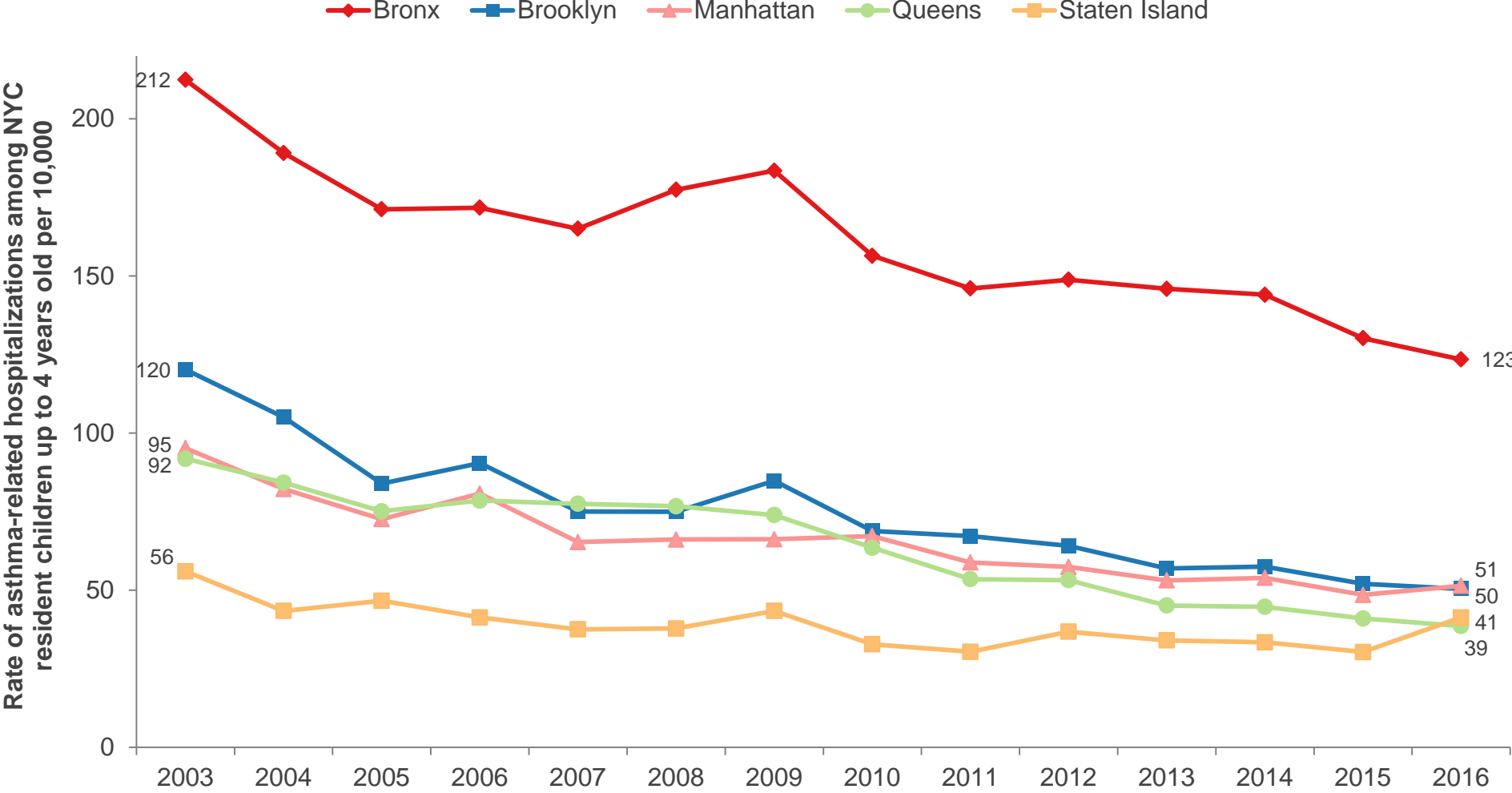
# Asthma-related ED visit rates among children up to 4 years old have remained stable in the Bronx, but declined in all other NYC boroughs



# The asthma-related ED visit rate among children 5 to 17 years old has increased by 45% in the Bronx



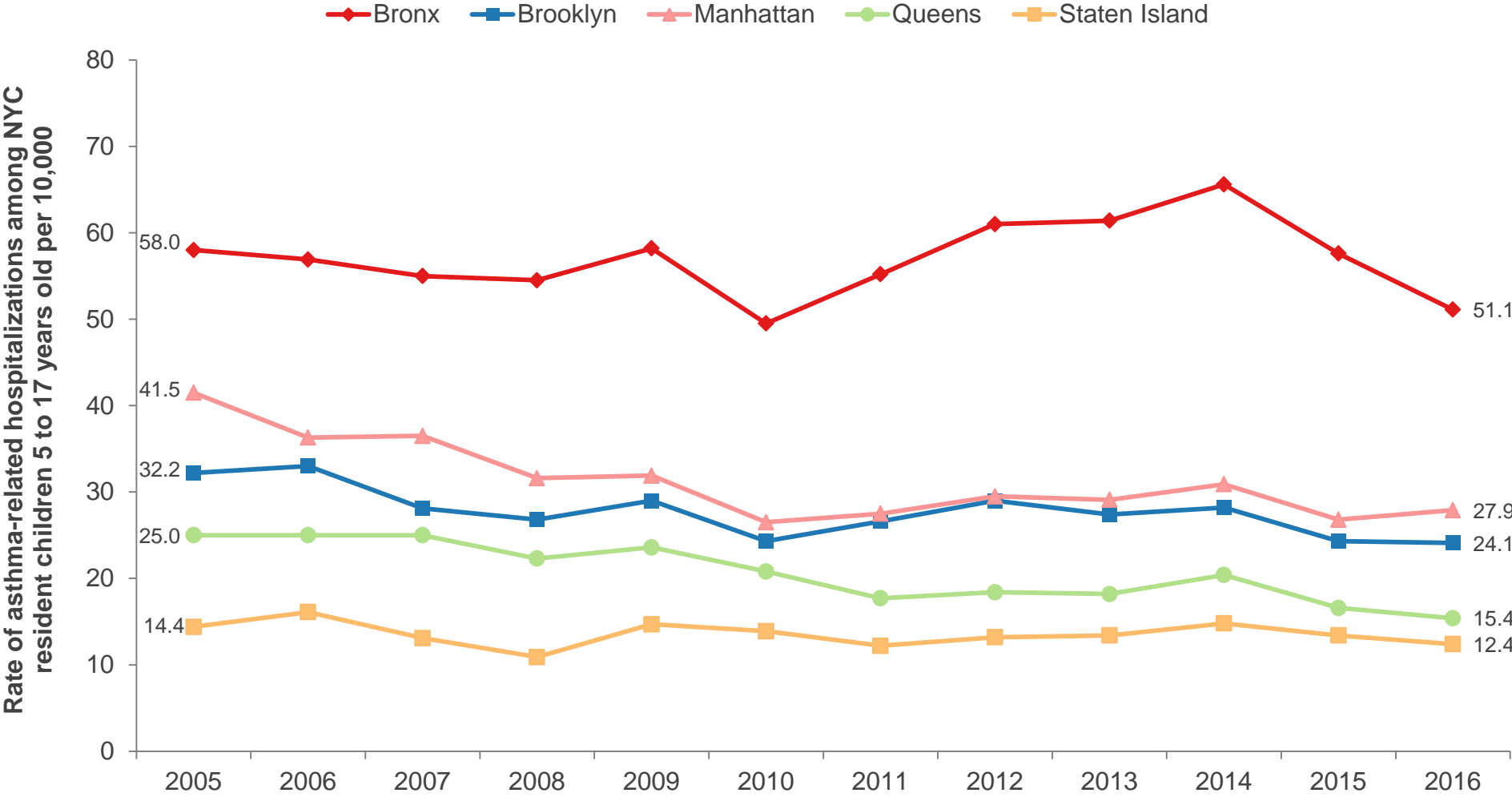
# Asthma-related hospitalization rates among children up to 4 years old have declined in all 5 NYC boroughs; and remain highest in the Bronx



Data source: SPARCS Hospital Discharge Data (2003-2016), data from New York City DOHMH Environment & Health Data Portal  
 A hospitalization is included if it has an ICD-9 principal diagnosis code of 493.



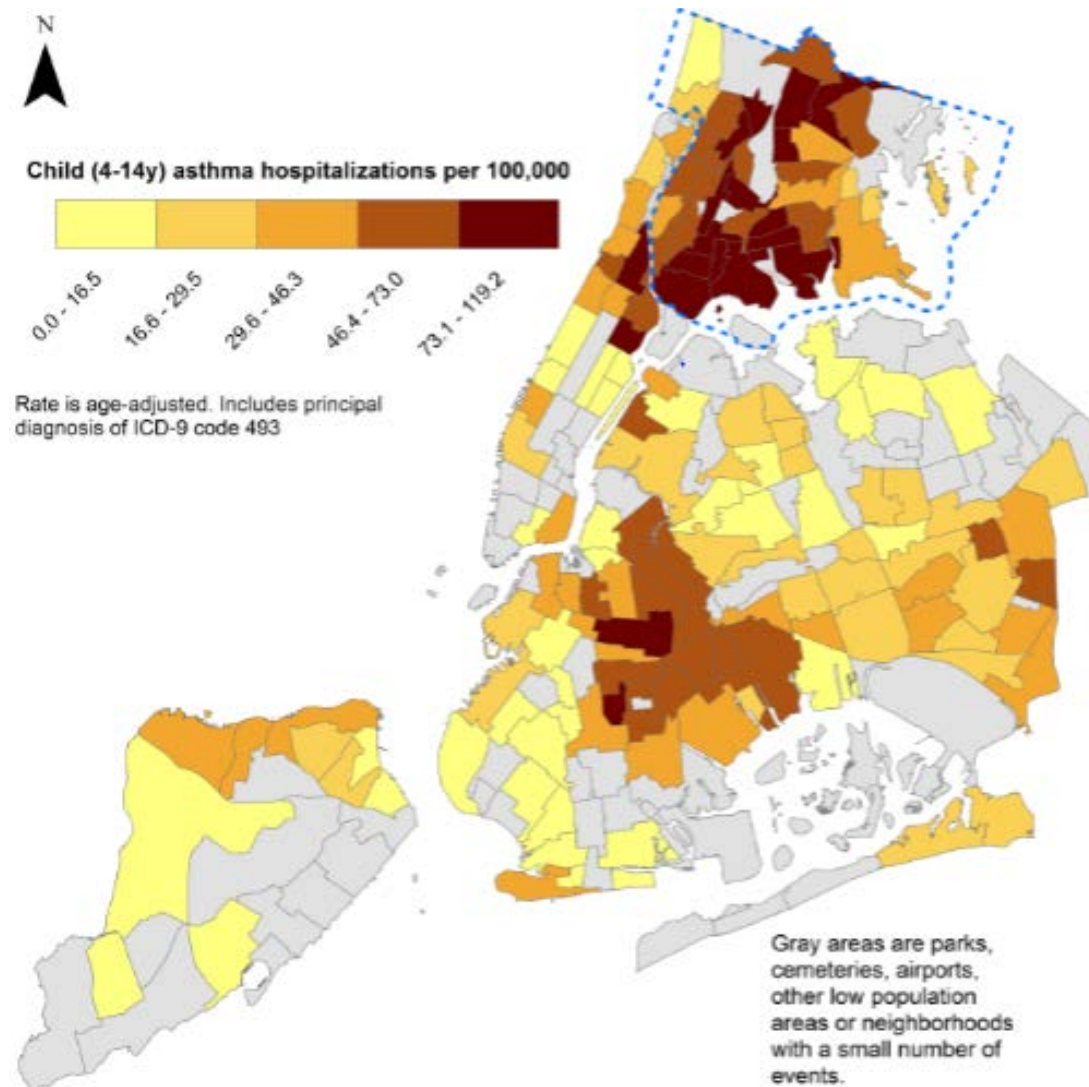
# Asthma-related hospitalization rates among children 5 to 17 years old remain highest in the Bronx



Data source: SPARCS Hospital Discharge Data (2004-2016), data from New York City DOHMH Environment & Health Data Portal  
 A hospitalization is included if it has an ICD-9 principal diagnosis code of 493.



# The Bronx has the highest child asthma hospitalization rates in NYC



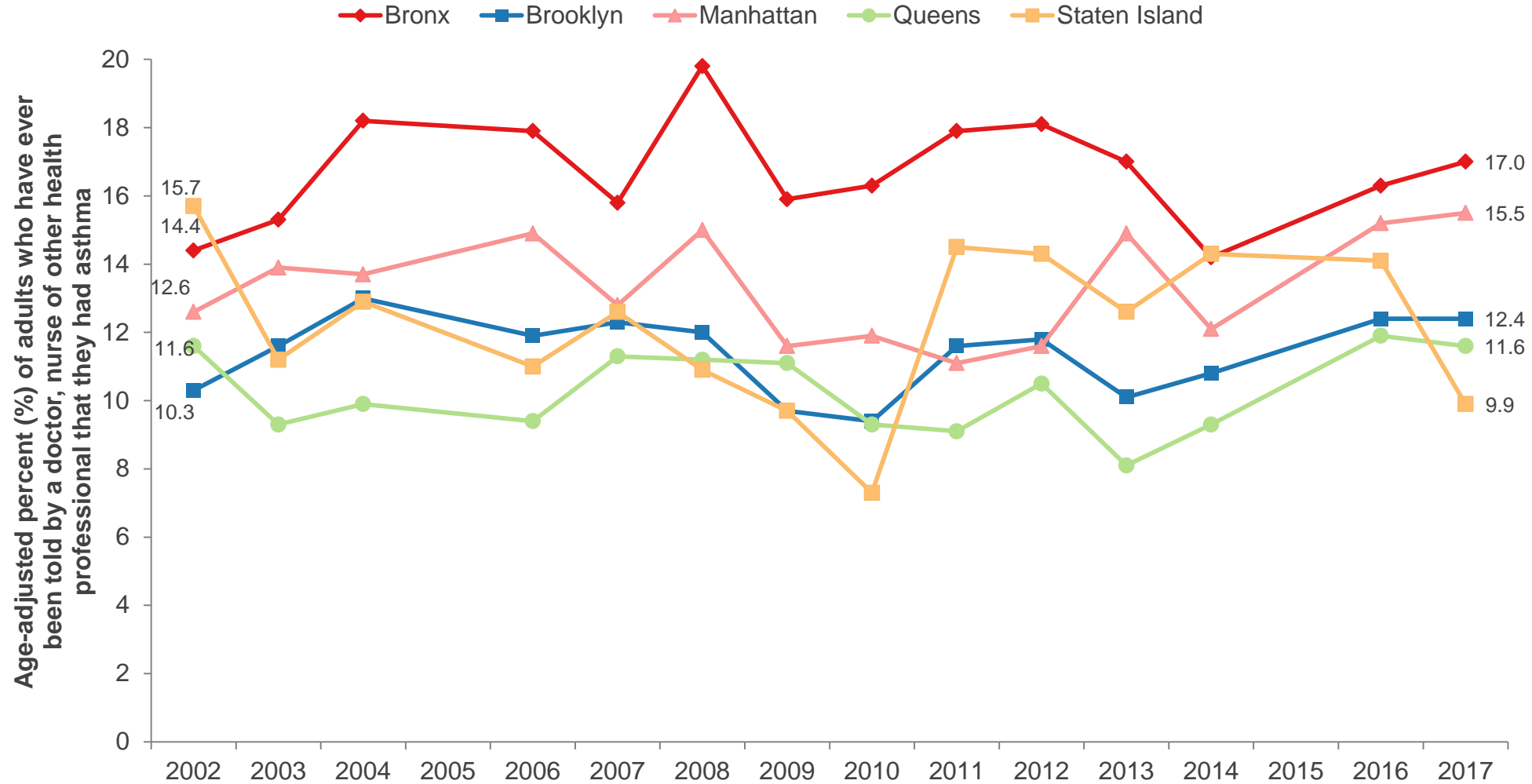
The highest rates are in these Bronx Neighborhoods

- Mott Haven-Port Morris
- Claremont-Bathgate
- East Tremont
- Bedford Park-Fordham North
- Hunts Point
- Bronxdale

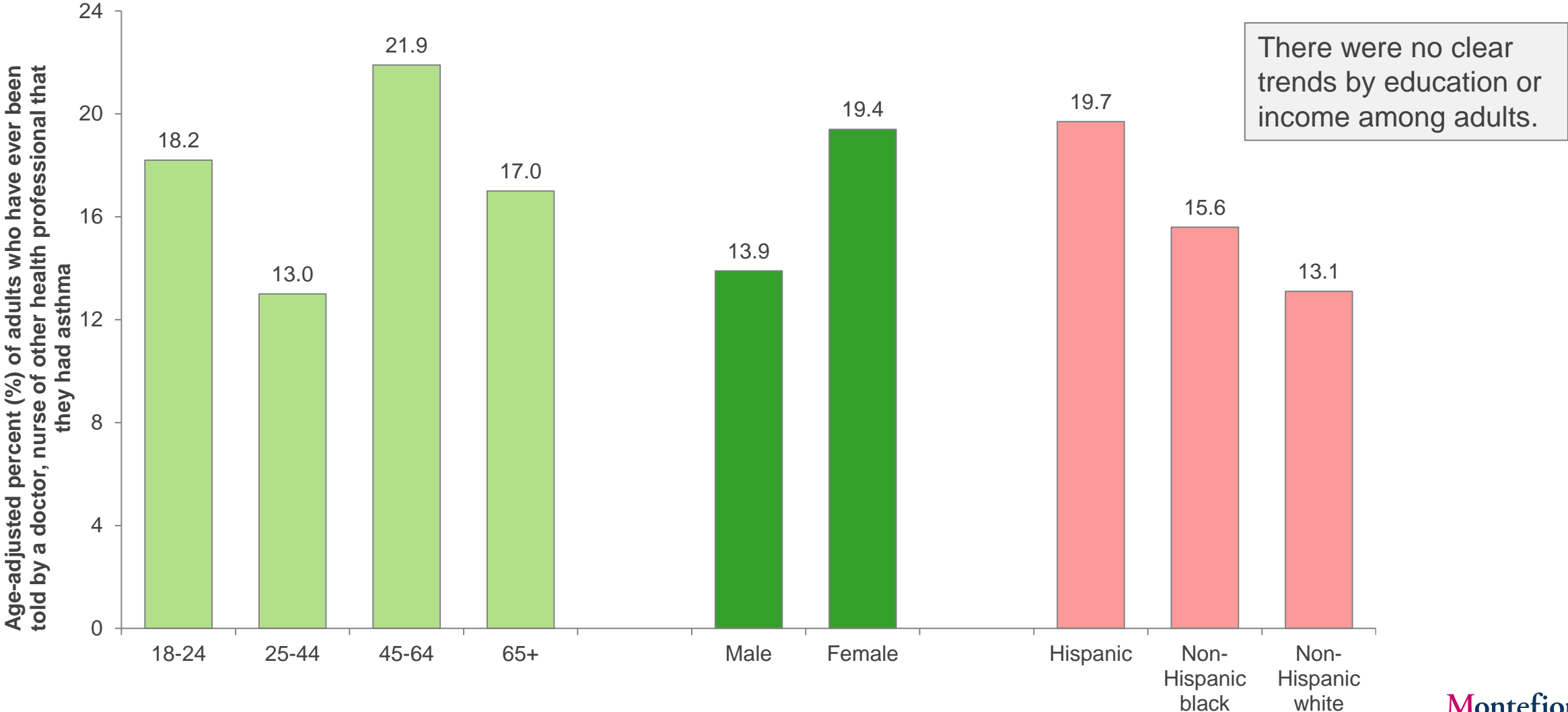
# Adult asthma

Lifetime prevalence | Current asthma | Asthma ED visits | Asthma hospitalizations

# The percent of adults in the Bronx who have ever been diagnosed with asthma has remained relatively stable

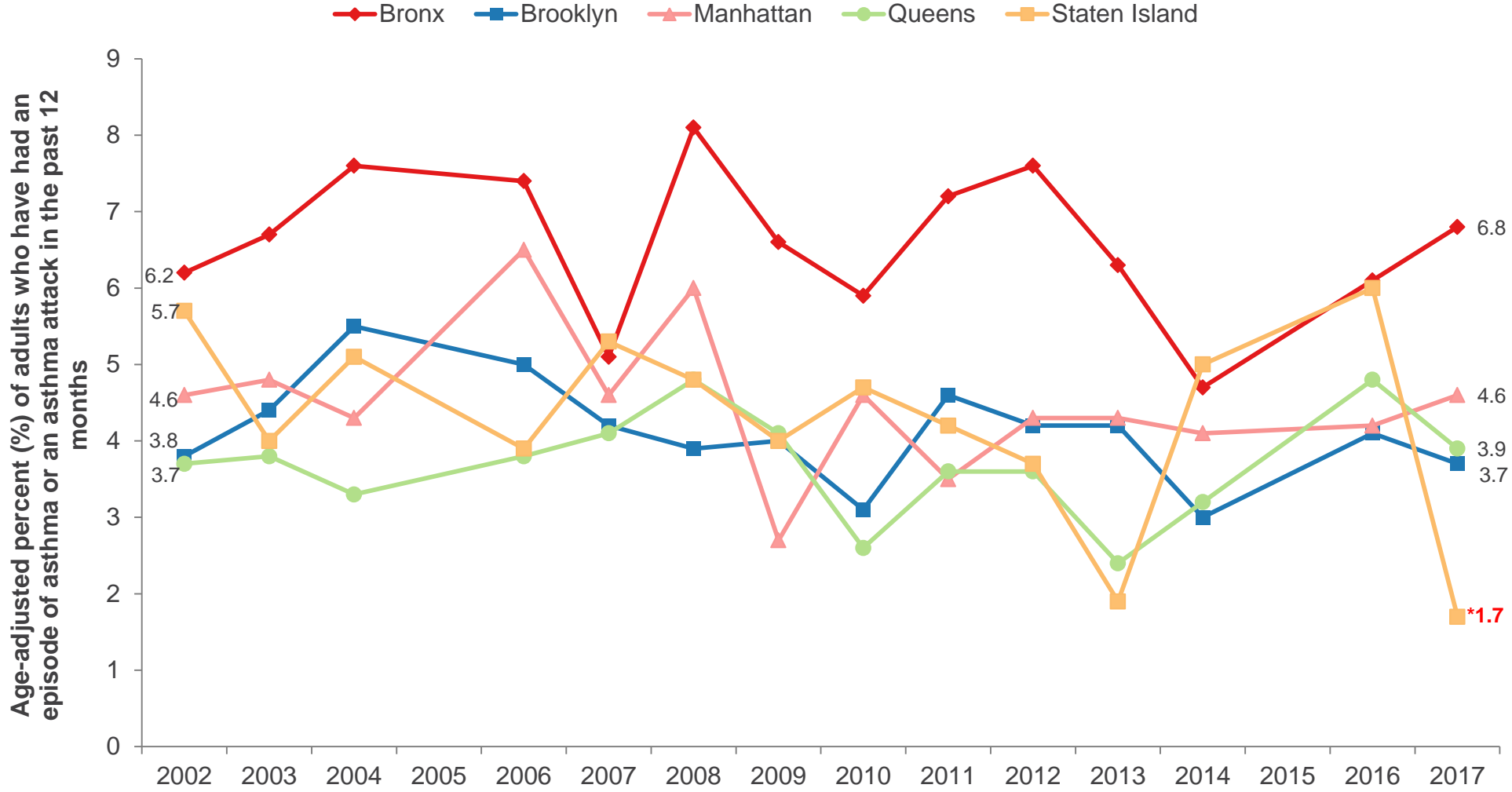


# In the Bronx, the percent of adults ever diagnosed with asthma is highest amongst those who are 45-64y, female, or Hispanic

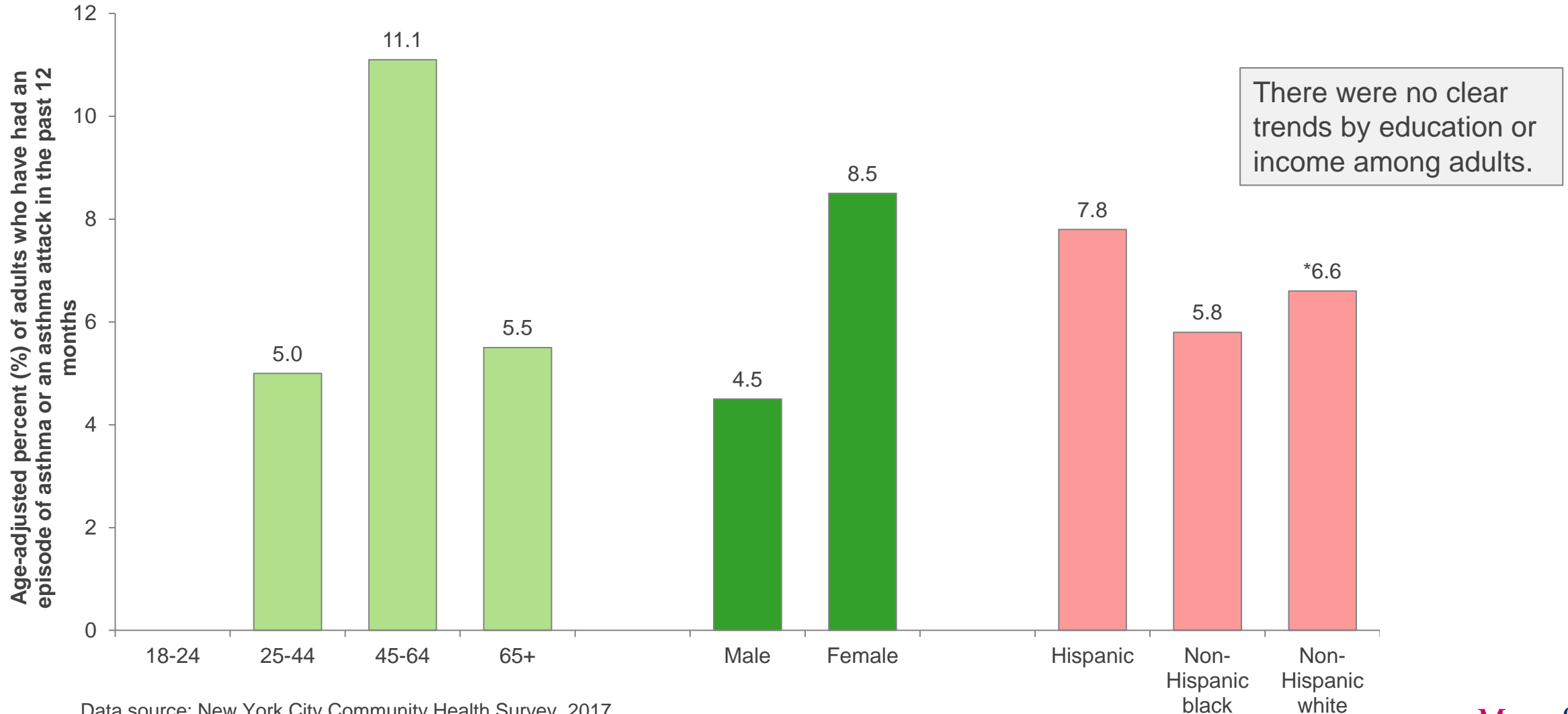




# The percent of adults currently with asthma has generally been highest in the Bronx, only surpassed by Staten Island in 2014



# In the Bronx, the percent of adults currently with asthma is highest among those who are 45-64y, female, or Hispanic



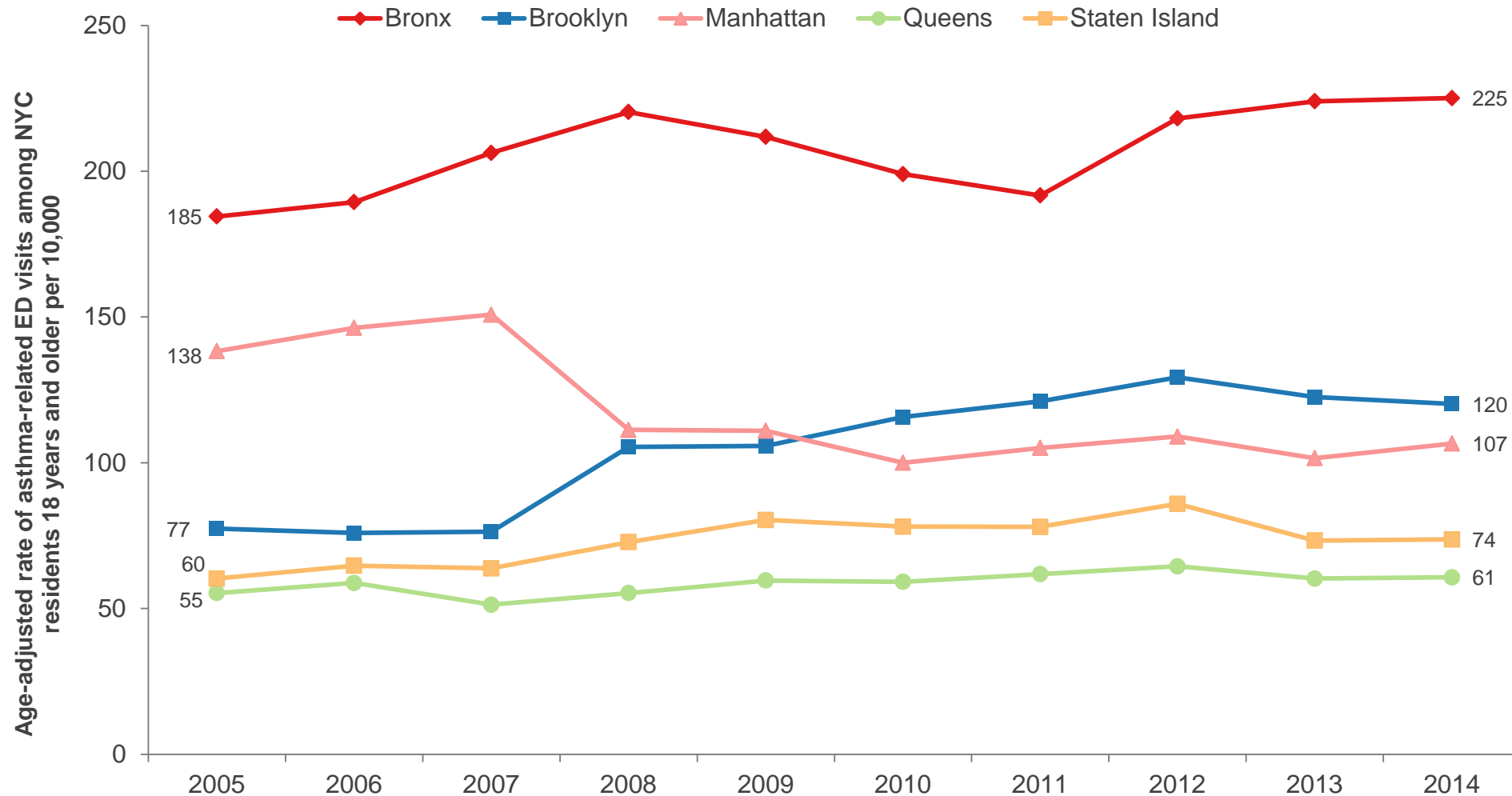
Data source: New York City Community Health Survey, 2017.

Age group data are not age-adjusted.

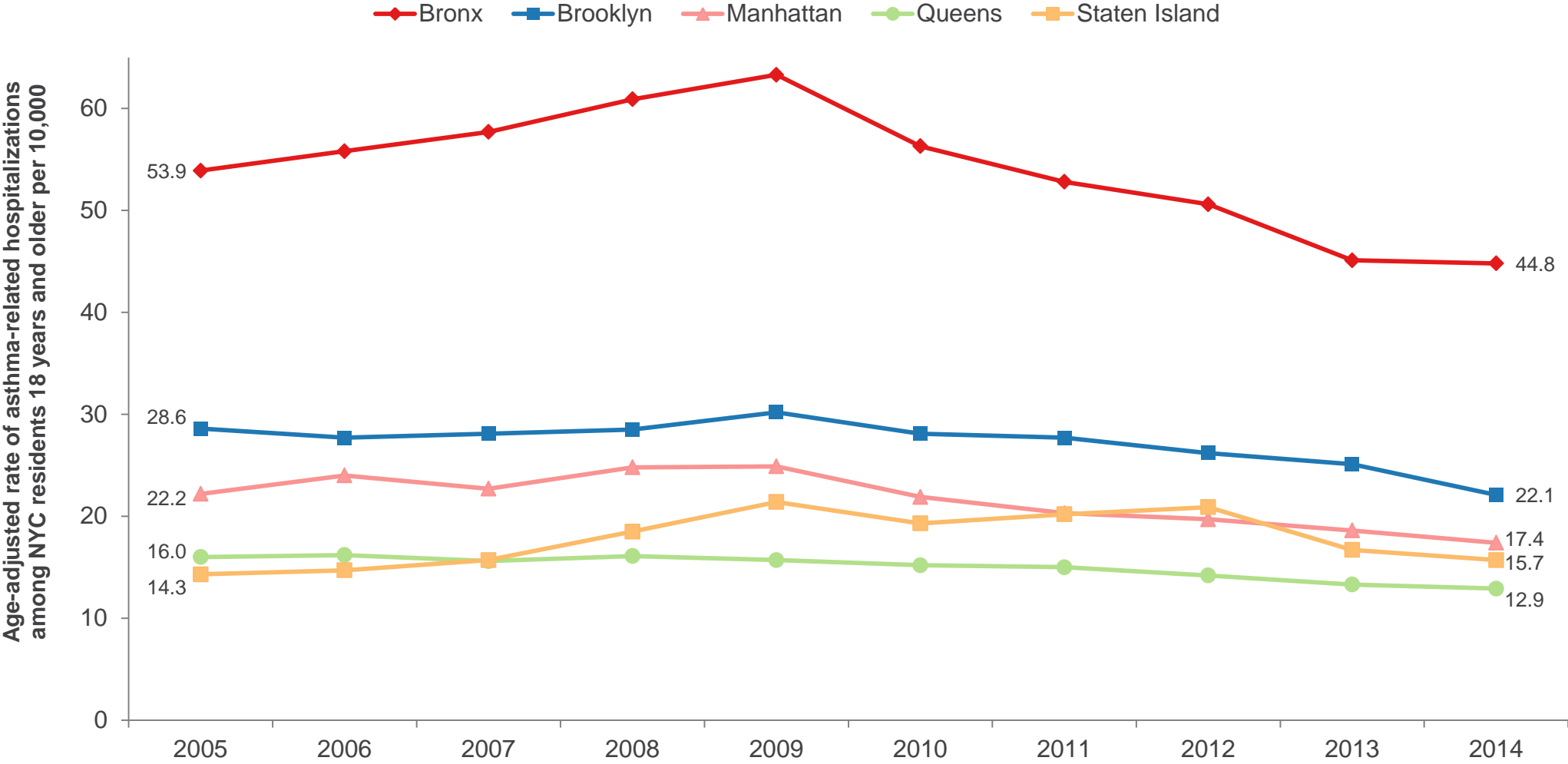
18 For 18-24 age group, data are suppressed due to imprecise and unreliable estimates.

\*Unreliable estimate due to small sample size, interpret with caution.

# Asthma-related ED visit rates among adults are almost two-times greater than the rest of NYC

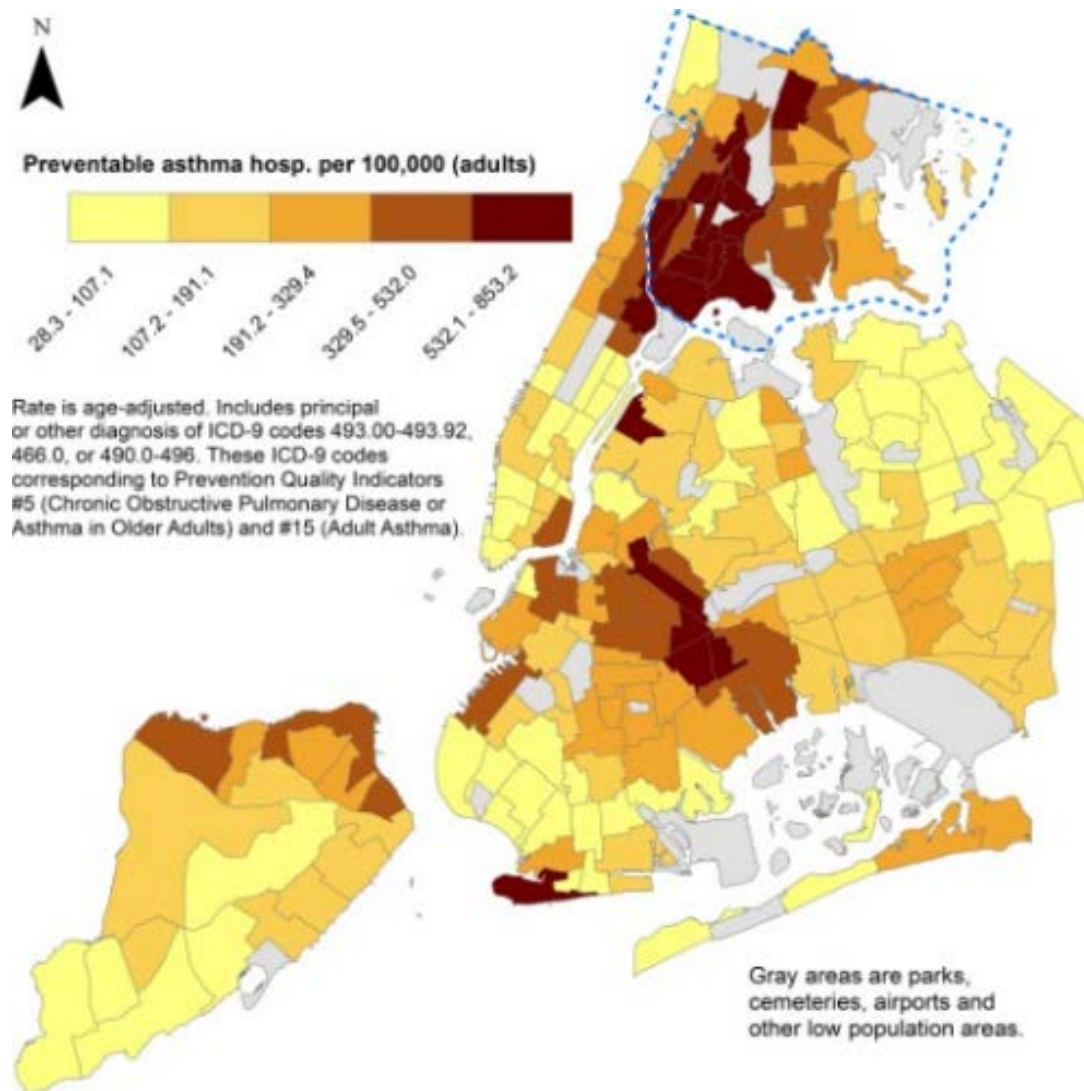


# Asthma-related hospitalization rates among adults are also considerably higher in the Bronx



Data source: SPARCS Hospital Discharge Data (2003-2014), data from New York City DOHMH Environment & Health Data Portal  
 A hospitalization is included if it has an ICD-9 principal diagnosis code of 493.

# The Bronx and Harlem have the highest rates of preventable asthma hospitalizations among NYC adults



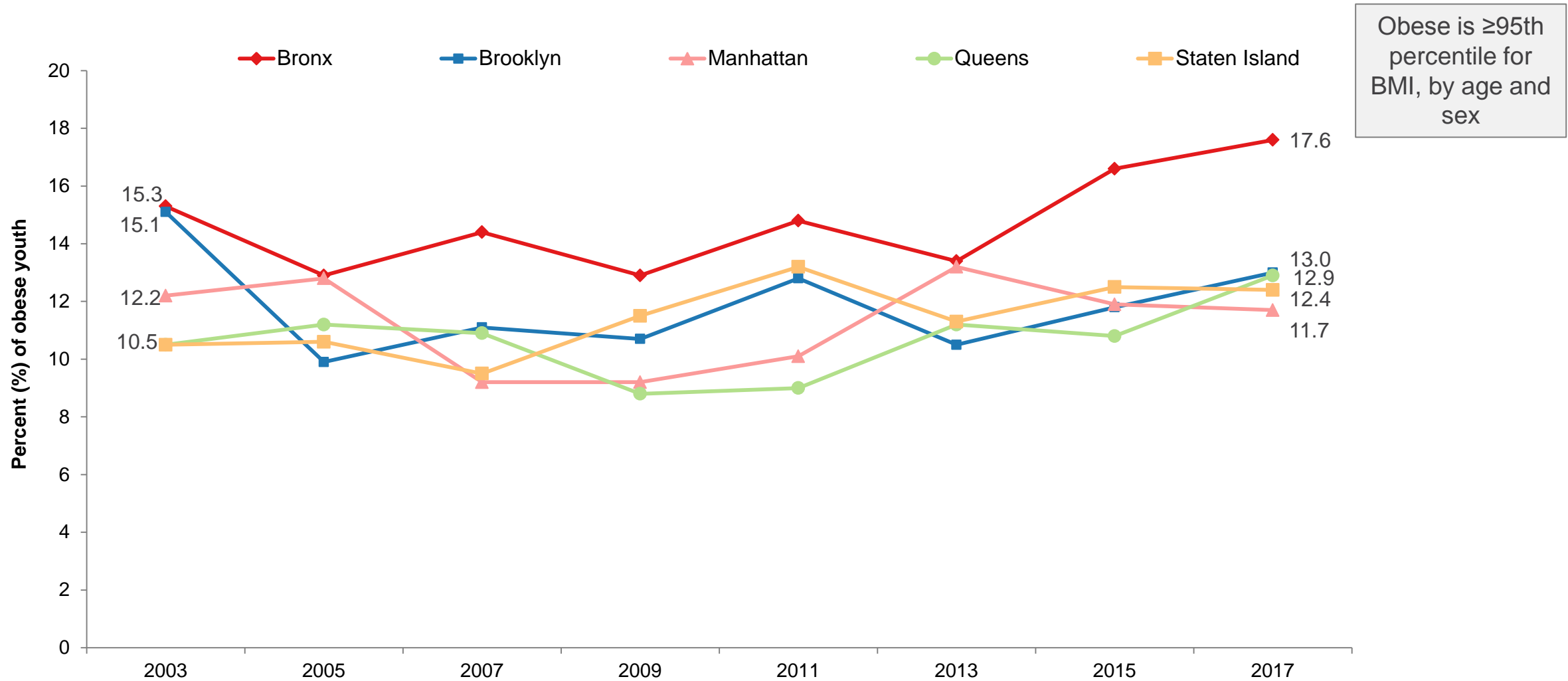
The highest rates are in these Bronx Neighborhoods

- Mott Haven-Port Morris
- Claremont-Bathgate
- Melrose South-Mott Haven North
- Longwood
- Hunts Point

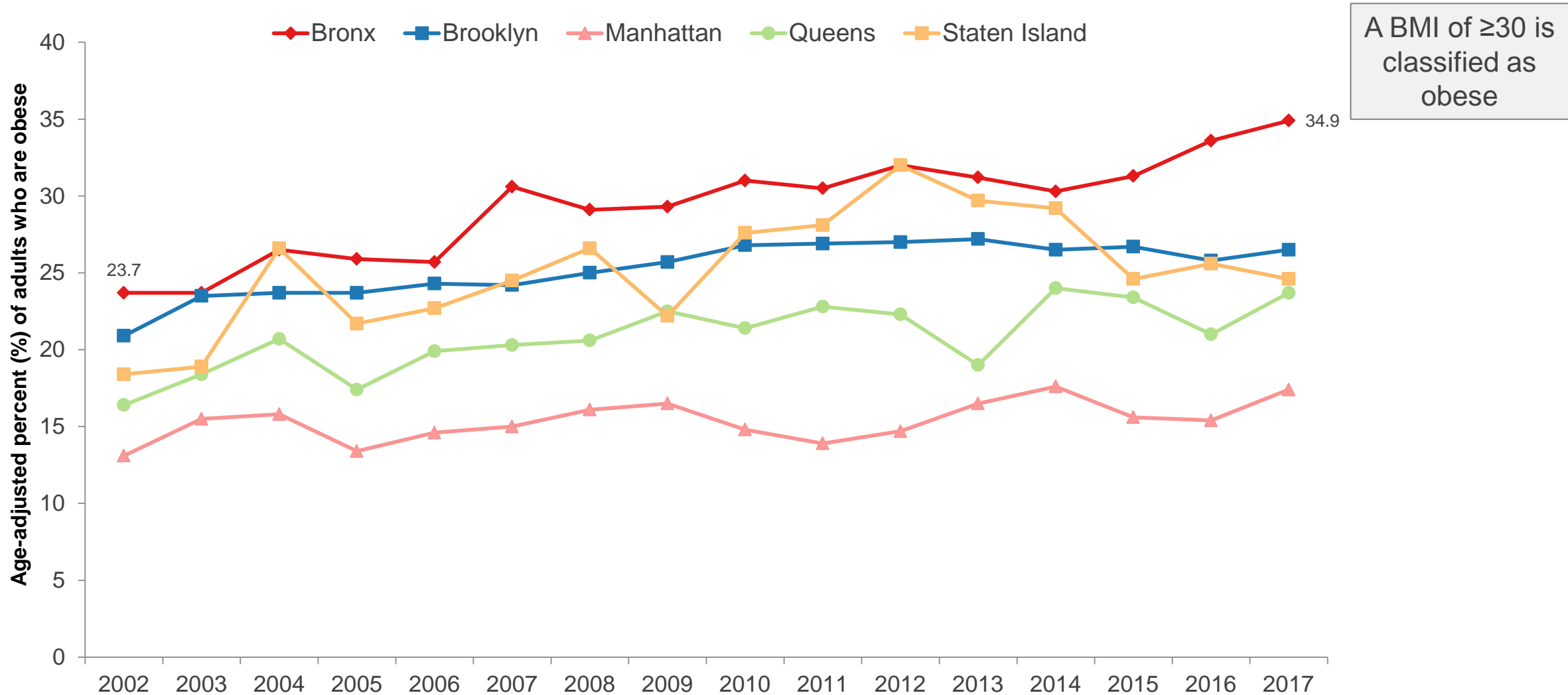
# Risk factors

Obesity | Housing quality | Smoking | Air quality

# The Bronx has the highest percentage of obese youth compared to all NYC boroughs

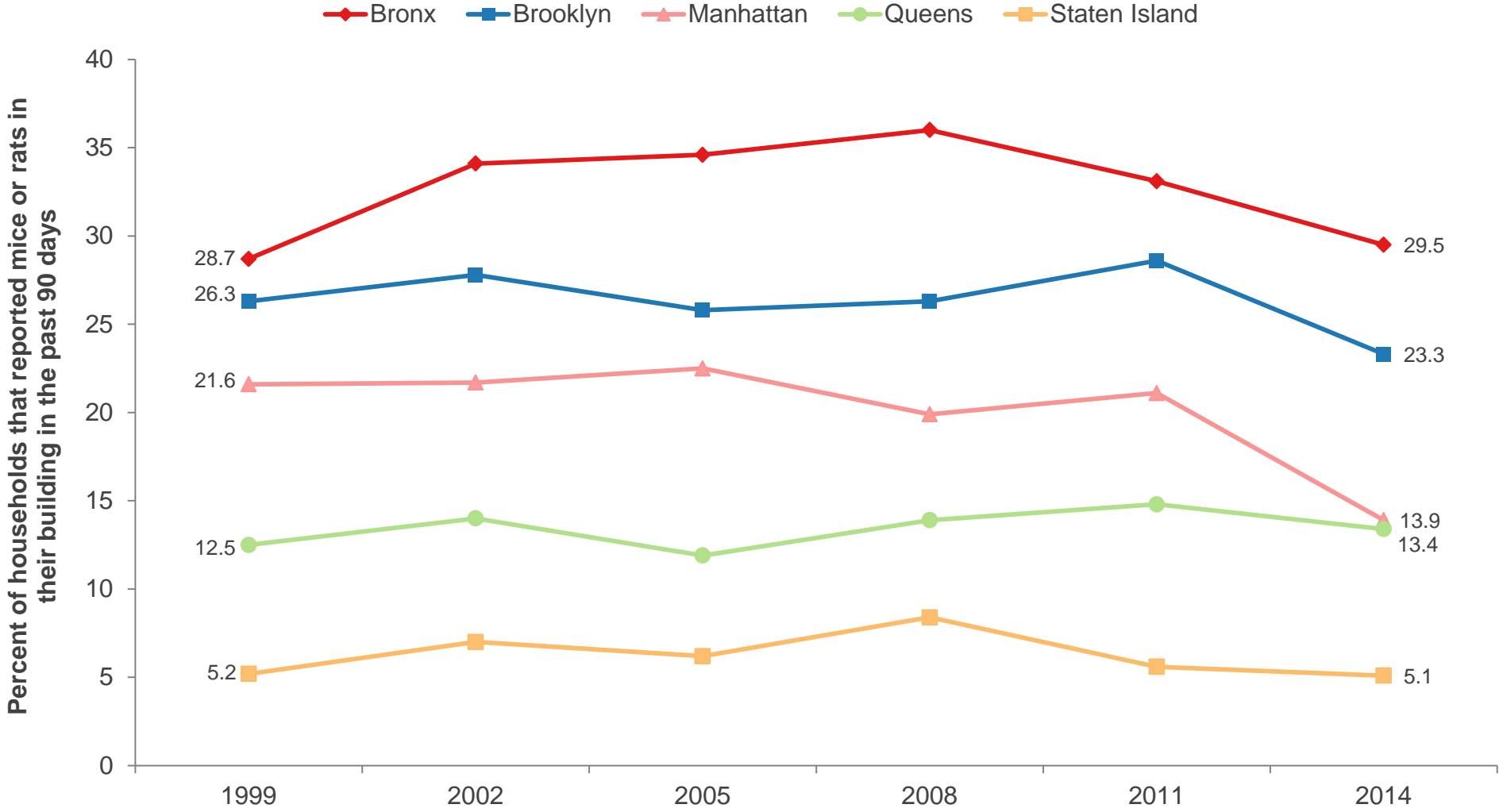


# The Bronx has the highest percentage of obese adults of all NYC boroughs



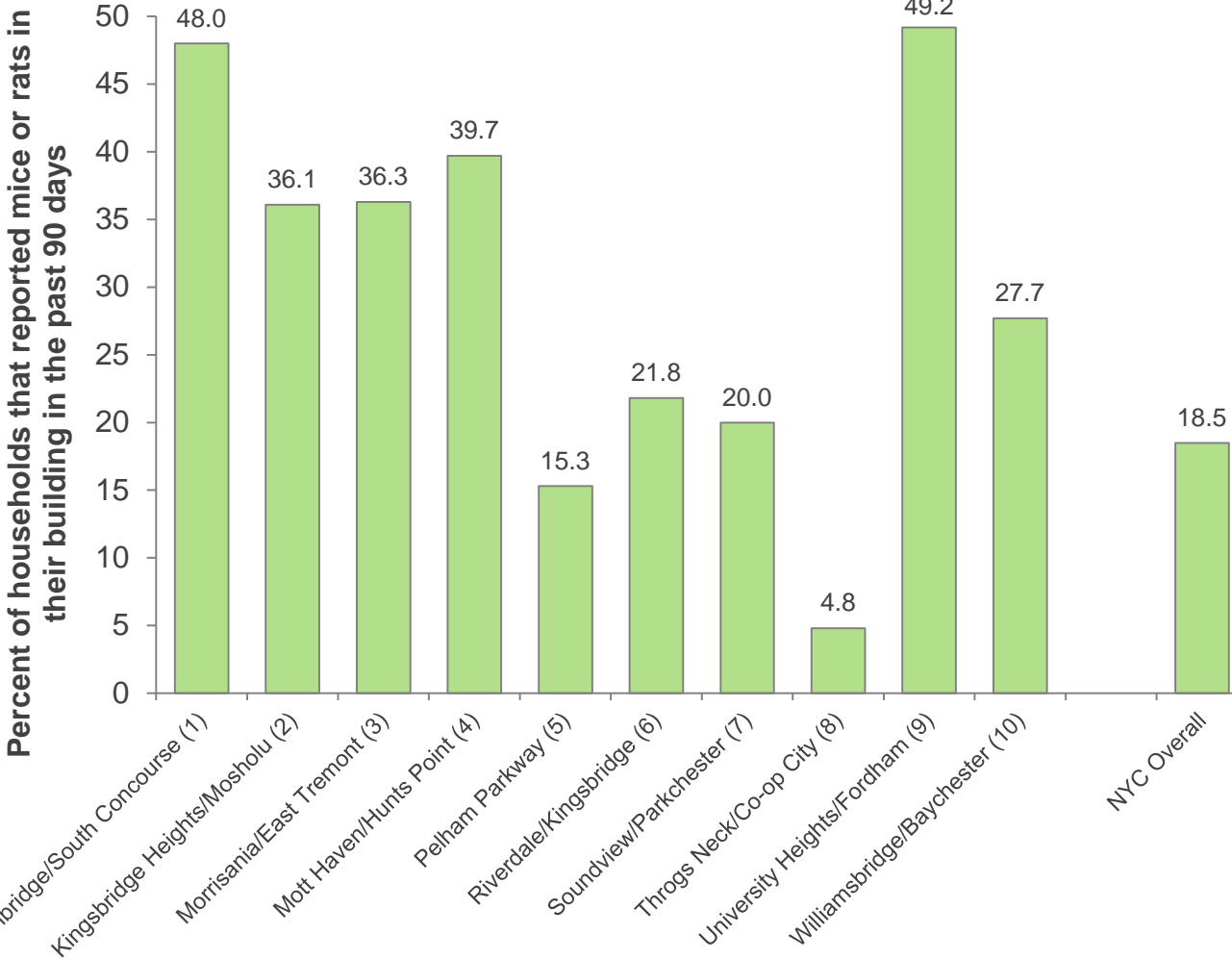
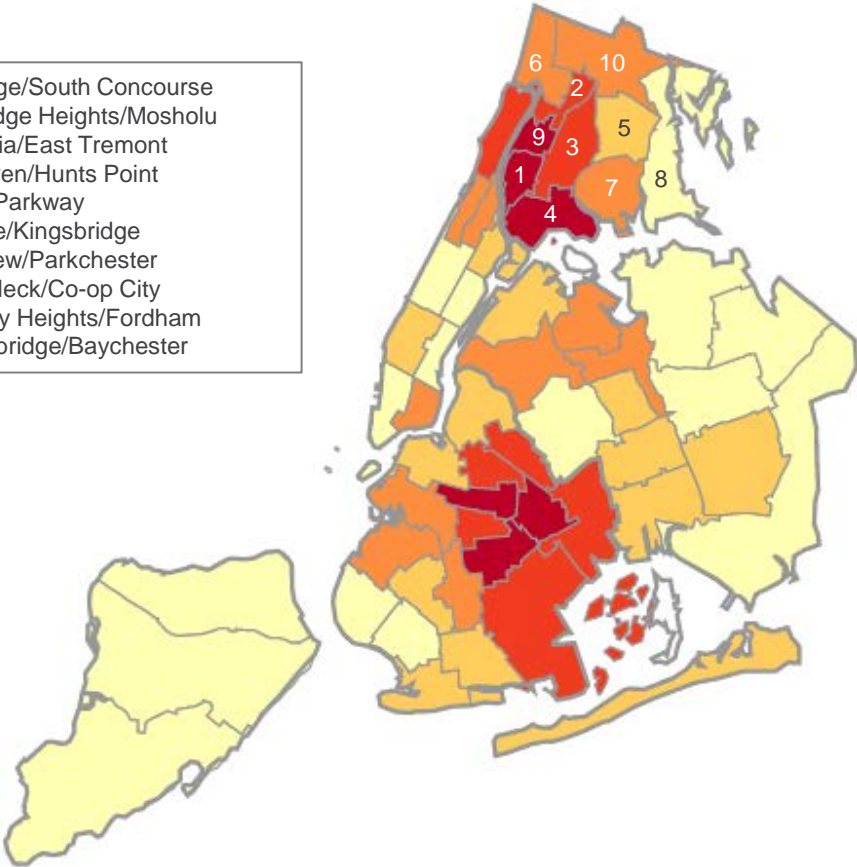


# The percent of homes with mice or rats remains highest in the Bronx

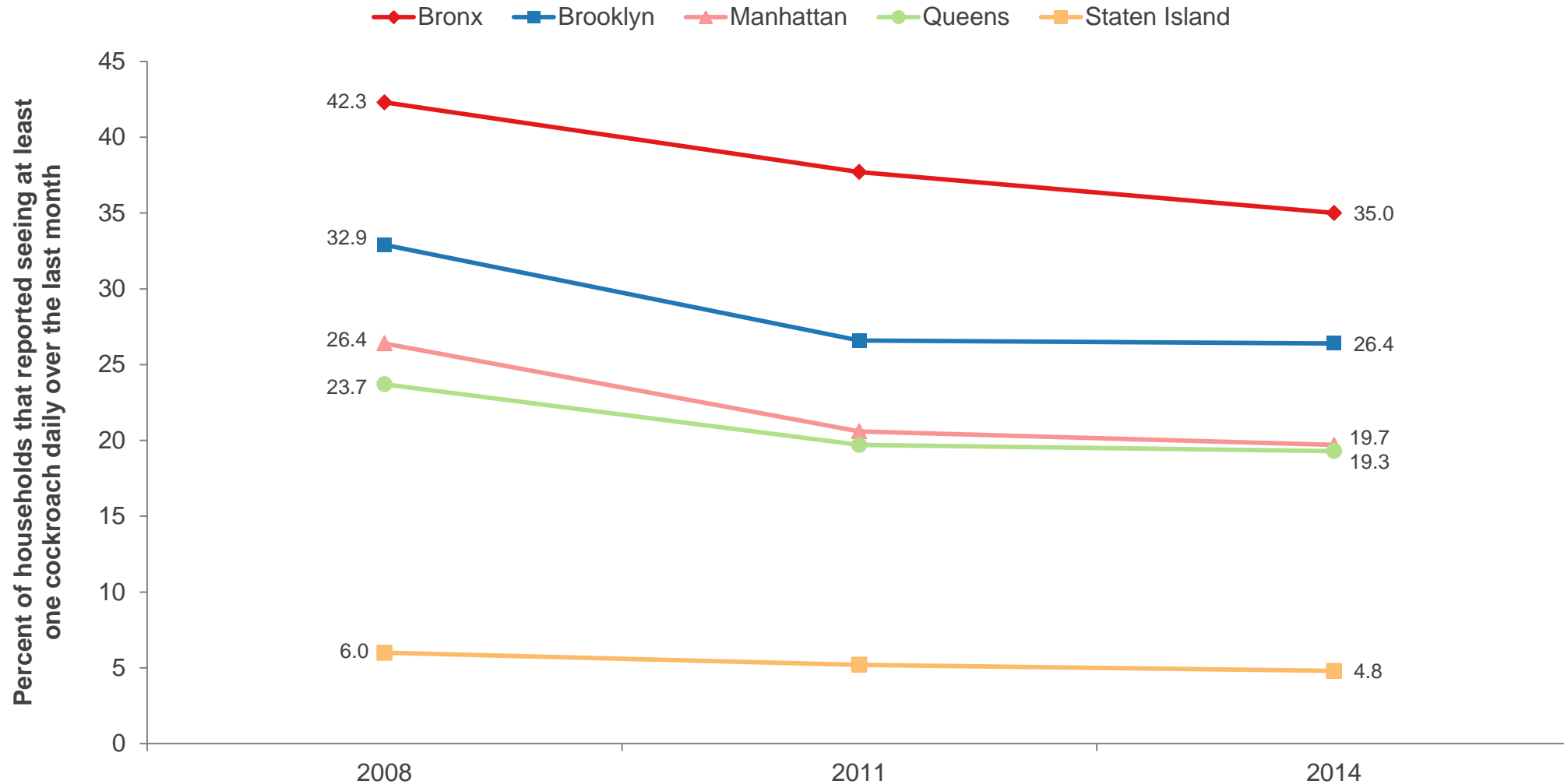


# The Bronx neighborhood with the highest percentage of homes with mice or rats in the building is University Heights/Fordham

- 1 Highbridge/South Concourse
- 2 Kingsbridge Heights/Mosholu
- 3 Morrisania/East Tremont
- 4 Mott Haven/Hunts Point
- 5 Pelham Parkway
- 6 Riverdale/Kingsbridge
- 7 Soundview/Parkchester
- 8 Throgs Neck/Co-op City
- 9 University Heights/Fordham
- 10 Williamsbridge/Baychester

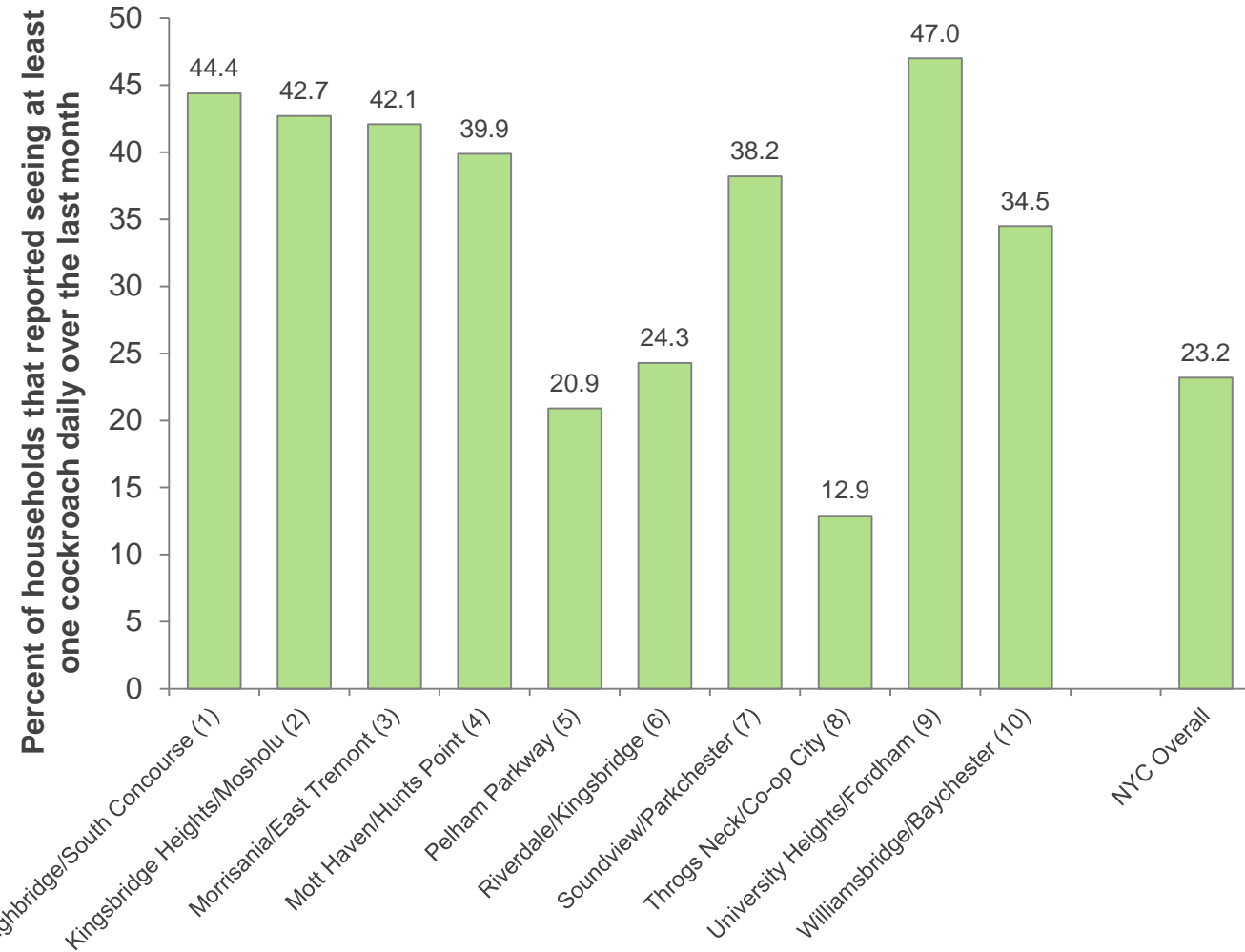
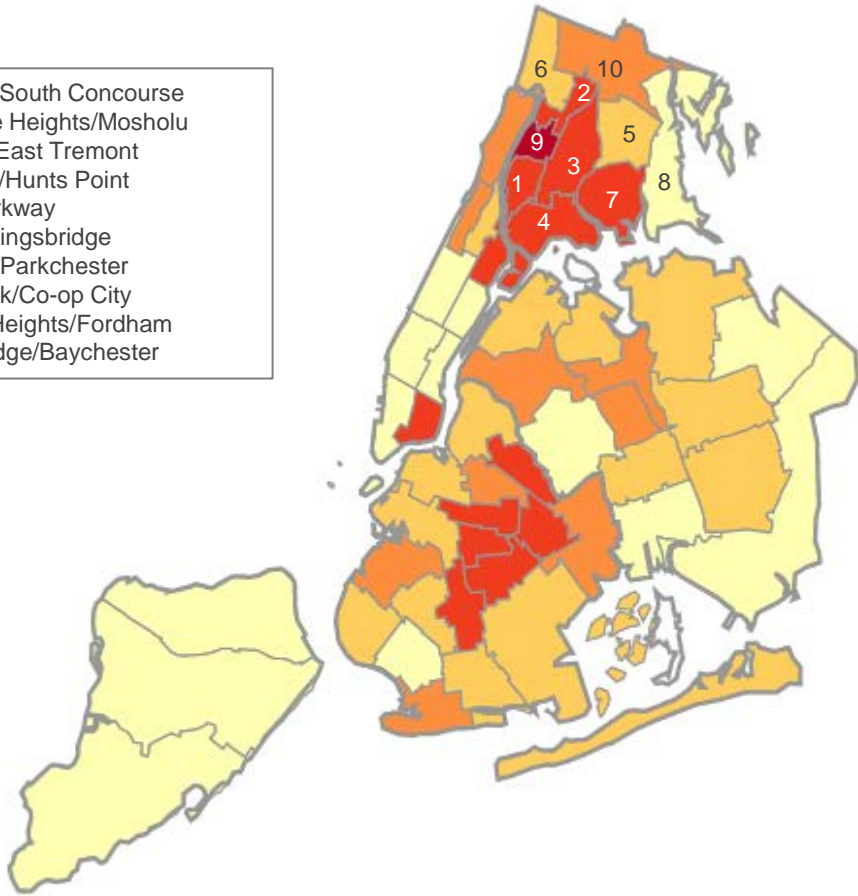


# The percent of homes with cockroaches has decreased in all 5 NYC boroughs since 2008, yet remains highest in the Bronx



# The Bronx neighborhood with the highest percentage of homes with cockroaches is University Heights/Fordham

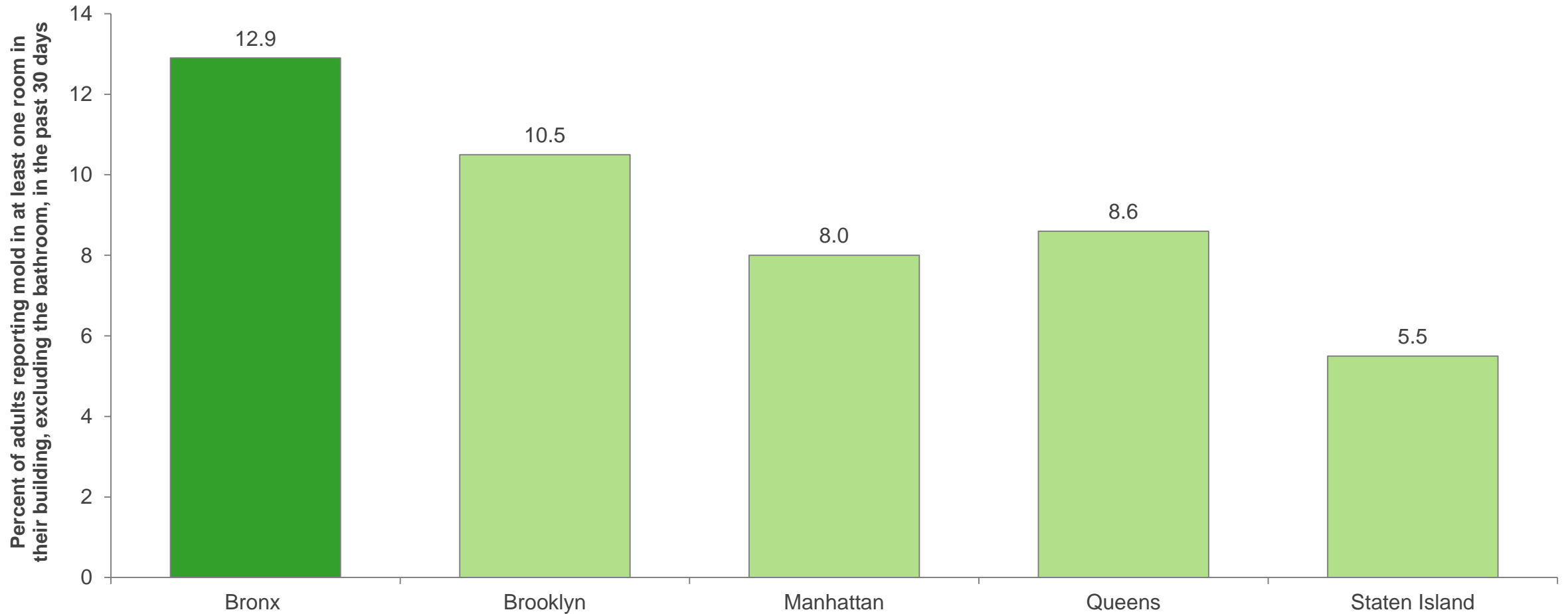
- 1 Highbridge/South Concourse
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- 4 Mott Haven/Hunts Point
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- 7 Soundview/Parkchester
- 8 Throgs Neck/Co-op City
- 9 University Heights/Fordham
- 10 Williamsbridge/Baychester



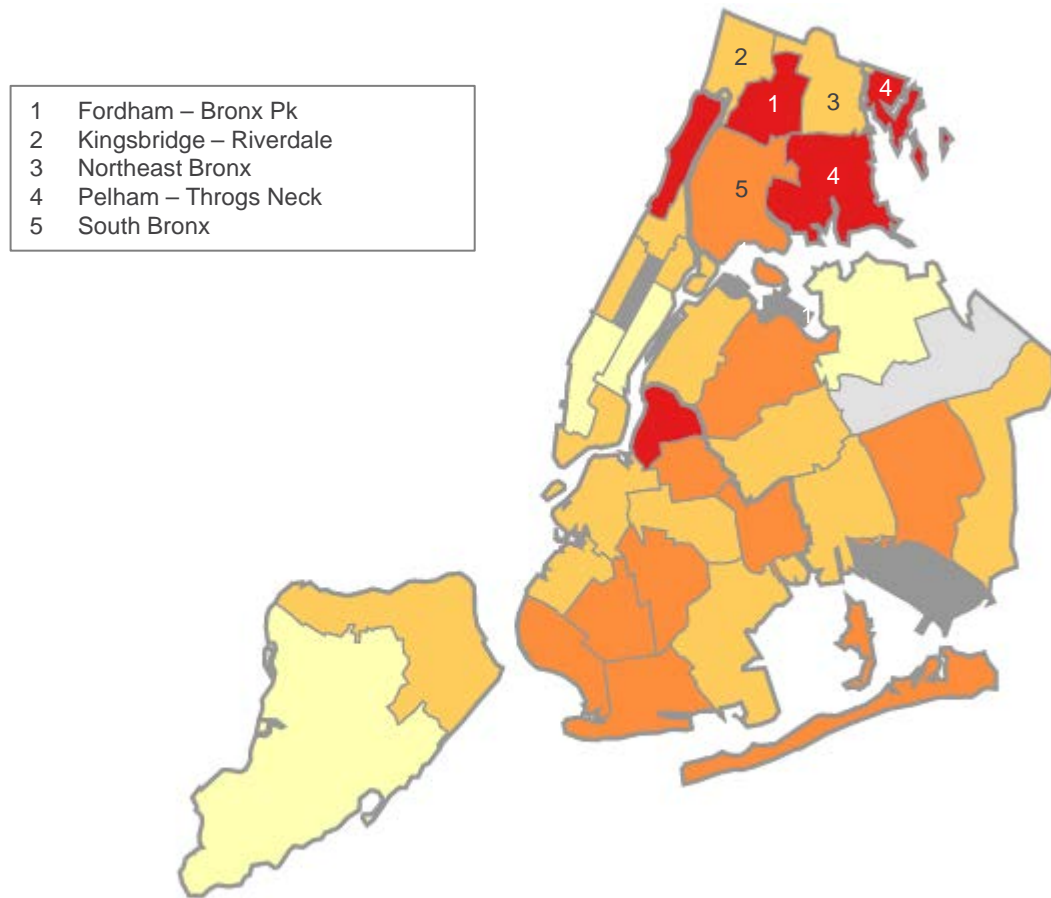
Percent, 2014



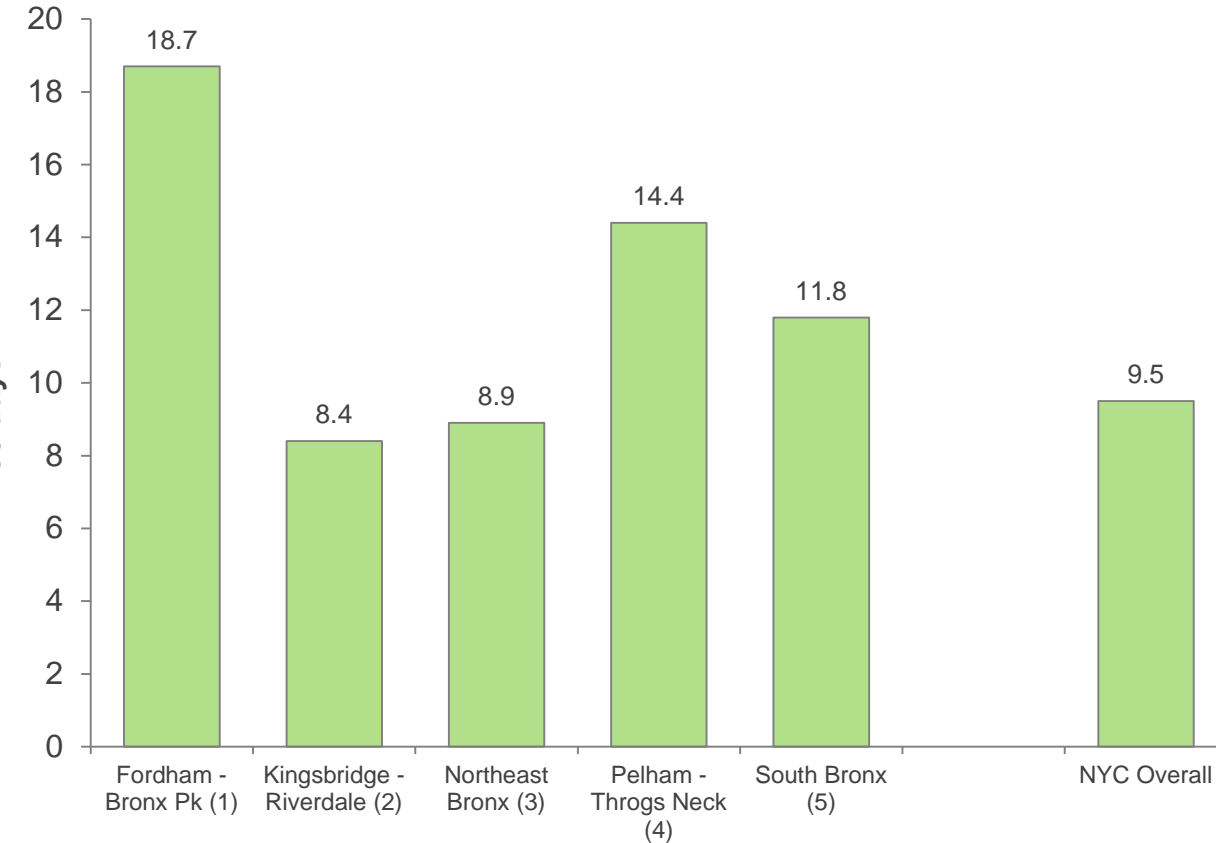
# The Bronx has the highest percentage of adults reporting mold in the home



# The Bronx neighborhood with the highest percentage of adults reporting mold in the home is Fordham – Bronx Park



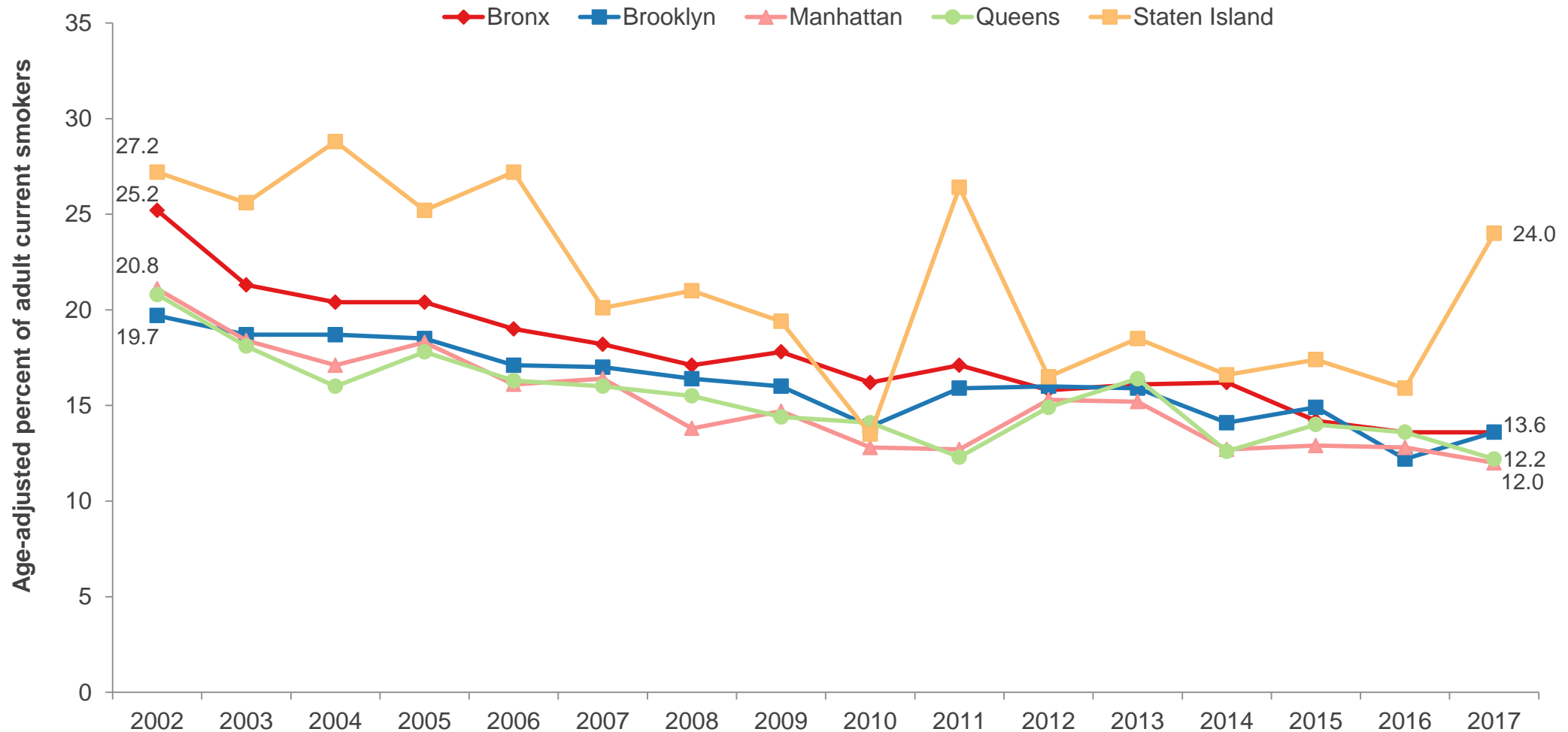
Percent of adults reporting mold in at least one room in their building, excluding the bathroom, in the past 30 days



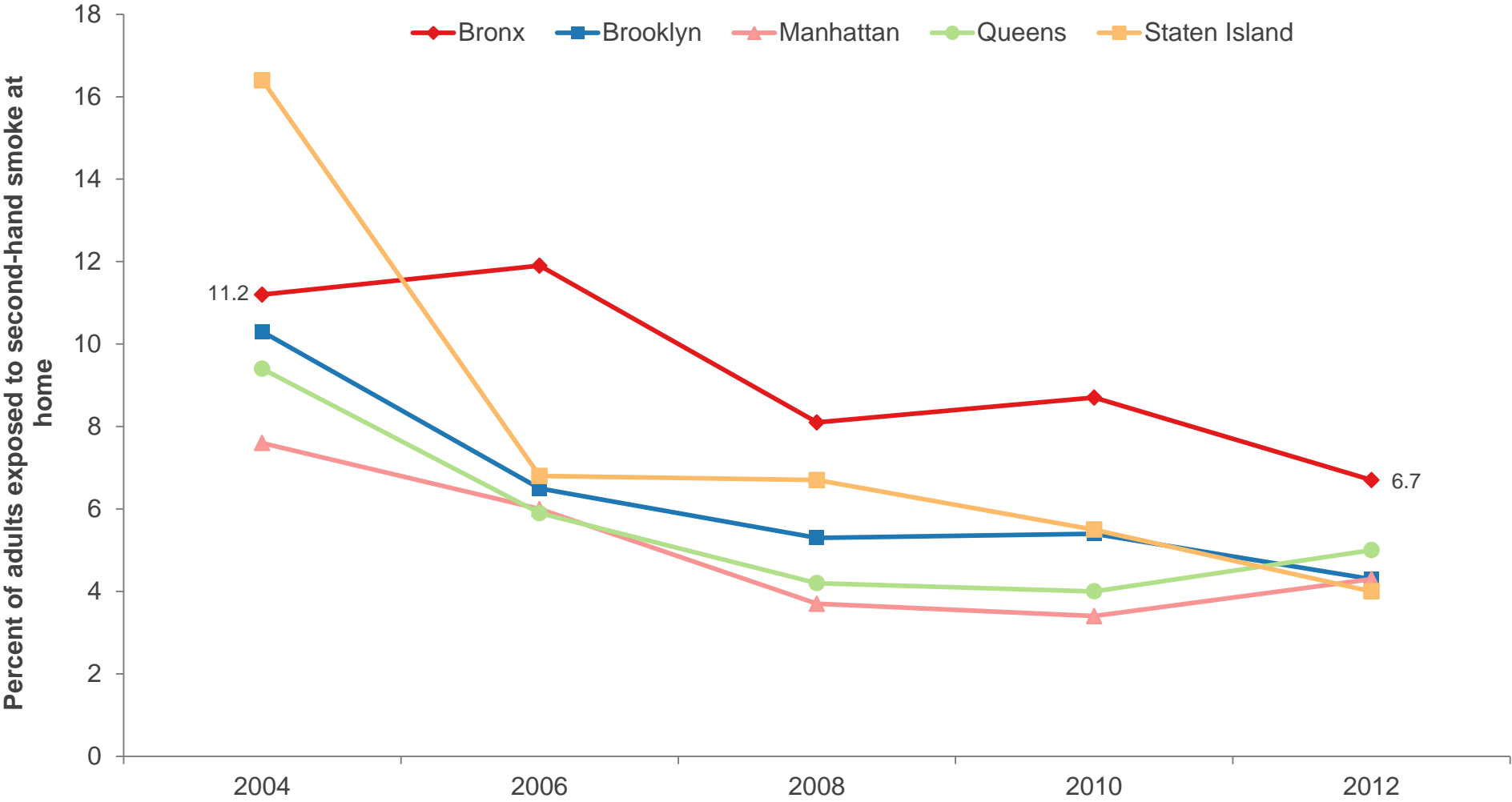
Percent, 2012



# The percent of current adult smokers across New York City has fallen since 2002, but remains highest for Staten Island

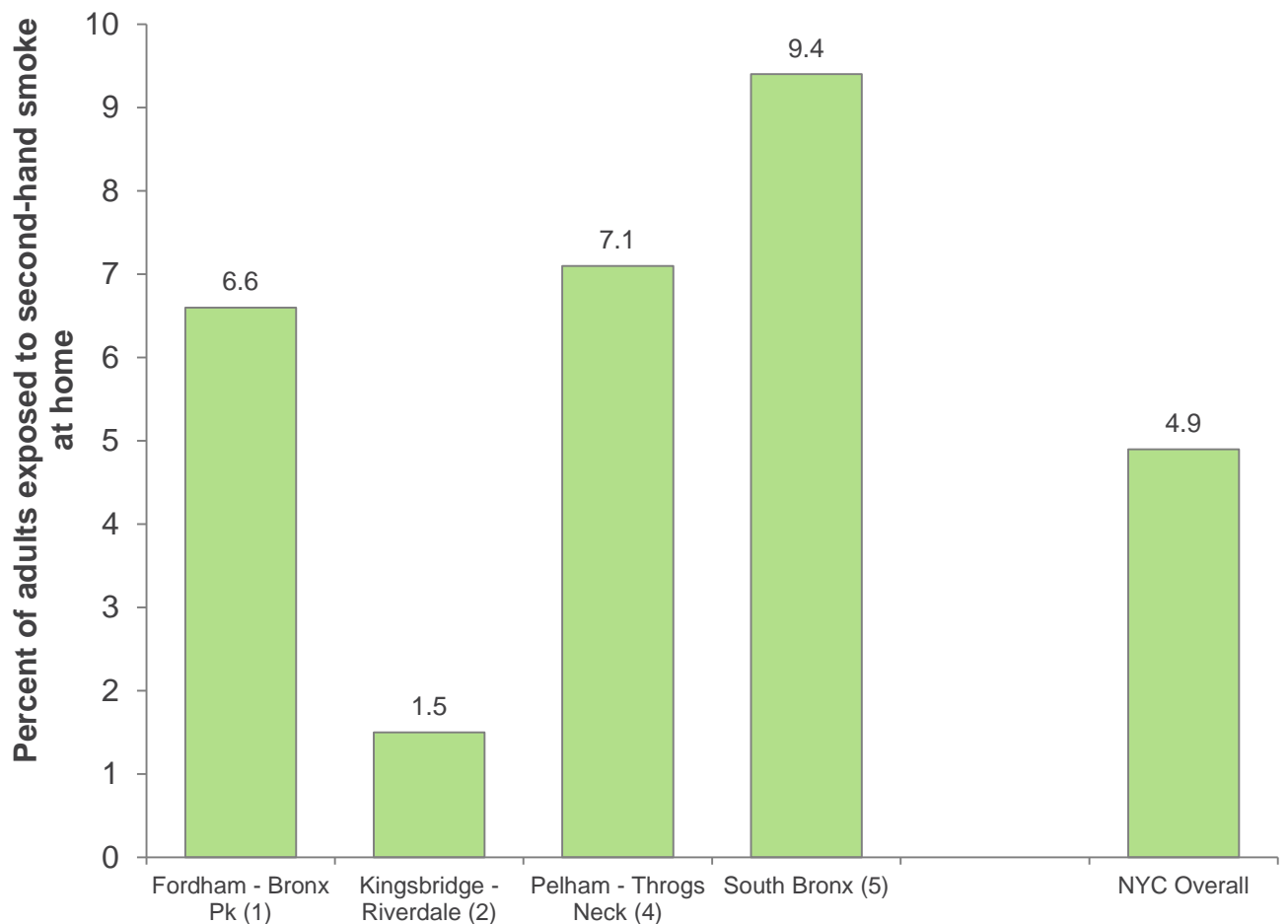
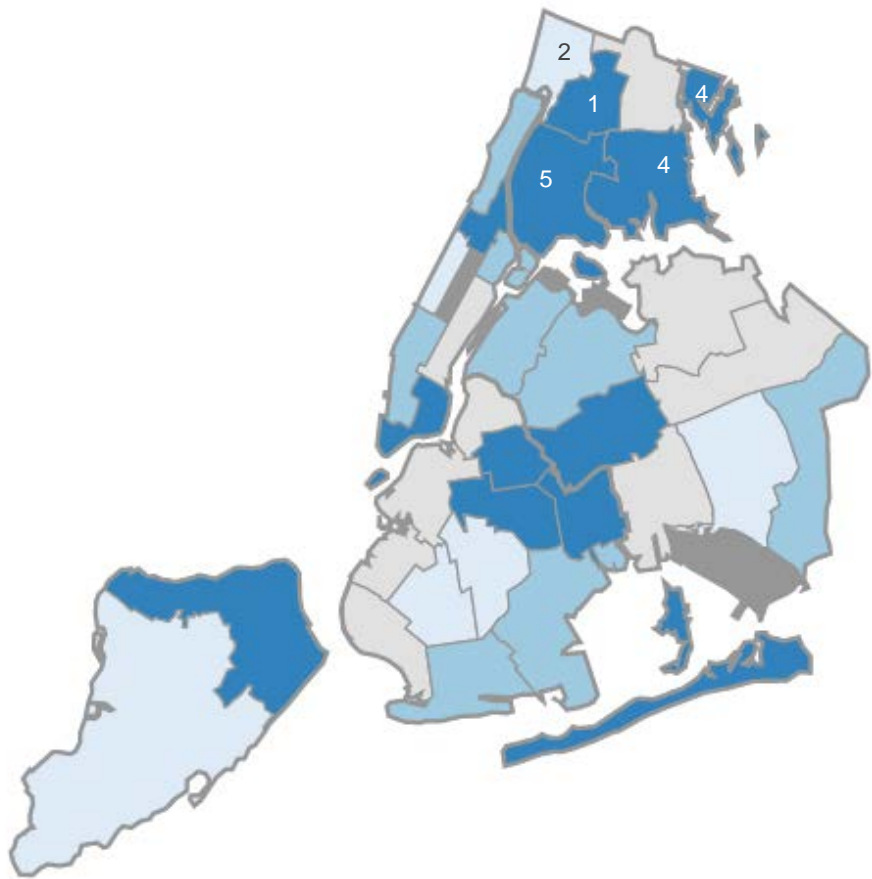


# Despite having middle of the road smoking rates, the percent of adults reporting second-hand smoke is highest in the Bronx

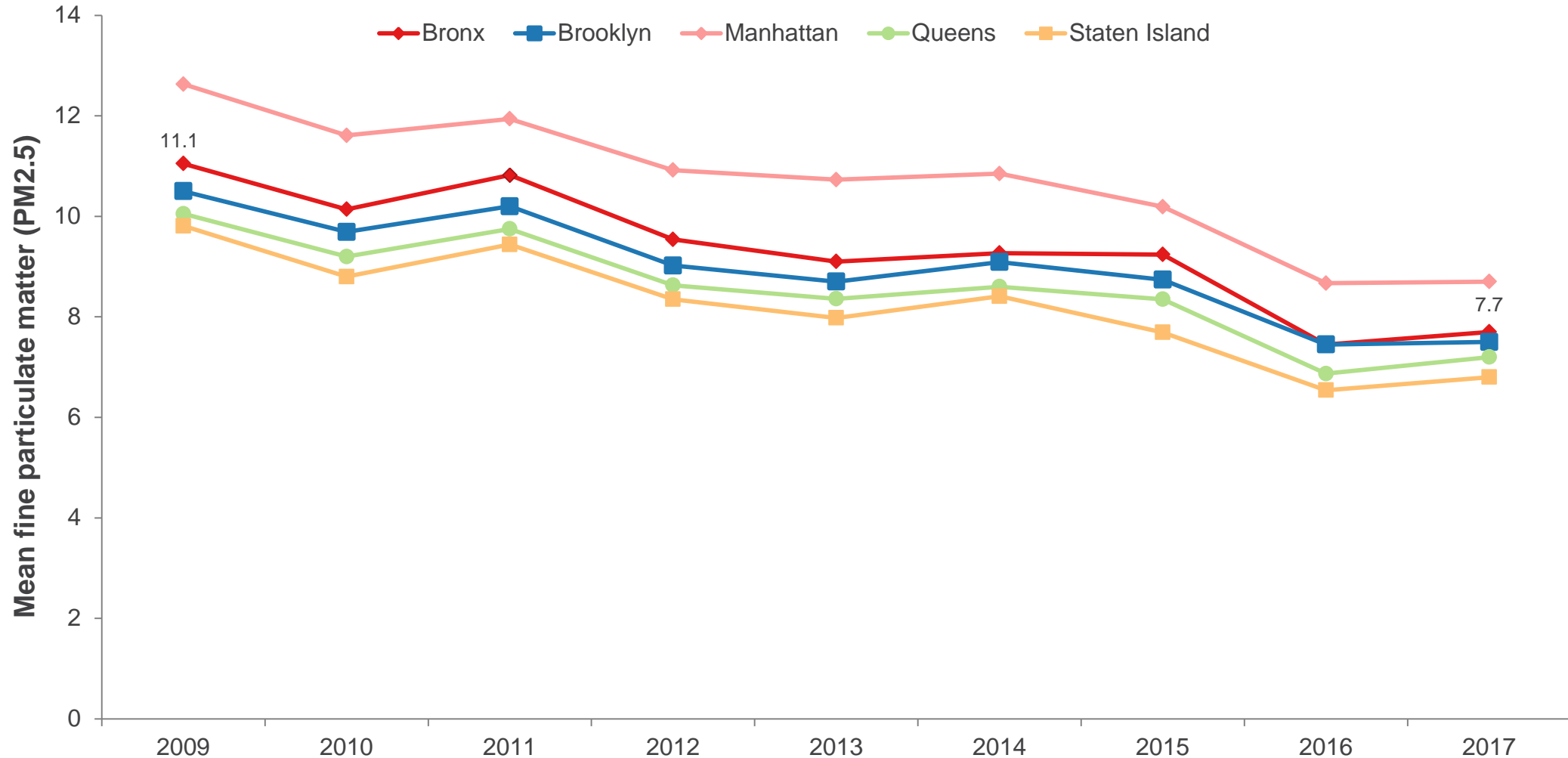




# The Bronx neighborhood with the highest percentage of adults reporting second-hand smoke in the home is South Bronx



# Fine particulate concentrations are, on average, second highest in the Bronx, although they have improved across NYC



# Potential risk factors for which there is evidence of an association with asthma, but no data available for the Bronx

- Pets (exposure to pet dander exacerbates asthma)
- Pollen (exposure to pollen exacerbates asthma)

# About the Community Health Dashboard Project

- The goal of the project is to provide Bronx-specific data on risk factors and health outcomes with an emphasis on presenting data on trends, socio-demographic differences (e.g., by age, sex, race/ethnicity, etc.) and sub-county/neighborhood level data
- Data will be periodically updated as new data becomes available.
- Produced by Montefiore's Office of Community & Population Health using publicly-available data sources
- For more information, please contact us at [OCPHDept@montefiore.org](mailto:OCPHDept@montefiore.org)

# Links to data sources

- Global Burden of Disease Project: <https://vizhub.healthdata.org/gbd-compare/>
- New York City Child Health, Emotional Wellness and Development Survey: <https://a816-healthpsi.nyc.gov/epiquery/Child/CCHSIndex.html>
- New York City Community Health Survey: <https://a816-healthpsi.nyc.gov/epiquery/CHS/CHSXIndex.html>
- New York City Youth Risk Behavior Survey: <https://a816-healthpsi.nyc.gov/epiquery/YRBS/yrbsIndex.html>
- New York City Environment & Health Data Portal: <http://a816-dohbsp.nyc.gov/IndicatorPublic/publictracking.aspx>
- New York City Neighborhood Health Atlas: <https://public.tableau.com/profile/nyc.health#!/vizhome/NewYorkCityNeighborhoodHealthAtlas/Home>