Health and Housing in New York City

NYC Housing Conditions, Health Problems, and Data Resources

Slavenka Sedlar, MA
Senior Research Scientist
NYC DOHMH



What I Will Cover Today:

- Housing Quality Indicators
- Housing-related Health Outcomes
- Relationship between Housing and Health
- Data Sources on Housing and Health Indicators



Housing Quality and Health

- Inadequate and unhealthy housing contributes to chronic (e.g. asthma) and infectious diseases as well as to injuries and poisoning (e.g. lead poisoning)
- Here we define housing as inadequate and unhealthy if it has characteristics that may negatively affect health of its occupants, e.g.:
 - Dilapidated housing
 - Cracks and holes
 - Evidence of leaks
 - Maintenance deficiencies
 - Built pre-1950s
 - Evidence of cockroaches, mice or rats
 - Presence of second hand smoke

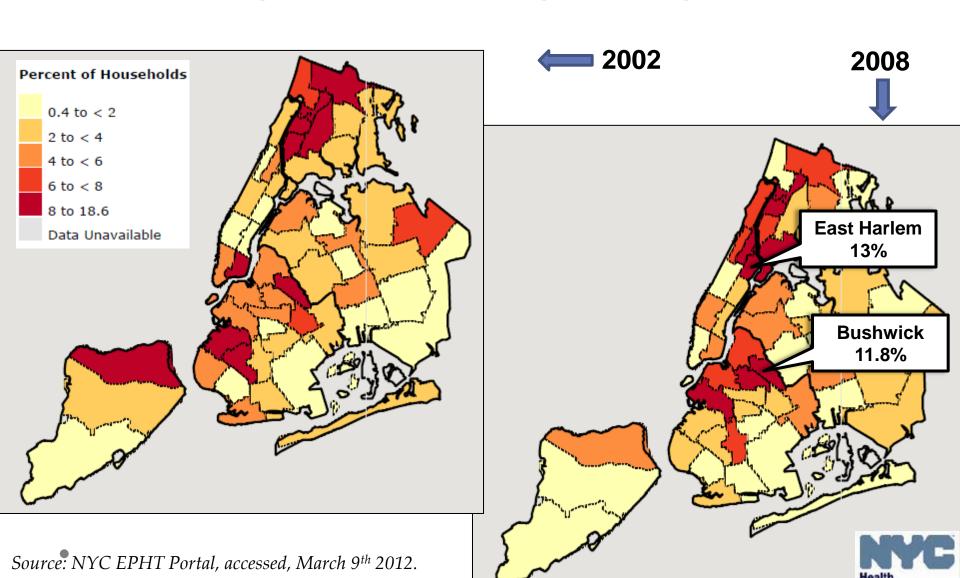


Housing Quality Indicators



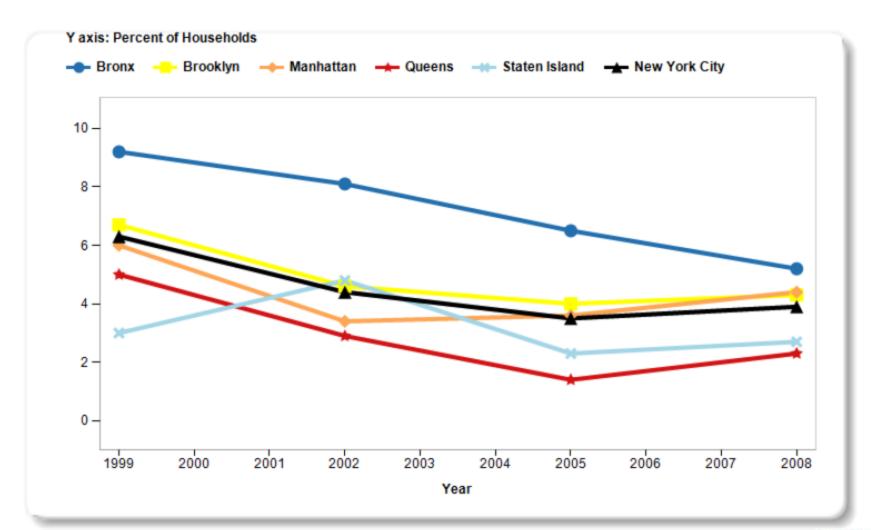
Severity of Problems Vary by Neighborhood: Some Improvements, Some Deterioration, and Pockets of Persistence

Housing Quality Indicator:
Percentage of Dilapidated Buildings in the Neighborhood



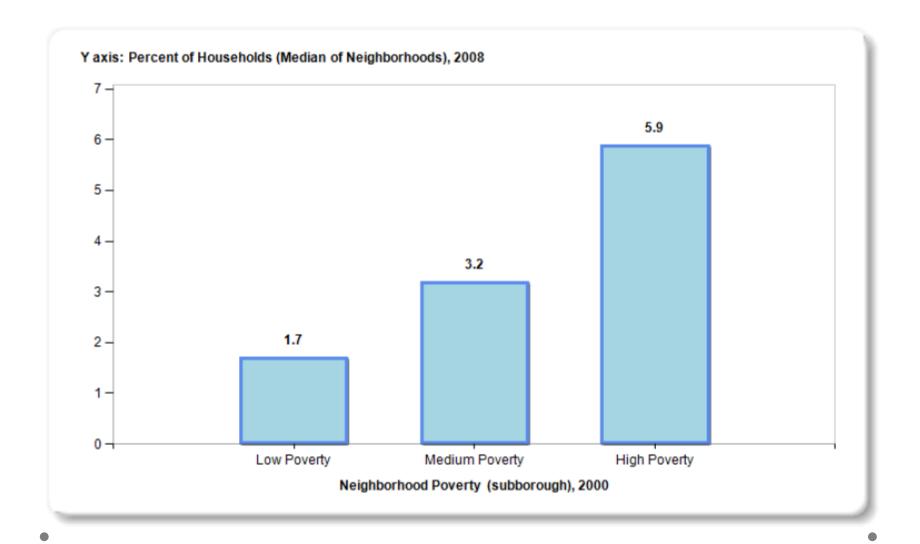
Change Over Time?

Housing Quality Indicator: Percentage of Dilapidated Buildings by Borough by Year



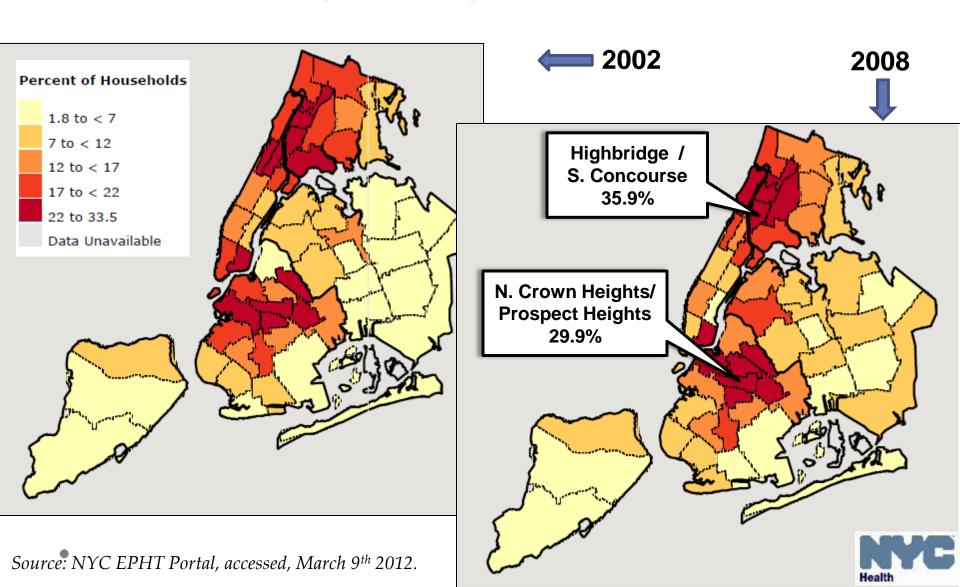


Housing Quality Indicator: Percentage of Dilapidated Buildings by Neighborhood Poverty, 2008



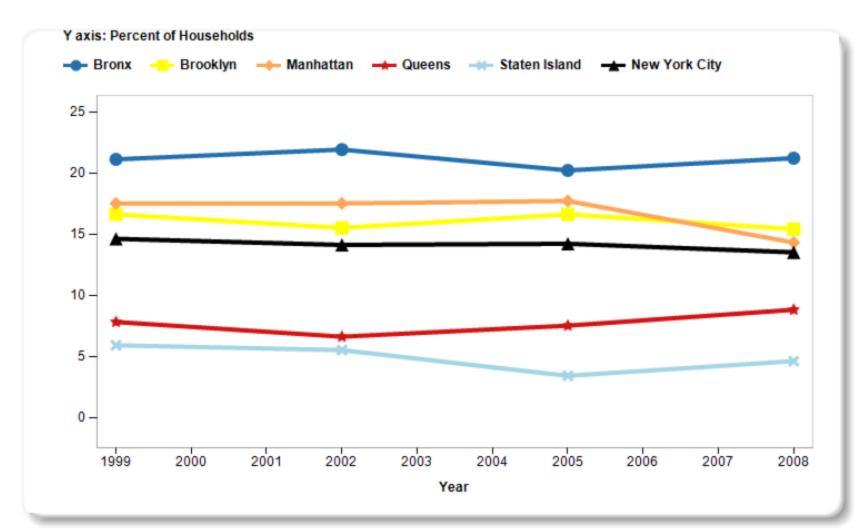
Severity of Problems Vary by Neighborhood: Some Improvements, Some Deterioration, and Pockets of Persistence

Housing Quality Indicator:
Percentage of Housing with Cracks and Holes



Change Over Time?

Housing Quality Indicator: Percentage of Housing with Cracks and Holes by Borough by Year





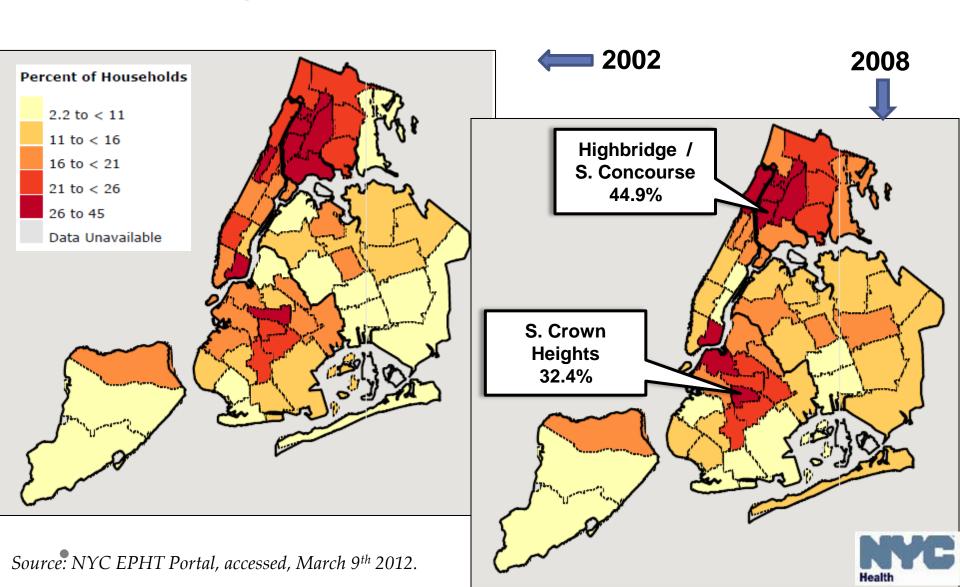
Housing Quality Indicator:
Percentage of Housing with Cracks and Holes by neighborhood Poverty, 2008





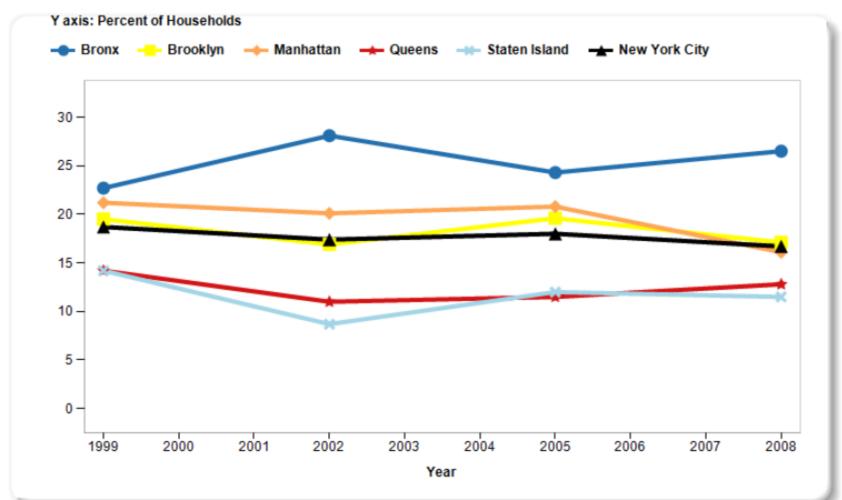
Severity of Problems Vary by Neighborhood: Some Improvements, Some Deterioration, and Pockets of Persistence

Housing Quality Indicator:
Percentage of Households with Leaks from Outside the Unit



Change Over Time?

Housing Quality Indicator: Percentage of Households with Leaks from Outside the Unit By Borough by Year

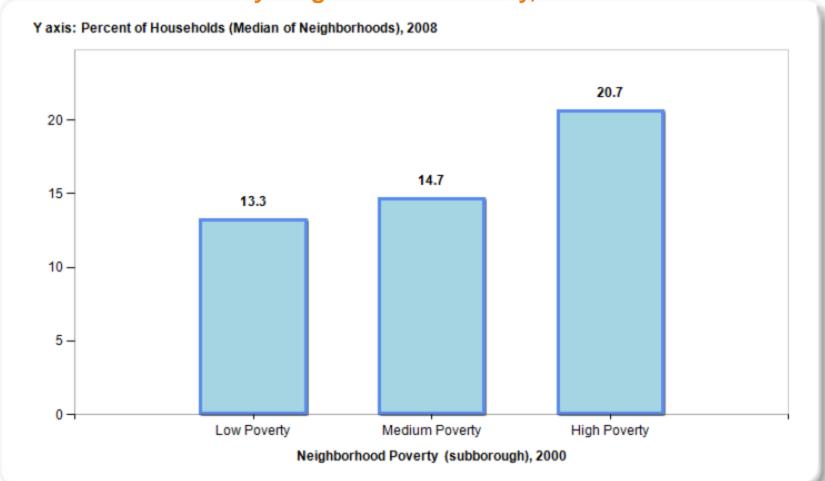




Housing Quality Indicator:

Percentage of Households with Leaks from Outside the Unit

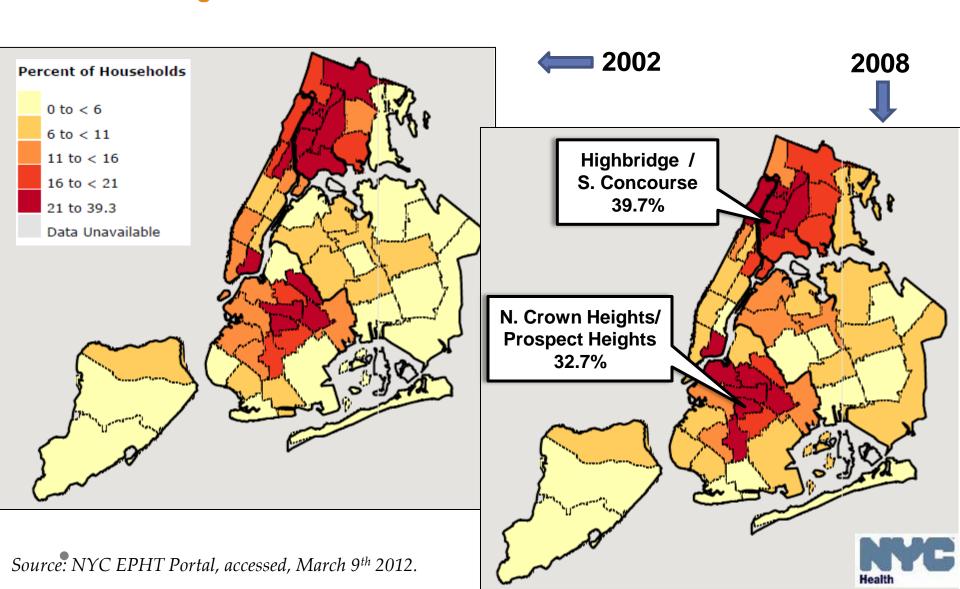
By Neighborhood Poverty, 2008





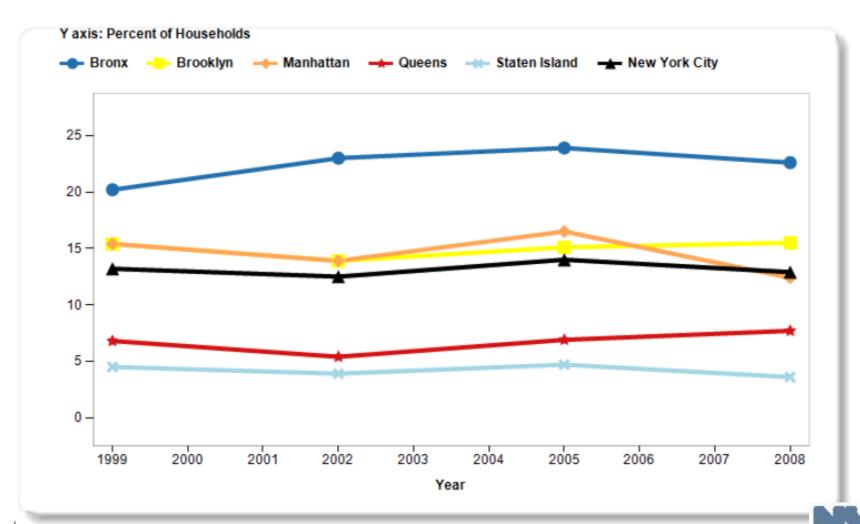
Severity of Problems Vary by Neighborhood: Some Improvements, Some Deterioration, and Pockets of Persistence

Housing Quality Indicator:
Percentage of Households with 3 or More Maintenance Deficiencies



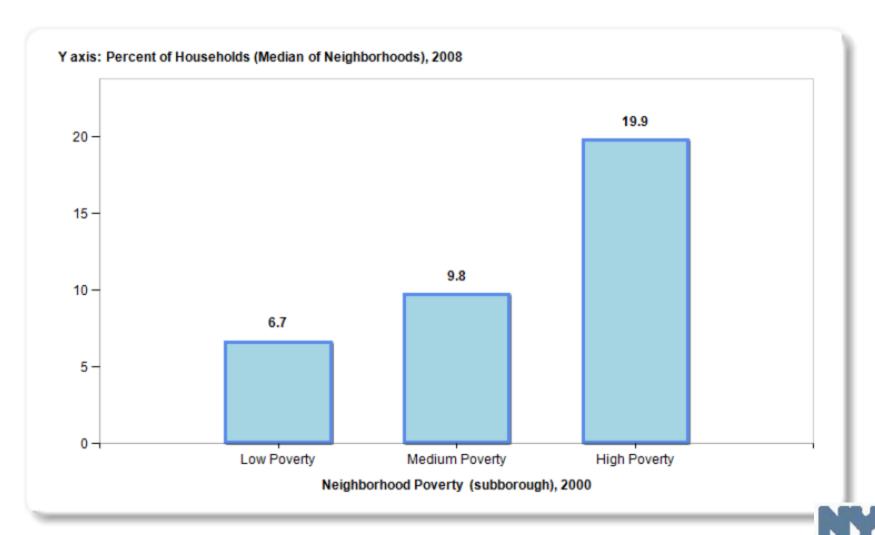
Change Over Time?

Housing Quality Indicator: Percentage of Households with 3 or More Maintenance Deficiencies By Borough by Year



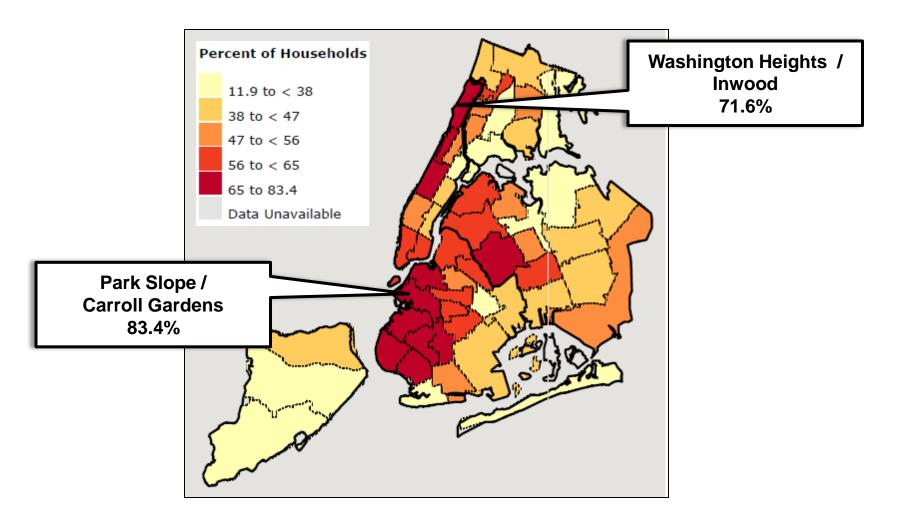
Health

Housing Quality Indicator: Percentage of Households with 3 or More Maintenance Deficiencies By Neighborhood Poverty, 2008



Severity of Problems Vary by Neighborhood

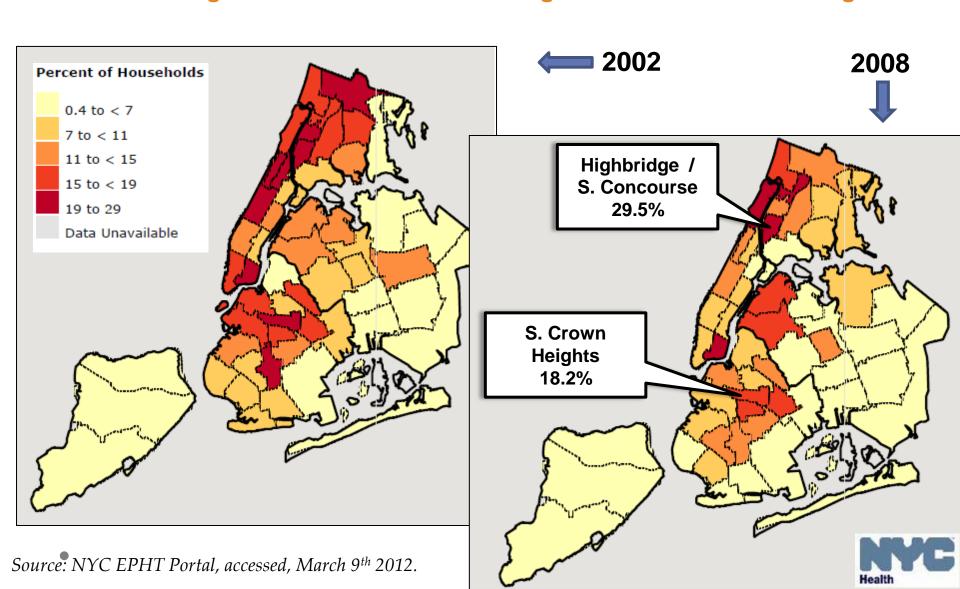
Housing Quality Indicator: Percentage of Pre-1950 Housing, 2000





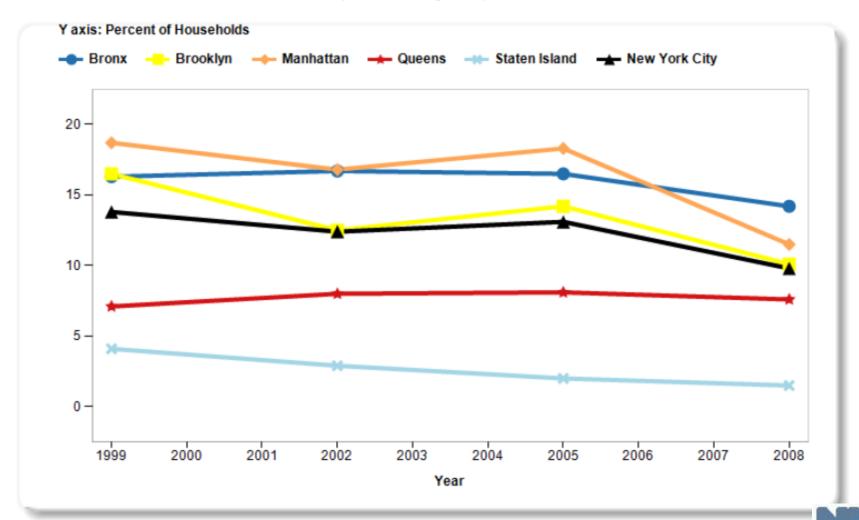
Severity of Problems Vary by Neighborhood: Some Improvements, Some Deterioration, and Pockets of Persistence

Housing Quality Indicator:
Percentage of Households with Peeling Paint in Pre 1960 Building

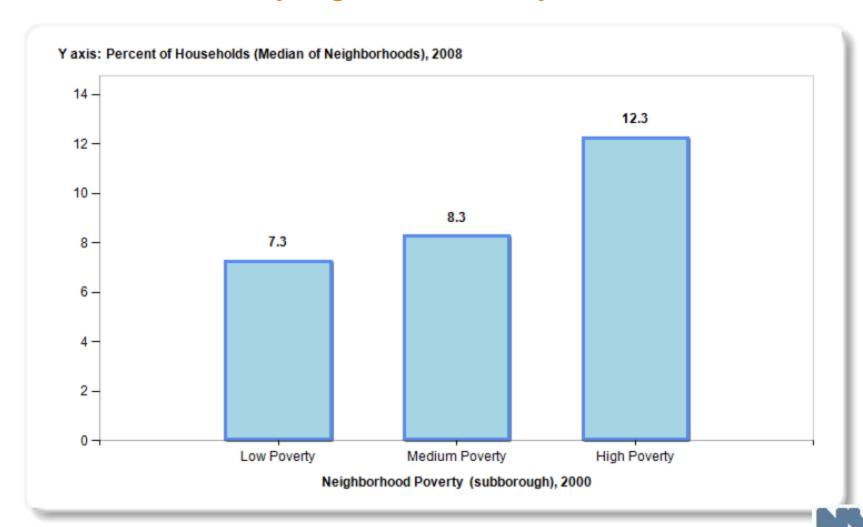


Change Over Time?

Housing Quality Indicator: Percentage of Households with Peeling Paint in Pre 1960 Building By Borough by Year

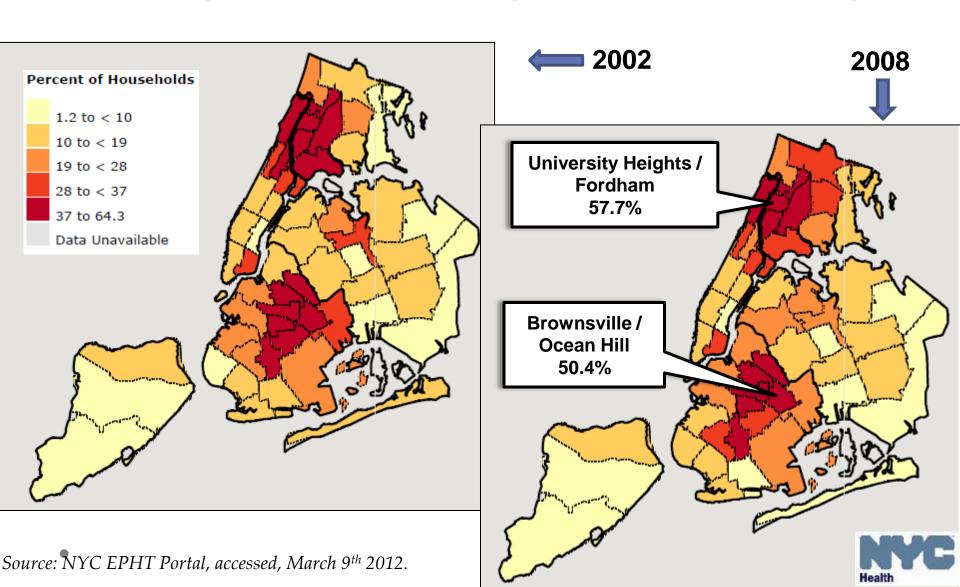


Housing Quality Indicator: Percentage of Households with Peeling Paint in Pre 1960 Building By neighborhood Poverty, 2008



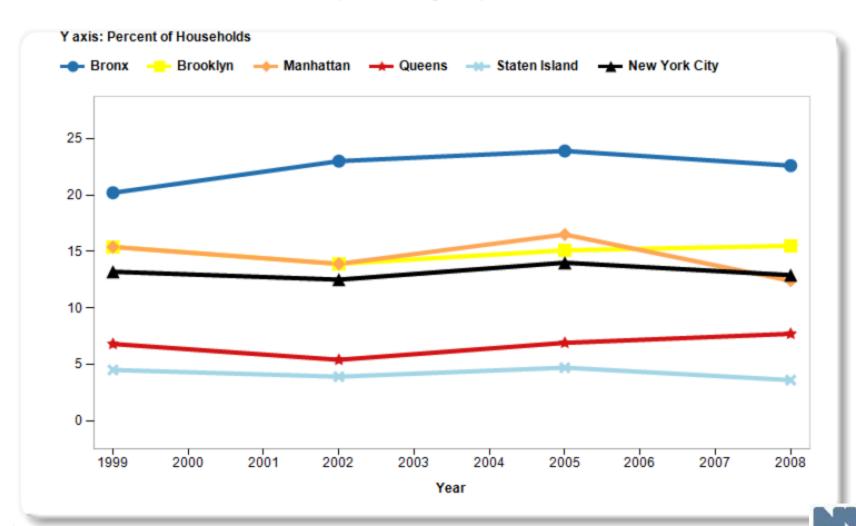
Severity of Problems Vary by Neighborhood: Some Improvements, Some Deterioration, and Pockets of Persistence

Housing Quality Indicator:
Percentage of Households Reporting Mice or Rats in their Building



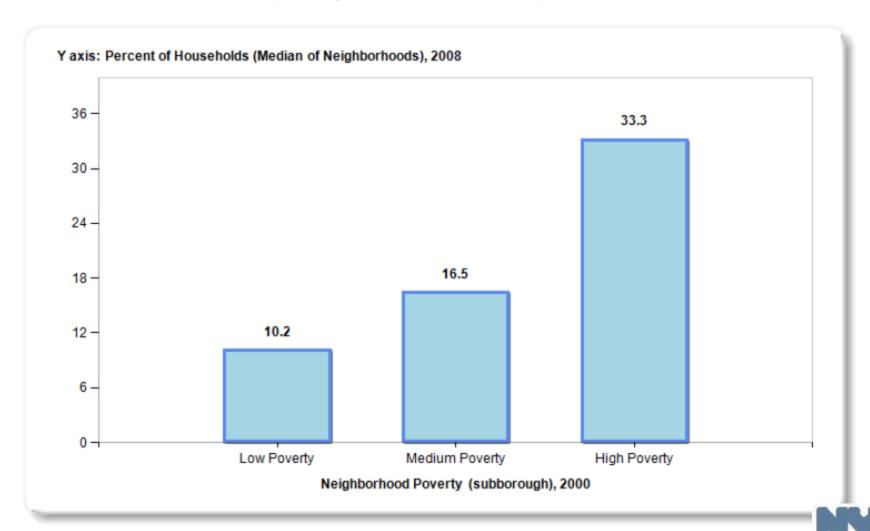
Change Over Time?

Housing Quality Indicator: Percentage of Households Reporting Mice or Rats in their Building By Borough by Year



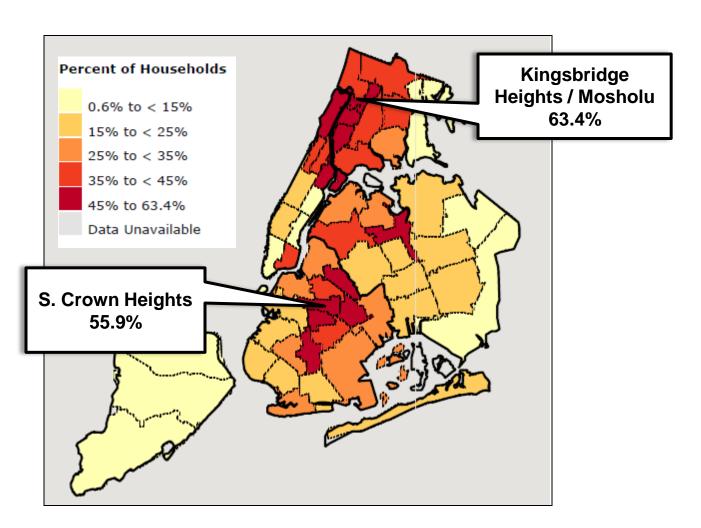
Health

Housing Quality Indicator: Percentage of Households Reporting Mice or Rats in their Building By neighborhood Poverty, 2008



Severity of Problems Vary by Neighborhood

Housing Quality Indicator:
Percentage of Households Reporting Seeing Cockroaches Daily, 2008



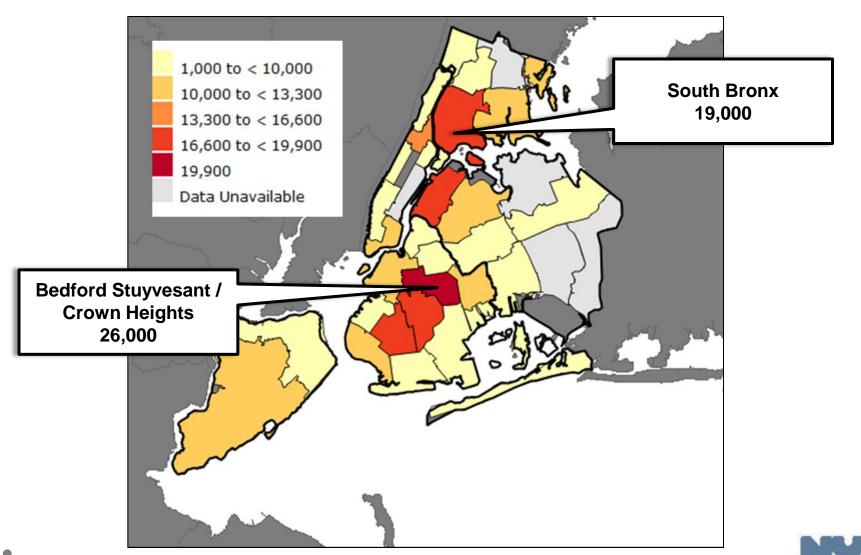


Housing Quality Indicator: Percentage of Households Reporting Seeing Cockroaches Daily by Neighborhood Poverty, 2008

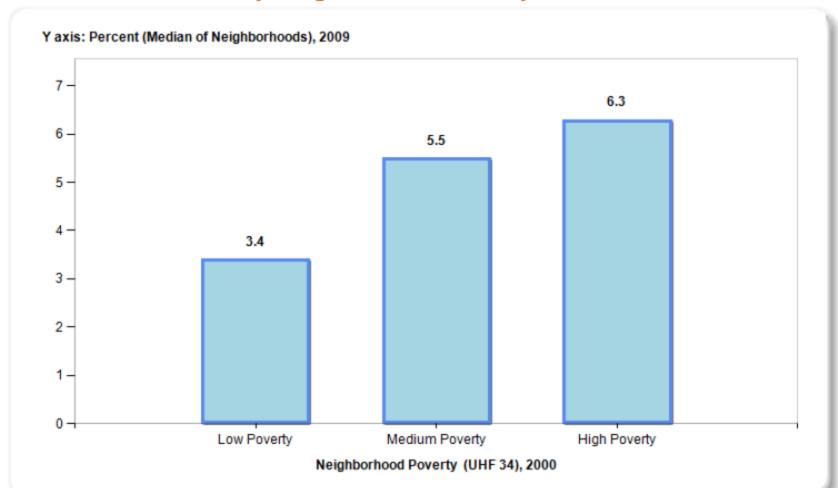


Severity of Problems Vary by Neighborhood

Housing Quality Indicator: Number of Adults around Secondhand Smoke at Home (UHF34), 2009



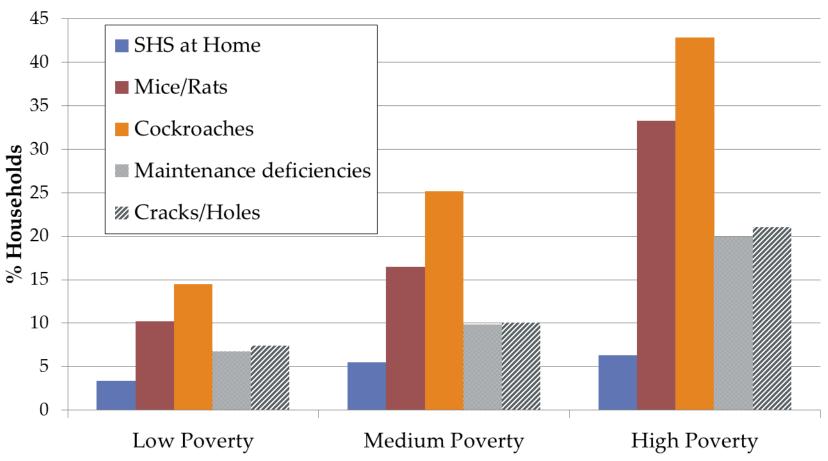
Housing Quality Indicator: Number of Adults around Secondhand Smoke at Home by Neighborhood Poverty, 2009





Severity of Problems Vary by Neighborhood

Housing Quality Indicators Vary by Neighborhood Poverty



Neighborhoods are ranked according to the % of people whose annual income falls below twice the FPL

Source: CHS, 2009; NYC Housing and Vacancy Survey (HVS), 2008

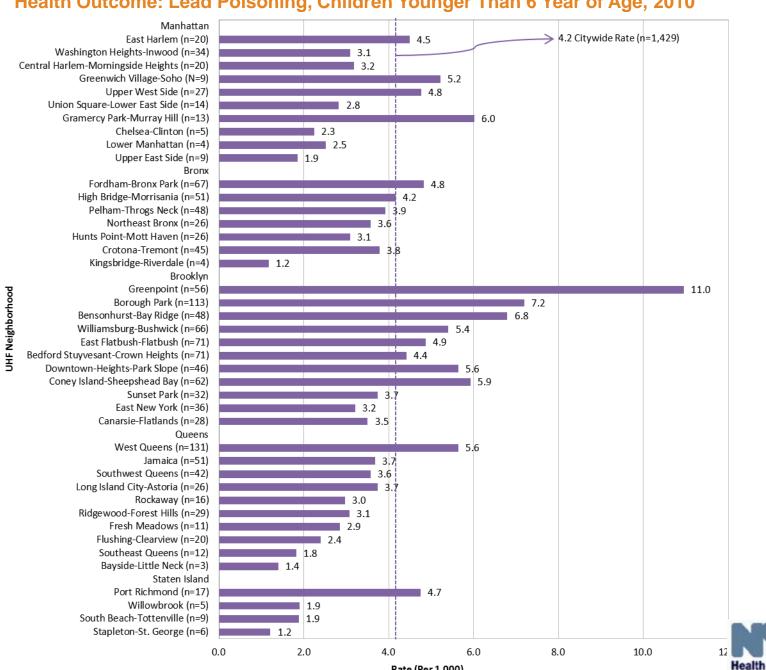
Housing-Related Health Outcomes

Lead Poisoning, Asthma, Injuries



Health Outcomes Vary by Neighborhood

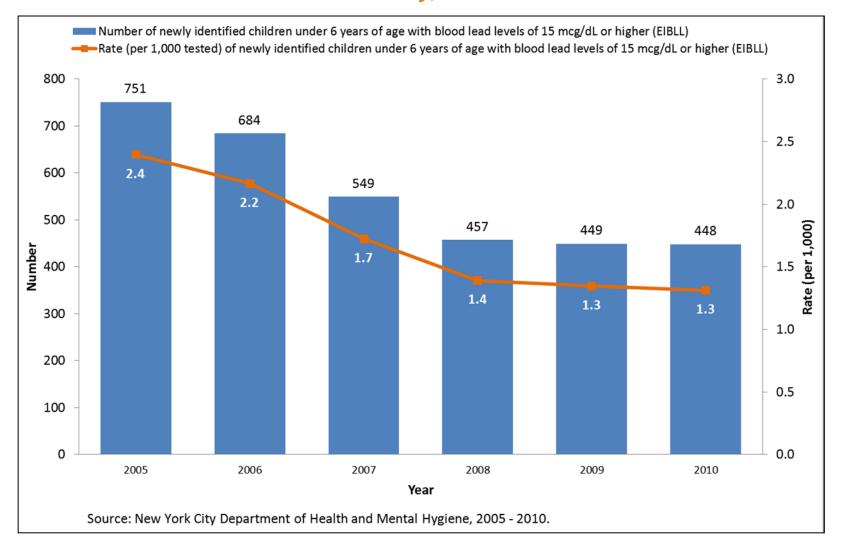
Health Outcome: Lead Poisoning, Children Younger Than 6 Year of Age, 2010



Rate (Per 1,000)

Change Over Time?

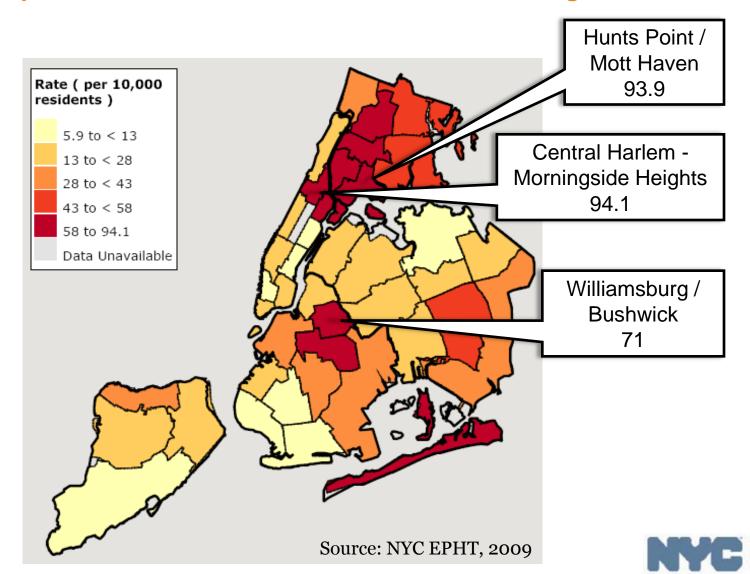
Health Outcome: Lead Poisoning, Children Younger Than 6 Year of Age, New York City, 2005-2010





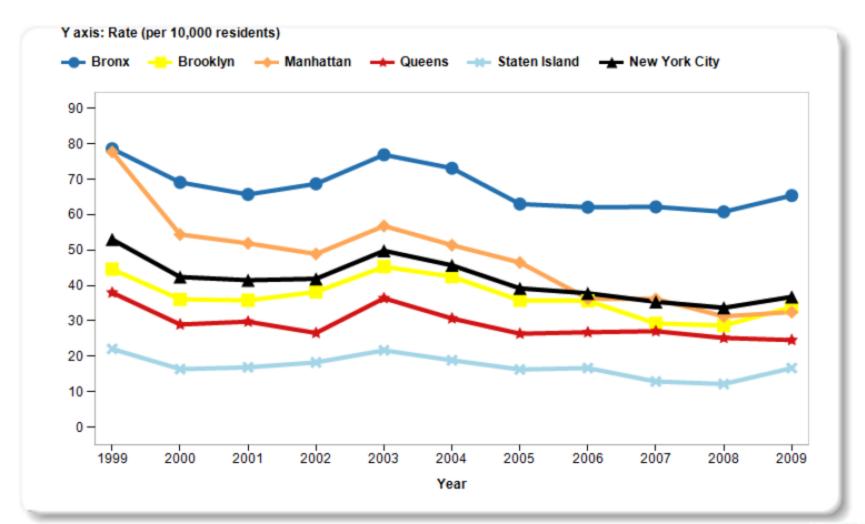
Health Outcomes Vary by Neighborhood

Health Outcome: Asthma Hospitalization Rates for Children 5 to 14 Years of Age, 2009



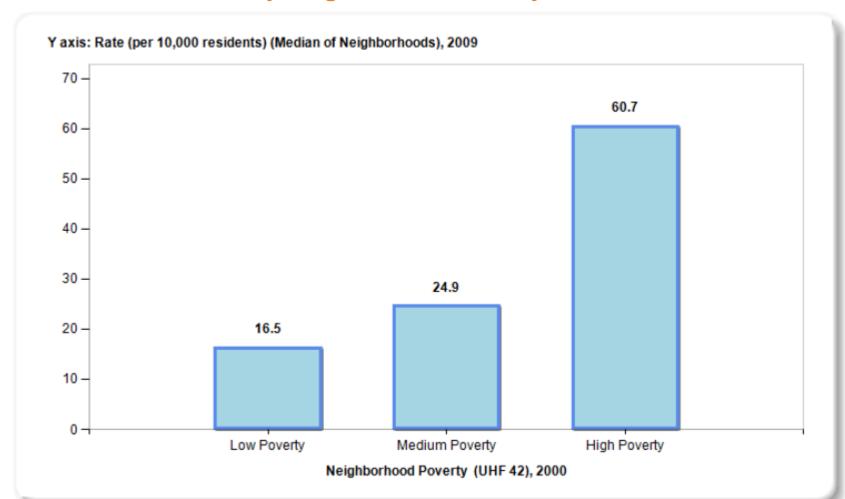
Change Over Time?

Health Outcome: Asthma Hospitalization Rates for Children 5 to 14 by Borough and Year





Health Outcome: Asthma Hospitalization Rates for Children 5 to 14 by Neighborhood Poverty, 2009



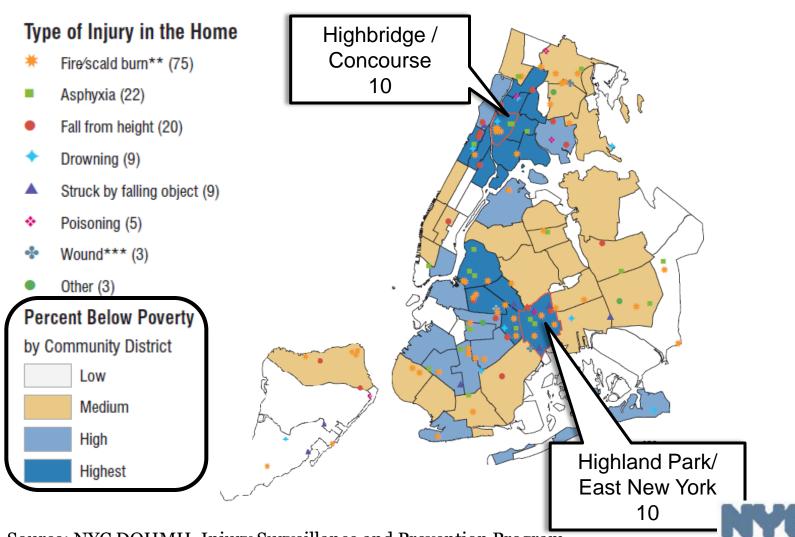


Health

Health Outcomes Vary by Neighborhood

Health Outcome:

Number of Unintentional Injuries at Home Children 1 to 12 Years of Age, 2001-2007; n=147



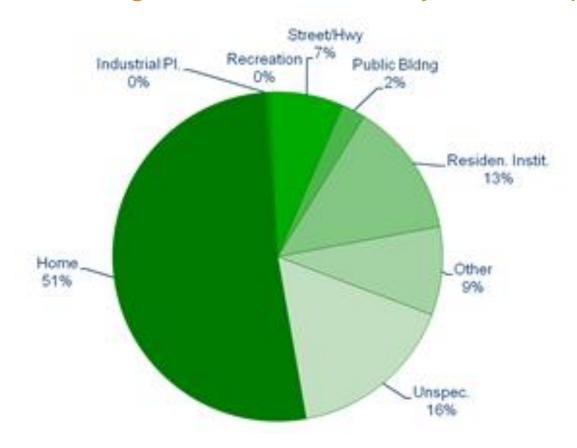
Health

Source: NYC DOHMH, Injury Surveillance and Prevention Program.

Safe and Healthy Home is Important for Health of Adults as Well

Health Outcome:

Location of Falls for Older Adults Hospitalized for Falls Adults 65 Years of Age Or Older, New York City, 2002-2006 (n~80,000)



Source: NYC DOHMH, Injury Surveillance and Prevention Program.



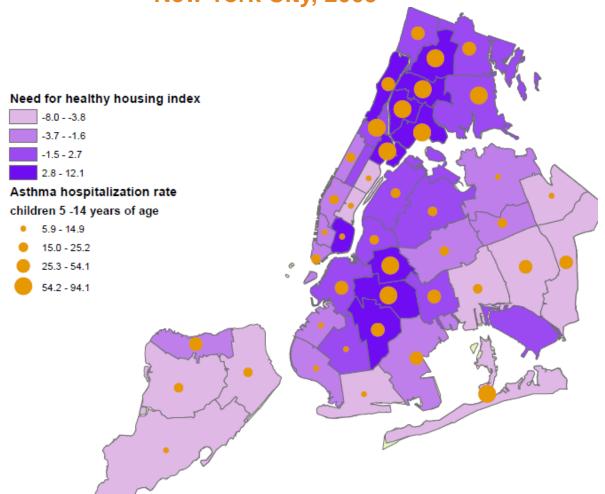
Bringing it all together: Relationship between Housing Quality and Health



Index of Need for Healthy Housing and Health Outcomes

Health Outcome:

Asthma Rates Among Children 5 to 14 years of Age, New York City, 2009



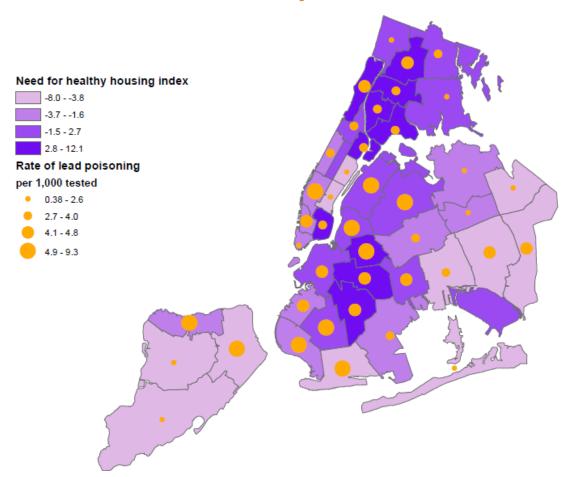
Rates of asthma among children 5 to 14 years of age in 2009, superimposed on the Index of Need for Healthy Housing.
Source: NYC DOHMH, Lead Poisoning Prevention Program; NYC DOHMH EPHT Portal



Index of Need for Healthy Housing and Health Outcomes

Health Outcome:

Lead Poisoning Among Children Younger than 6 Years of Age New York City, 2008



Rates of children younger than 6 years of age newly identified with blood lead levels 10 mcg/dL or higher, superimposed on the Index of Need for Healthy Housing.

Source: NYC DOHMH, Lead Poisoning Prevention Program; NYC DOHMH EPHT Portal

Data Sources



Data Sources Used in This Presentation:

 Environmental Public Health Tracking Portal available at nyc.gov/health/tracking:

Topics:

- Neighborhood, housing, water quality
- Outdoor air
- Health outcomes and human exposures
- Pests and pesticides

Functionalities:

- Generate neighborhood-specific reports
- Summarize and map data
- Chart trends over time
- View health disparities by neighborhood
- Linkages health and environment



Data Sources Used in This Presentation:

- Environmental Public Health Tracking Portal (cont.):
 - Data Sources include on the portal:
 - New York City Housing and Vacancy Survey
 - New York City Community Health Survey
 - Statewide Planning and Research Cooperative System (SPARCS)



NYC DOHMH Surveillance Systems:

Lead Poisoning Prevention Program
Injury Surveillance and Prevention Program

