

# HEPATITIS C SURVEILLANCE IN NYC – AN OVERVIEW OF PROJECTS

PERMINDER KHOSA, MPH STATEN ISLAND HEP C TASK FORCE MEETING, DATE 03/26/2015

## HEPATITIS C SURVEILLANCE & NEW SCREENING LAW

- 1. Enhanced surveillance of youth
- 2. Negative HCV RNA reporting
- 3. Impact of NYS HCV testing law (Jan 2014)
  - HCV screening test must be offered to every Baby boomer

# ENHANCED SURVEILLANCE OF YOUTH

### ENHANCED SURVEILLANCE OF YOUTH - RATIONALE

- We need information on new/recent infections to plan prevention activities
- However, surveillance for acute HCV is difficult:
  - No lab test and usually no symptoms
  - When a person is newly diagnosed, it is usually not possible to know when they acquired the infection
- Young age is a proxy for recent infection: look at risk factors and case characteristics

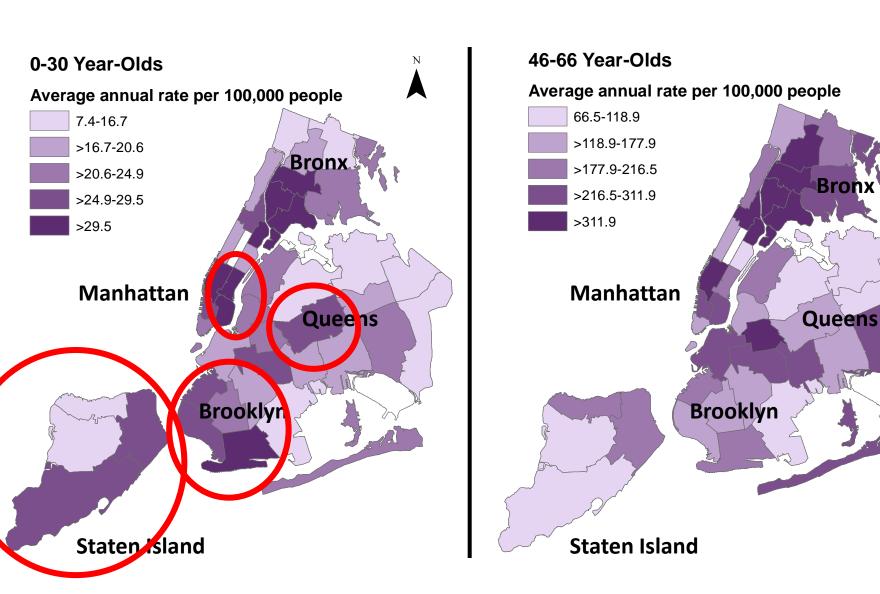
### ENHANCED SURVEILLANCE OF YOUTH - RATIONALE

- Increasing HCV infections among youth in several US jurisdictions
- Increase in injection drug use and prescription opioid misuse in young adults nationally<sup>1-3</sup> and (NYC)<sup>4-6</sup>

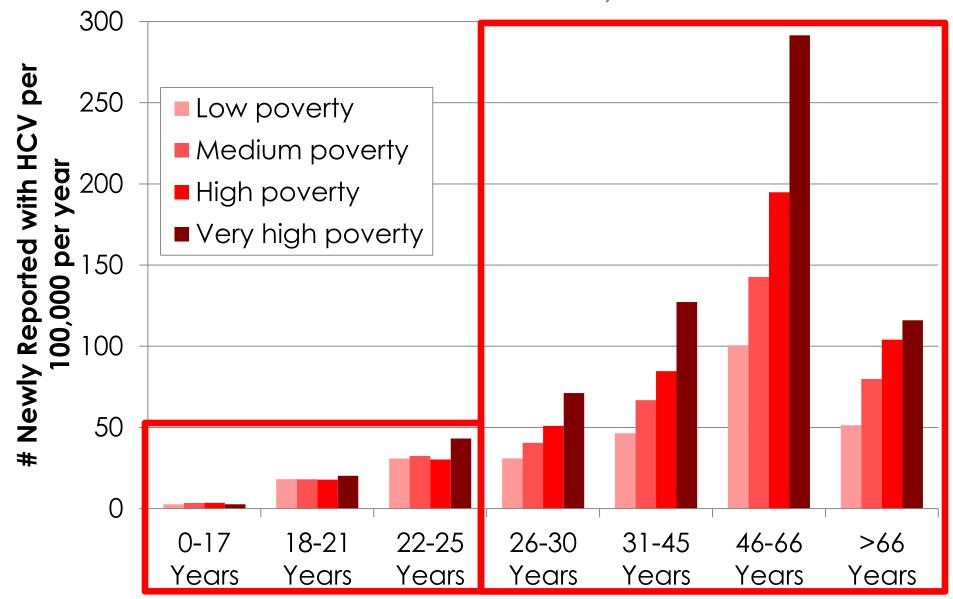
### NYC RESIDENTS NEWLY REPORTED WITH HCV, 2009-2013

Age Group	N
0-17 year-olds	350
18-21 year-olds	613
22-25 year-olds	1,356
26-30 year-olds	2,492
31-45 year-olds	10,230
46-66 year-olds	23,219
>66 year-olds	4,587

## HCV RATES BY UNITED HOSPITAL FUND NEIGHBORHOOD, 2009-2013



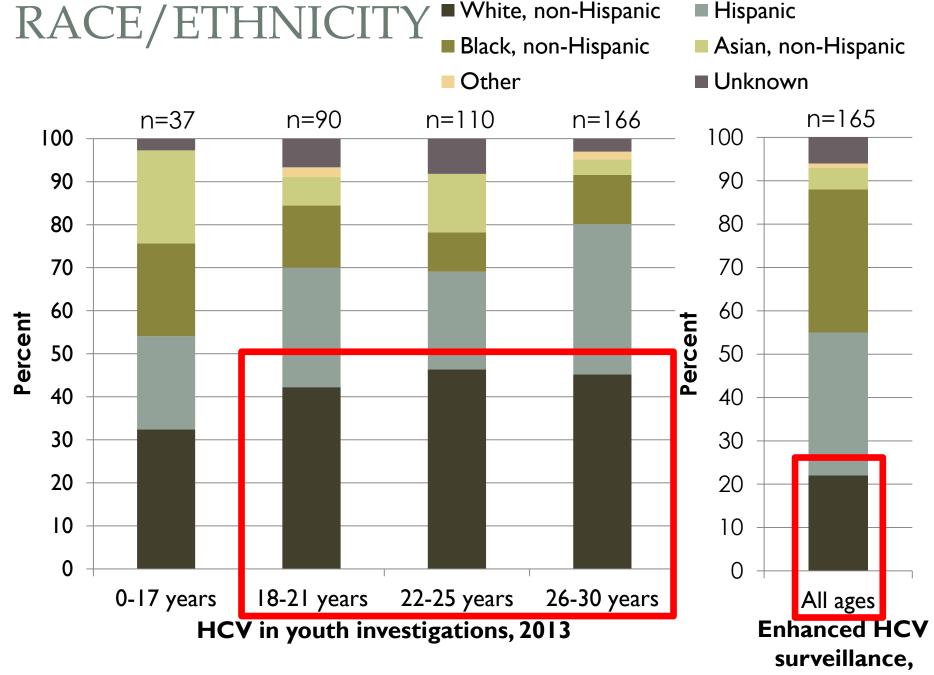
### RATES OF HCV BY CENSUS TRACT POVERTY LEVEL AND AGE GROUP, 2009-2013



## ENHANCED HCV SURVEILLANCE – YOUTH – GOALS AND METHODS

- Investigating youth newly reported with HCV
- Goals:
  - Understand risk factors for HCV among 0-30 year-olds
  - Inform HCV primary prevention planning
- Sampling scheme:
  - 100% of new reports of HCV among 0-21 year-olds
  - 50% of new reports of HCV among 22-30 year-olds
  - Diagnosis dates: January 1, 2013-December 31, 2013
- Data collected from clinician, No patient interviews

# Enhanced surveillance of youth - RESULTS

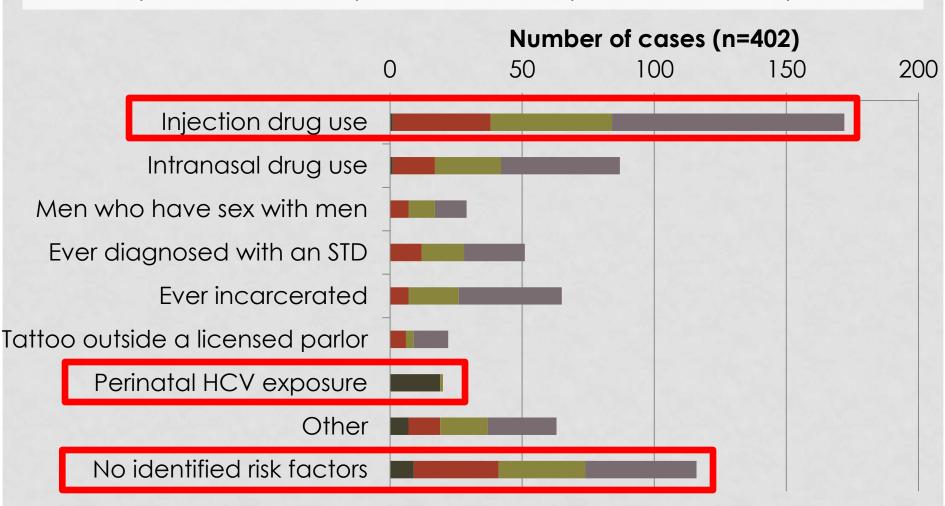


2009-2011<sup>1</sup>

<sup>1</sup>Drezner et al. Public Health Reports 2013 Nov; 128(6):510-518.

### RISK FACTORS FOR HCV (NOT MUTUALLY EXCLUSIVE)





# TYPE OF DRUG USED (NOT MUTUALLY EXCLUSIVE)

N (%)
145 (84%)
46 (27%)
12 (7%)
46 (53%)
48 (55%)
7 (8%)

#### **CONCLUSIONS**

- The primary risk factor for HCV among youth in NYC was injection drug use (mostly heroin)
- Large proportion of youth with HCV were white, non-Hispanic
  - Different from baby boomers
- High rates of HCV among youth in neighborhoods without high rates among baby boomers
  - Few syringe exchanges/harm reduction programs in some of these neighborhoods

#### **NEXT STEPS**

- Continue monitoring HCV among youth using routine surveillance data (sex, age, ZIP)
- Seek additional resources to resume youth enhanced investigations
- Compare maps and demographics with data on HIV, heroin, opioid use in youth
- Education and outreach to youth
  - Prevent initiation of prescription opioid misuse
  - Prevent transition to injection drug use
  - Promote drug treatment, safe injection practices, harm reduction

### NEGATIVE HCV RNA REPORTING

#### HEALTH CODE CHANGE

- The NYC Health code specifies what diseases are required to be reported to the Health Department as part of routine public health surveillance
- We want labs to be required to report negative HCV RNA results to the Health Department
- Board of Health approved the change on June 9, 2014
- Went into effect on July 21, 2014

## BY MAKING NEGATIVE RNA'S REPORTABLE WE CAN IDENTIFY:

- Gaps in diagnostic testing:
  - Antibody positive, no RNA test
- Patients who were treated and cured (SVR):
  - RNA positive, then ≥ 2 RNA neg



- This will allow us to evaluate rates:
  - Over time
  - by zip code/UHF neighborhood
  - by facility
  - Focus efforts in areas with highest need

### NYS HCV TESTING LAW

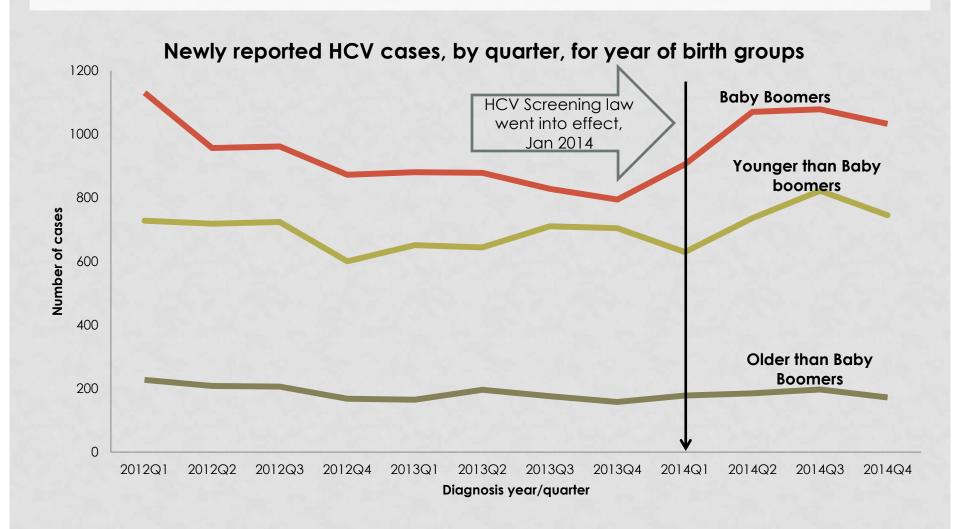
## NEW YORK STATE HCV TESTING LAW – EFFECTIVE JANUARY 1,2014

- HCV screening test be offered to every individual born between 1945 and 1965 receiving health services
  - If test is positive, the healthcare provider must either offer follow-up health care or refer to a provider who can provide such care
- > 75% of adults with hepatitis C were born from 1945 through 1965 (baby boomers)

#### IMPACT OF THE HCV SCREENING LAW

- NYS DOH working on report evaluating HCV screening law, similar to the NYS HIV testing law evaluation
- Challenges to evaluation
  - Health dept. only gets positive HCV antibody results, no way of knowing if providers are offering/testing their baby boomer patients
  - No single data source available to measure directly the total number of baby boomers screened in NYC
  - Other factors impacting the number of people getting tested – New meds

## IMPACT OF NYS HCV TESTING LAW ON NYC SURVEILLANCE



- Has your facility made changes due to the HCV screening law?
  - What kinds of changes?
  - What challenges have you encountered?

#### THANK YOU!

Any questions?

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#### REFERENCES

- Boyd et al. Journal of Addictive Diseases. 2009;28(3):232-242
- <sup>2</sup>Chatterjee et al. AIDS and Behavior. 2011;15(7):1570-1578
- <sup>3</sup>Sung et al. Journal of Adolescent Health. 2005;37(1):44-51
- 4http://www.nyc.gov/html/doh/downloads/pdf/epi/databrief3
   3.pdf
- 5http://www.nyc.gov/html/doh/downloads/pdf/epi/databrief3
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- 6http://www.nyc.gov/html/doh/downloads/pdf/epi/databrief3
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#### **BACKGROUND**

- Positive HCV test results are reportable to the Health Department
  - Antibody with high s/co ratio
  - RNA
  - Genotypes
- Reports include:
  - Patient date of birth, sex, address
  - Test type, date and result
  - Provider and laboratory information