

From Routine HIV Testing to Viral Load Suppression: New York City Interventions

M. Monica Sweeney, MD, MPH

Assistant Commissioner

New York City Department of Health and Mental Hygiene

Beyond AIDS Annual Meeting

Ontario, CA

November 17, 2012

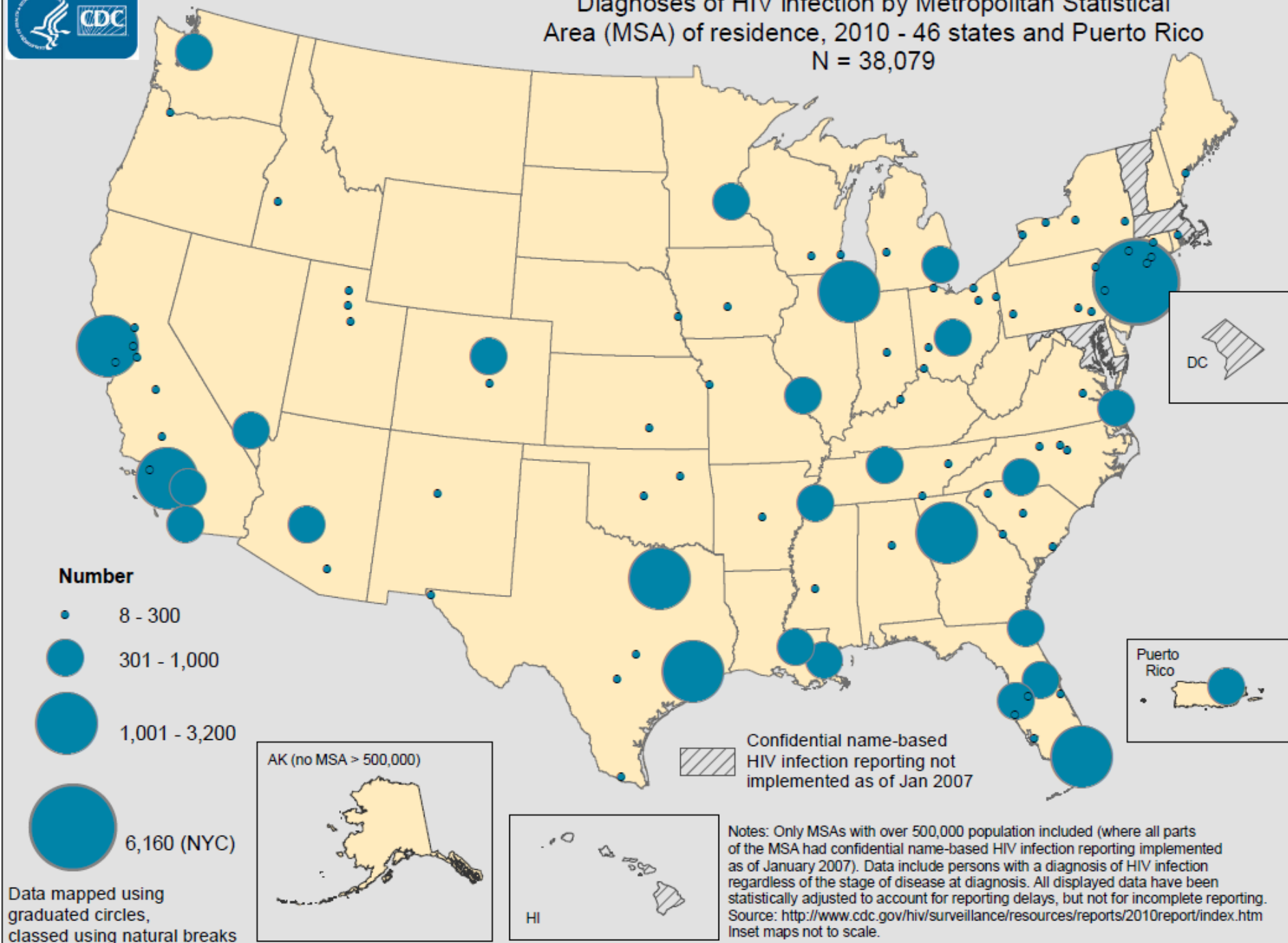


Overview

- HIV
 - In the US
 - In NYC
- The Treatment Cascade
- HIV Prevention—the current context
- Just a few of NYC's HIV Initiatives
- Success stories
- Challenges we still face

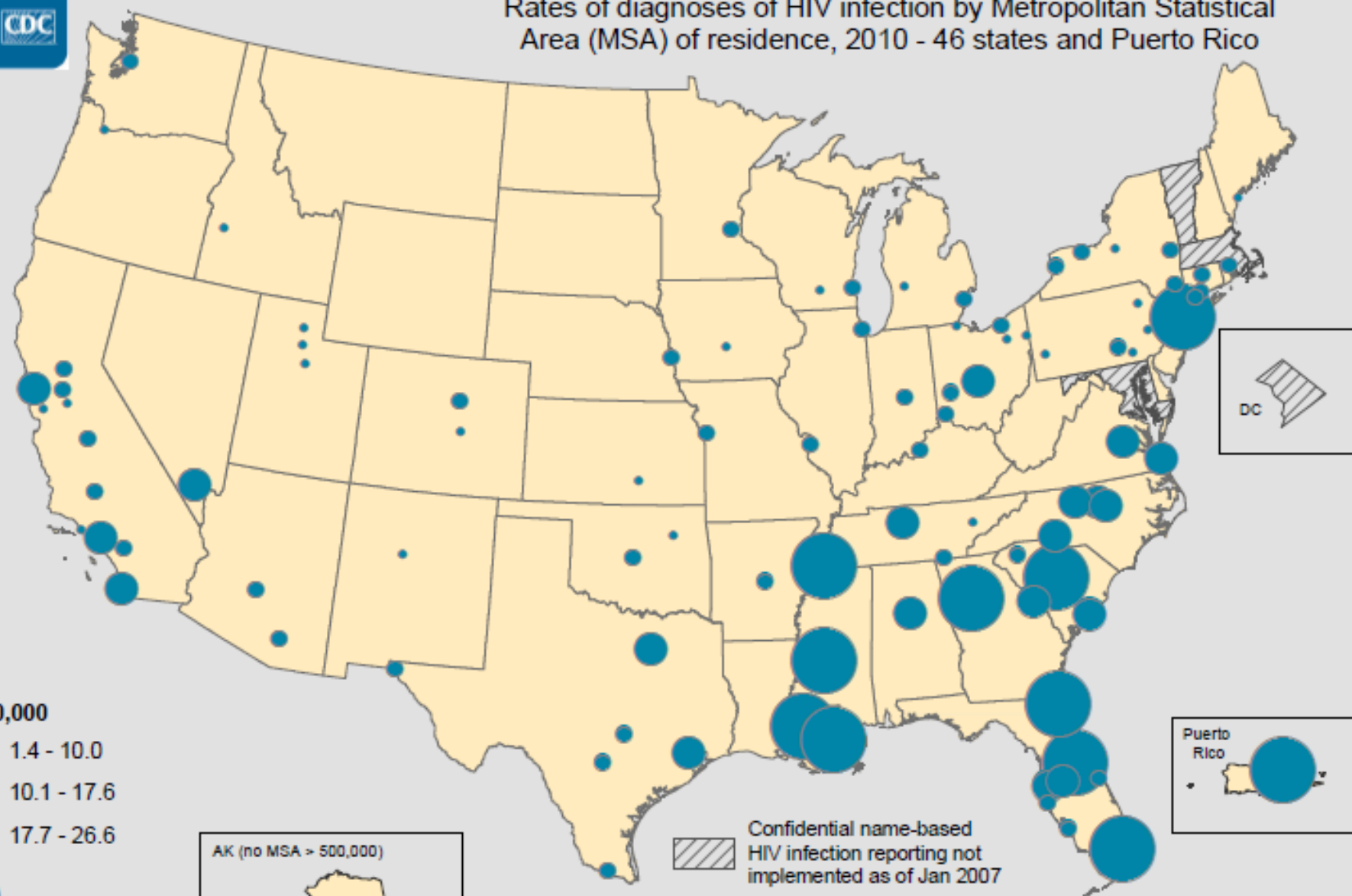


Diagnoses of HIV infection by Metropolitan Statistical Area (MSA) of residence, 2010 - 46 states and Puerto Rico
N = 38,079





Rates of diagnoses of HIV infection by Metropolitan Statistical Area (MSA) of residence, 2010 - 46 states and Puerto Rico



Per 100,000

- 1.4 - 10.0
- 10.1 - 17.6
- 17.7 - 26.6
- 26.7 - 49.7

Data mapped using graduated circles, classed using natural breaks
Total rate = 20.2

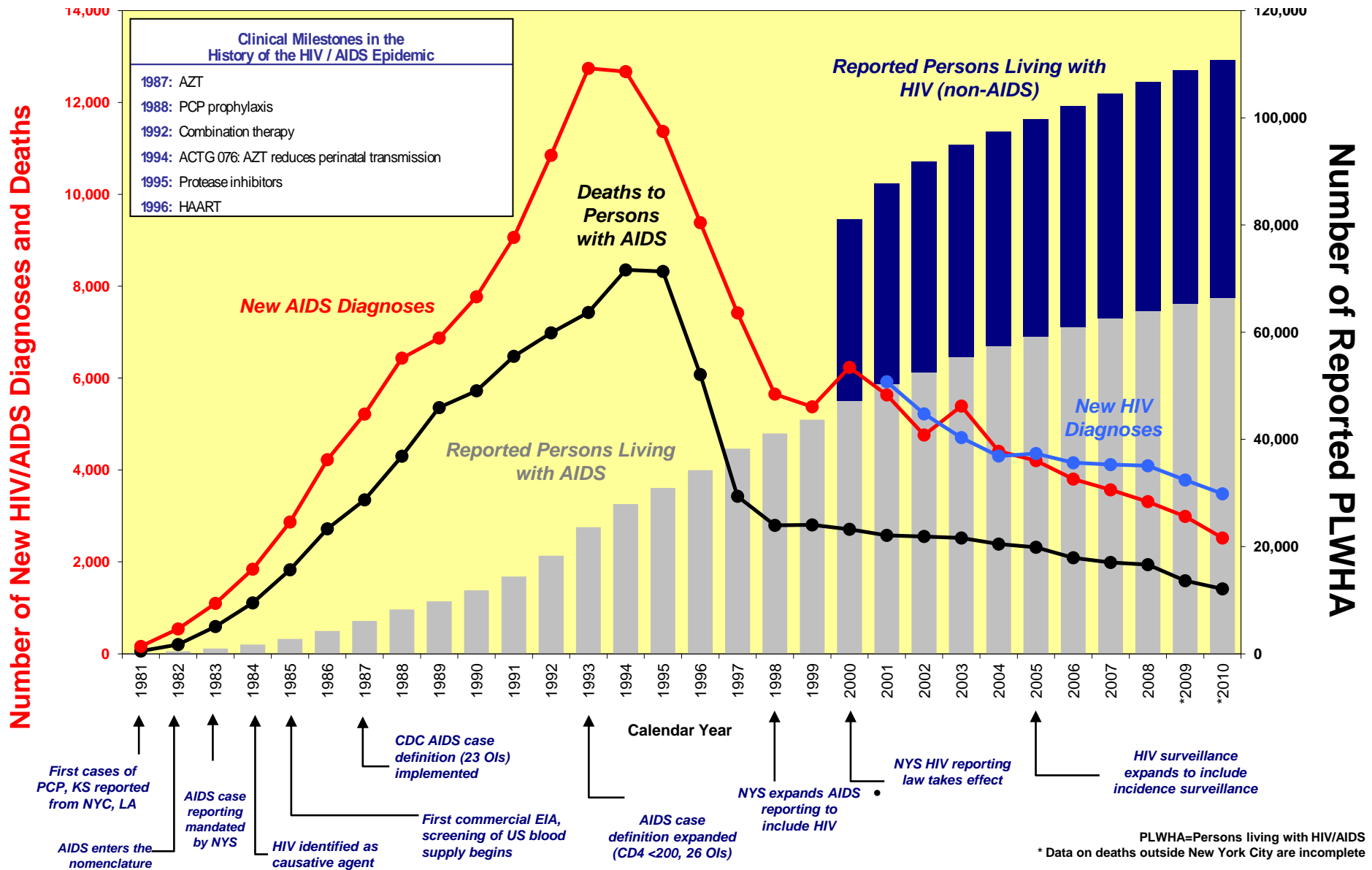
Confidential name-based HIV infection reporting not implemented as of Jan 2007

Notes: Only MSAs with over 500,000 population included (where all parts of the MSA had confidential name-based HIV infection reporting implemented as of January 2007). Data include persons with a diagnosis of HIV infection regardless of the stage of disease at diagnosis. All displayed data have been statistically adjusted to account for reporting delays, but not for incomplete reporting. Data source: <http://www.cdc.gov/hiv/surveillance/resources/reports/2010report/index.htm>
Inset maps not to scale.

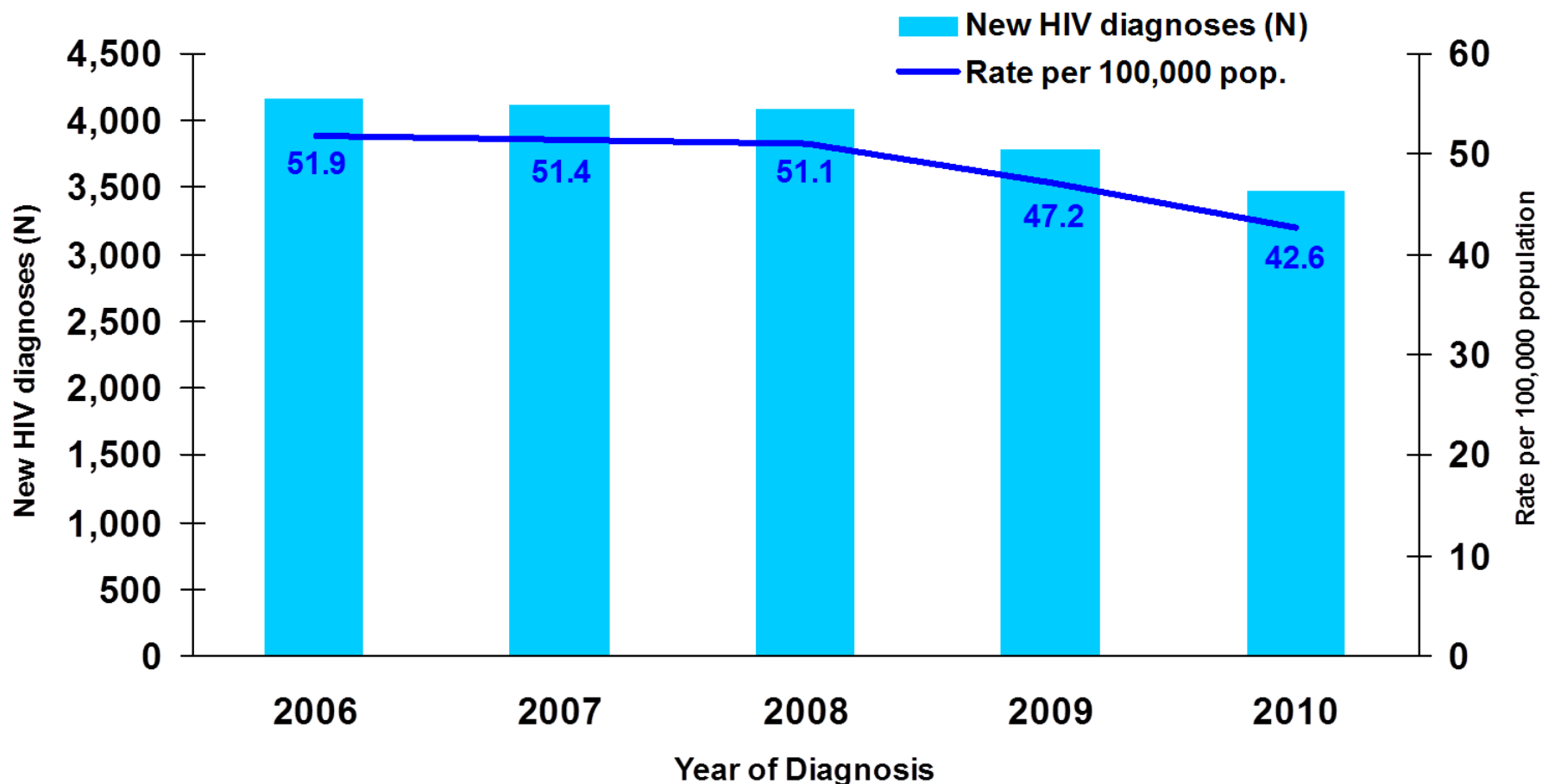
NYC: Epicenter of the U.S. Epidemic

- NYC continues to be the epicenter of the HIV/AIDS epidemic in the U.S.
 - Among the highest AIDS **case rates** in U.S.
 - <3% of U.S. population, but ~17% of AIDS deaths
 - More cases than Los Angeles, San Francisco, & Washington, DC **combined**

The History of HIV in New York City, 1981-2010



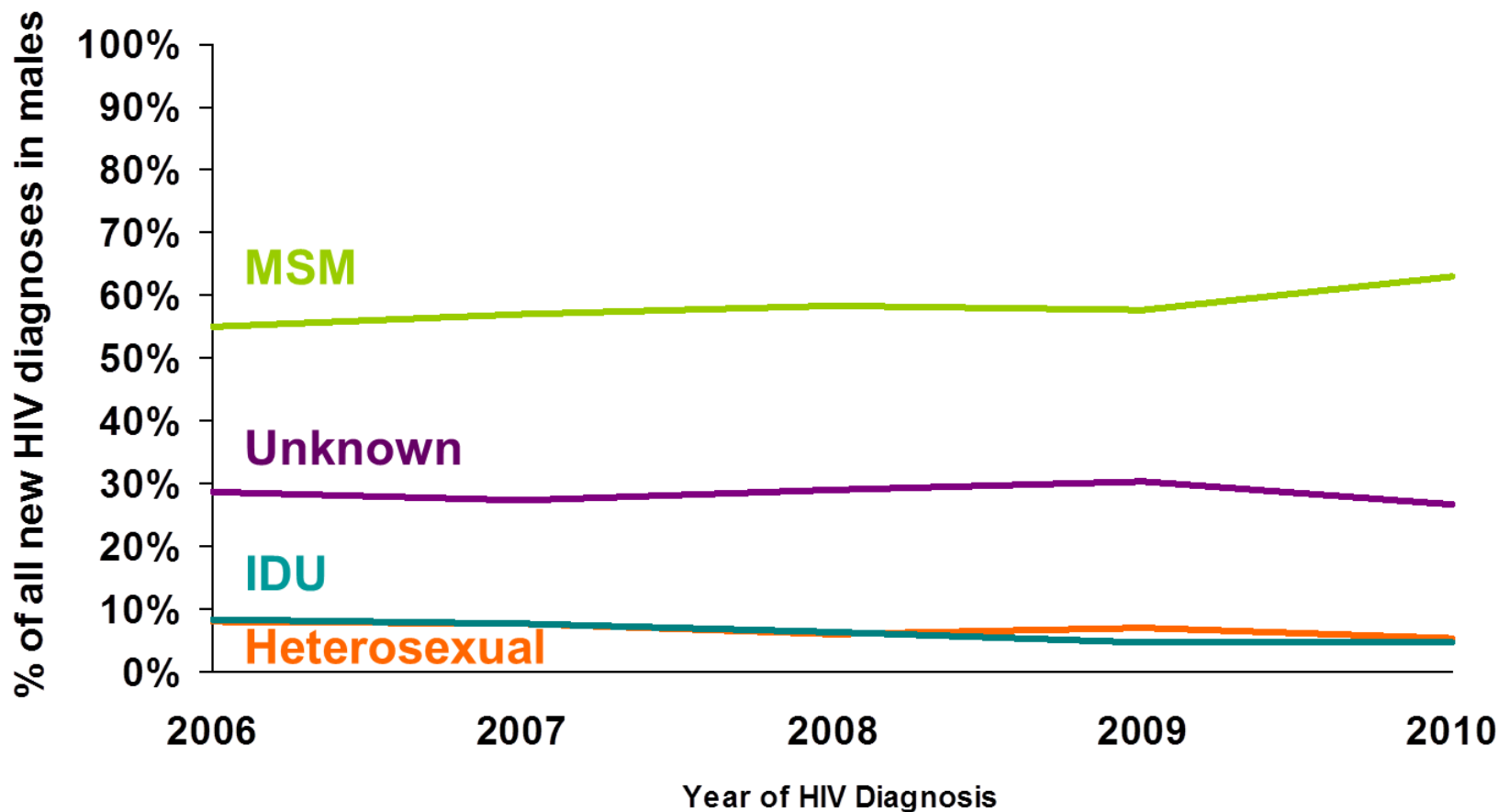
New HIV Diagnoses, NYC 2006-2010



The number of new HIV diagnoses has been decreasing from 2006 to 2010 but is still over 3,400 each year.

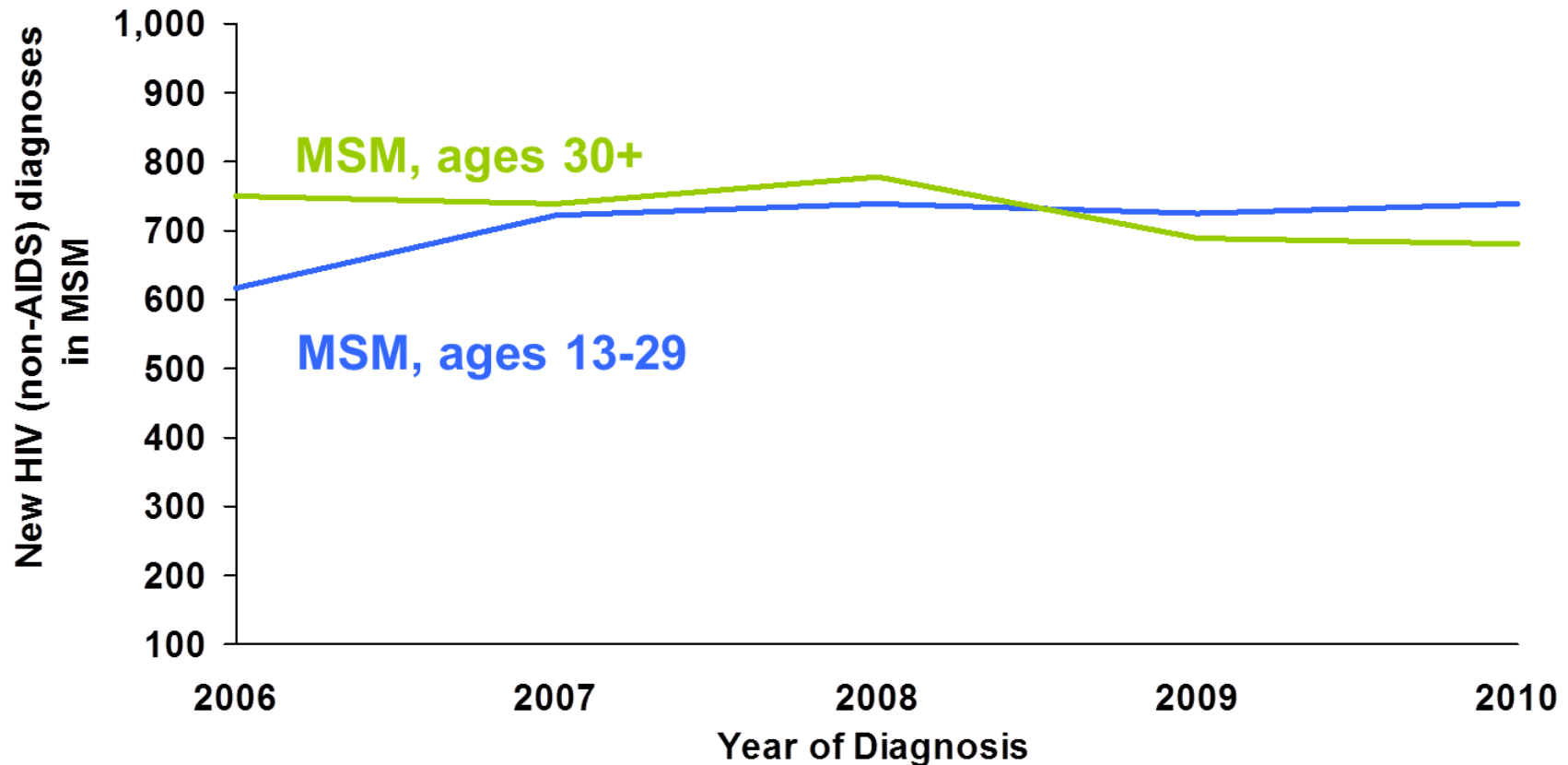
2006-2009 rates based on 2000 Census population, and 2010 rate based on 2010 Census population.
As reported to the New York City Department of Health and Mental Hygiene by September 30, 2011.

New HIV Diagnoses among Males by Transmission Risk, NYC 2006-2010



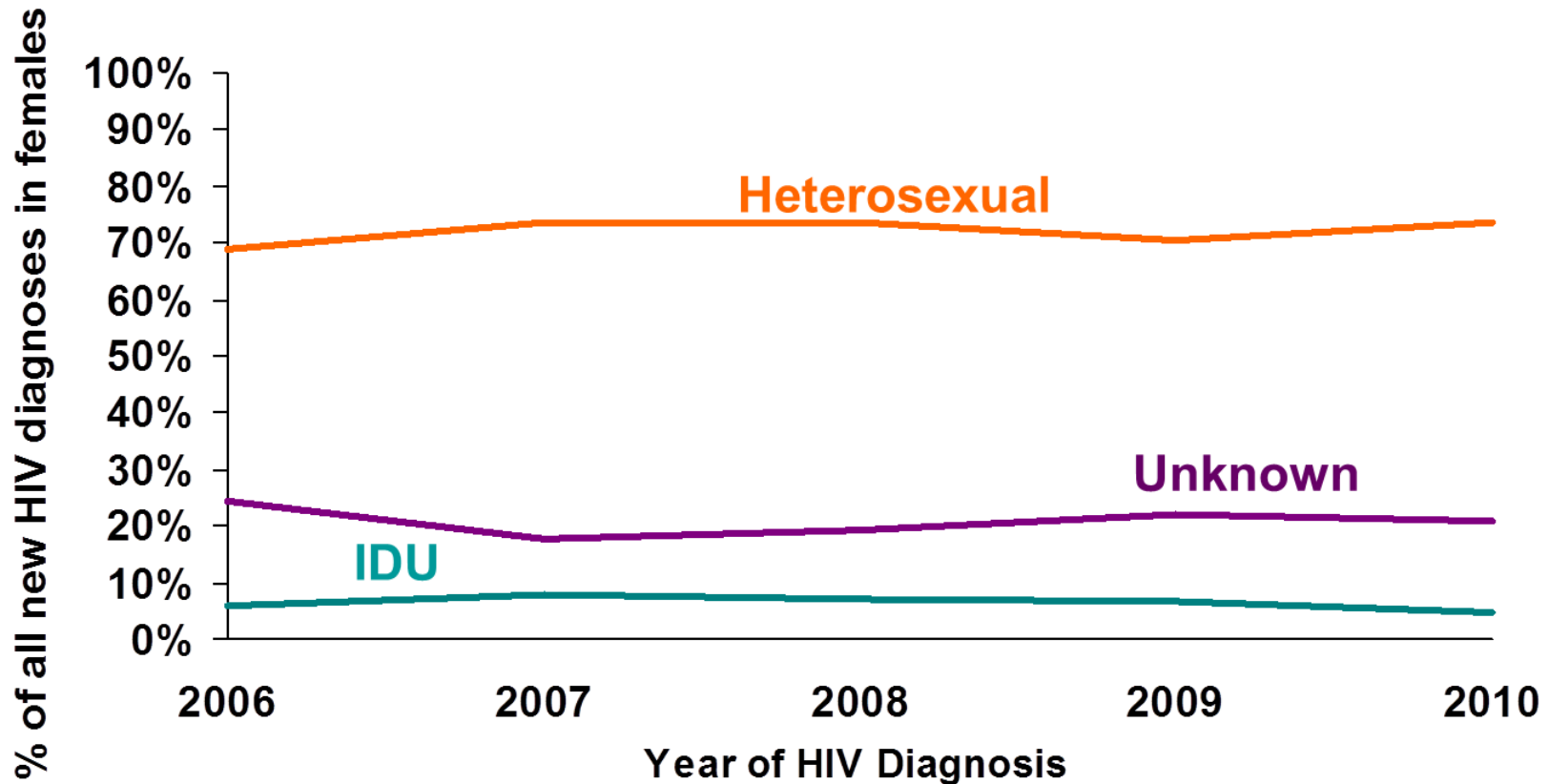
In 2010, 63% of new HIV diagnoses among males were among men who have sex with men (MSM).

New HIV (Non-AIDS) Diagnoses in Men Who Have Sex with Men (MSM) by Age, NYC 2006-2010



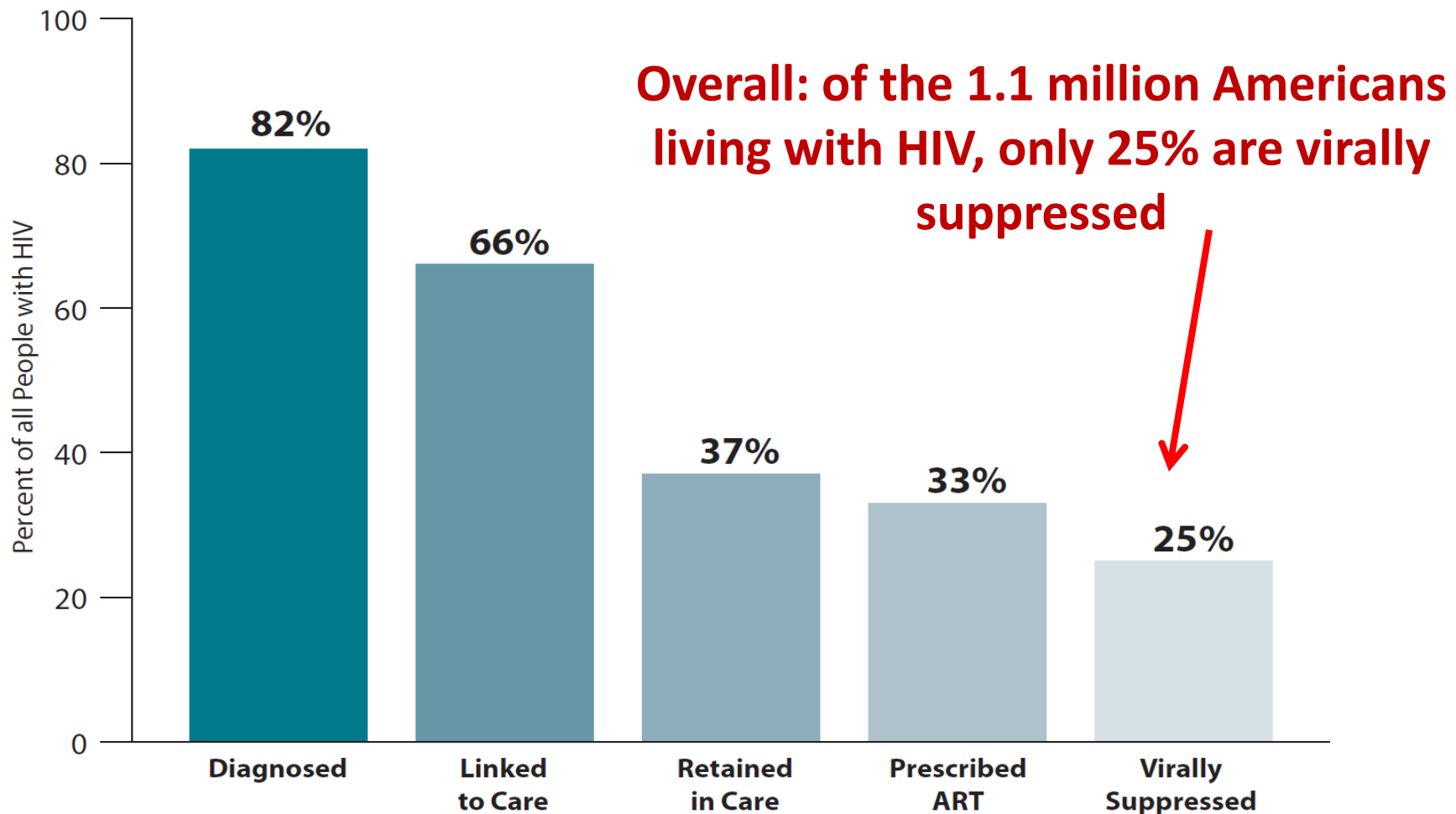
Since 2009, the number of new HIV (non-AIDS) diagnoses was higher among MSM 13-29 than among those 30 and older.

New HIV Diagnoses among Females by Transmission Risk Category, NYC 2006-2010

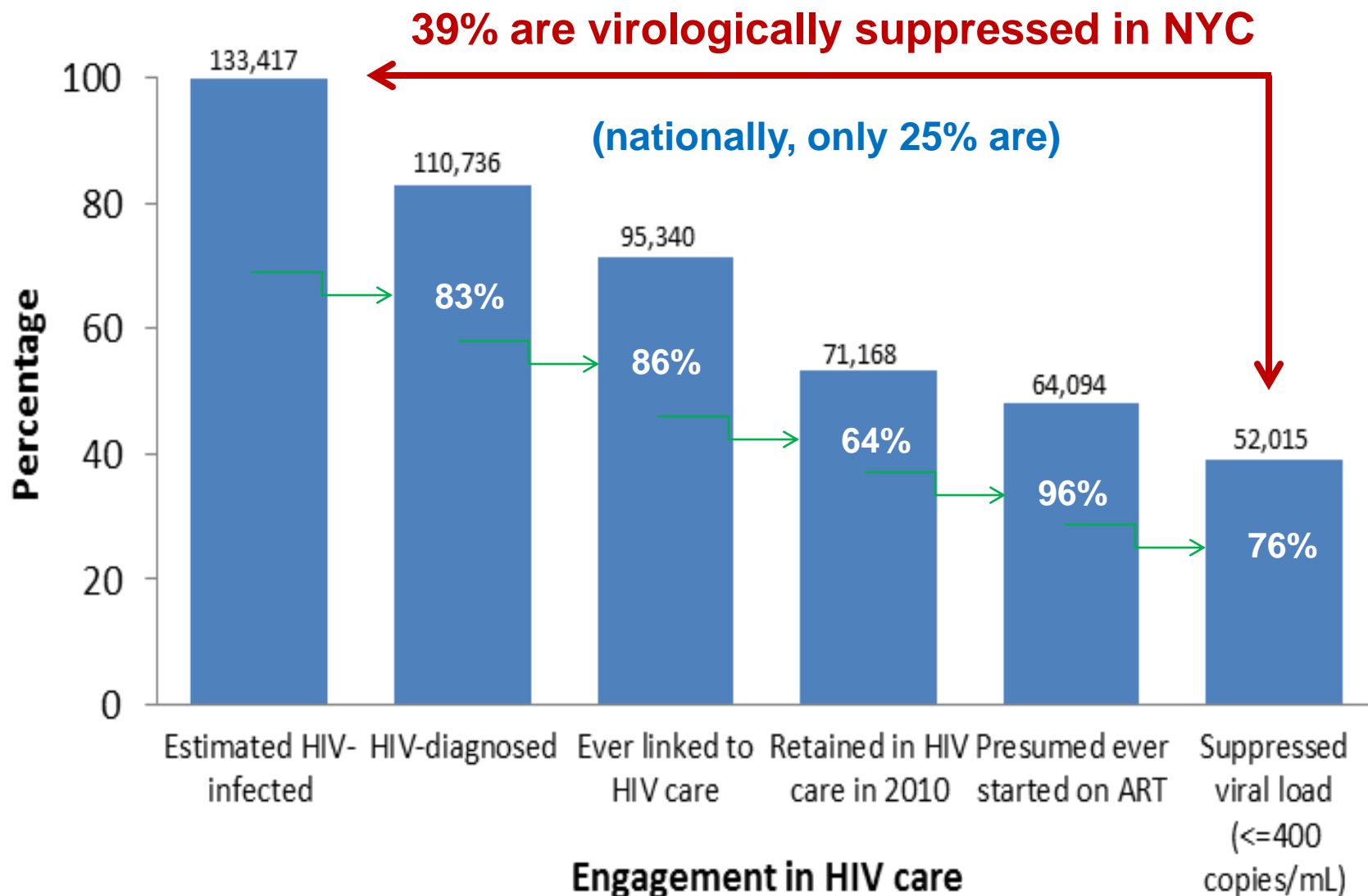


In 2010, 74% of new HIV diagnoses among females were attributed to heterosexual transmission.

Spectrum of Engagement in HIV Care in US, 2010



Spectrum of Engagement in HIV Care in NYC, 2010



Routinizing HIV Testing in NYC

- Brooklyn Knows** launched on Dec 1st, World AIDS Day 2010, with the goal of testing 500,000 Brooklynites by 2014.
- To date, both initiatives have conducted over **722,000 HIV tests** and identified more than **2,000 new positives**, linking more than $\frac{3}{4}$ to care.



- At least **10 large clinical sites shifted hospital policy** to use a multiplatform analyzer (MPA) that can process up to 100 HIV tests per hour as a direct result of a 2011 Health Department HIV testing initiative. This initiative encouraged routine HIV screening using new technologies in large-volume clinical settings, among one of its many proposals.

Social Marketing



A black and white photograph of a man and a woman in a close embrace. The woman is looking directly at the camera, while the man is looking down at her. A small pack of NYC condoms is visible on the woman's shoulder.

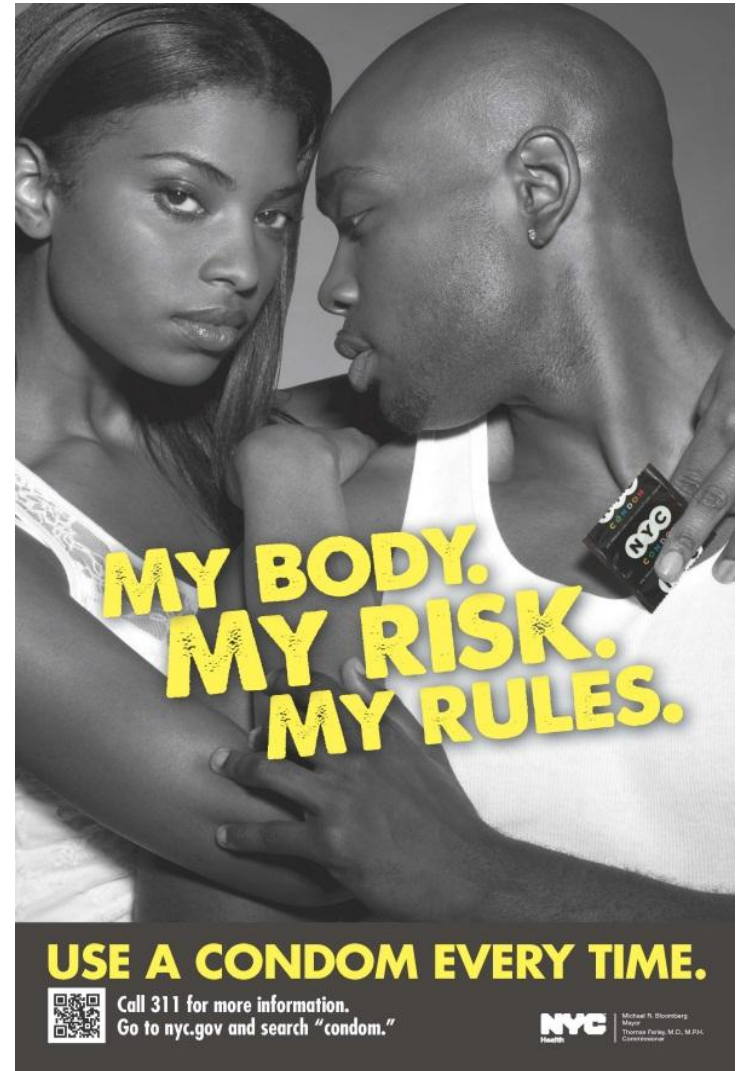
**MI CUERPO.
MI RIESGO.
MIS REGLAS.**

USA UN CONDÓN CADA VEZ.

 Llama al 311 para más información.
Visita nyc.gov y busca "condom".

NYC
Health


Michael R. Bloomberg
Mayor
Thomas Farley M.D., M.P.H.
Commissioner



A black and white photograph of a man and a woman in a close embrace, similar to the Spanish version. The woman is looking directly at the camera, while the man is looking down at her. A small pack of NYC condoms is visible on the man's chest.

**MY BODY.
MY RISK.
MY RULES.**

USE A CONDOM EVERY TIME.

 Call 311 for more information.
Go to nyc.gov and search "condom."

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NYC Condom Availability Program



In 2011...

- Over **36 million male condoms** were distributed to more than **3,900 venues citywide**
- Over 500 agencies distributed more than **1.3 million female condoms**
- **95%** of all NYC gay/MSM venues identified by the Health Department currently participate in the NYC Condom Availability Program
- **200+ NYC Condom dispensers** strategically placed throughout New York City





NYC Condom Finder Application

- Available on Apple iPhone, Android, Microsoft Phone, and BlackBerry



Remember to Visit & Download...

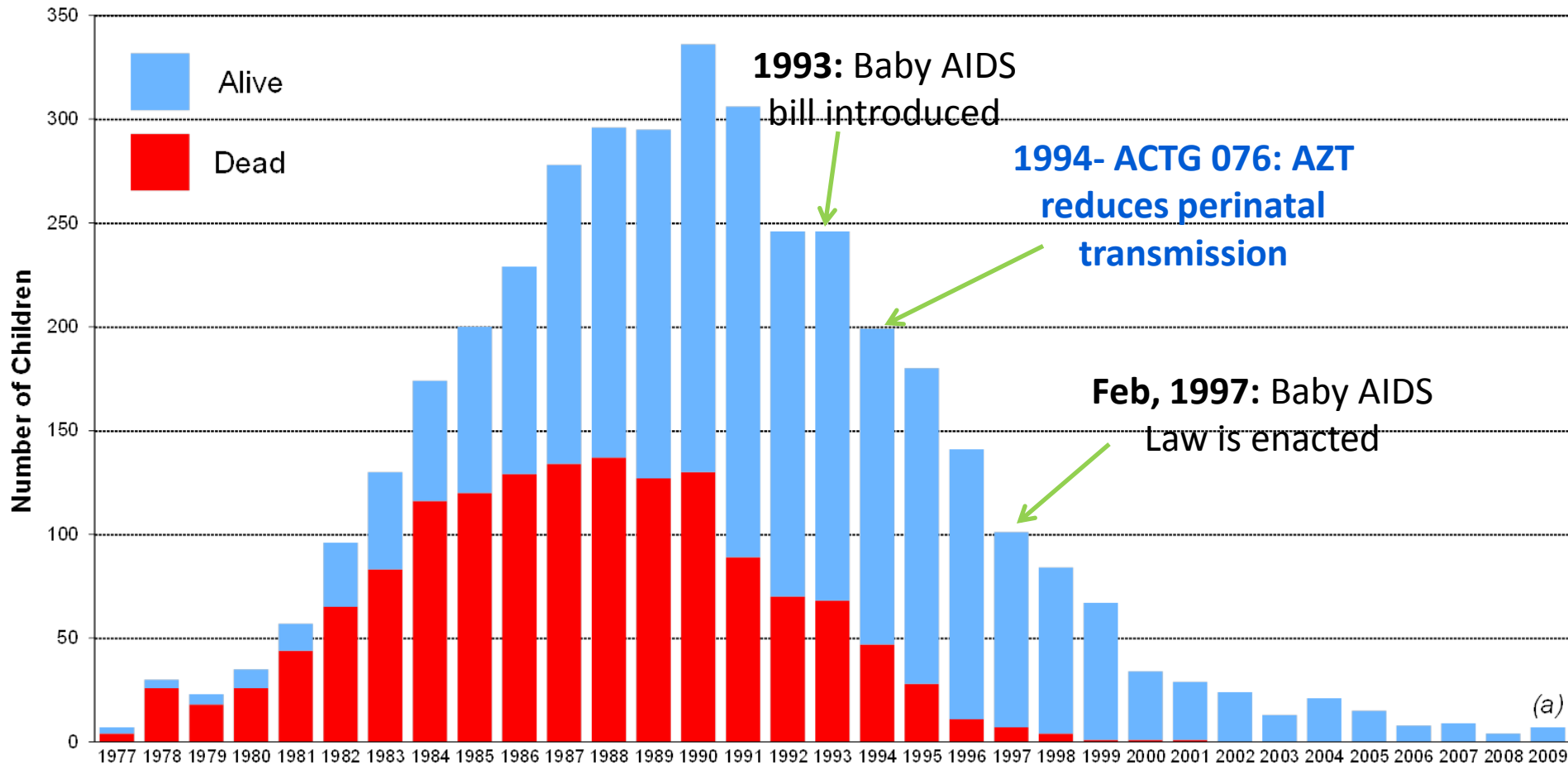


facebook.com/NYCcondom



The NYC Condom Finder Application
→ Search “find condoms”

Perinatally HIV-Infected Children: 1977-2009* in New York City



The number of HIV-infected infants born each year decreased dramatically from the peak in 1990 with the use of perinatal prevention measures. 92% of those born in NY state were born in NYC.

**Data incomplete for 2009 due to data lag*

NYC DOHMH. *Pediatric HIV/AIDS Surveillance Update New York City*. December 2009. Available at:
http://www.nyc.gov/html/doh/downloads/pdf/dires/ped_annual_rpt_2010.pdf

Accomplishments in Care & Treatment

- Starting in March, three new service models were implemented under **Ryan White Part A**, including Food and Nutrition Services, Transitional Care Coordination for homeless and unstably housed individuals, and Outreach to Homeless Youth, providing testing services and linkages to medical care and social services.
- By mid-2012, **over 6,300 unique individuals** who had completed the enrollment and the full intake process were eligible for the RW Care Coordination program due to recent HIV diagnosis, a history of sporadic HIV medical care or a lapse in HIV medical care, difficulties with medication adherence and/or antiretroviral treatment failure.
- As of July 31, 85% of clients in Ryan White Care Coordination had achieved optimal antiretroviral adherence and 91% were documented as having a primary care visit during the last 120 days.



U.S. Department of Health and Human Services

NIH News

National Institutes of Health

National Institute of Allergy and Infectious
Diseases (NIAID)

<http://www.niaid.nih.gov/>

FOR IMMEDIATE RELEASE

Thursday, May 12, 2011


Treating HIV-infected People with Antiretrovirals Significantly Reduces Transmission to Partners

Findings Result from NIH-funded International Study

- **HPTN 052**
- **1,763 HIV-serodiscordant couples in 9 countries**
- **96% reduction in HIV transmission when ART started in HIV-infected partner at CD4 count of 350-550 compared to <250**

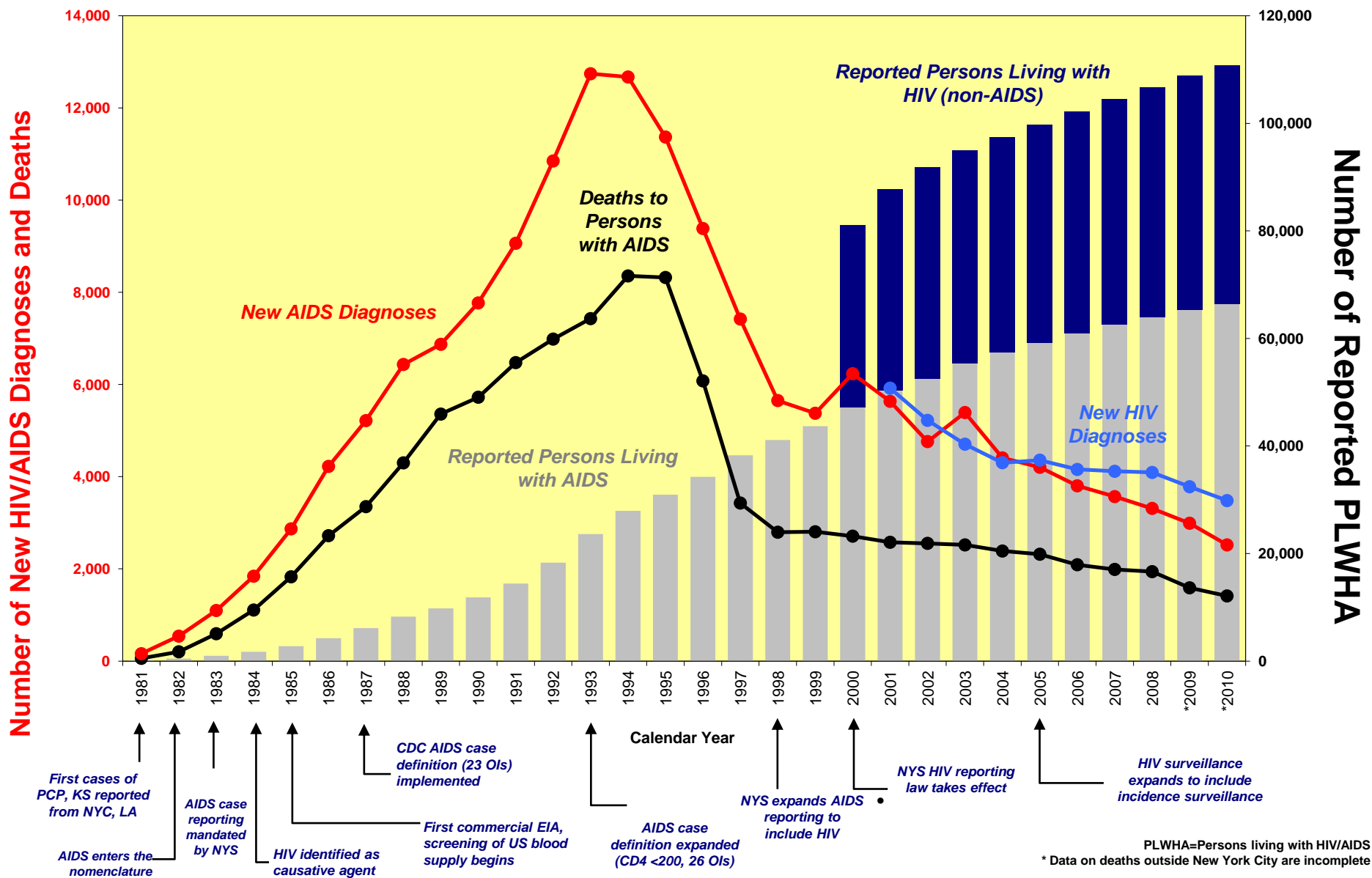
Offer Treatment, Regardless of CD4 Count

On World AIDS Day 2011, NYC Department of Health and Mental Hygiene released recommendations that healthcare providers offer ART to any person living with HIV, regardless of person's CD4 count



DHHS released similar recommendations 3 months later

Challenges to Ending the Epidemic



Structural and Other Barriers

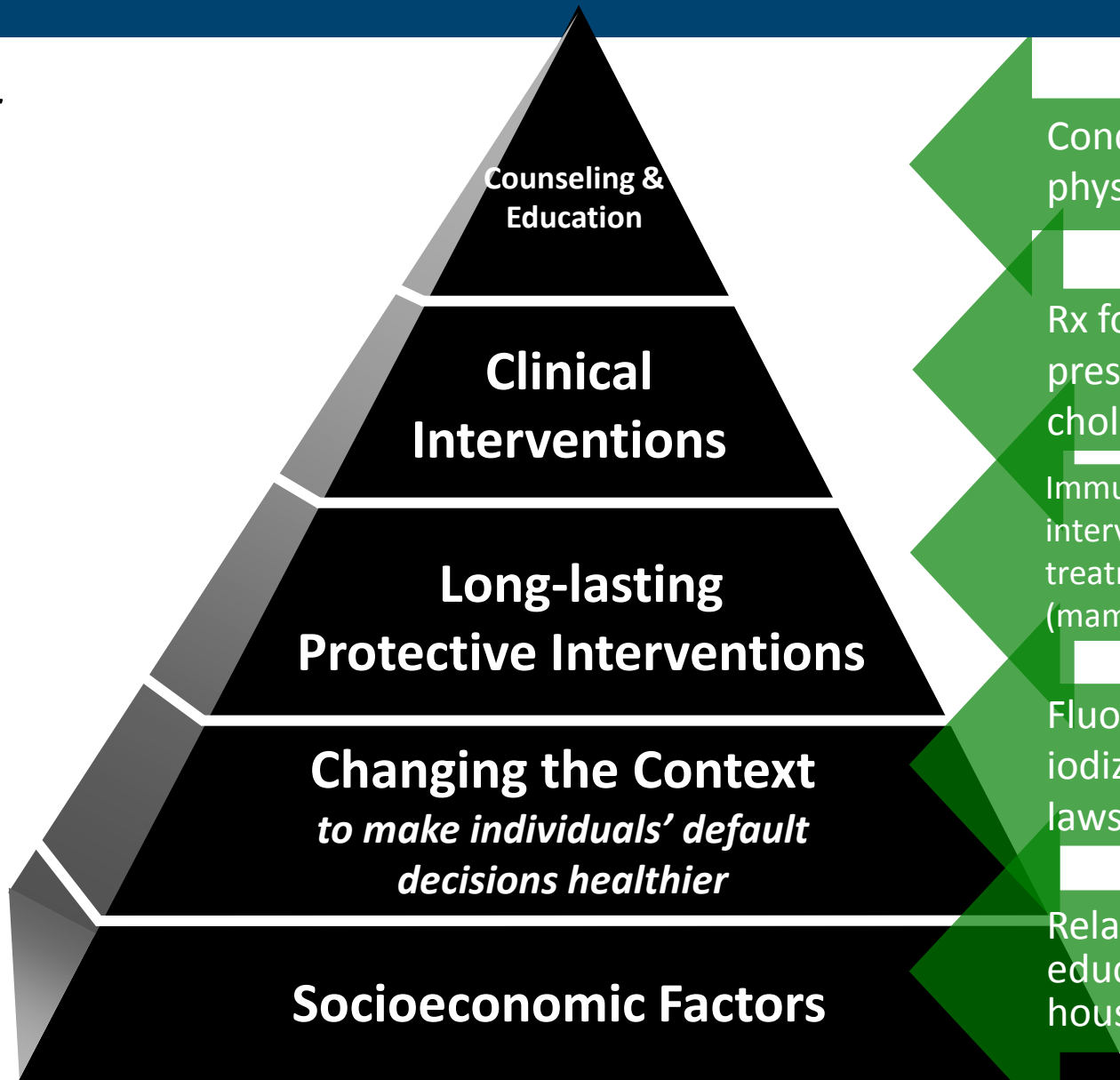
- Operating under the old paradigm
- AIDS exceptionalism
- Treatment optimism (loss of fear)
- Condom fatigue

Factors that Impact Health Outcomes

***Smallest
Impact***



***Largest
Impact***



Examples

Condoms, eat healthy, be physically active

Rx for high blood pressure, high cholesterol, depression

Immunizations, brief interventions, cessation treatment, screenings (mammography, colonoscopy)

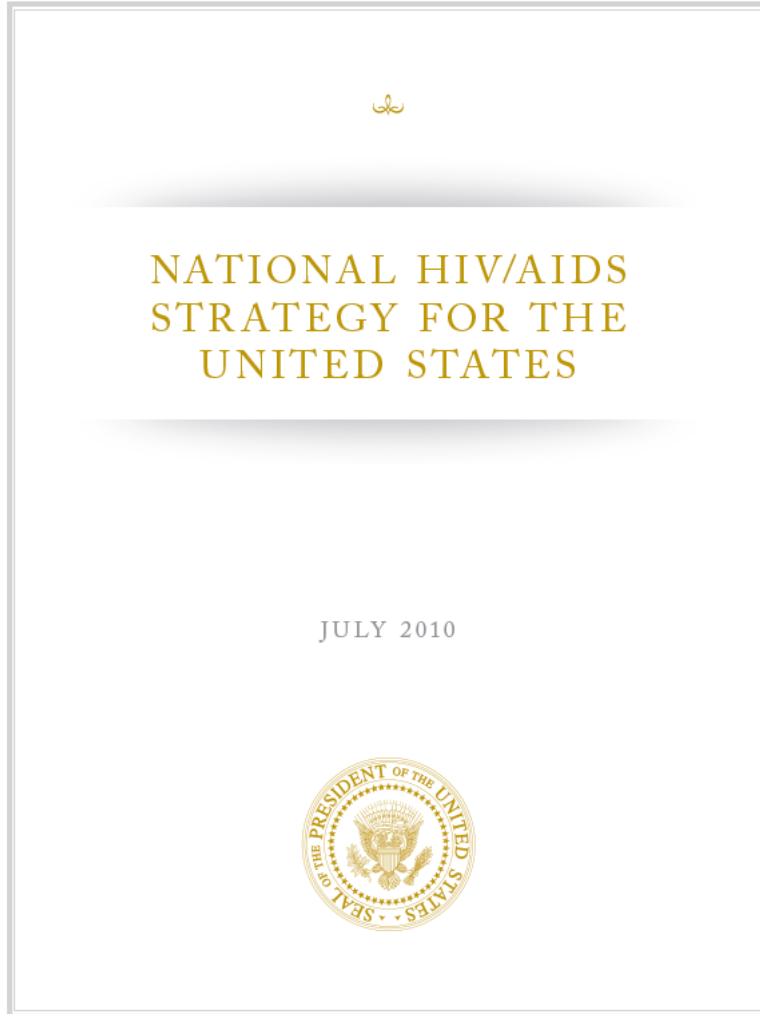
Fluoridation, 0g trans fat, iodization, smoke-free laws, tobacco tax

Relative poverty, educational attainment, housing status

Contact Info

msweeney@health.nyc.gov

National HIV/AIDS Strategy (NHAS): Primary Goals



- 1. Reducing HIV incidence**
- 2. Increasing access to care and optimizing health outcomes**
- 3. Reducing HIV-related health disparities**

www.cdc.gov/hiv/strategy



High-Impact HIV Prevention

CDC's Approach to
Reducing HIV Infections
in the United States

Centers for Disease Control and Prevention
National Center for HIV/AIDS, Viral Hepatitis, STD, and TB Prevention
Division of HIV/AIDS Prevention

Key approaches and program considerations in HIV prevention

- HIV testing and linkage to care
- ART
- Access to condoms and sterile syringes
- Prevention programs for PLWH and their partners
- Prevention programs for people at high risk of HIV infection
- Prevention programs for people at high risk of HIV infection
- Substance abuse treatment
- Screening and treatment for other sexually transmitted infections.