From Bending the Curve to Ending the Epidemic: the NYC and NJ Experience

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Disclosures

 No conflicts of interest or relevant financial/non-financial relationships to disclose

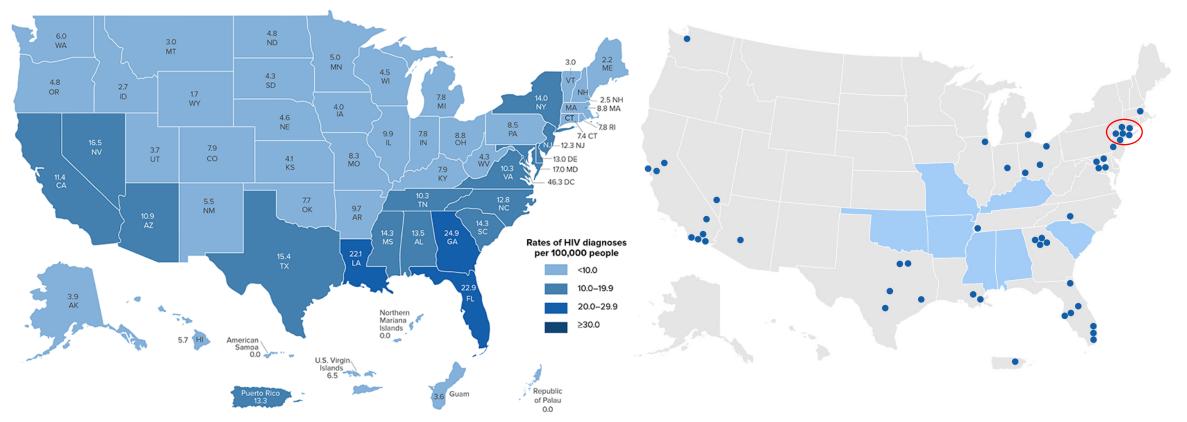
Outline

- Epidemiology of HIV in NYC and NJ
- New York City strategy
- New Jersey Strategy

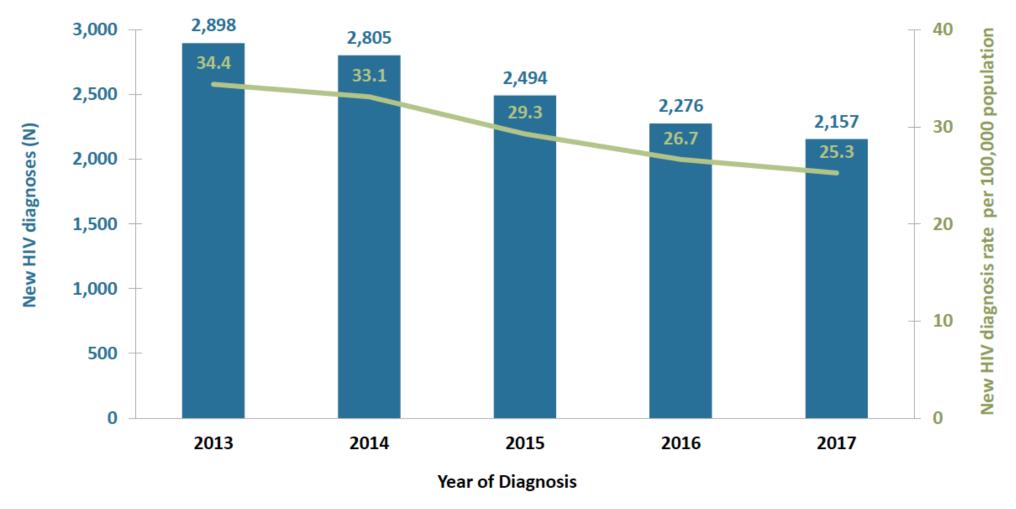
Epidemiology

Rates of HIV Diagnoses in the US, 2017

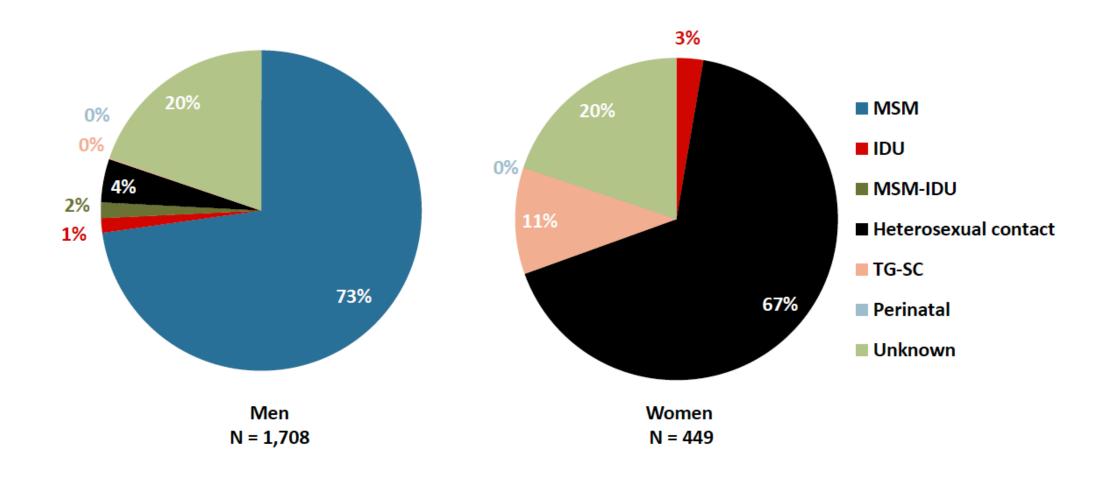
Geographic Hotspots where >50% of new HIV diagnoses occurred in 2016 & 2017



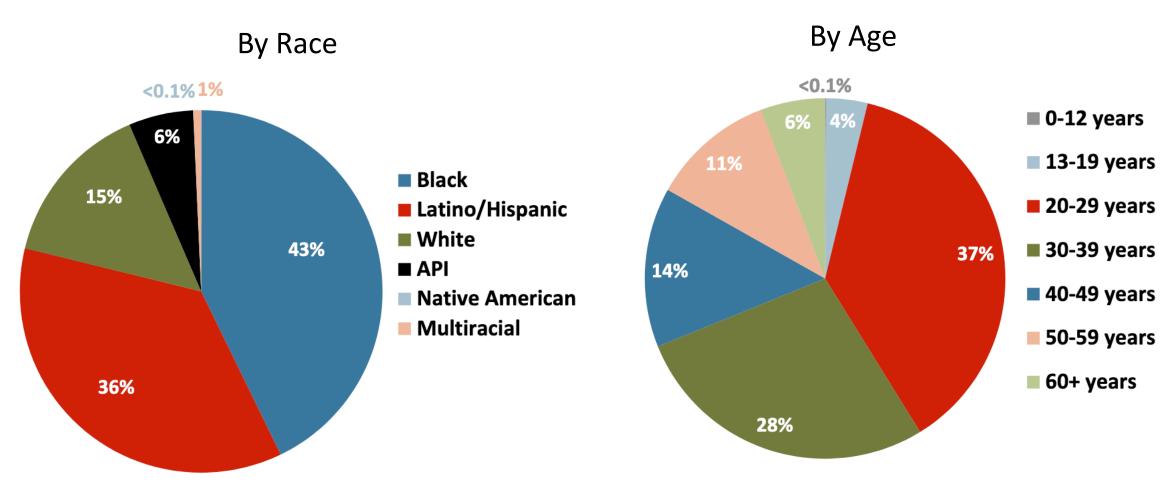
HIV in New York City



HIV in NYC by gender, 2017



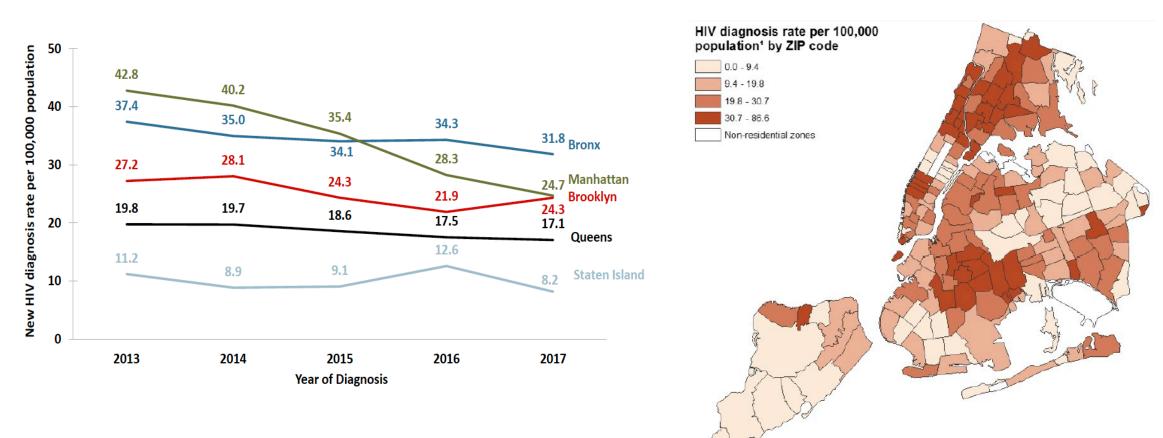
HIV in NYC by race and age, 2017



New York City HIV/AIDS Surveillance Slide Sets. New York: New York City Department of Health and Mental Hygiene, 2017. Updated November 2018. Accessed [10/24/19] at <u>HIV Epidemiology and Field Services Surveillance Slide Sets</u>.

HIV in NYC by borough

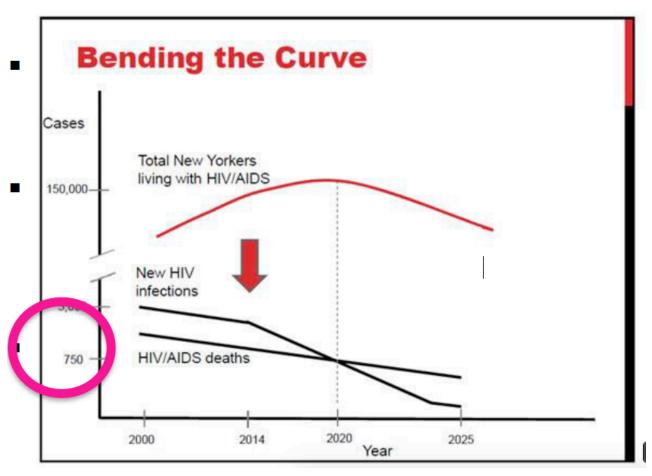
Rates of New HIV diagnoses, 2013-2017 Rate by ZIP code



New York City HIV/AIDS Surveillance Slide Sets. New York: New York City Department of Health and Mental Hygiene, 2017. Updated November 2018. Accessed [10/24/19] at HIV Epidemiology and Field Services Surveillance Slide Sets.

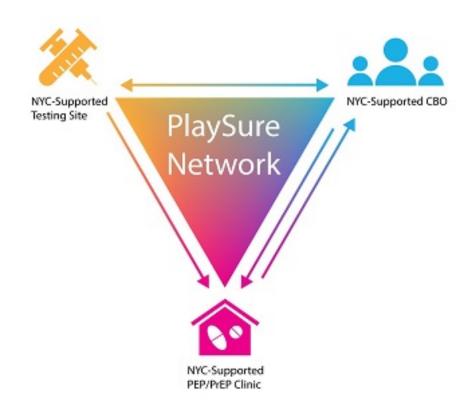
NYC: EHE goal

- Reduce the number of new infections to < 600 in 2020 by:
 - Increase access to HIV prevention services
 - Promote optimal HIV treatment
 - Enhance methods for tracing HIV transmission
 - Improve sexual health equity

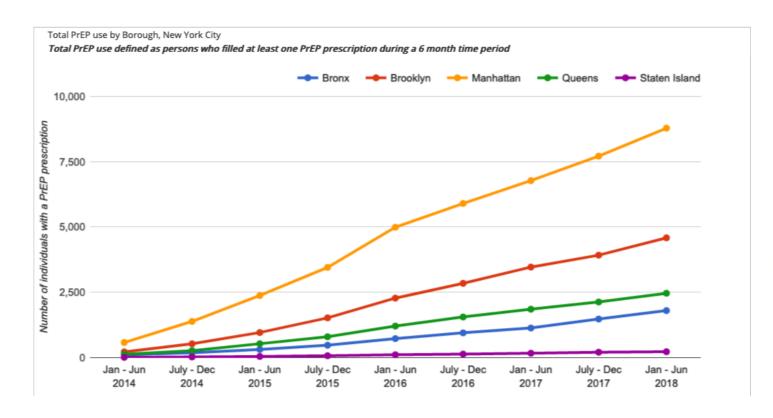


NYC: HIV Prevention

- Create citywide "PrEP Network"
- Open PEP 'Centers of Excellence' and 24 hours PEP call center
- Increase focus on young patients
- Expand #PlaySure campaign
- Increase academic detailing campaign to educate providers



NYC HIV Prevention - PrEP



INCREASE

the number of **Medicaid recipients**using PrEP to

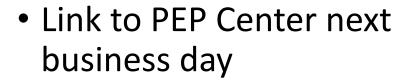
30,000

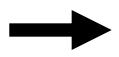


NYC: HIV Prevention - PEP

24 HR PEP line

- Clinician Staffed
- Free Start packs without a visit and sent to a 24h pharmacy

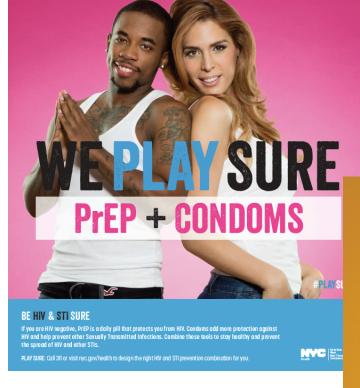




PEP Centers of Excellence

- Urgent Care Model
- Immediate start regardless of insurance status
- PrEP linkage

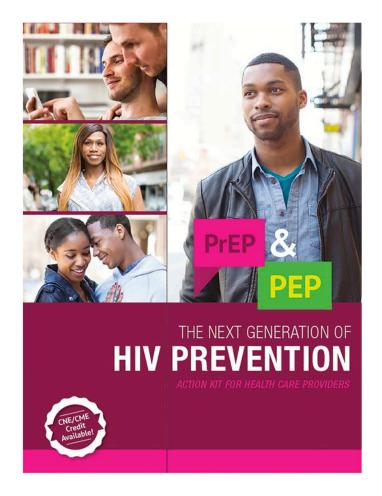
NYC: HIV Prevention - #PlaySure





NYC: HIV Prevention – Academic detailing

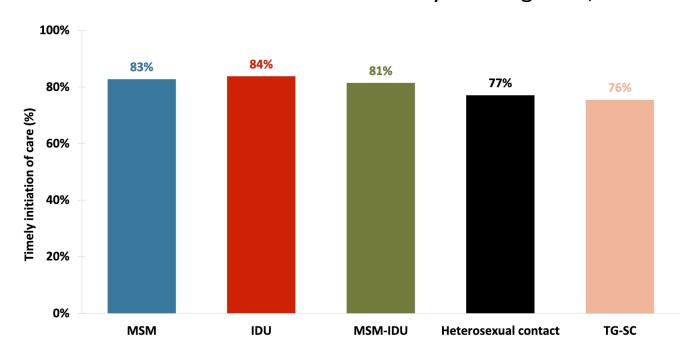
- Used to address gaps in PrEP prescribing
- Trained representatives and used visually compelling materials
- 5 nonclinician detailers
- 2014 to 2017 communicated with ~2500 providers



NYC: Improve HIV treatment

- Rapidly link to treatment
- Implement "Undetectables" model and incentivize viral load suppression
- Best practices learning collaboratives

Initiation of HIV care within 30 days of diagnosis, 2017



NYC: Improve HIV treatment – "Undetectables"

- 13 community-based health care organizations
- ~2000 people living with HIV
- Use financial incentives to promote virologic suppression
- Combination of social, medical, behavioral interventions



NYC: Monitor New Infections

- Equip the NYC Public Health Laboratory with the ability to conduct phylogenetic testing
- Integrate laboratory process into protocols for field work and outreach
- Pilot at sexual health clinics then roll out citywide

NYC: Monitor New Infections - phylogenetics

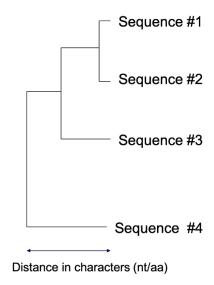
- Determines the genetic similarity between different HIV strains
- Knowledge of outbreaks (or clusters) of infections can help target resources to specific locations and/or groups

AGCUAAAGCUA... Sequence #1

AACUAAACCUG... Sequence #2

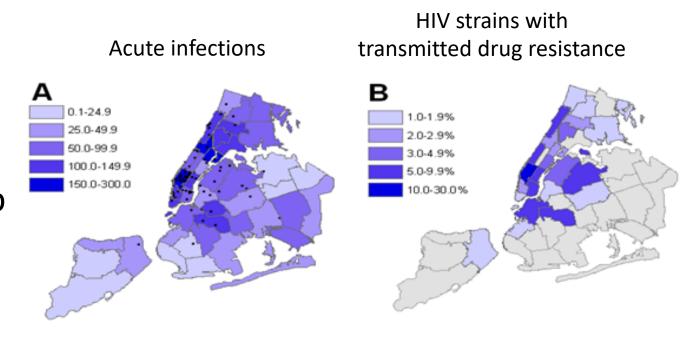
AACUCCACCUA... Sequence #3

GGUUGCACCGG... Sequence #4



NYC: Monitor New Infections - phylogenetics

- Determines the genetic similarity between different HIV strains
- Knowledge of outbreaks (or clusters) of infections can help target resources to specific locations and/or groups



NYC: Sexual Health Equity

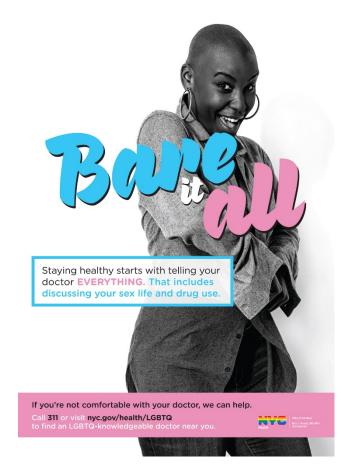
- Increase provider capacity in highly impacted neighborhoods
- Circulate a "LGBTQ Patient Bill of Rights"
- Support the #BeHIVSure LGTQ Coalition
- Bolster transgender health education organizations and programming
- Contract with CBOs to help manage use and reduce harms associated with injection drug use and crystal methamphetamine use

NYC: Sexual Health Equity

'Bare It All'

- Promote full disclosure and engagement with healthcare provider
- Directory that includes 100+ LGBTQ knowledgeable providers
- Accessible via 311 or NYC Health Map





NYC: Sexual Health Equity

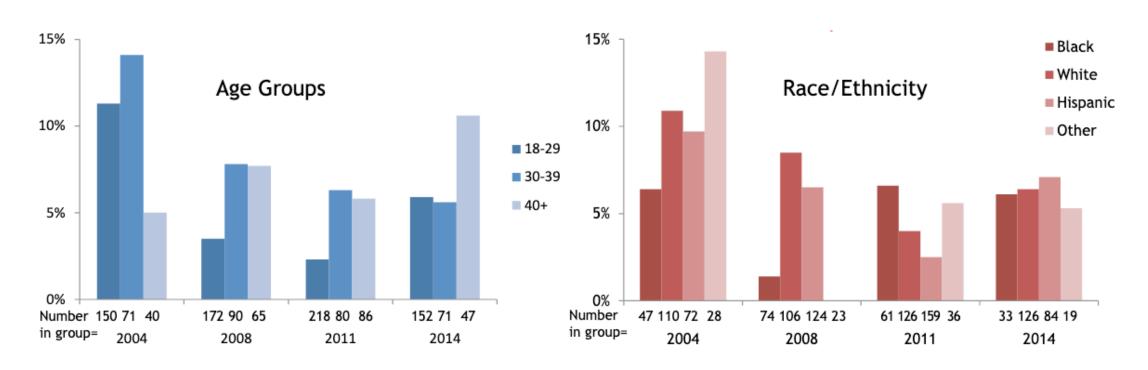


Health Care Bill of Rights

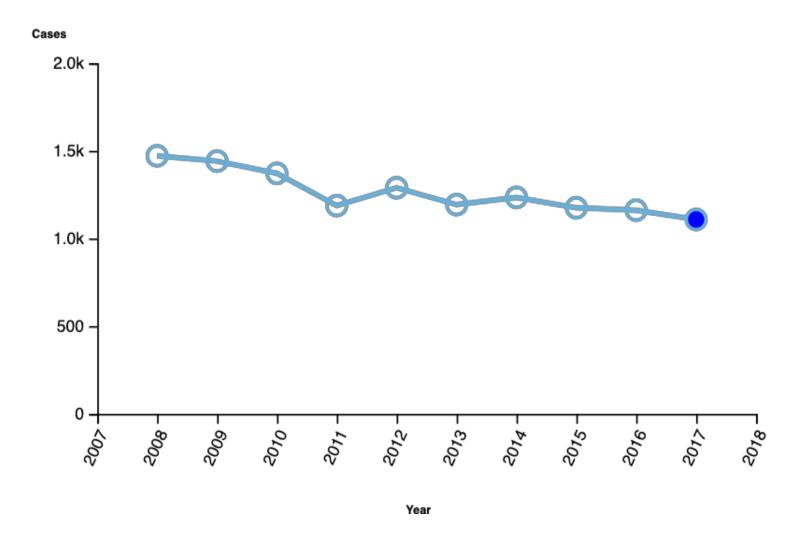
- 1. Be treated with dignity, respect and professionalism by all providers and all staff.
- 2. Receive compassionate, judgement-free and comprehensive care that is mindful of your sexual orientation, gender identity and gender expression.
- 3. Respectful discussions with providers about your health and health care needs, including your sexual history and current sex life.
- 4. Have your gender identity and gender expression recognized, affirmed, documented and accommodated.
- 5. Clear explanations of requests for your health information.
- 6. Clear explanations of all medical procedures and risks, and the right to choose or refuse any treatment.
- 7. Access health insurance coverage and benefits without discrimination based on sexual orientation, gender identity or gender expression.
- 8. Choose who will make medical decisions for you if you are unable. If you are a minor, you have the right to have your voice heard and best interests included in these decisions.
- 9. Decide who may and may not visit you if you are admitted to a health care facility.
- 10. Privacy and confidentiality.

NYC: Sexual Health Equity: methamphetamine use

Trends in NYC NHBS study participants who tested negative for HIV and used meth in the previous 12 months, 2004-2014



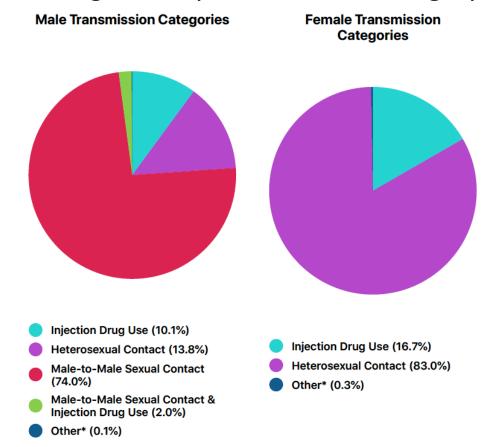
HIV in New Jersey



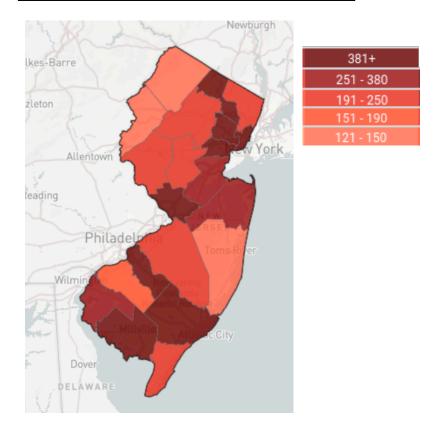


HIV in New Jersey

New Diagnoses By Transmission Category



New Diagnoses By County



New Jersey: EHE goal

- Reduce the number of new infections by 75% by 2025
- Address the social determinants of health using
 - Trauma Informed Care
 - Behavioral Health Integration
 - Housing as Healthcare
 - Peer Navigation



HIV and Trauma

- In a meta-analysis of trauma in women living with HIV
 - Recent PTSD diagnosis in 30% of women living with HIV as compared to 5.2% of HIV negative women
 - Lifetime sexual abuse in 61.1% of women living with HIV as compared to 12%
- In a study of young MSM living with HIV
 - 83.8% had witnessed violence in their community
 - 50.6% had experienced emotional or physical abuse from a parent/caregiver
- Intimate partner violence was associated with lower rates of virologic suppression in women (OR= 0.69, 95% CI: 0.40-0.99)

Principles of Trauma Informed Care

 Acknowledging the intersection of trauma and mental health and behavioral health, addiction, high-risk behavior, and homelessness are barriers to linkage and retention in care Trauma informed care is a strength-based service delivery approach, grounded in the understanding of and responsiveness to trauma and traumatic stress

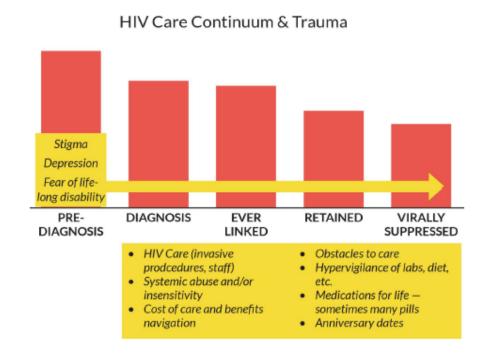




Image source: NASTAD Trauma-Informed Approaches Toolkit Image source: Psychologic Health Center of Excellence

New Jersey: Trauma Informed Care



Exploration

Regional meeting to obtain buy-in

Planning & Prep

Technical assistance and onsite education:

Integrate TIC into system

Establish willingness and culture of TIC

Implementation

Skill-based services:

Screening

Consumer education

Referral network

Psychosocial education

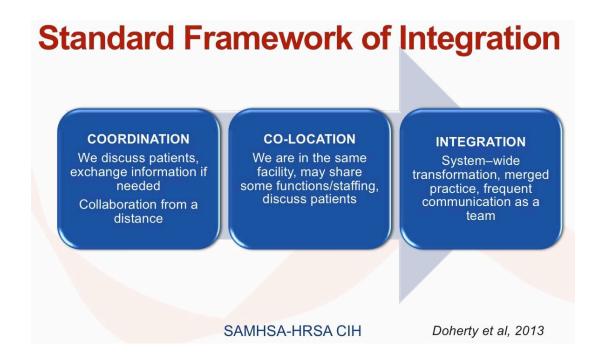
Track, monitor, coach, supervise





New Jersey: Behavioral Health Integration (B-HIP)

- Develop a system of care in New Jersey that integrates behavioral health and HIV primary care services to improve system and patient outcomes
- Goals
 - Integration
 - Improved Access
 - Improved Patient Outcomes
 - System change





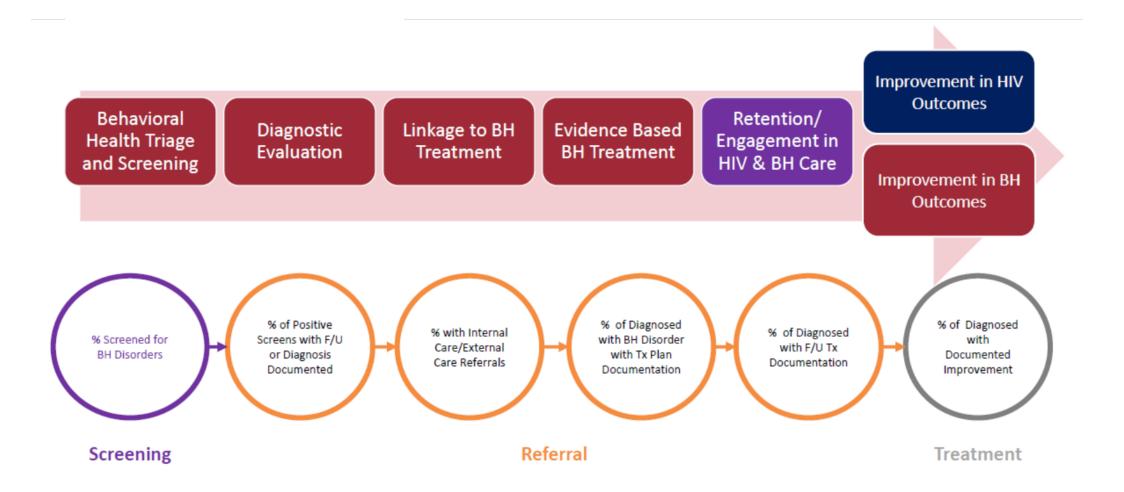








New Jersey: Behavioral Health and HIV continuum



New Jersey: B-HIP Toolbox



New Jersey: Housing as Healthcare

- New Jersey has one of the highest housing costs in the US
- In 2013, approximately 3% of PLWH experienced homelessness
- Recent outbreak of hepatitis A in homeless people who use drugs
- Ongoing HIV outbreak in homeless people who inject drugs
- Improved housing:
 - Reduces HIV risk behaviors
 - Improves access to medical care
 - Improves health outcomes
 - Saves taxpayer dollars

New Jersey: Statewide Housing

- Transitional housing
 - Comprehensive HIV treatment and supportive services, case management, mental health, and substance treatment
 - 24 hour Hotline to link to emergency shelter within 2 hours
 - Housing navigation by Community Health Worker or Housing Ambassador



New Jersey Housing: Special Populations - YMSM

- Housing for 24 months
- Medical provider and case management
- House nurse for DOT
- Mental health services
- Psychosocial support
- Medical visit transportation



New Jersey Housing: Special Populations - Women

- Women facing intimate partner violence or history of early childhood trauma
 - Approximately 5000 women living in the City of Newark are eligible
- Housing for 6-24 months
- Medical provider and case management
- Mental health services
- Women's health expert
- Trauma Informed Care model



New Jersey: Peer Navigation

Benefits:

- Share lived experiences
- Support outreach and re-linkage to care
- Promote adherence and emotional support
- Provide social networking for wellness

Areas of Improvement:

- Increase CHW's abilities to access and document information in patient records
- Formally integrate CHWs into clinical care teams
- Increase community-level education.



Conclusions

- Ending the epidemic in NYC and NJ is feasible
- Health disparities in testing, treatment and prevention are being targeted
- Trauma informed care, increased behavioral health treatment, and improved housing are fundamental for successful HIV treatment and prevention

Thank you!