

Programme Science: View from a Community Setting



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“No, we are not twins.”



Project Explore (N=4295)

Predictors of Incident HIV Infection

- **Demographics:** Non-White, and younger MSM
- **Unprotected anal**, or unprotected oral exposure to ejaculate of HIV+ or unknown status partners
- **Partners:** ≥ 4 partners versus 1 or no partners; HIV+ or unknown status partner
- Use of non-injection **drugs**, IDU, heavy alcohol, and alcohol or drugs before sex
- Self-reported **STDs**
- Moderate scores on **depression** scale

The Effects of “Syndemics” on HIV Risk in MSM

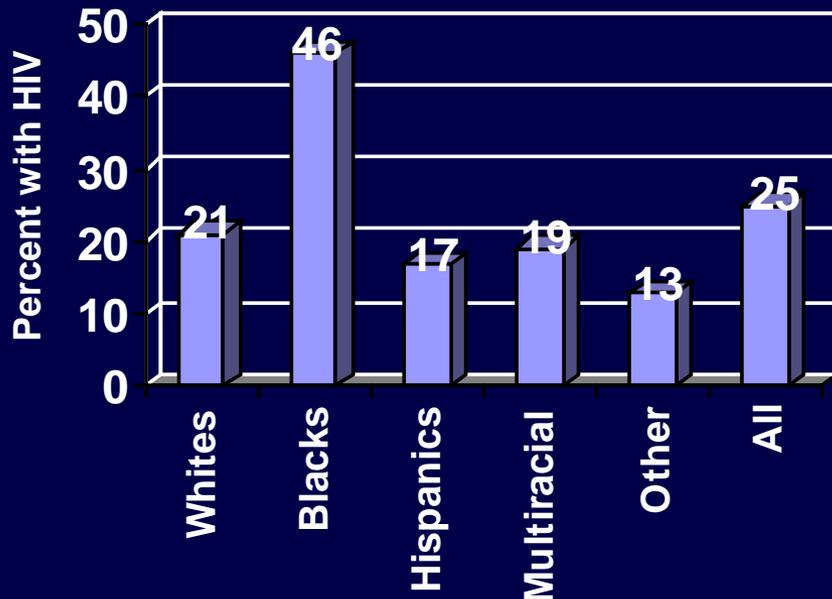
- Cross sectional household telephone survey of MSM in Chicago, LA, New York ,and SF (N = 2881)
- Prevalence and interconnectedness of depression, poly drug use, childhood sexual abuse, and partner violence
- Additive effects: Odds ratios increased as did number of these psychosocial health problems

	1 problem	2 problems	3 and 4 problems
High risk sex (<i>P</i> <.01)	1.6	2.4	3.5
HIV prevalence (<i>P</i> <.001)	1.8	2.7	3.6

The HIV Hyper-Epidemic among U.S. Black MSM

High HIV prevalence despite significantly lower rates of high risk behaviors

HIV Prevalence Among MSM,
5-City CDC Survey, 2004-2005



- Young Black MSM less likely than young white MSM to engage in unprotected anal sex
- Black MSM less likely than white MSM to use drugs associated with risk of HIV infection
- Black MSM are more likely to engage in sex with other Black MSM, than other racial partners
- High rates of Bacterial and Viral STI potentiate HIV transmission
- Impact of dual stigmas?

- **Interventions focusing solely on traditional individual risk behaviors may not be the most effective**

The Impact of Stigma and Discrimination



Are U.S. MSM Using PrEP?

Pre-iPrEx (n=458) & Post-iPrEx (n=4,325)

(Fenway Manhunt Study; IAS Rome)

PrEP Knowledge and Use Intentions

	Heard of PrEP	Would Use PrEP if Available
Pre-iPrEx	12.7%	76.9%
Post-iPrEx	18.6%	78.4%

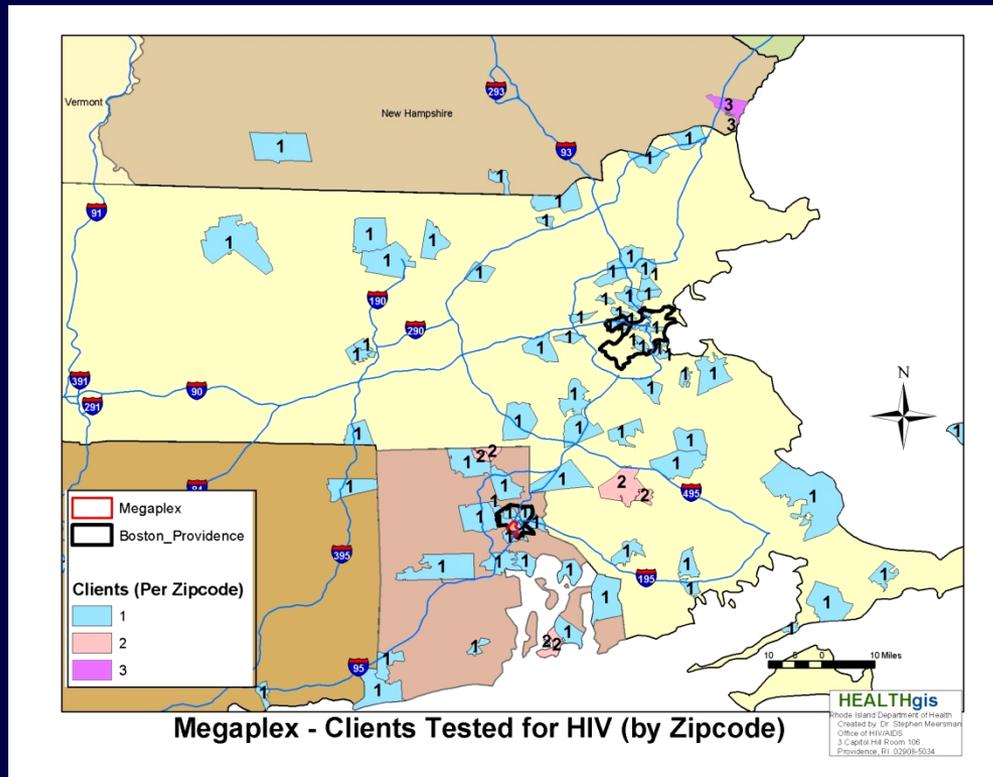
• Significant increase in PrEP awareness Post-iPrEx; $p < 0.05$

• Prevalence of PrEP use post-iPrEx: 0.8%; PEP use: 1.8%

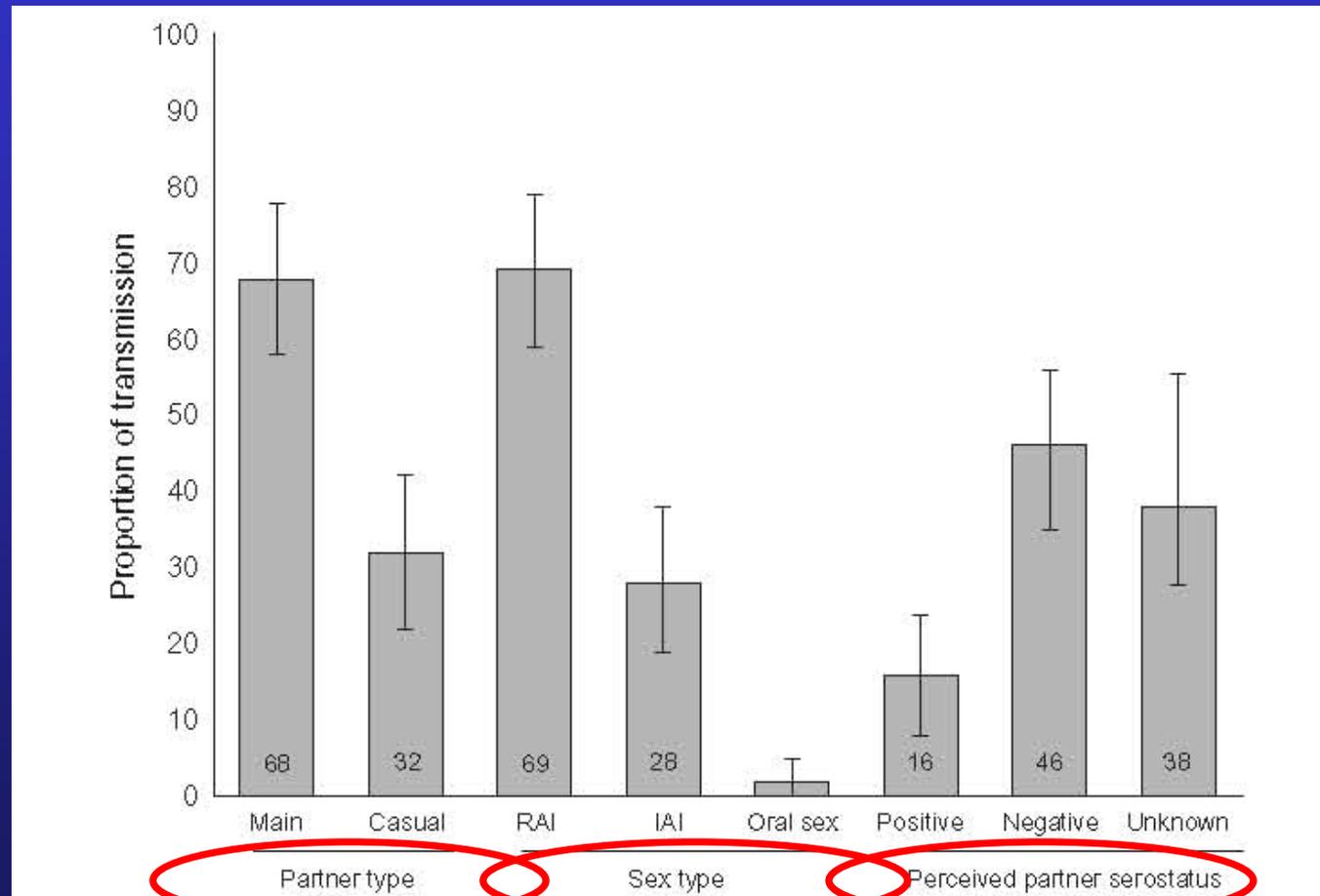
Unprotected Sex, Underestimated Risk, Undiagnosed HIV and STDs Among MSM Accessing Testing Services in a New England Bathhouse

Mayer et al, JAIDS, 2012

HIV prevalence 2.3%, syphilis 2.0%



Estimated proportion of HIV transmissions among MSM, 2003-2005



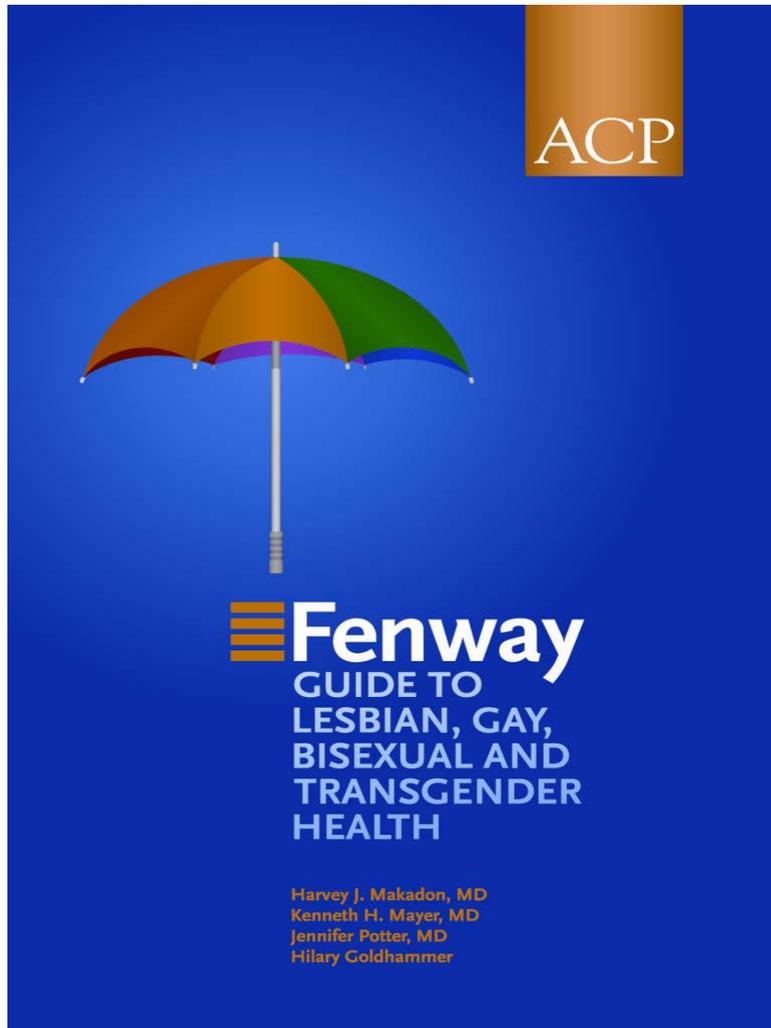
Sullivan et al. AIDS 2009, 23:1153-1162.

Black MSM and Recent HIV Screening, Massachusetts (N=145)

- Bivariate associations with not testing:
 - less education
 - less engaged in community activities
 - serodiscordant anal sex
 - substance use
 - difficulty with condoms
 - did not have a PCP.
- Only multivariable association with testing:
provider recommended HIV test at last visit
(controlling for age and education).

Mimiaga, et al, *AIDS Patient Care STDs*, 2009

Cultural Competence



-Do you create a welcoming environment?

-How is risk assessed?

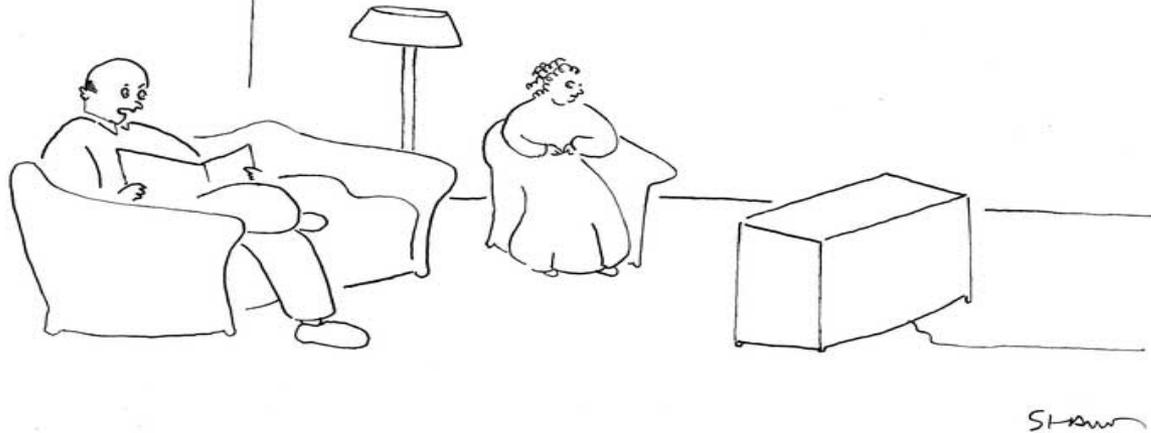
-Are culturally appropriate resources and referrals available to address other medical, mental health and social concerns?

Resources for Clinicians:

www.thefenwayinstitute.org

Structural changes and MSM/LGBT health

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“Gays and lesbians getting married—haven’t they suffered enough?”

- ❑ Hatzenbuehler: ↑LGBT teen suicide in nonsupportive Oregon counties (Pediatrics, 2011)
- ❑ MSM at Fenway had ↓ medical and MH costs after marriage equality (AJPH, epub, 2011)

Thank You

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