

8th International Conference on HIV TREATMENT AND PREVENTION ADHERENCE

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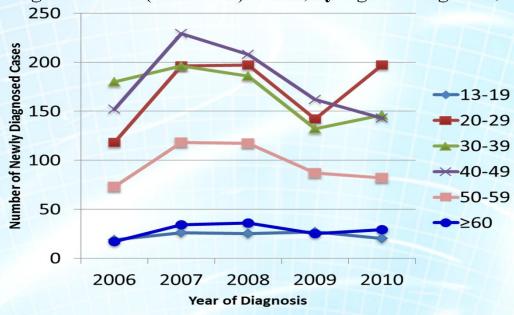
Postgraduate Institute for Medicine

Assessing Pre-exposure Prophylaxis
Knowledge, Attitudes, and Potential
Uptake among Adolescents and Young
Adults at High-Risk for HIV in
Washington, DC

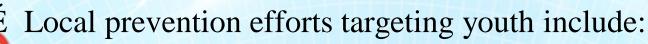
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HIV/AIDS among Youth and Young Adults in Washington, DC

Newly Diagnosed HIV (not AIDS) Cases, by Age at Diagnosis, 2006-2010



É 69% of chlamydia infections and 59% of GC infections among 15-24 yr. olds



- 8th International Conference on HIV TREATMENT AND PREVENTION ADHERENCE
- » Condom distribution
- » School-based STD screening program
- » Educational efforts focused on HIV prevention

PrEP Among Youth and Young Adults

- É Unique prevention issues in this population (Rudy et al)
- É Qualitative data show mixed results regarding interest, concerns, and preferences of young adults (Smith et al)
- É Project PrEPare found high acceptability but low adherence among YMSM (Hosek et al)

DC PrEP Studies:

- É HPTN 069- Phase II, Maraviroc in MSM
- É HPTN 073-Black MSM
- É ATN 110- Truvada among YMSM
- É DC DOH HAHSTA

 Medicaid Demonstration

 Project
- É WWH PrEP Demonstration Project



Study Objective

É To measure PrEP knowledge, acceptability, and potential use among sexually-active, clinic-attending adolescents and young adults in Washington, DC



Study Methods

- É Focus groups among MSM, high-risk heterosexuals, adolescents
- É Conducted survey at 3 clinic sites in DC
 - ó WWH Gay Menøs Health and Wellness Clinic
 - ó DC Dept of Health Southeast STD Clinic
 - ó CNMC Goldberg Adolescent Clinic

É Self-administered web-based surveys completed on iPads



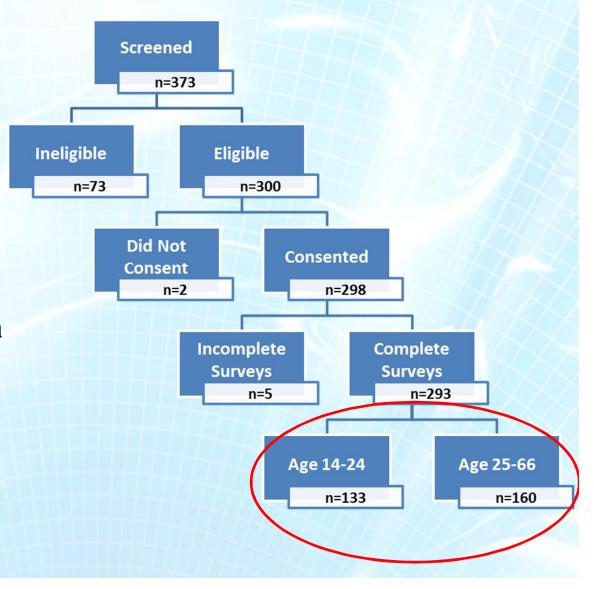


Results: Survey Eligibility and Recruitment

É Eligibility criteria:

- ó 13 or older
- ó Self-reported HIV negative
- ó Had sex in last 6 months
- ó Able to complete survey in English
- ó Able to provide informed consent with waiver of parental consent for minors

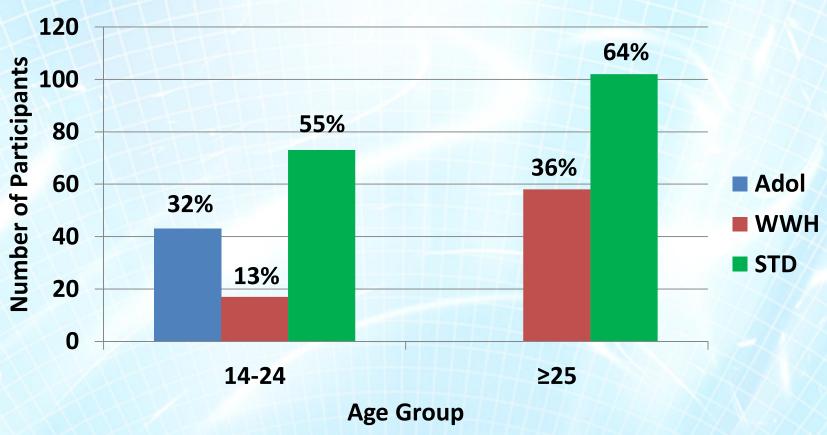




Analytic Methods

- " Captured information regarding:
 - . Participant demographics
 - . HIV risk behaviors
 - . Health-seeking behaviors
 - . PrEP knowledge, experience, acceptability, and potential uptake
- " Calculated descriptive statistics
- "Conducted bivariate and ordinal logistic regression analyses to identify differences in willingness to use PrEP by age group

Age Distribution by Recruitment Site





Participant Characteristics (N=293)

| Characteristic | 14-24 yrs N (%) | ≥25 years N (%) |
|---|--------------------|--------------------|
| Median age (range) | 20 (14-24) | 37 (25-66) |
| Male | 54 (41) | 111 (31) |
| Non-Hispanic Black | 106 (80) | 106 (66) |
| Insurance: public | 71 (53) | 62 (39) |
| Regular healthcare provider | 83 (62) | 96 (60) |
| Location for receipt of healthcare: community health center | 35 (26) | 67 (42) |
| Number of healthcare visits in last year: 1-4 | 102 (77) | 119 (74) |



HIV Risk Factors and Behaviors (N=293)

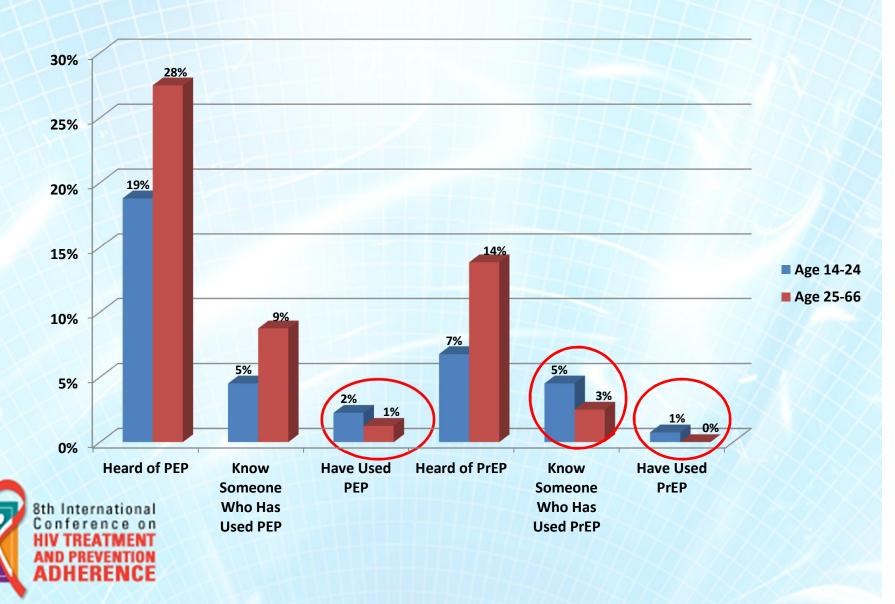
| Characteristic | 14-24 yrs N (%) | ≥25 yrs N (%) |
|--|--------------------|------------------|
| Sexual behavior | | |
| Homosexual/bisexual male | 23 (42) | 44 (40) |
| Heterosexual male | 32 (58) | 65 (59) |
| Heterosexual/bisexual female | 70 (90) | 44 (90) |
| In a committed relationship | 80 (61) | 94 (60) |
| Number of main sex partners (median, range) | 1 (0-15) | 1 (0-33) |
| Number of casual sex partners (median, range) | 1 (0-35) | 2 (0-30) |
| Injected drugs | 0 (0) | 7 (4) |
| Used condoms: most of time/always | 66 (50) | 76 (48) |
| Knew sex partners' HIV status: most of time/always | 71 (58) | 84 (58) |
| Self-reported HIV risk: none-low | 94 (71) | 98 (61) |

Reported Medication Adherence Behaviors (N=97)

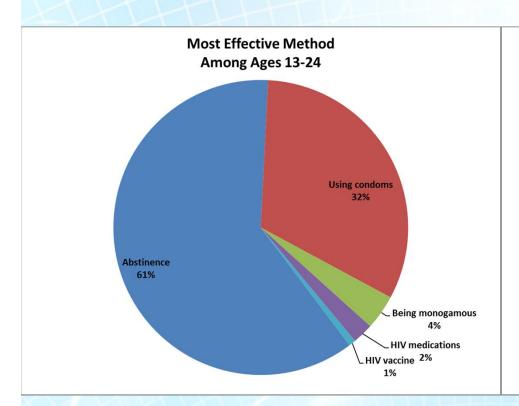
| Characteristic | 14-24 yrs N (%) | ≥25 yrs N (%) |
|--|--------------------|------------------|
| Take a daily medication | 38 (29) | 59 (37) |
| Sometimes forget to take medication | 26 (68) | 37 (63) |
| Number of missed doses in past 14 days (median, range) | 2 (0-14) | 1.5 (0-14) |
| Ever stopped medication due to side effects or feeling worse | 10 (26) | 19 (33) |
| Didn't tell HCP when cut back or stopped taking medication | 12 (32) | 19 (33) |

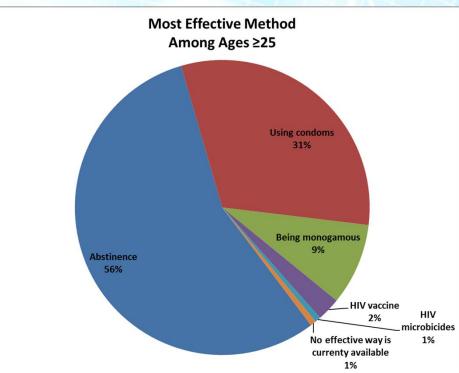


Knowledge and Use of PEP and PrEP



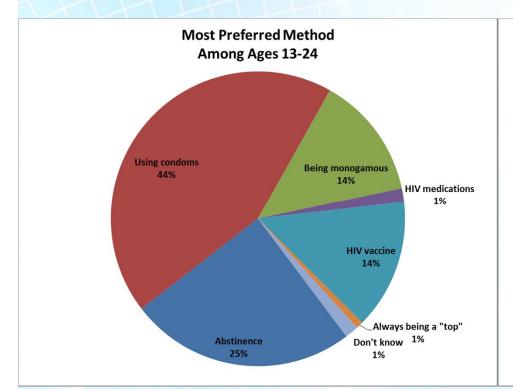
Most Reported Effective HIV Prevention Methods

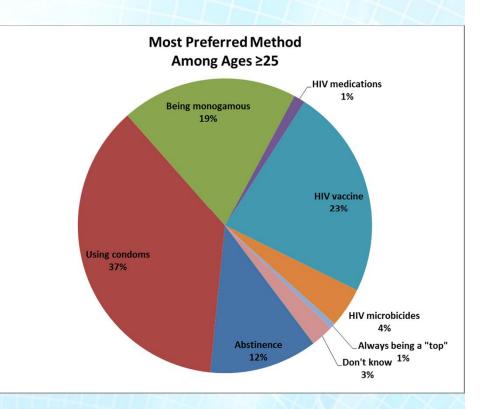






Most Reported Preferred HIV Prevention Methods







Willingness to Use PrEP

| Characteristic | 13-24 yrs N (%) | ≥25 yrs N(%) | p-value |
|--|--------------------|-----------------|---------|
| Willing to use PrEP if safe | 99 (74) | 128 (80) | 0.22 |
| Willing to use if few or no side effects | 83 (62) | 125 (78) | 0.02 |
| Willing to take as a daily pill | 85 (64) | 93 (58) | 0.09 |
| Would prefer to take after sex | 26 (20) | 51 (32) | 0.004 |
| Difficult to use both condoms and daily PrEP (disagree) | 86 (65) | 91 (57) | 0.12 |
| Worry about what others would think if found out on PrEP | 50 (38) | 47 (30) | 0.68 |
| Would be ashamed to take daily PrEP | 21 (16) | 23 (14) | 0.92 |
| Willing to use if offered by a provider | 83 (62) | 113 (71) | 0.02 |
| Able to follow a provider's instructions on PrEP | 90 (68) | 123 (77) | 0.03 |

Ordinal Logistic Regression: Willingness to Use PrEP

| OR | 95%CI |
|-----|-------------------------------------|
| 1.3 | (0.8, 2.0) |
| 1.9 | (1.3, 3.0) |
| 1.1 | (0.6, 2.1) |
| 1.8 | (1.2, 2.7) |
| 1.5 | (1.0, 2.3) |
| 1.4 | (0.9, 2.1) |
| 1.0 | (0.7, 1.5) |
| 1.0 | (0.7, 1.5) |
| 1.4 | (0.9, 2.1) |
| 1.4 | (0.9, 2.2) |
| | 1.3 1.9 1.1 1.8 1.5 1.4 1.0 1.0 1.4 |



Willingness to Use PrEP

É Cost

- ó Willing to pay median \$20/month
- ó Would take if free/insurance covered: 77% somewhat-very likely

É Future Use and Interest

- ó Interested in learning more about PrEP: 82% agree
- ó Would participate in a PrEP research study: 30.0% very likely



Conclusions

- É Youth generally accepting and open to learning more about PrEP
- É Potential barriers: limited knowledge of PrEP and potential problems with adherence
- " Results consistent with other studies documenting
 - "Low levels of awareness but high levels of willingness to learn more (e.g. MSM, heterosexuals)
 - "Youth interest due to cost and effectiveness but side effects as potential barrier (Smith et al)
 - " DC youth FG: concerns regarding adherence
- Findings can inform educational initiatives, future studies, and scale-up of PrEP among this population

Acknowledgments

GWU

- É Gia Baldolato
- É Annie Byers
- É Alice Cates
- É Omoro Omoighe
- É James Peterson
- É Gregory Phillips, III
- É Paul Poppen
- É Sam Simmens
- É Richard Teran

WWH

- É Richard Elion
- É Justin Goforth
- É Rodney Perkins

CNMC

- É Larry D'Angelo
- É Connie Trexler

DC DOH HAHSTA

- É Adrienne Charles
- É Michael Kharfen
- É Shukdeo Sankar











Funding Support: GW/CNMC CTSI Community Engagement Award, Emory CFAR, DC Dept. of Health-GWU Public Health-Academic Partnership

Questions

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