

#ADHERENCE2016 Ending AIDS as a Public Health Threat: The Power of Change

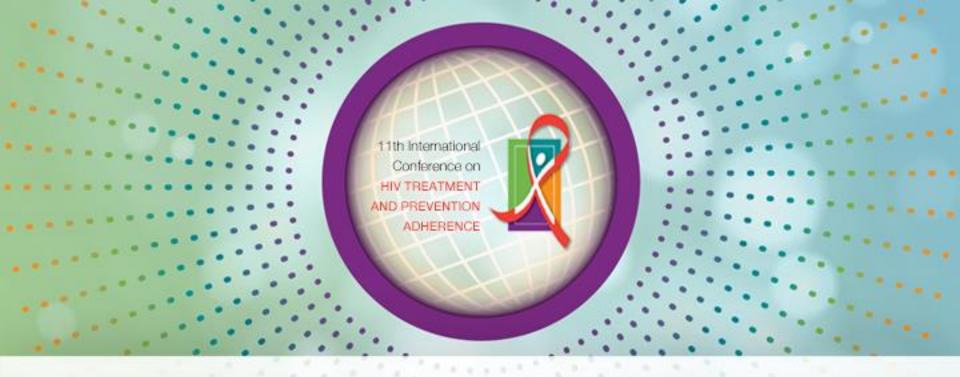
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Changing Attitudes Toward PrEP among Sexually Risky Men who have

Sex with Men

Conall O' Cleirigh, Abigail Batchelder, Aaron Blashill, Julia Tomisselli, Peter Ehlinger, Steven A. Safren, Kenneth H. Mayer

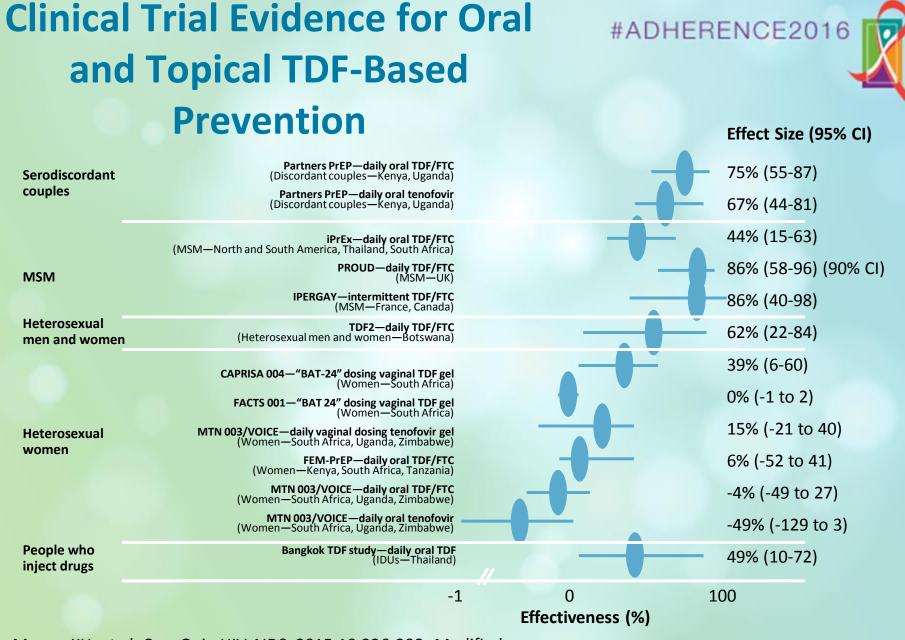
The Fenway Institute

Massachusetts General Hospital, Harvard Medical School, Boston, MA University of Miami, Miami Florida

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Mayer, KH, et al. Curr Opin HIV AIDS. 2015;10:226-232. Modified from AVAC Report. 2013.



PROUD Study: Results

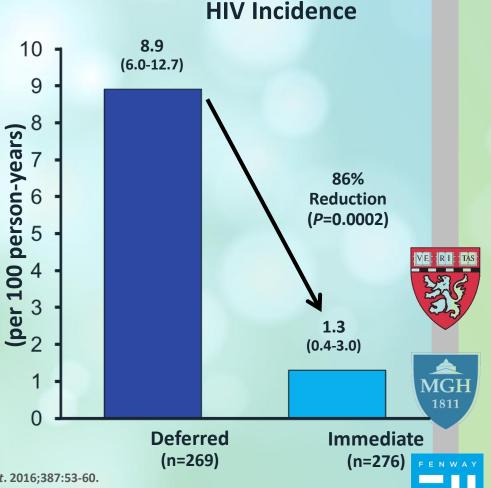
Significantly fewer new HIV infections with immediate versus deferred PrEP (3 versus 20 cases)

86% reduction (P=0.0002)

Incident HIV infection in the immediate group

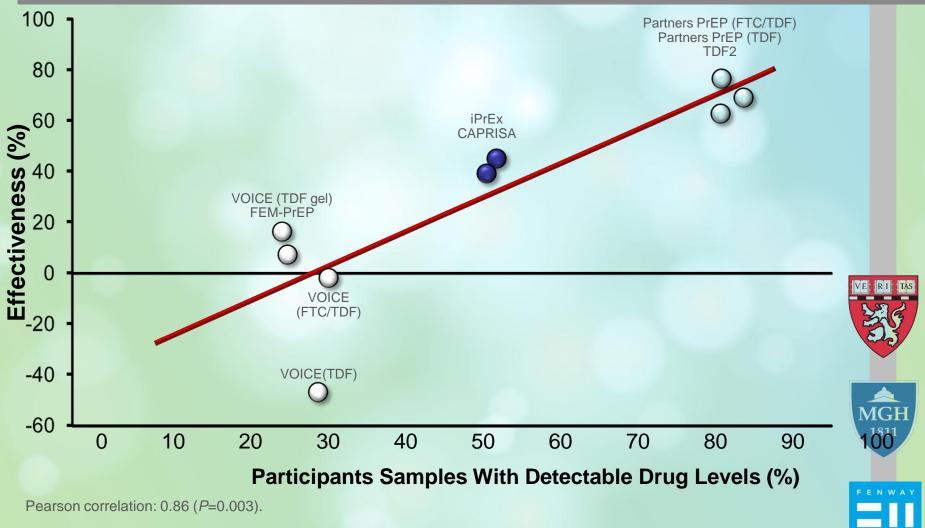
- HIV infection predated start of ART (n=1)
- No drug/not adherent (n=2)

Number needed to treat to prevent 1 HIV infection: 13



HIV Incidence

PrEP Is Effective: Adherence Is Critical



AVAC Report 2013. http://www.avac.org/sites/default/files/resource-files/AVAC%20Report%202013_0.pdf.



PrEP in the Media

The New Hork Times

RESEARCH

Daily Pill Greatly Lowers AIDS Risk, Study Finds

By DONALD G.McNEIL Jr. NOV. 23, 2010

Healthy gay men who took an anti-AIDS pill every day were well protected against contracting H.I.V. in a study suggesting that a new weapon against the epidemic has emerged.

iPrEx Study

PROUD Study

The Washington Post

To Your Health

In new study,100 percent of participants taking HIV prevention pill Truvada remained infection-free

By Arlana EunJung Cha September 4,2015

As far as emotions go, AIDS researchers tend to be a staid bunch who look skeptically at every new finding. But the results of a study released this week on an HIV prevention drug have many cheering.







PrEP and MSM

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Barriers to PrEP among MSM include:

- HIV-related stigma,
 - Oldenburg, Perez-Brumer, et al., 2015; Taylor et al., 2013)
- Perceived promiscuity,
 - (Calabrese & Underhill, 2015)
- Substance use
 - (Taylor et al., 2013; Van der Elst et al., 2013)
- PrEP uptake rates vary by geographic location (Haire, 2015; Hood et al., 2016; Kelley et al., 2015)
- No differences on willingness to take PrEP among sexual risky MSM based upon background and demographic characteristics
 (Grov C, Whitfield, Rendina, Ventuneac, Parsons, 2015)







- To examine differing attitudes toward PrEP among MSM within subjects over time.
- To examine differing attitudes toward PrEP among MSM between subjects over time.
- To identify correlates of positive attitudes toward PrEP







Accrual Period: 6/2012 – 4/2014

Longitudinal

Wave 1:	Baseline
Wave 2:	3 months post baseline

Office Visits

HIV Testing and Counseling CASI Questionnaires

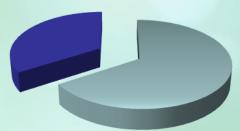
Retention Rate: 66%

Wave 1: 199 enrolled Wave 2: 131 retained No significant differences

Wave 1 Enrollment (n=199)

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Retained at Wave 2
Attrition at Wave 2





Assessments

Perceived Effectiveness of PrEP

(0) Not at all effective
(1)Slightly effective
(2)Moderately effective
(3)Very effective
(4)Extremely effective
Don't know

PrEP as a potential prevention strategy is...

(1) An excellent idea
 (2) A good idea
 (3) A fair idea
 (4) A poor idea
 Don' t know









Assessments

Demographics

Mental Health (PHQ) Depression Panic Disorder

Substance Use Disorders (MINI) Alcohol Use (CAGE)

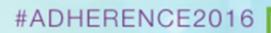
Trauma Related Measures → CSA (Adapted from THRIVE clinical interview) → IPV (Adapted from HPTN 061) → HIV Stigma Scale

Social Support Scale









Inclusion Criteria

- 18 years or older
- HIV-uninfected
- No current use of PrEP
- Sexual Risk Behaviors
 - 4 or more male anal sex partners in past 6 months
 - Condomless anal sex with a HIV-positive or status unknown male partner in past 6 months
 - Exchange of money, gifts, shelter, or drugs for sex with male partner in past 6 months





#ADHERENCE2016 Participants Completed Baseline (n = 199)

Demographics			100 C	100		
Age (SD)		36.9 (11.7)	Sexual Orientation	Gay	76.6%	
Race	White	66%		Hetero	4.3%	
Nace	Black	20%		Bi	18.5%	
Ethnicity	Hispanic or Latino	16.0%		Other	2.0%	
						VE RI TAS
Race/Ethnicity		Sexual Orientation				
- White					■ Gay ■ Hetero	MGH 1811

Black

Hispanic

■ Bisexual ■ Other





Results

Longitudinal Mean Comparisons

PrEP as good HIV Prevention Strategy (n = 131)

<u>Baseline</u>		
Mean 1.95 (.87)		
t (130) = -1.43, p = .15		

<u>3 month F/U</u> Mean 2.04 (1.0) Not Significant

PrEP as Effective (n = 125)

<u>Baseline</u> Mean 2.36 (.94) t (124) = -3.74, p < .001 3 month F/U Mean 2.83 (1.2) Significant







Results

Cross Sectional Mean Comparisons

PrEP as good HIV Prevention Strategy

<u>6/2012 – 3/2013 (n = 116)</u>

Mean 2.07 (.89) *"good prevention"*

t (184) = -1.98, p = .049

4/2013 – 4/2014 (n = 81) Mean 1.82 (.82) "good/excellent prevention" Significant

PrEP as Effective <u>6/2012 – 3/2013</u> Mean 2.13 (1.08) "moderately effective" t (156) = -3.35, p = .001

4/2013 - 4/2014

Mean 2.66 (.81) "very effective" Significant







Significant Correlates of PrEP as good HIV Prevention Strategy

- Substance Use Disorders (better)
- CSA (Adolescence) (worse)
- Sexual IPV (worse)

Significant Correlates of PrEP as Effective

- Social Support (positively)
- Alcohol Abuse (CAGE) (negatively)
- HIV Stigma (negatively)









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- Findings derived from a community based convenience sample and may not be broadly generalizable
- Sample size for those recruited during the final year of accrual is modest and power to detect some relationships may not have been adequate
- All assessments were based upon self report and are vulnerable to the biases of that methodology
- The context in which PrEP is perceived and evaluated is ever changing and data collected 18 months ago may not accurately reflect current perceptions



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Conclusions

View PrEP as an HIV Prevention Strategy

Initial evidence suggests that sexually risky MSM view PrEP more positively over time

More likely to view PrEP as a good prevention strategy

- MSM who report sexual trauma as adolescents or adults view PrEP as a potential HIV prevention strategy significantly less positively.
- MSM with substance use disorders view PrEP as a potential HIV prevention strategy significantly more positively.



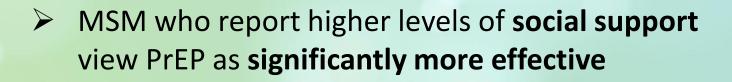


#ADHERENCE2016 Conclusions View PrEP as Effective

Initial evidence suggests that sexually risky MSM view PrEP more positively over time

More likely to view PrEP as effective

MSM who abuse alcohol or who report higher perceived HIV stigma view PrEP as significantly less effective







Conclusions

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MSM view PrEP more positively over time (more likely to view it as effective and more likely to consider it as a good HIV prevention strategy)

MSM who report higher levels of HIV social support and who have substance use disorders are more likely to view PrEP more positively than those who do not. Focused PrEP uptake programs may usefully focus on these subgroups of gay and bisexual men and may indicate the need for integrated treatment programs that address substance use among MSM considering PrEP.

MSM with sexual trauma, high levels of HIV stigma, and who abuse alcohol are less likely to view PrEP positively. This suggests that PrEP education programs in these subgroups may benefit MSM.





Collaborators

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