

**AIDS ACTION BALTIMORE'S
PrEP UP PROGRAM**

CROI 2017 PrEP UPDATE

Lynda Dee

March 29, 2017

AIDS ACTION BALTIMORE

PrEP UP

AIDS ACTION BALTIMORE'S PrEP UP PROGRAM

- **Please Sign the Sign-In Sheet**
- **Please Complete an Evaluation**
- **AAB: 410-837-AIDS - (410) 837-2437**
- **FB: PrEP UP or aidsactionbaltimore.org**

AIDS ACTION BALTIMORE'S PrEP UP PROGRAM

- **MSM TRANSMISSION RATES & MD PrEP USE**
- **CROI 2017 PrEP UPDATE**
- **CDC HIV INCIDENCE REPORT**
- **NEW CASE OF HIV WHILE ON PrEP**
- **STI PREVENTION STUDY: PrEP + DOXYCYCLINE**
- **ONE-STOP PrEP AT A SEATTLE PHARMACY**

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- **CDC HIV Transmission Statistics**
 - **1 in 49 in Maryland**
 - **1 in 20 in Black Men in the US**
 - **1 in 2 in Black MSM in the US**
 - **MD 6th of 17 states in PrEP usage**
 - **MD PrEP usage is only 1.5%**

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- **CDC National Surveillance System**
 - **2006 to 2014 incidence < 3.6% (45,000 to 40,000)**
 - **MSM incidence fell only 0.7%**
 - **MSM = greatest number of new infections**
 - **MSM = more than 25,000 new cases annually**

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- **CDC National Surveillance System**
 - **2014 all HIV in whites = 243,000**
 - **In Blacks = 198,000 (13.1% in the US)**
 - **In Hispanics = 138,800 (17.6% in the US)**

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- **CDC National Surveillance System**
 - **Undiagnosed HIV fell 4.5% in Black MSM**
 - **Undiagnosed HIV fell 3.6% in Hispanic MSM**
 - **Undiagnosed HIV fell 3.6% in White MSM**

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- **Undiagnosed HIV in MSM 13-24 decreased 4.5%**
- **Undiagnosed HIV in MSM 25-34 decreased 1.2%**
- **Undiagnosed HIV in MSM 35-44 = flat 0.5%**
- **Undiagnosed HIV in MSM 45-54 decreased 1.1%**
- **Undiagnosed HIV in MSM 55+ decreased 6.8%**

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- **Black MSM: High incidence and undiagnosed**
- **Hispanic MSM: > incidence and undiagnosed**
- **Increasing in 25 to 34 year olds**
- **Young MSM = 52% of undiagnosed HIV**
- **HIV disparities call for tailored testing, prevention and treatment**

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- **New HIV Transmission While on PrEP**
- **2 previous cases of MDR HIV transmission**
- **Present case did not involve MDR virus**
- **Daily PrEP use reported**
- **Adequate levels of PrEP found in his blood**

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- **New HIV Transmission While on PrEP**
- **50 years old Dutch man in Amsterdam**
- **HIV- at mos. 1, 3 and 6**
- **HIV+ after 8 months of PrEP use**
- **An average of 50 partners monthly**
- **50% of contacts involved condomless anal sex**
- **Adequate Truvada blood levels**
- **Underscores the need for regular testing**

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Table 1: Sexual risk behaviour of PrEP user who seroconverted for HIV with high TDF-DP levels in dried blood spots

	Month 1	Month 2	Month 3	Month 4	Month 5	Month 6 ★	Month 7	Month 8 ★
Anal sex partners ^a	75	56	56	50	38	49	66	12
Days he reported CAS ^a	21/31	12/30	13/31	15/31	15/29	19/31	17/30	3/20
Median [IQR] number of sex partners per day with CAS ^a	3 [1-7.5]	4.5 [2.25-8.5]	4 [1.5-6]	4 [1-5]	2 [1-5]	3 [1-4]	5 [2-6]	5 [1-5]
CAS partners ^b	90		51			Not reported		
CAS episodes ^b	100		100			Not reported		

a Per month, data collected via daily diary via application for mobile phone

b In 12-week periods, collected through computer-assisted self-reported questionnaires

CAS: condomless anal sex

THE CDC STILL RECOMMENDS CONDOM USE

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- **Sexually Transmitted Infection (STI): King County HD**
 - **20 times higher in 1 year PrEP users**
 - **Lower condom use, but not over 10% less condom use**
 - **Higher chlamydia: asymptomatic, but detected by testing**
 - **Lower syphilis: symptomatic, leads to more treatment and less transmission**
 - **More frequent STI testing is occurring**
 - **More STIs, but better long-term public health benefits**

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- **PrEP + Doxycycline: IPERGAY STI Prevention Study**
 - **232 mostly white gay men screened**
 - **Average age was 38**
 - **Well educated, employed, 30% had primary partners**
 - **212 enrolled in the study**
 - **106 randomized to doxy + PrEP; 106 no doxy, only PrEP**
 - **Doxy arm was told to take one 200mg pill within 72 hrs**

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- **PrEP + Doxycycline: IPERGAY STI Prevention Study**
 - **Over 8.7 month follow up there were 48% less cases of both chlamydia and syphilis in the Prep + doxy arm**
 - **73% reduction in syphilis cases**
 - **Doxy had no effect on gonorrhea; more throat infections**
 - **High French gonorrhea resistance to tetracycline drugs**
 - **Gonorrhea resistance is also a US and worldwide issue**

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- **PrEP + Doxycycline: IPERGAY STI Prevention Study**
 - **No evidence of drug resistance over the 8.7 month study**
 - **Average number of sex acts increased from 80 to 90%**
 - **Meth, amphetamine, cocaine, crack, ecstasy, GHB: 42%**
 - **Adherence: 83% some of the time and 49% at all times**
 - **Adherence during every episode dropped over the study**
 - **Intermittent adherence stayed about the same**

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- **PrEP + Doxycycline: IPERGAY STI Prevention Study**
 - **Syphilis is a much more serious disease, and 73% decrease in syphilis is important to new infection rates.**
 - **But without a drug that works for all three STIs, doxy use increases the risk of more gonorrhea resistance.**
 - **Condoms are still the best way to prevent STIs.**
 - **STI testing for PrEP users is recommended every 3 months, including throat, genital and anal testing.**

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- **One-Step PREP services at a local Seattle pharmacy**
- **Services provided by druggist in conjunction with Dr.**
 - **Initial walk-in screening and PrEP Rx**
 - **Routine follow-up for HIV and STI testing**
 - **Screening and STI treatment by pharmacist**
 - **373 seeking service; 251 evaluated, 215 initiated PrEP**
 - **75% adherence; 25% had insurance restriction issues**
 - **Patient acceptability and financially sustainable**

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- **THANK YOU FOR ATTENDING**
- **Jeffrey Grabelle and Alvin Moody**
- **Baltimore City Health Department**
- **Gilead Sciences**
- **NATAP.ORG & HIVANDHEPATITIS.COM**