AIDS ACTION BALTIMORE’S
PrEP UP PROGRAM

CROI 2017 PrEP UPDATE
Lynda Dee

March 29, 2017
AIDS ACTION BALTIMORE’S
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• Please Sign the Sign-In Sheet
• Please Complete an Evaluation
• AAB: 410-837-AIDS - (410) 837-2437
• FB: PrEP UP or aidsactionbaltimore.org
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• 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

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<th>Month 1</th>
<th>Month 2</th>
<th>Month 3</th>
<th>Month 4</th>
<th>Month 5</th>
<th>Month 6</th>
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<td>Anal sex partners</td>
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<td>56</td>
<td>56</td>
<td>50</td>
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<td>49</td>
<td>66</td>
<td>12</td>
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<td>Days he reported CAS</td>
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<td>12/30</td>
<td>13/31</td>
<td>15/31</td>
<td>15/29</td>
<td>19/31</td>
<td>17/30</td>
<td>3/20</td>
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<tr>
<td>CAS partners</td>
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<td>51</td>
<td>Not reported</td>
<td></td>
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<tr>
<td>CAS episodes</td>
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<td>Not reported</td>
<td></td>
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</tr>
</tbody>
</table>

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
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