

**AIDSACTIONBALTIMORE**  
**PREP UP TOWN HALL**

**PreP and Prevention**

**IAC 2018 Update**

**Lynda Dee**

**September 26, 2018**

# **PrEP UP** Town Hall Meeting

- **CDC: HIV Transmission Statistics**
- **CDC: Impact of PrEP on HIV Diagnoses 2012 to 2016**
- **2017 TASP: Transmission in Undetectable MSM Couples**
- **PARTNER 2 Study: U=U in MSM Couples**
- **Biologic & Behavioral Risk: Before, During and After PrEP**
- **PREPARE Study: STI Incidence on PrEP vs. No PrEP**
- **Adolescents: Use of PrEP 2012-2017**
- **New Data: HIV Prevention Strategies**

# **PrEP UP** Town Hall Meeting

- **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**

# **PrEP UP** Town Hall Meeting

- **CDC: PrEP Impact on HIV Diagnoses 2012-2016**
- **HIV diagnosis declined 18% from 2008 to 2015**
- **There will still be approx 40,000 diagnoses each year**
- **Reasons for possible diagnosis decline:**
  - **Lower frequency of testing**
  - **Lower sexual and needle sharing behavior**
  - **Higher viral suppression in people with HIV**
  - **Higher PrEP uptake for those at risk**

# **PrEP UP** Town Hall Meeting

- **CDC: PrEP Impact on HIV Diagnoses 2012-2016**
  - **HIV testing and risk behaviors have not decreased**
  - **Whether lower viral suppression and PrEP use accounts for decreased diagnoses is unknown**
  - **PrEP use increased in the US from 2012 to 2015, independent of higher viral suppression**
  - **US states should take steps to increase both PrEP use and viral suppression**
  - **These associations need to be studied in counties**

# **PrEP UP** Town Hall Meeting

- **Undetectable VL & HIV Transmission in Gay Couples**
- **Opposites Attract: (TASP) Observational study in 3 countries**
- **12,000 condom free male anal sex acts in 3/4 of couples**
- **343 discordant couples, (one positive and one negative)**
- **Some men had other partners**

# **PrEP UP** Town Hall Meeting

- **Undetectable VL & HIV Transmission in Gay Couples**
- **No infections in HIV partner by HIV+ partner**
- **PARTNER 1 + Opposites Attract = 34,911 condomless anal sex acts**
- **Condomless sex, with HIV+ partner who is undetectable = safe sex**
- **CAUTION: VL remains detectable in the first months after ARVs**

# **PrEP UP** Town Hall Meeting

- **Undetectable VL & HIV Transmission in Gay Couples**
- **PARTNER 1 study in heterosexual and gay couples**
- **PARTNER 2 study: Gay couples only: HIV+ partner is on effective ART**
- **PARTNER 2 enrolled 972 gay couples (480 couples from PARTNER 1)**
- **Median condomless sex 43 times per year**
- **76,991 sex acts without condoms during the follow-up period**



# **PrEP UP** Town Hall Meeting

- **Undetectable VL & HIV Transmission in Gay Couples**
- **HIV was phylogenetically tested to determine origin of infection**
- **Some HIV transmission in HIV-s, but not from their HIV+ partners**
- **HIV transmission came from another person, not their partner**
- **There was zero transmission within couple infections**
- **Confirms PARTNER 1 and TASP: A couple would need to have unprotected sex for 400 years to be at risk for HIV infection**

# **PrEP UP** Town Hall Meeting

- **PrEP Use Rising, STI Remaining Stable (SUNY)**
- **PrEP use rose from 3% to 21% in US MSM**
- **Reviewed condom use before, during and after PrEP and the STI rate to determine if STI rate would increase significantly**
- **313 adult MSM who used PrEP during at least 1 visit**
- **Tracked condomless anal sex with a casual partner, HIV+ or status unknown partner and the probability of a rectal STI diagnosis**
- **50% white, 2/3 had full time jobs, 50% in relationships**

# **PrEP UP** Town Hall Meeting

- **PrEP Use Rising, STI Remaining Stable (SUNY)**
- **Average condomless sex rose from 2.79 to 7.13 during PrEP use, and fell to 2.09 after PrEP use stopped**
- **Average number of receptive condomless sex acts from 0.195 to 0.944, then dropped to 0.121 after PrEP use stopped**
- **Probability of rectal STIs rose insignificantly while on PrEP, then dropped significantly after PrEP use stopped**
- **Condomless sex acts did increase, but STI rate remained stable**
- **PrEP benefit is far greater than slight risk of STI increases while on PrEP; and STI risk decreased after PrEP use stopped**

# **PrEP UP** Town Hall Meeting

- **PREPARE Study: STI Incidence on PrEP vs. No PrEP**
- **Many young adult males do not seek healthcare**
- **Regular PrEP visits = better health care practices**
- **Healthcare utilization review through health records in Southern CA**
- **Young males (18-34) from 7-14 to 4-16, before and after PrEP use**
- **304 PrEP users and 4,495 MSM with no PrEP use, 273,050 not MSM**

# **PrEP UP** Town Hall Meeting

- **PREPARE Study: STI Incidence on PrEP vs. No PrEP**
- **PrEP users were older (27-34 vs. 18-26), and had more care, including more ER, primary, psychiatric and other specialty visits**
- **PrEP users had more mental health diagnoses**
- **HPV/HBV vaccinations: Low in all groups, but higher with PrEP use**
- **Higher STI and hepatitis testing in PrEP users**
- **Higher STIs and mental disorders in the PrEP group, but better primary and preventive care as well as STI screening**

# **PrEP UP** Town Hall Meeting

- **PrEP Use in US Adolescents**
- **15.4% PrEP use in adolescents under 24 years old**
- **1.5% PrEP use in adolescents under 18 years old**
- **In adolescents under 18, PrEP usage was 83.5% female**
- **PrEP use in 18-24 years is 84.2% male**
- **Recent FDA indication change may improve adolescent access**
- **Important unmet need: Improve PrEP awareness and engagement**

# **PrEP UP** Town Hall Meeting

- **New HIV Prevention Strategies (2017 IAS Meeting)**
- **Long-Acting Cabotegravir (CAB): IM injection/8wks**
- **Long-Acting Rilpivirine: Development Stopped**
- **Long-Acting Oral MK-8591: Oral every 30 days?**

# **PrEP UP** Town Hall Meeting

- **New Prevention Strategies**
- **Broadly Neutralizing Antibodies (nNAbs)**
- **Alternative to vaccine approach**
- **Single IV infusion combo results in monkeys**
- **Single IV infusion plus SubQ results in monkeys**



# **PrEP UP** Town Hall Meeting

- **New Prevention Strategies: (bNAbs)**
- **IV 3BNC117 + LS dmAB (11 to 23 wk infection delay)**
- **IV 10-1074 + LS dmAb (18 to 37 wk infection delay)**
- **IV 10-1074 + 3BNC117 + LS dmAB (Subq) (20 weeks)**
- **Could translate to annual or semi-annual regimens**

# **PrEP UP** Town Hall Meeting

- **Next Town Hall Meeting**
  - **Wednesday, November 28, 2018**
- **Time**
  - **6:30 to 8:00 PM**
- **Place**
  - **Waxter Center**

# **PrEP UP** Town Hall Meeting

- **THANK YOU**

- **Gilead Sciences**

- **Baltimore City Health Department**



Initiative to Maximize  
Prevention, Access,  
Care & Treatment.

---

A Baltimore City Health  
Department **campaign**

# **PrEP UP** Town Hall Meeting

## • **THANK YOU**

- **Johns Hopkins Reach Initiative**
- **Chase Brexton Health Care**
- **Center for Black Equity-Baltimore**
- **GLCCB**
- **Jacques Initiative**
- **Total Health Care**
- **PrEP UP: Falina Chanel, Alvin Moody, Jeffrey Grabelle, Jay Mangum**