PrEP In The Real World: The Delaware Flavor

Deborah Kahal MD MPH FACP

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Disclosures

- Gilead ART Speaker's Bureau
- Viiv ART Speaker's Bureau
- Not a "Debbie Downer" talk but rather trying to highlight areas where we can focus our efforts to do better!

• PrEP Epidemiology

• Local PrEP Experience

• Role of PrEP Navigator

• Challenges & Bright Spots of PrEP in Delaware

• PrEP Support Services

Ending the HIV Epidemic

Ending the HIV Epidemic

GOAL: 75% reduction in new **HIV infections** by 2025 and at least 90% reduction by 2030.

www.hiv.gov

1.Treat

2.Diagnose

3.Prevent

4.Respond

National PrEP Coverage Algorithm

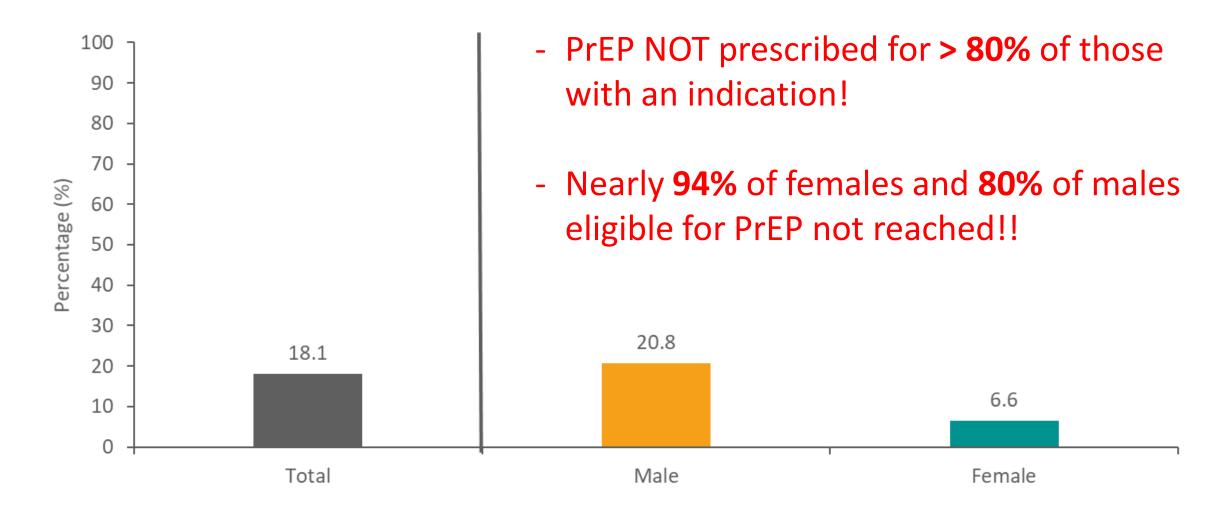




Abbreviation: PrEP: preexposure prophylaxis.

Note. Algorithm has been validated by electronic health records with 96% sensitivity and 99% specificity.

PrEP Coverage among Persons Aged ≥16 Years, by Sex at Birth 2018—United States

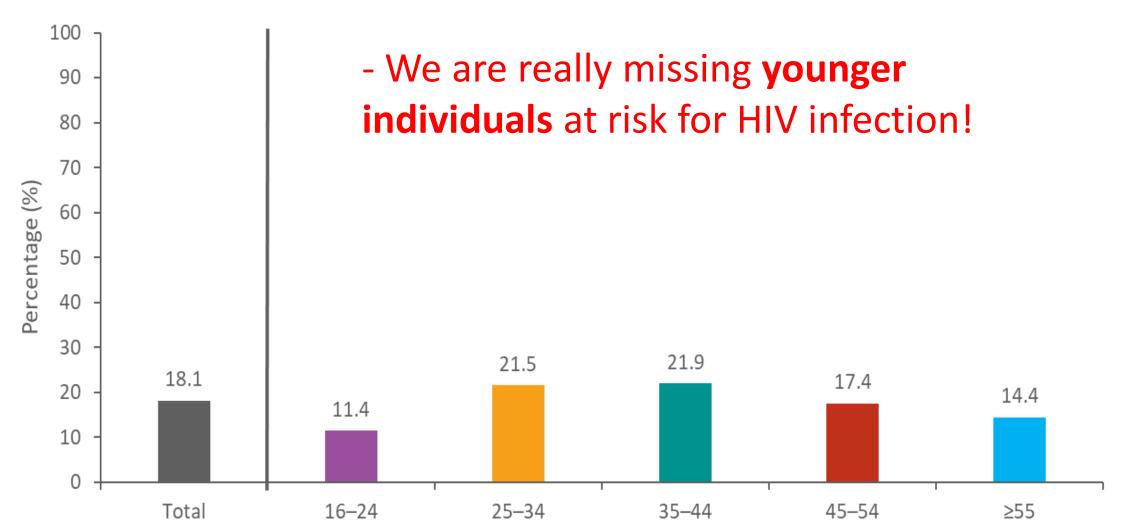




Abbreviation: PrEP, preexposure prophylaxis.

Note. PrEP coverage, reported as a percentage, was calculated as the number who have been prescribed PrEP divided by the estimated number of persons who had indications for PrEP. Different data sources were used in the numerator and denominator to calculate PrEP coverage.

PrEP Coverage among Persons Aged ≥16 Years, by Age 2018—United States

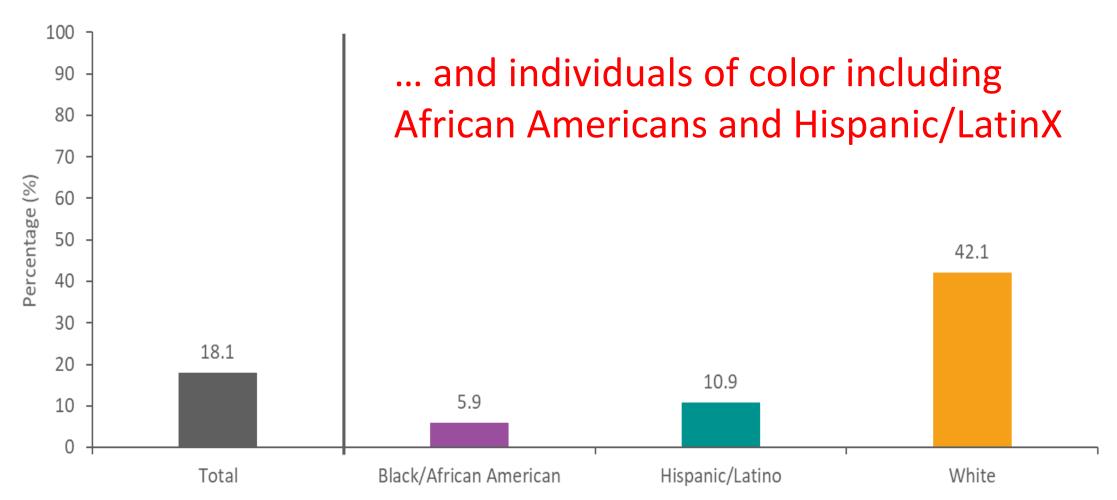




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PrEP Coverage among Persons Aged ≥16 Years, by Race/ethnicity 2018—United States



Abbreviation: PrEP, preexposure prophylaxis.



Note. PrEP coverage, reported as a percentage, was calculated as the number who have been prescribed PrEP divided by the estimated number of persons who had indications for PrEP. Race/ethnicity data were only available for 35% of persons prescribed PrEP in 2018. Number prescribed PrEP and PrEP coverage for race/ethnicity reported in the table were adjusted applying the distribution of records with known race/ethnicity to records with missing race/ethnicity. Different data sources were used in the numerator and denominator to calculate PrEP coverage.

HIV prevention pill is not reaching most who could potentially benefit – especially African Americans and Latinos

of people who could potentially benefit from PrEP are African American – approximately 500,000 people...







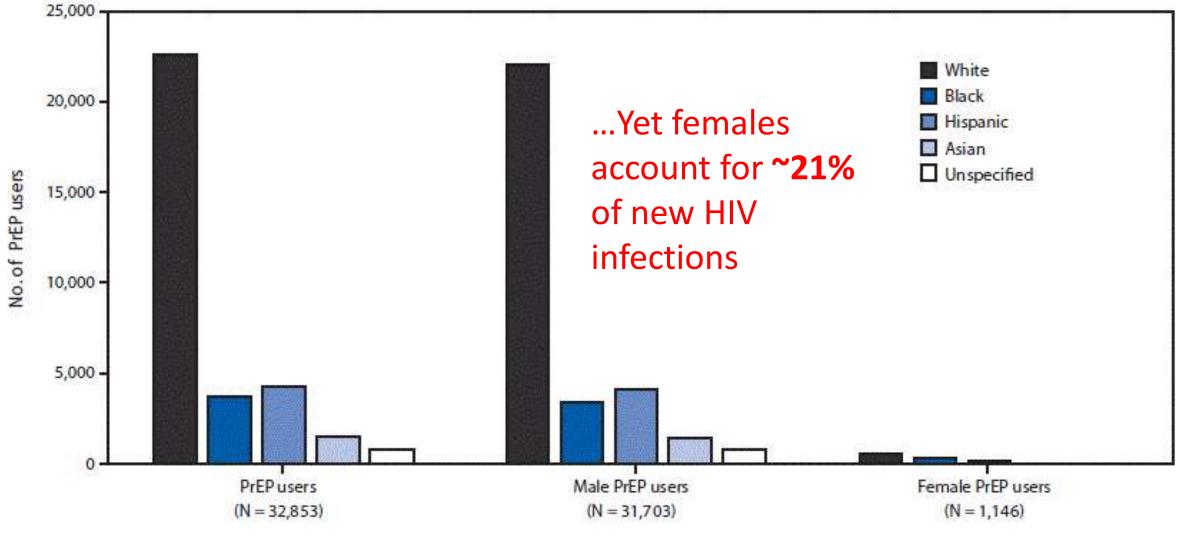
of people who could potentially benefit from PrEP are Latino – nearly 300,000 people... ...but only 3% of those – 7,600 Latinos – were prescribed PrEP*

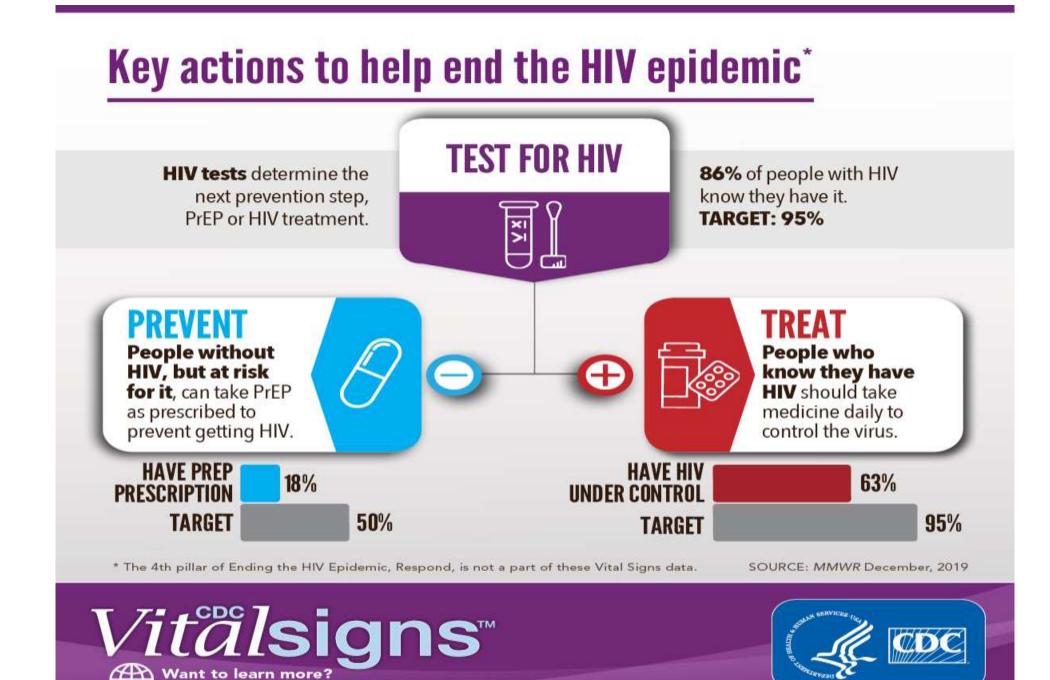


*Prescription data in this analysis limited to those filled at retail pharmacies or mail order services from September 2015 – August 2016; racial and ethnic information not available for one-third of the prescription data

https://www.cdc.gov/nchhstp/newsroom/images/2018/hiv/PrEP_highres.jpg

FIGURE. Number of PrEP users by sex and race/ethnicity*— IQVIA Longitudinal Prescription



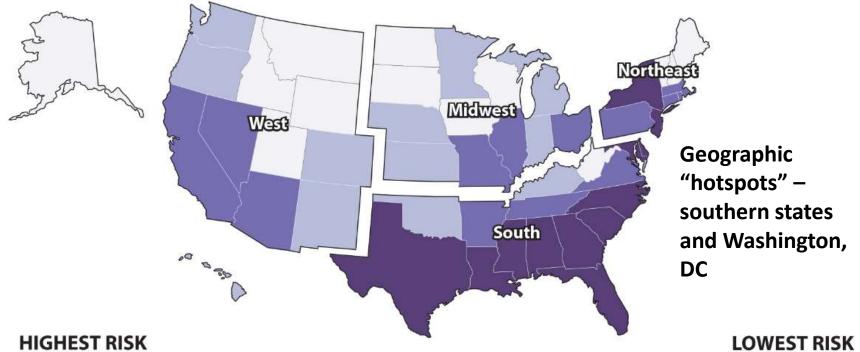


www.cdc.gov/vitalsigns/test-treat-prevent



Source: CDC

Lifetime Risk of HIV Diagnosis by State



HIGHEST RISK

Sta	ate O	ne in "n"	State	One in "n"	State	One in "n"	State	One in "n"
Ma Ge Flo Lo Ne Tex Ne So No	strict of Columbia aryland orgia prida uisiana ew York xas ew Jersey ssissippi uth Carolina orth Carolina elaware abama	a 13 49 51 54 56 69 81 84 85 86 93 96 97	Nevada Illinois California Tennessee Pennsylvania Virginia Massachusetts Arizona Connecticut Rhode Island Ohio Missouri Arkansas	98 101 102 103 115 115 121 138 139 143 150 155 159	Michigan Oklahoma Kentucky Indiana Washington Colorado New Mexico Hawaii Oregon Minnesota Kansas Nebraska	167 168 173 183 185 191 196 202 214 216 262 264	West Virginia Wisconsin Iowa Utah Maine Alaska South Dakota New Hampshire Wyoming Vermont Idaho Montana North Dakota	302 307 342 366 373 384 402 411 481 527 547 547 578 670

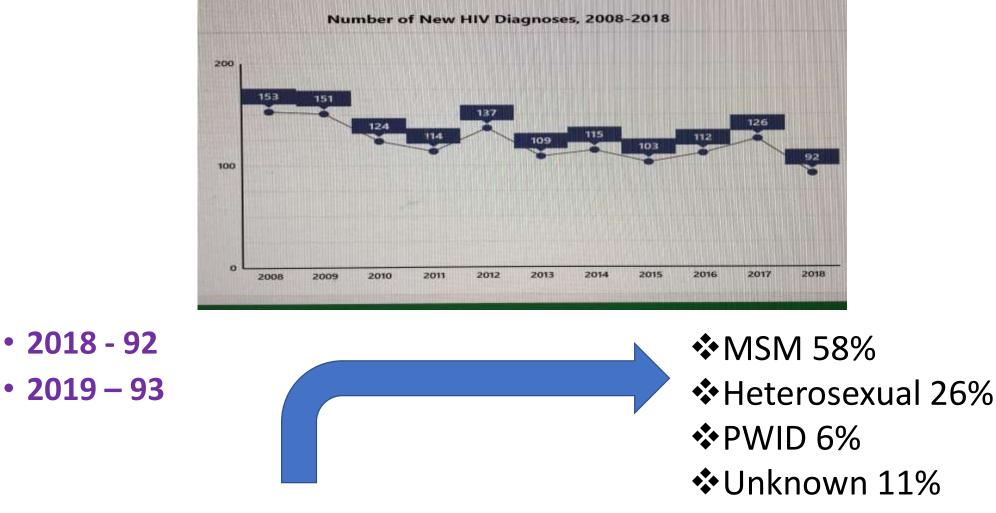
• 9/2020: 3,459 PLWHA in Delaware

~1/2 cases from Wilmington Metropolitan Area (2018)

- 70% male (~48% state population)
- > 58.4% African American (~22%)
- ➤ 31% White
- ➢ 8% Hispanic
- > <3% Other

https://www.delawarehiv.org/wp-content/uploads/2020/07/HIV-Update-06292020.pdf https://www.delawarehiv.org/wp-content/uploads/2020/10/Monthly-Surveillance-Report-Through-September-2020.xls.pdf https://aidsvu.org/local-data/united-states/south/delaware/ https://www.delawarehiv.org/delaware-prep/prescribers/

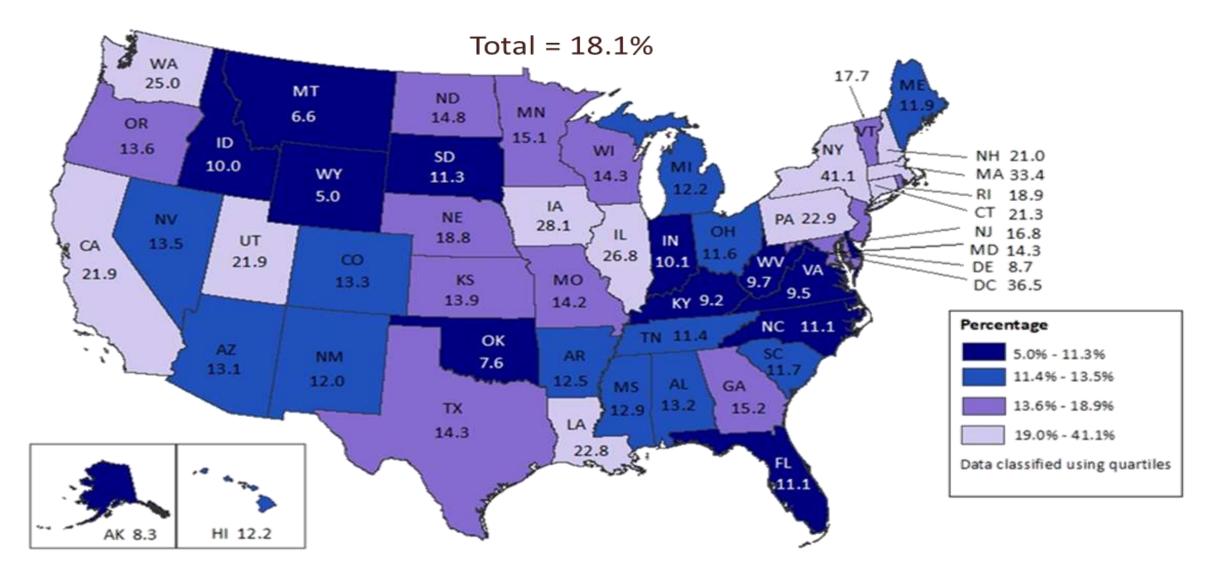
Newly Diagnosed HIV Infections in Delaware



• As of 9/2020 – 66 (78 this time last year)

https://www.delawarehiv.org/wp-content/uploads/2020/10/Monthly-Surveillance-Report-Through-September-2020.xls.pdf https://aidsvu.org/local-data/united-states/south/delaware/

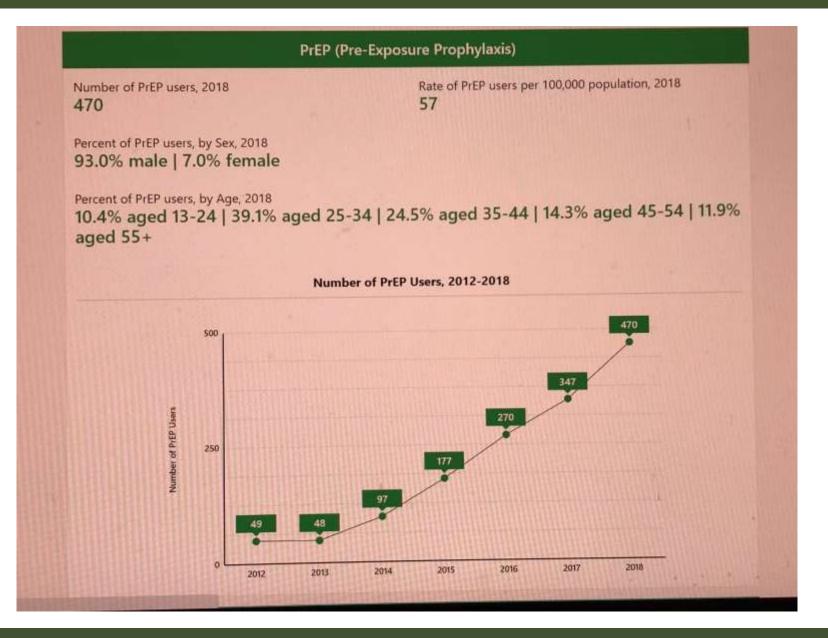
PrEP Coverage among Persons Aged ≥16 Years, by Area of Residence, 2018—United States





Abbreviation: PrEP, preexposure prophylaxis.

Note. PrEP coverage, reported as a percentage, was calculated as the number who have been prescribed PrEP divided by the estimated number of persons who had indications for PrEP. Different data sources were used in the numerator and denominator to calculate PrEP coverage.



PrEP-to-Need (PNR)

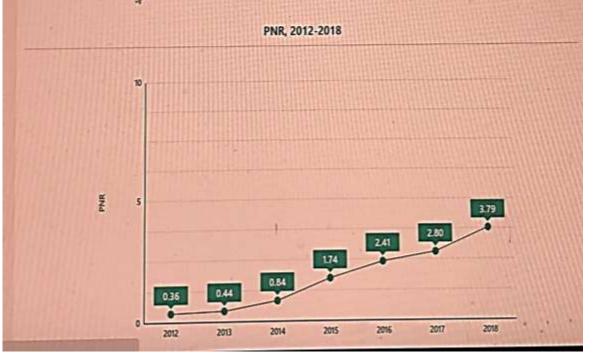
The 2018 PrEP-to-Need Ratio (PNR) is the ratio of the number of PrEP users in 2018 to the number of people newly diagnosed with HIV in 2017. PNR serves as a measurement for whether PrEP use appropriately reflects the need for HIV prevention. A lower PNR indicates more unmet need.

PNR, 2018

3.79

PNR, by Sex, 2018 4.86 male | 0.97 female

PNR, by Age, 2018 1.81 aged 13-24 | 5.75 aged 25-34 | 3.59 aged 35-44 | 3.53 aged 45-54 | 4.00 aged 55+



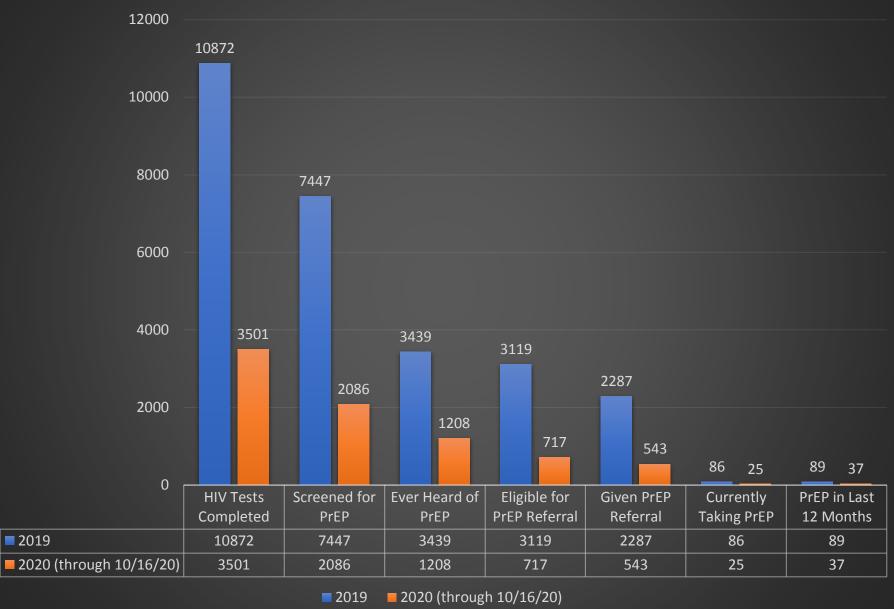
DELAWARE

PrEP-to-Need (PNR) 3.79 Overall behind national PNR average Lagging in female, adolescent and 35-44yoa PrEP coverage

NATIONALLY 4.89 PNR, by Sex, 2018 5.69 male | 1.62 female PNR, by Age, 2018 3.29 aged 13-24 | 5.60 aged 25-34 | 6.06 aged 35-44 | 5.34 aged 45-54 | 3.62 aged 55+

https://aidsvu.org/local-data/united-states/south/delaware/

2019 & 2020 DE DHSS PrEP Care Continuum



- Opportunities for improvement at every part of the continuum
- Limited community **PrEP** knowledge
- Extremely low levels of PrEP uptake
- Situation exacerbated in 2020

Data courtesy of Paula Wood and Bob Vella/DHSS

2019



William J Holloway Community Program

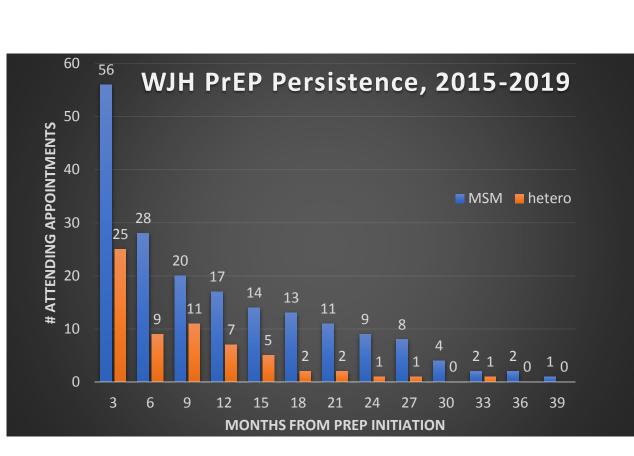
- Only Ryan-White funded HIV clinic in the state
- Clients distributed through multiple sites throughout the state
- Patient population includes: PLWHA, HCV, PrEP, PEP
- Flagship site in Gateway/Wilmington Hospital -~730 active PLWHA
- Multi-disciplinary care team model with MD/NP, RN,MA, OA, SW, Pharm, LCSW, mental health, obgyn, renal, primary care capacity

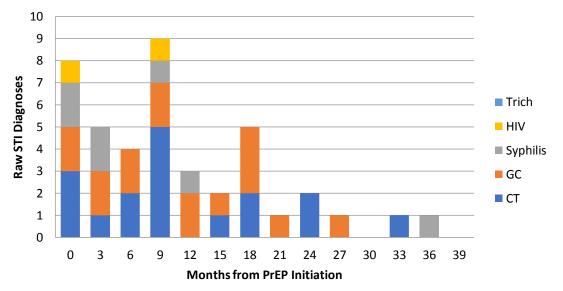
WJH – Nested PrEP Program

- 2015: Started to evaluate patients for PrEP
- Initially, many PrEP appointments were serodiscordant sexual partners of known clinic patients with HIV, particularly patients with newly diagnosed or uncontrolled HIV

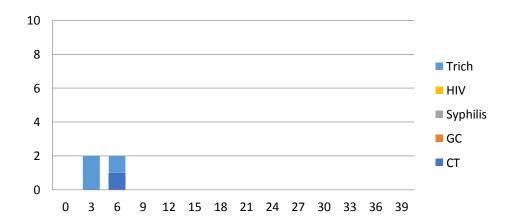
- To date: > 80 people evaluated to date for PrEP at flagship site
 - Predominately male, 73%
 - 44% White, 41% African American, 12% Hispanic
 - Identified HIV Risk Factor(s): 60% MSM, 38% Heterosexual, 8% PWID
- Program-wide annual PrEP visits:
 - 2017-126 total visits
 - 2018-174
 - 2019-175
 - 2020-104 YTD

STIs Amongst MSM on PrEP, 2015-2019





STIs Amongst Heterosexuals on PrEP, 2015-2019



c/o Mariam Lassiter



PrEP-Engaged or PrEP Curious?: A Characterization and Comparison of Initial PrEP Appointment Attenders Versus Non-Attenders Deb Kahal MD, MPH, FACP, Neal Goldstein PhD, MBI, Susan Szabo MD Christiana Care Health System, William J Holloway Community Program, Wilmington, DE

CONTACT: Deborah Kahal: deborah.kahal@christianacare.org William J Holloway Community Program 501 W 14th St Gateway Building, 6th Floor Wilmington, DE 19801 302-320-1300

Background:

Human immunodeficiency virus (HIV) pre-exposure prophylaxis (PrEP), with adequate adherence, is highly effective prevention of HIV-1 infection amongst high-risk individuals. While over 1 million individuals are PrEP-eligible in the U.S., those at highest risk for HIV, specifically young non-white men who have sex with men (MSM), represent some of the least penetrated groups to benefit from PrEP. No published data exists to characterize individuals with unattended initial PrEP appointments.

Methods:

Our program, an urban Ryan White funded HIV clinic that also provides HCV and PrEP care, prospectively collected demographic data on all patients with an attended initial PrEP appointment between November 2015 and March 2019. We retrospectively abstracted the same data for individuals with unattended initial PrEP appointments (including cancellations and no shows) during the same period. Descriptive statistical analyses used Student's t-test for continuous data (age) and Chi-squared tests for categorical data (all other variables).

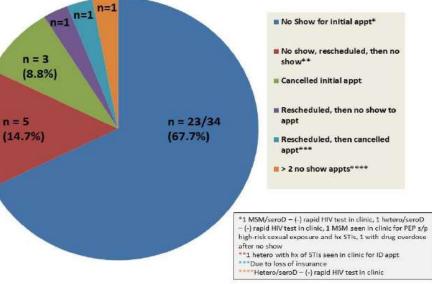
	Appointment Attendance					
Characteristic	Total (n=103)	Attended (n=69, 67%)	Did Not Attend (n=34, 33%)	p-Value		
So	ciodemogr	aphics		83		
Age, yrs, mean (standard deviation) Sex, n (%)	37 (11)	38 (11)	34 (12)	0.01 0.19		
Male	75 (73%)	53 (77%)	22 (65%)			
Female	28 (27%)	16 (23%)	12 (35%)			
Race/Ethnicity, n (%)			0.22			
White	41 (41%)	31 (45%)	10 (32%)			
African American	44 (44%)	26 (38%)	18 (58%)			
Hispanic	12 (12%)	9 (13%)	3 (10%)			
Asian	3 (3%)	3 (4%)	0 (0%)			
(missing, n=3)						
Insurance, n (%)				< 0.05		
Private	47 (47%)	37 (54%)	10 (32%)			
Non-private*	53 (53%)	32 (46%)	21 (68%)			
(missing, n=3)						
н	V Risk Fact	tors**		55		
Men who have sex with men, n (%)				<0.01		
No	36 (40%)	20 (29%)	16 (73%)			
Yes	55 (60%)	49 (71%)	6 (27%)			
(missing, n=12)						
High Risk Heterosexual, n (%)				<0.01		
No	55 (62%)	49 (71%)	6 (30%)			
Yes	34 (38%)	20 (29%)	14 (70%)			
(missing, n=14)						
Person who injects drugs, n (%)				0.21		
No	67 (92%)	64 (93%)	3 (75%)			
Yes	6 (8%)	5 (7%)	1 (25%)			
(missing, n=30)						

factors. There was no individual with intravenous drug use identified as a sole HIV risk factor.

Results:

33% (34/103) of all individuals did not attend an initial appointment (Table). Younger age and non-private insurance were the 2 sociodemographic variables that were significantly associated with unattended versus attended initial appointments. Amongst those whose HIV risk factors were known, MSM were more likely to attend their appointment compared to non-MSM. 77% (26/34) of individuals with unattended initial appointments did not reschedule (Figure). Notably, 12% (4/34) PrEP-eligible individuals previously presented to the clinic yet did not re-present for dedicated PrEP evaluation.

Figure: Characterization of Unattended PrEP Appointments



Conclusions/Discussion:

A significant proportion of individuals schedule but do not attend initial PrEP appointments. This cohort, particularly younger patients and those with non-private insurance, represents a distinct population - with a "near" yet incomplete engagement in care – for whom HIV prevention efforts and concerted outreach should be focused. Same day, rapid PrEP starts deserve serious consideration in order to capitalize on patient engagement when the opportunity presents. The paucity of data highlights the need for research of those who are PrEP-interested but not fully PrEPengaged.

2015: William J Holloway PrEP Protocol

- PrEP Clinical Toolkit
- Dissemination from flagship to additional WJH program sites

2016: PrEP Summit

- Engaging DE providers & health care professionals
- >22 PrEP prescribing sites in DE

Internal ChristianaCare Partnerships

External ChristianaCare Partnerships

- CC Family Medicine (>30-40 active PrEP)
- CC Primary Care Practices
- CC Residency Programs
- TJU/Sidney Kimmel College of Medicine
- AETC
- DHSS
- AIDS Delaware
- Delaware HIV Consortium
- BCCS
- Westside Family HealthCare
- Pharmaceutical Industry

Creativity
Collaboration
Relationships
Revision
Bright Spots
Barriers & Challenges
Sharing Knowledge



Why Are We Not Engaging More Individuals at Risk for HIV?

- Stigma
- Distrust of the healthcare system
- Healthcare/PrEP deserts
- Client awareness- knowledge of PrEP, perceived risk
- Prescriber knowledge or discomfort or lack of time/resources
- Unideal framing: risk > benefit
- Lack of/inadequate health insurance
- Concerns about disclosure (youth/minors)
- Competing priorities
- Covid-19
- Inadequate client support not meeting clients where they ARE ...

PrEP Navigation



• An intervention employed in chronic and infectious disease management to improve health outcomes by addressing patient- and systems-level barriers to care and treatment

- Particularly effective in high-need populations including low-income and minority populations
 - HIV, HCV, PrEP

• Embraces meeting clients "where they're at" in the moment

Coyle C, Viner K, Hughes E, et al. Identification and linkage to care of HCV-infected persons in five health centers-Philadelphia, Pennsylvania, 2012-2014. MMWR Morb Mortal Wkly Rep 2015; 64:459-63. Kattakuzhy S, Gross C, Emmanual B, et al. Expansion of treatment for hepatitis C virus infection by task shifting to community-based nonspecialist providers: a nonrandomized clinical trial. *Ann Intern Med 2017*; 167(5):311-8. Morano JP, Zelenev A, Lombard A, Marcus R, Gibson BA, Altice FL. Strategies for hepatitis C testing and linkage to care for vulnerable populations: point-of-care and standard HCV testing in a mobile medical clinic. *J Comm Health 2014*; 39:922-34 Challenges for PrEP Patients & Programs

Gaining trust Navigating insurance challenges Adherence to PrEP & appointments **PrEP** persistence **Psychosocial instability Stigma** Adequate clinical resources Adapting to the times – Covid19, telehealth Data holes/gaps

Reaching high risk individuals

"Bright Spots" for PrEP Patients & Programs

- Identified need to get PrEP out there more
- Local increase in PrEP # patients on PrEP, Rxs, prescribers
- Vision & buy-in from the ground up (patients to staff to Csuite)
- Widely available, clear, up-to-date PrEP protocols
 - Patient education
 - Background/data
 - Provider checklist (covers 12-month cycle)
- Multidisciplinary team: OA, SW, Pharm, RN, MA, MD/NP
- Increasing resources to support PrEP
- Seeing PrEP move more into the primary care arena
- New technology (EMR, personal tech) and PrEP delivery systems on the horizon
- Make the change ... see the difference
- See people come off PrEP when they are no longer at risk

SWITCH: How to Change Things When Change is Hard by Chip Heath & Dan Heath

PrEP YOURSELF ... Be Part of the Difference



PrEP Resources

- William J Holloway Community Program 6th floor Gateway Wilmington Hospital
 - Deborah Kahal deborah.kahal@christianacare.org
 - 302-320-1300
- Delaware HIV Consortium @ Delawarehiv.org, https://www.delawarehiv.org/delaware-prep/
- AIDS Delaware @ aidsdelaware.org
- Ready, Set, PrEP @ <u>https://www.hiv.gov/federal-response/ending-the-hiv-epidemic/prep-program</u>
- Preexposure Prophylaxis for the Prevention of HIV Infection in the United States 2017 Update. Centers for Disease Control and Prevention (CDC). <u>https://www.cdc.gov/hiv/pdf/risk/prep/cdc-hiv-prep-guidelines-2017.pdf</u>
- Preexposure Prophylaxis for the Prevention of HIV in the United States 2017. Clinical Providers' Supplement. CDC. <u>https://www.cdc.gov/hiv/pdf/risk/prep/cdc-hiv-prep-provider-supplement-2017.pdf</u>
- CDC PrEP Training for Clinicians. <u>https://www.cdc.gov/actagainstaids/campaigns/prescribe-hiv-prevention/clinician-training/index.html</u>
- New York State Department of Health Clinical Guidelines on PrEP and PEP
- UCSF CCC (Clinician Consultation Center) PrEPLine 855-448-7737, 11am 6pm EST
- Patient PrEP Experiences:
 - MyPrEPExperience.org, Projectinform.org, PrEPFacts.org



Acknowledgements

- Our Clients
- The William J Holloway Clinic
- Our Community Partners
- Suzan Abdallah & All at the DE HIV Consortium
- Arlene Bincsik & Susan Szabo
- Paula Wood & Bob Vella
- Jennie Vanderlaag & Marina Leonardos
- Miriam Lassiter



• Over to Nina Bennett

• Mid-Atlantic AETC: https://www.maaetc.org/