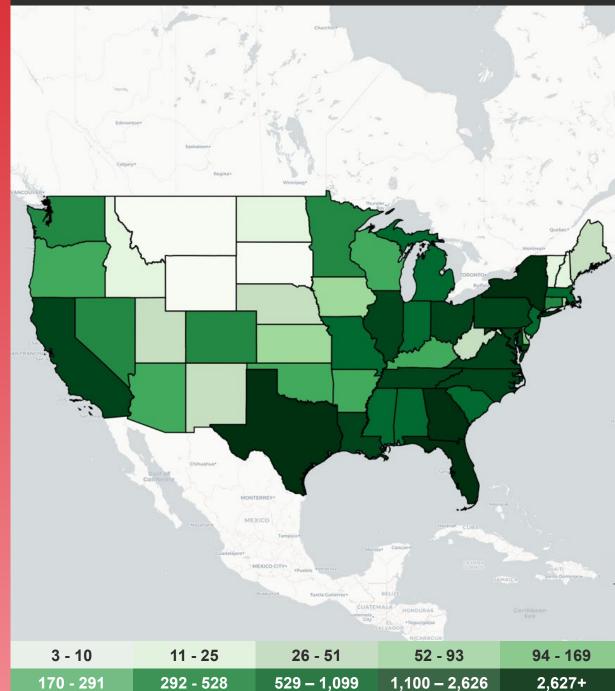
Number of Black People Using PrEP, 2021



State PrEP Use Data by Race/Ethnicity

August 16, 2022



Today's Panelists









AIDSVu Principal Scientist: Patrick Sullivan, DVM, PhD

Professor, Department of Epidemiology, Rollins School of Public Health, Emory University

Panel Moderator: Aaron Siegler, PhD

Associate Professor, Department of Epidemiology, Emory University Associate Director, Prevention and Implementation Sciences Core, Emory CFAR

AIDSVu Scientist: Amanda D. Castel, MD, MPH, AAHIVS

Professor, Department of Epidemiology, Milken Institute School of Public Health, George Washington University

Dawn Smith, MD, MPH

Division of HIV Prevention, Centers for Disease Control and Prevention





Background



2 Paper and Findings

Agenda





Discussion



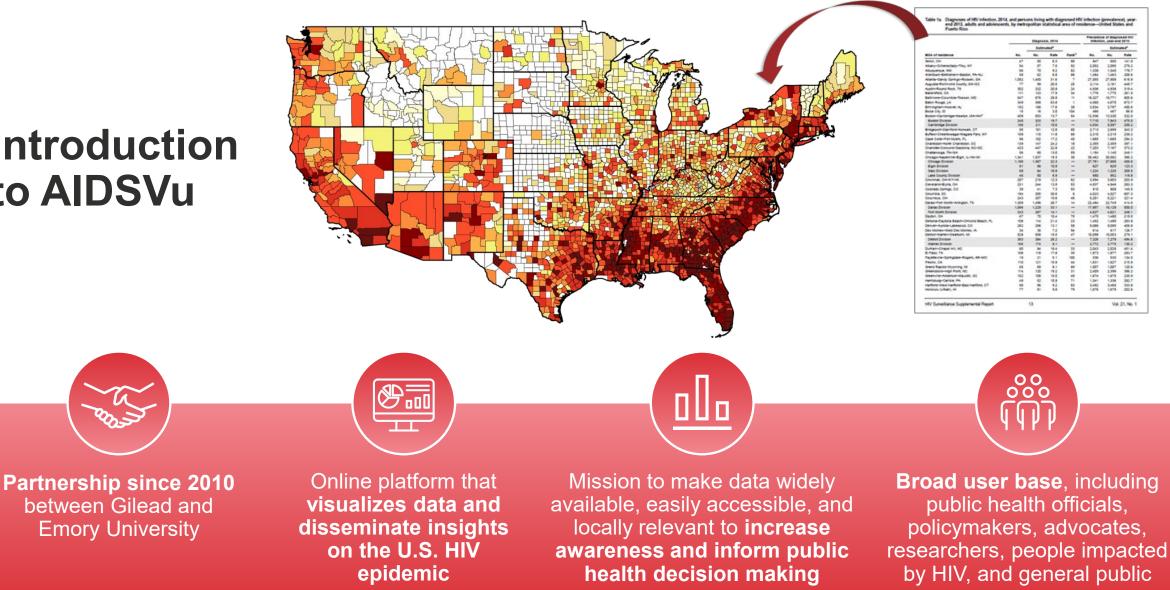
Questions





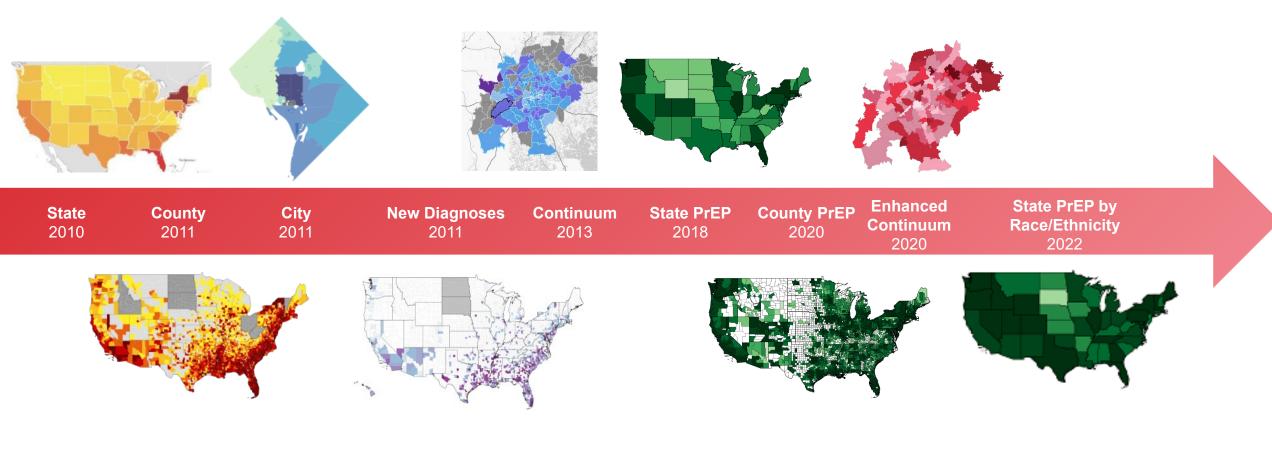








AIDSVu's History





Background

PrEP was approved for HIV prevention in the U.S. in 2012.

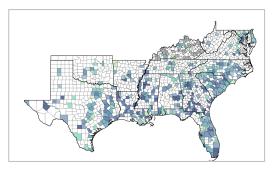


Models suggest that 40% coverage of PrEP use among indicated MSM would result in a 33% reduction in HIV incidence, but through 2017, PrEP uptake fell short of this goal.



Black and Hispanic/Latinx people have higher rates of new HIV diagnoses than White non-Hispanic people in the U.S.

People in the U.S. South have higher rates of new HIV diagnoses than people in other U.S. regions.

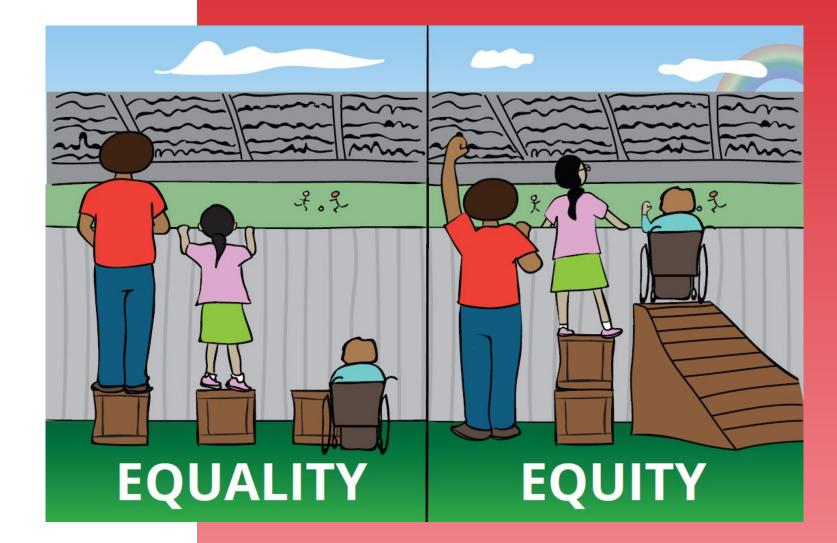


Health equity dictates that access and use of prevention interventions should be proportional to the impact of the health concern in the population.





Health Equality vs Health Equity



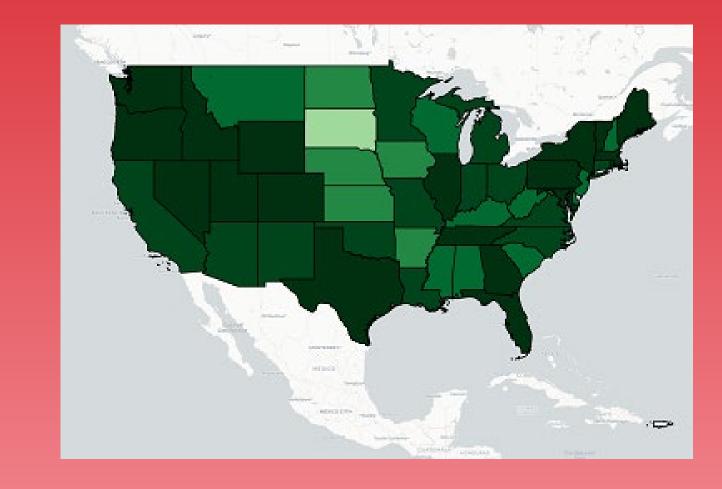


IAS Analysis and Findings



Methods

- We used commercial pharmacy data to enumerate PrEP users by race and U.S. Census region from 2012-2021
- Race/ethnicity data were available for 124,835 (34%) of PrEP users in 2021
 - To estimate total PrEP users by race each year, we assumed the racial distribution was the same in PrEP users with missing race data as in those with reported race data





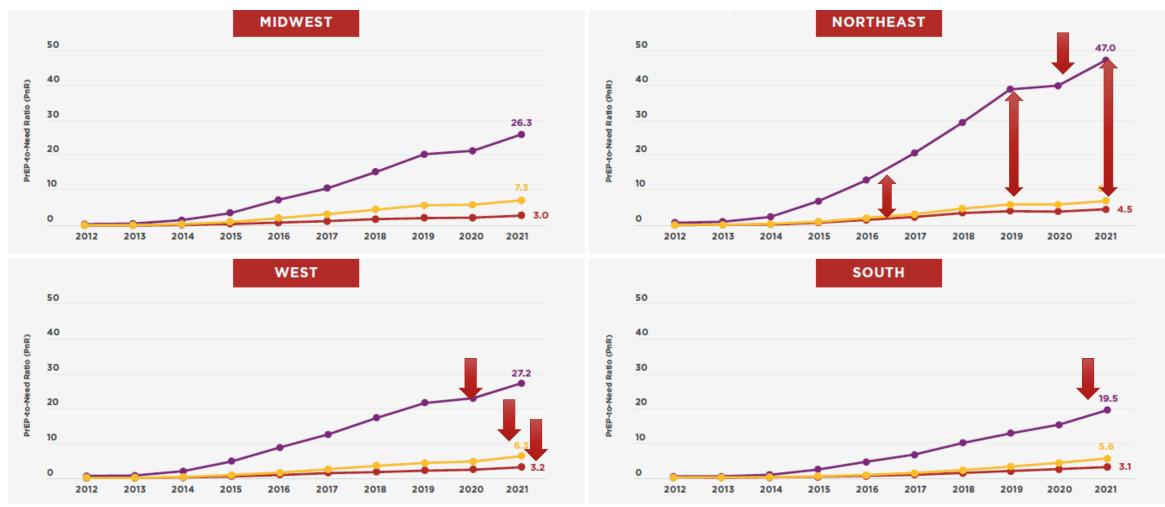
Methods (cont.)

- The PrEP-to-Need Ratio (PnR) is a metric of PrEP equity
- PnR is defined as the number of PrEP users in a group divided by the number of new diagnoses in that group in the same year
- For the years 2020 and 2021, the PnR ratio reflects the number of PrEP users over the number of people newly diagnosed with HIV in 2019 (since 2019 new diagnoses was the most current data available at the time)
- The ratio is used to describe the distribution of prescriptions relative to the epidemic need





PnR by Race/Ethnicity and US Region, 2012-2021



The PrEP-to-Need Ratio (PnR) is the number of PrEP users divided by the number of new diagnoses in a given year. PnR serves as a measurement of how PrEP use compares to the need for PrEP in a population.



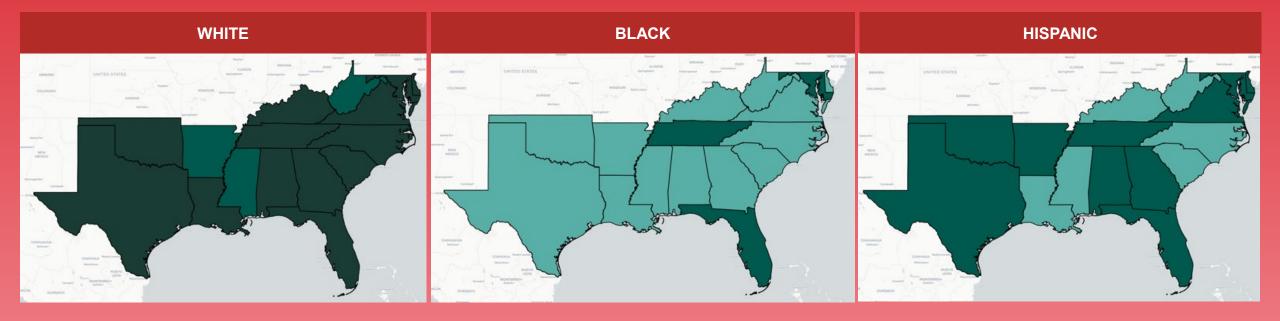
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White

--- Hispanic

Black

2021 PnR by Race/Ethnicity in the South



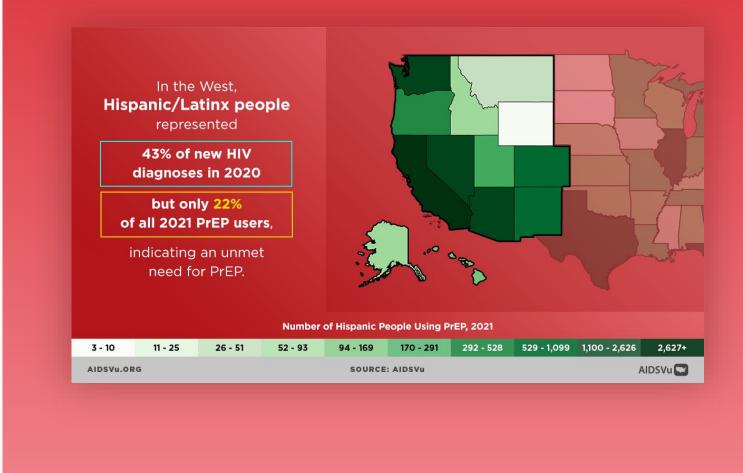
Title of Map Goes Here

0.00 – 0.41	0.42 – 1.38	1.39 – 3.05	3.06 – 8.30	8.31+
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Data Insights

- Black people represented 14% of PrEP users, but 42% of new HIV diagnoses
- Hispanic/Latinx people represented 17% of PrEP users and 27% of new HIV diagnoses
- White people represented 65% of PrEP users and 26% of new HIV diagnoses
- Black people made up 52% of new HIV diagnoses in the South, but only 21% of PrEP users in the South
- Black people made up 48% of new HIV diagnoses, but only 12% of PrEP users in the Midwest
- In the West, Hispanic/Latinx people represented 43% of new HIV diagnoses but only represented 22% of all PrEP users

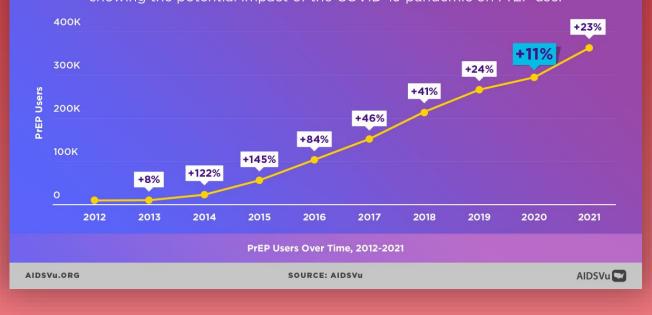




Data Insights

- Although PrEP use has increased steadily every year since 2012, there was a much lower rate of increase in 2020 of only 11% from 2019. This lower pace of growth occurred during the COVID-19 pandemic
- The South accounted for 52% of HIV diagnoses but only accounted for 39% of PrEP users
- In 2021, states that had expanded their Medicaid programs had rates of PrEP use that were 1.5X higher than states that did not expand Medicaid
- Among all PrEP users in the U.S., 92% were male and only 8% were female, despite the fact that women comprised 18% of new HIV diagnoses
- Teenagers and young adults (aged 13-24 years) had the greatest unmet need for PrEP among all age groups, with a PNR of 6*accounting for 20% of new HIV diagnoses but only 13% of PrEP users

Although PrEP use has **increased steadily every year** since 2012, there was a **lower rate of increase in 2020**, compared to other recent years, showing the potential impact of the COVID-19 pandemic on PrEP use.





Data Limitations



There were substantial amounts of missing race data in the commercial pharmacy data; however, missingness did not vary substantially by region



PnR is solely an equity metric, there is no "target" level of PnR, and this analysis of our data does not address directly the levels of PrEP use that would be required to achieve targets of reducing HIV incidence



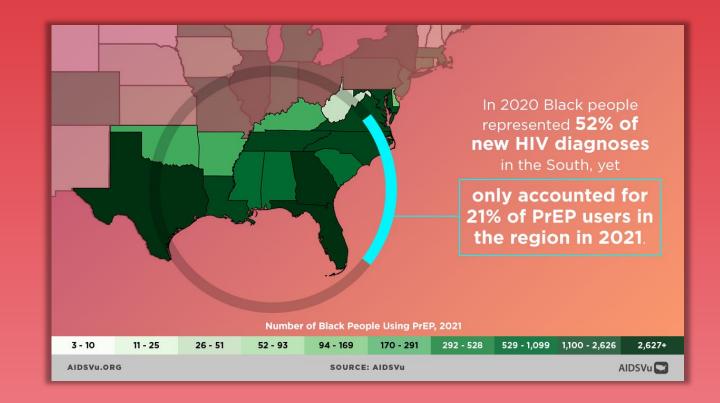
Our PnR calculations might be impacted by under-reporting of HIV diagnoses, or misclassifications





Conclusions

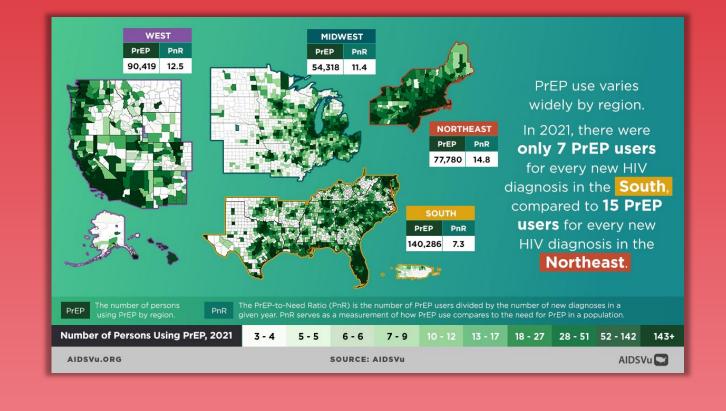
- Prevention programs should be guided by PrEP equity (use relative to epidemic impact), not PrEP equality (equal use in groups, regardless of HIV diagnosis proportion).
- By this measure, U.S. prevention programs in all regions demonstrated decreasing PrEP equity over time (e.g., larger gaps in PnR by race/ethnicity).
- The U.S. South lagged all regions in equitable PrEP use, with the lowest PnR overall compared to other U.S. regions.
- Better programs are needed to provide PrEP to communities and people at greatest risk for HIV infection.





Conclusions

- An ecological study demonstrated that PnR was higher (e.g., PrEP use was more equitable) in states that had PrEP-DAP programs, Medicaid expansion, or both.
- PrEP equity metrics may be a more meaningful way to assess the impact of PrEP programs than counts of PrEP users and should be assessed and reported routinely in monitoring PrEP programs.
- Additional research is needed on the extent to which interventions and policies impact PrEP equity.





PrEP on AIDSVu

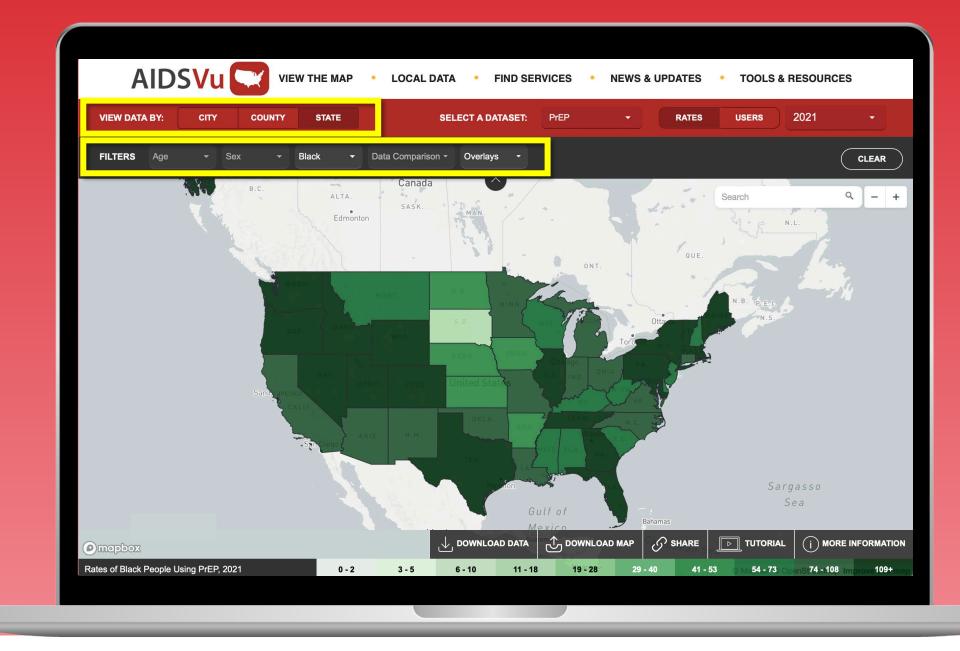


Race/Ethnicity Data on AIDSVu

AIDSVu can stratify key HIV metrics by race/ethnicity at the city, state and county level

Race/Ethnicity	City Level	State Level	County Level
HIV Prevalence	\bigcirc	\bigcirc	\bigcirc
New HIV Diagnoses	\bigcirc	\bigcirc	\bigcirc
HIV Mortality	\bigcirc	$\overline{\bigcirc}$	
HIV Testing		\bigcirc	
HIV Care Continuum Indicators	\bigcirc		
PrEP Use		\bigcirc	









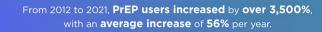


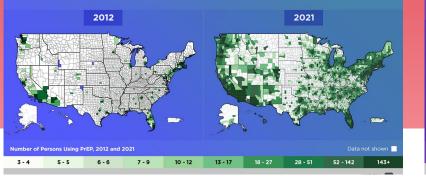
Deeper Look: PrEP



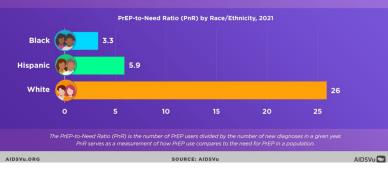


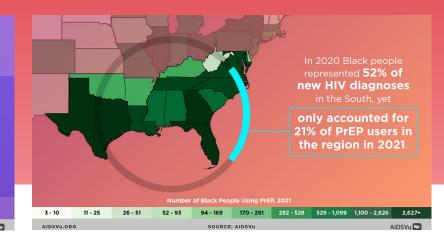
Infographics

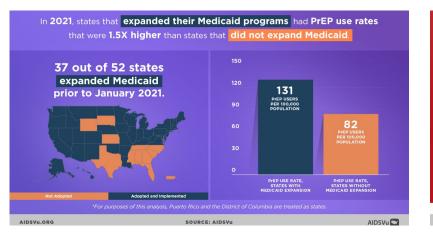


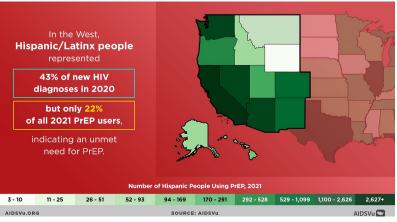


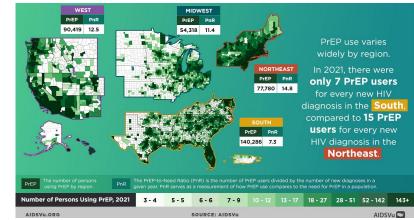
Black and **Hispanic/Latinx** people are disproportionally impacted by **HIV**. In 2021, there were only **3 Black** and **6 Hispanic PrEP users** for each new HIV diagnosis within those racial/ethnic groups, compared to **26 white PrEP users** for each new HIV diagnosis among white people.













Q&As Learn from the experts

Read our series of Q&A's with leading experts to learn more about PrEP.

