



University of Washington  
Public Health Capacity Building Center

Public Health  
Seattle & King County



## A House Divided: Success and Inequity in PrEP Access in the United States

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## Disclosures

- Dr. Golden has received research support from Hologic and GSK

# A House Divided

“A house divided against itself cannot stand.’ I believe this government cannot endure, permanently half *slave* and half *free*. I do not expect the Union to be *dissolved* -- I do not expect the house to *fall* -- but I *do* expect it will cease to be divided.”

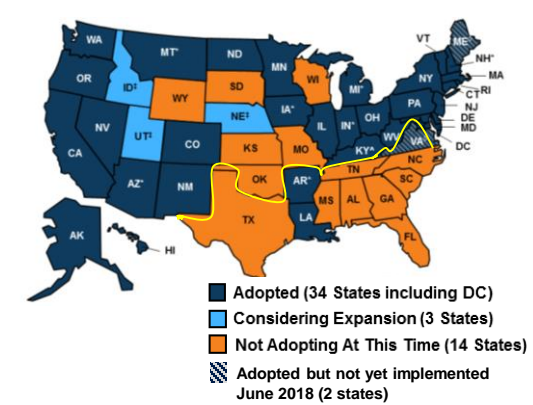
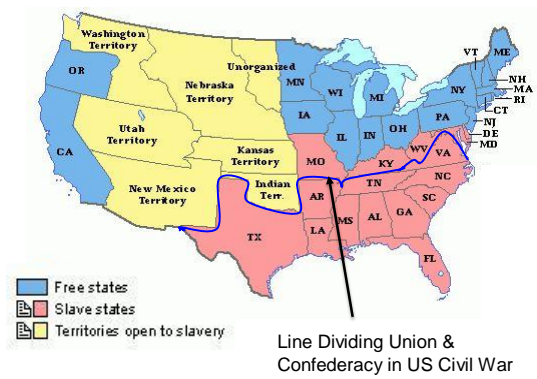


Abraham Lincoln 1858

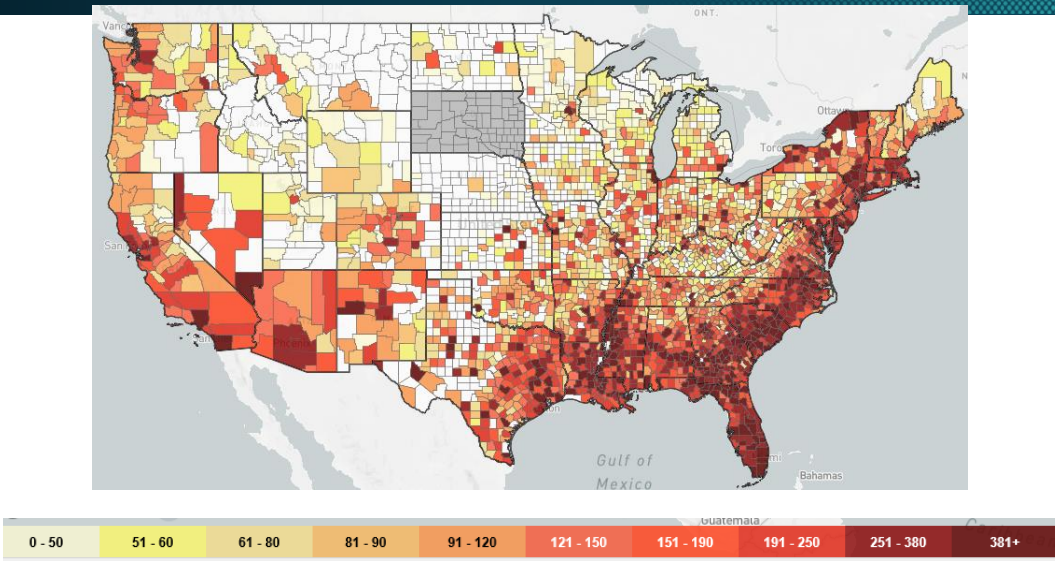
# A House Divided

Free & Slave States U.S. 1861

Medicaid Expansion States 2018

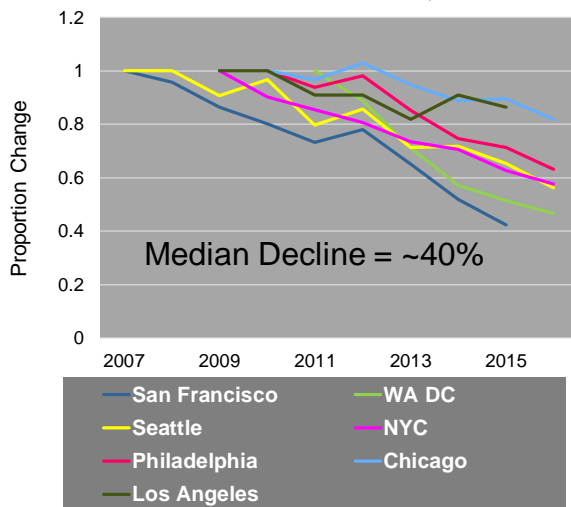


## Rates of Persons Living with HIV in the United States, Per 100,000, 2015

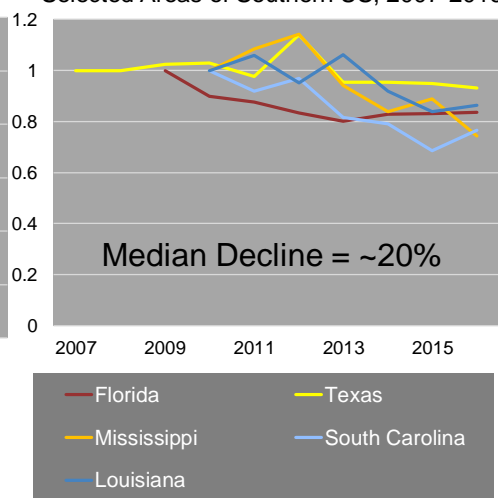


## HIV Epidemic

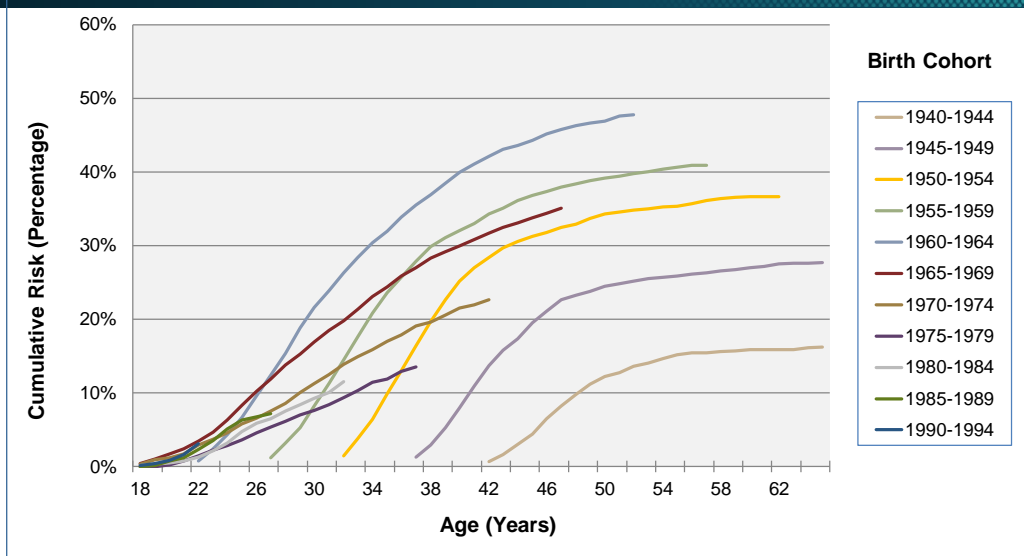
Changing Rates of HIV Diagnoses in Selected Areas of Northern & Western US, 2007-2016



Changing Rates of HIV Diagnoses in Selected Areas of Southern US, 2007-2016

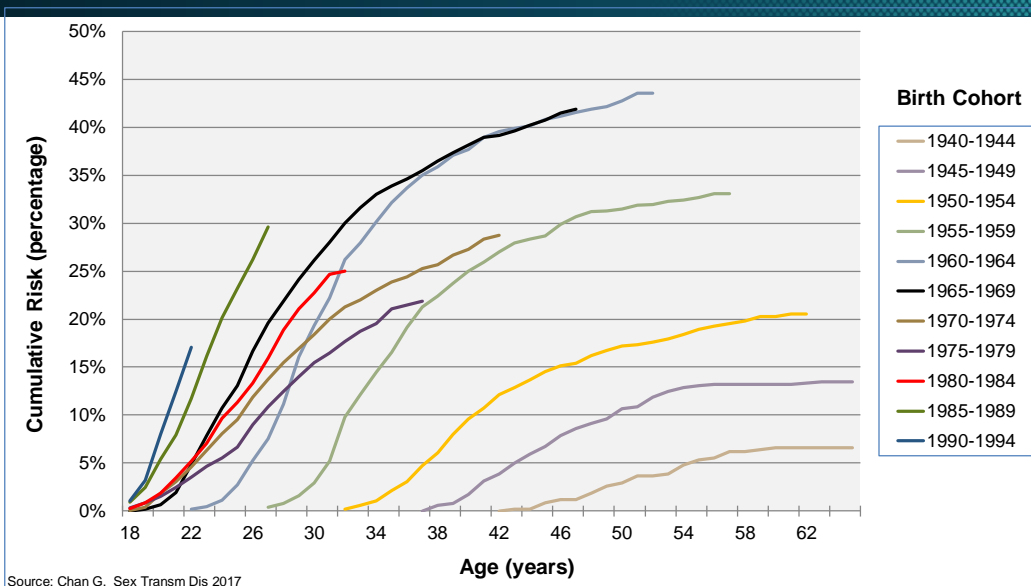


## Cumulative Risk of HIV Diagnosis Among White MSM in King County, Washington



Source: Chan G. Sex Transm Dis 2017

## Cumulative Risk of HIV Diagnosis Among Black MSM in Mississippi

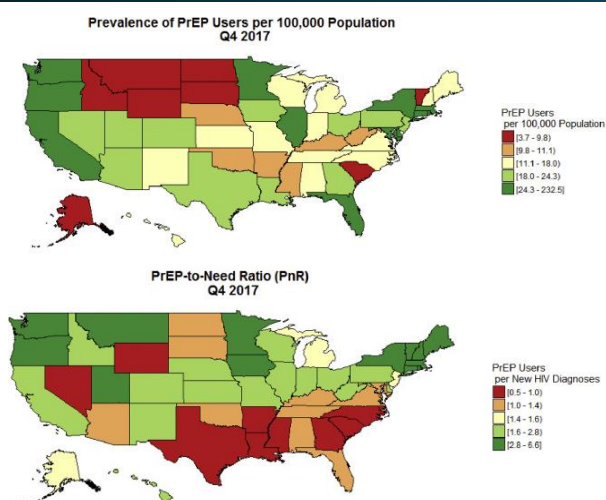


Source: Chan G. Sex Transm Dis 2017

## Disparities in HIV in the United States

- The impact of HIV in the US is highly disparate
  - 26% of infections occur in Black MSM – 0.3% of the population
- Trends in young Black MSM have long term implications
  - Sex is age assortative – people have sex with people who are roughly their age
  - Younger people have more sex and are harder to treat once infected
  - If we protect a birth cohort in their youth, those benefits will continue as they age – **virtuous cycle**
  - If a birth cohort gets seeded in their teens, it will be hard to stop - **vicious cycle**

## Distribution of Active PrEP Prescriptions and the PrEP-to-Need Ratio, US Q2 2017

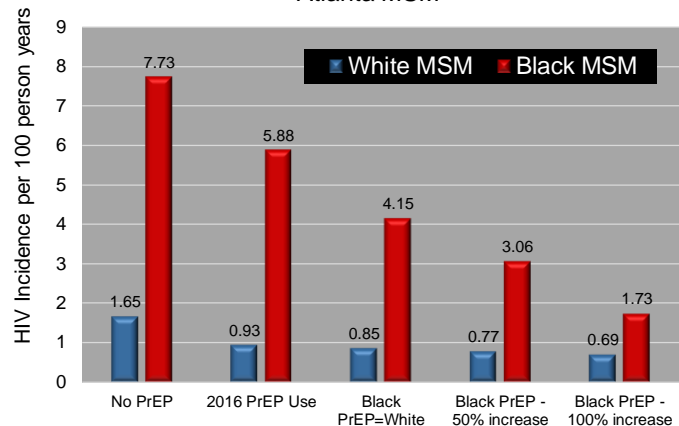


- Need is unevenly distributed
- PrEP use would ideally be highest in areas with the highest numbers of new HIV diagnoses
- Northwest and Northeast have highest use, and south the lowest

## How Much PrEP Would We Need to Address Disparities?

- Agent-based model of MSM HIV transmission
- PrEP continuum parameterized with data from Atlanta
  - Awareness, access, prescription, adherence
- PrEP can make a big difference
- Equal PrEP use by race will not be enough

Impact of Increased PrEP on Racial Disparities in Atlanta MSM



Percent MSM on PrEP	White	0	23.4	23.4	23.5	23.5
	Black	0	8.4	17.7	27.2	42.1

Source: Jenness S. AM J Epi 2018

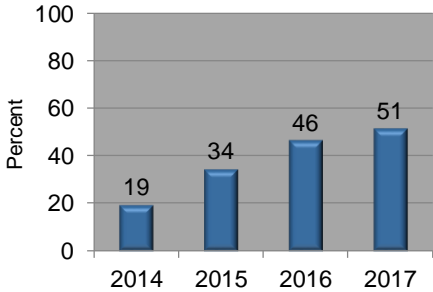
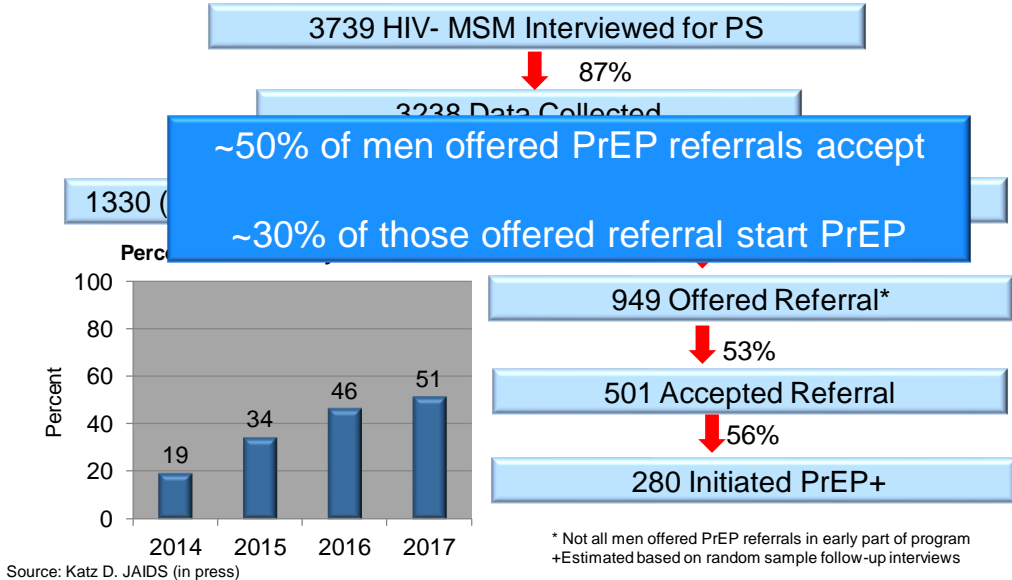
## Addressing Disparities

- Universal insurance – Obvious but politically difficult
- Despite lack of insurance, drug assistance programs make PrEP widely available, if people can negotiate the system
- Access is not enough
- What is to be done?



## Integrate PrEP into Partner Services

Referrals for PrEP Among MSM Receiving Partner Services, King County, WA  
August 2014 – August 2017



## Making PrEP Easier: De-Medicalizing PrEP

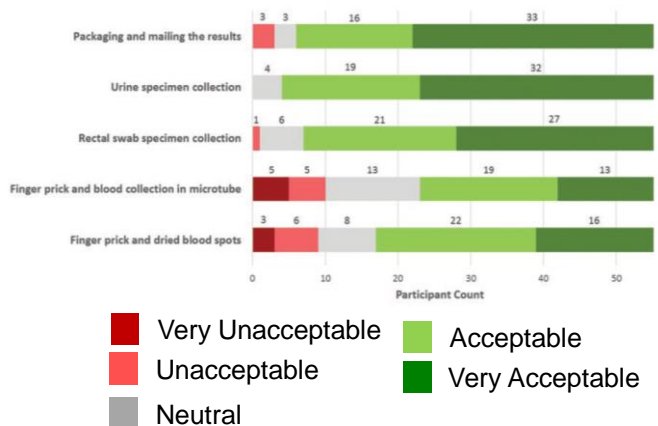
### PHSKC STD Clinic Experience

- ~1000 patients initiated on PrEP since 2015
- 550 patients current on PrEP
- Managed by health educator
- 1 visit/year with clinician
- Easy access HIV/STI testing SMS in advance

### Home PrEP

- Pilot 58 men
- Home testing with 1 visit to clinician per year

### Acceptability of Home Specimen Collection



- Very Unacceptable
- Unacceptable
- Neutral
- Acceptable
- Very Acceptable

## Pharmacy-Based PrEP: One-Step PrEP™

- Kelley-Ross Pharmacy Seattle
- Year 1: 373 enrolled



Outcomes 1 <sup>st</sup> Year of Operation	
	% (n)
Clinic Retention	75% (280)
Discontinuation	25% (63)
Insurance restriction or transfer care	38
Lost to follow-up	13
Decreased risk – stop	7
Relocation	5

- Planned WA statewide expansion using pharmacy-based clinics

*Tung E, et al. Feasibility of a pharmacist-run HIV PrEP clinic in a community pharmacy setting. [CROI 961]*

## Conclusion

- Health care in the US is characterized by profound disparities by region and race
  - Rooted in American history
- PrEP uptake mirrors these disparities & has the potential to make them wider or ameliorate them
- Success will require concerted efforts to direct PrEP toward disproportionately affected populations





Thank You