

Ending the HIV Epidemic: Cherokee Nation, Oklahoma

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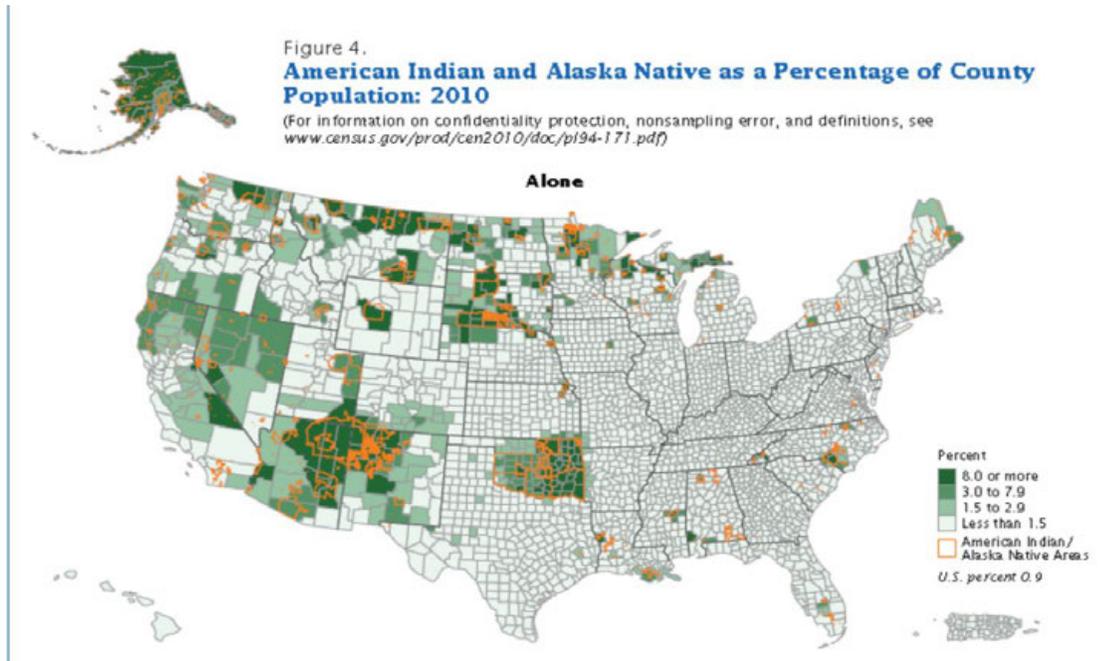
Disclosures

- Jorge Mera has no actual or potential conflict of interest in relation to this program/presentation.
- Whitney Essex has no actual or potential conflict of interest in relation to this program/presentation.

Outline

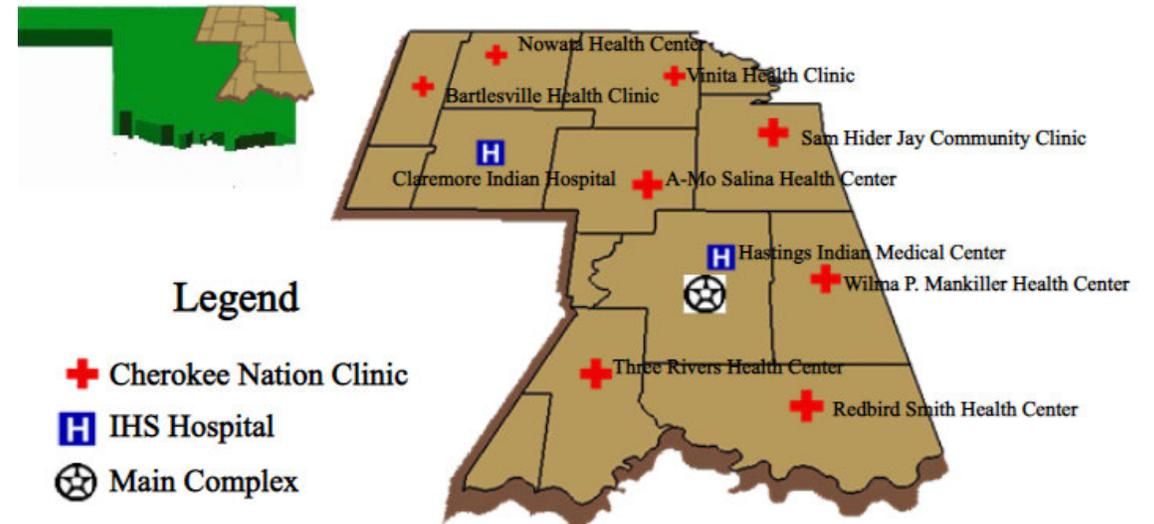
- Overview of Cherokee Nation Health Services (CNHS)
- HIV statistics in AI/AN, Oklahoma and CNHS
- CNHS EHE Program Plan
- CNHS EHE Interventions/Implementation
- Opportunities

American Indians/Alaskan Natives (AI/ANs):



- 5.2 million AI/AN, 573 federally recognized tribes
- CA and OK the highest rate of AI/AN population

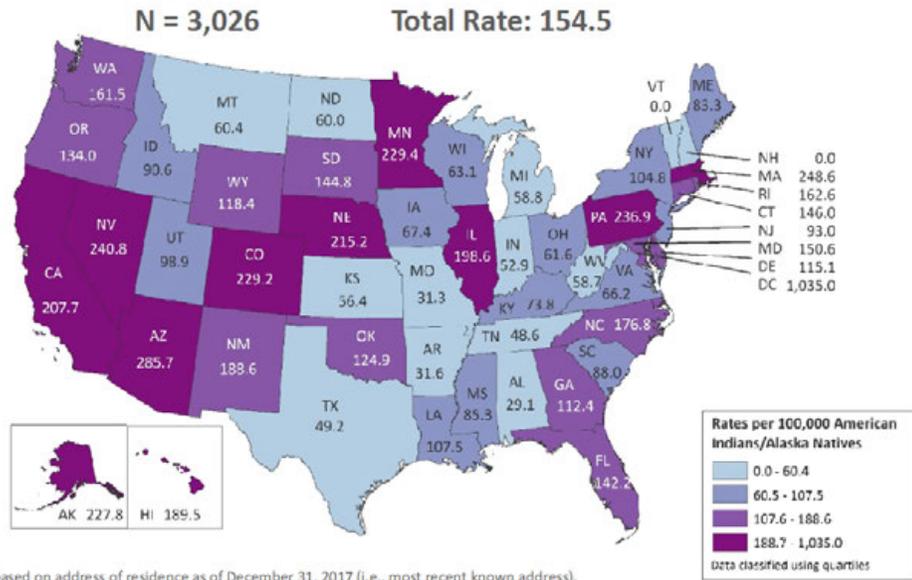
Cherokee Nation Health Services (CNHS)



- Largest Tribal Health System in the USA
- Medically serves 132,000 AI/AN
- One central hospital and 8 outlying health centers
- Unified electronic health record

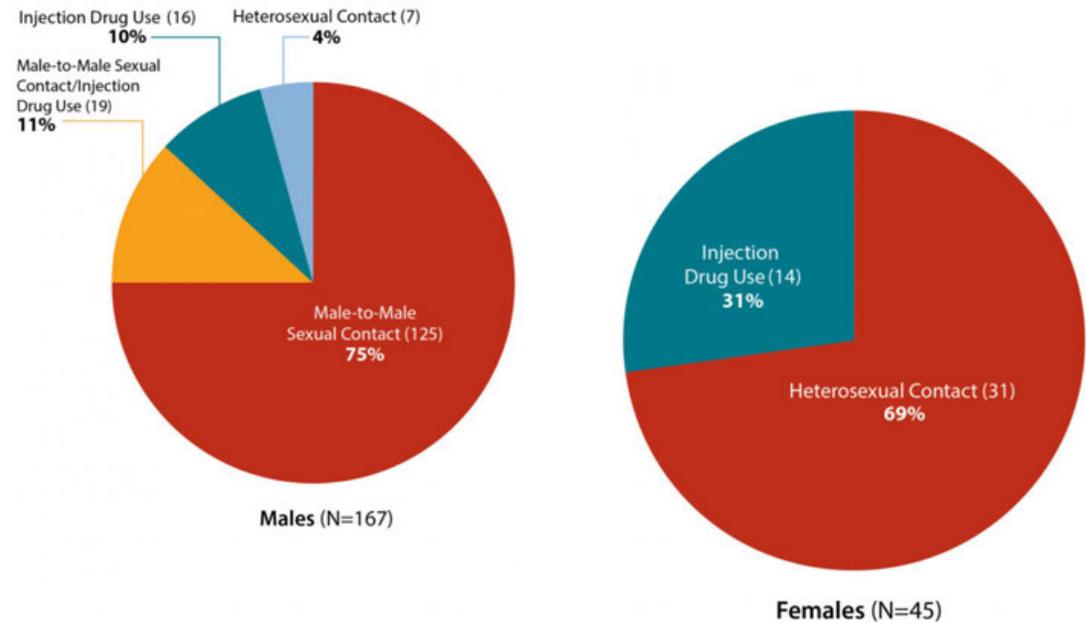
HIV and AI/AN

Rates of American Indian/Alaska Native Adults and Adolescents Living with Diagnosed HIV Infection, by Area of Residence, Year-end 2017—United States



Note: Data are based on address of residence as of December 31, 2017 (i.e., most recent known address).

New HIV Diagnosis Among American Indian/Alaskan Natives in the US and Dependent Areas by Transmission Categories and Sex, 2017²



Indian Health Services 2005-2014¹

2273 newly diagnosed PLWH Reported

Average annual rate of 15.1/100,000 AI/AN population

Rate was highest among males ages 20-54

HIV Diagnosed from 2010-2016

AI/AN overall increase of 46%

AI/AN gay and bisexual men increase 81%

1. Reilley, B., Haberling, D. L., Person, M., Leston, J., et al. (2018). *Public Health Reports*, 133(2), 163–168

2. CDC.gov.

Why Cherokee Nation?

Morbidity and Mortality Weekly Report
May 13, 2016

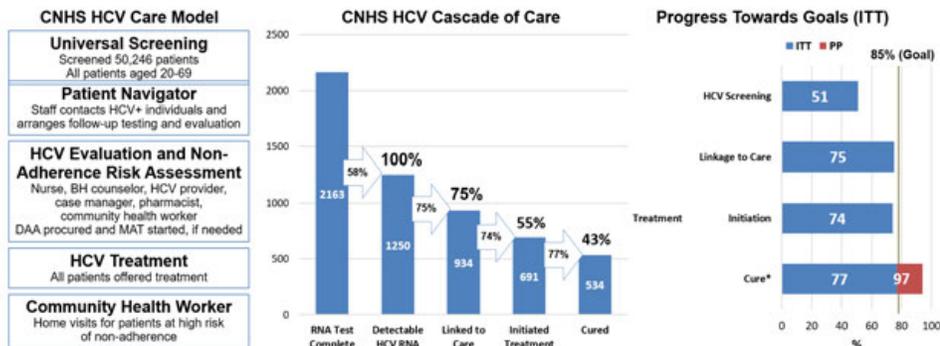
Identification and Clinical Management of Persons with Chronic Hepatitis C Virus Infection — Cherokee Nation, 2012–2015

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CNHS Cherokee Nation's Community-Based Hepatitis Elimination Program

Retrospective study of 1250 patients with detectable HCV RNA from a comprehensive care model from 11/2015 - 6/2019



Findings from this community-based program may inform other communities interested in starting their own HCV Elimination program

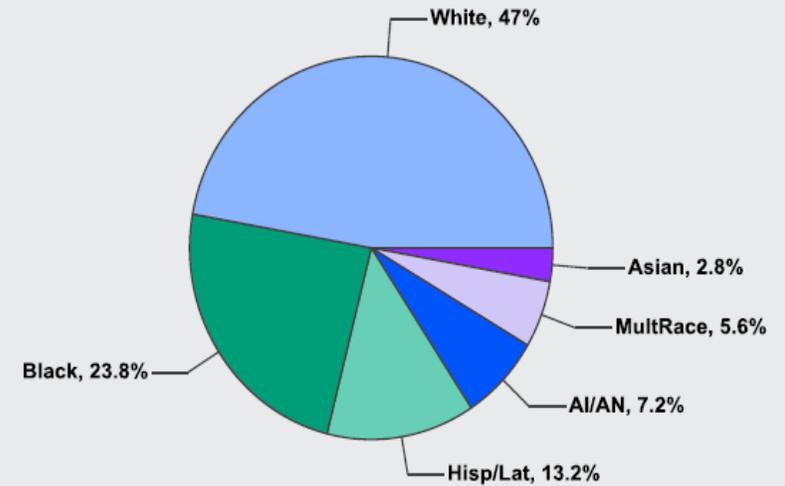
BH=Behavioral Health; CNHS=Cherokee Nation Health Services; MAT=medication assisted therapy; Essex W, et al. AASLD 2019: 512

EHR: Electronic Health Record
CHW: Community Health Workers

HIV in Oklahoma

HIV Prevalence	
Number of people living with diagnosed HIV, 2016	5926 (82.2% male / 17.8% female)
Percent of people living with HIV, by Age, 2016	3.9% aged 13-24 17.3% aged 25-34 21.9% aged 35-44 31.4% aged 45-54 25.5% aged 55+
Rate of people living with HIV per 100,000 people 2016	184
PrEP (Pre-Exposure Prophylaxis)	
Number of PrEP users	748 (95.2% male/4.8% female)
Rate of PrEP users per 100,000 population	23
PrEP-to-Need (PnR)	2.48
HIV Mortality	
Number of deaths of people with HIV, 2016	116 (82.8% male / 17.2% female)
Rate of deaths of people with HIV per 100,000 population, 2016	4

Estimated adults and adolescents diagnosed with HIV, by race/ethnicity, Oklahoma, 2015



*AI/AN, American Indian/Alaska Native; Black, Black/African American; Hisp/Lat, Hispanic/Latino; MultRace, Multiple races; NHOPI, Native Hawaiian/Other Pacific Islander; Unk, Unknown
 **NHOPI: <0.31%

HIV Prevention Progress Report 2019

Prevent New HIV Infections			Improve Health Outcomes for Persons with HIV			
HIV Incidence	Testing	HIV Diagnosis	Continuum of HIV Care			Mortality
New Infections (2016)	Knowledge of HIV+ Status (2016)	New Diagnoses (2016)	Linkage to Care (2016)	Retention in Care (2015)	Viral Suppression (2015)	Death Rate (2015)

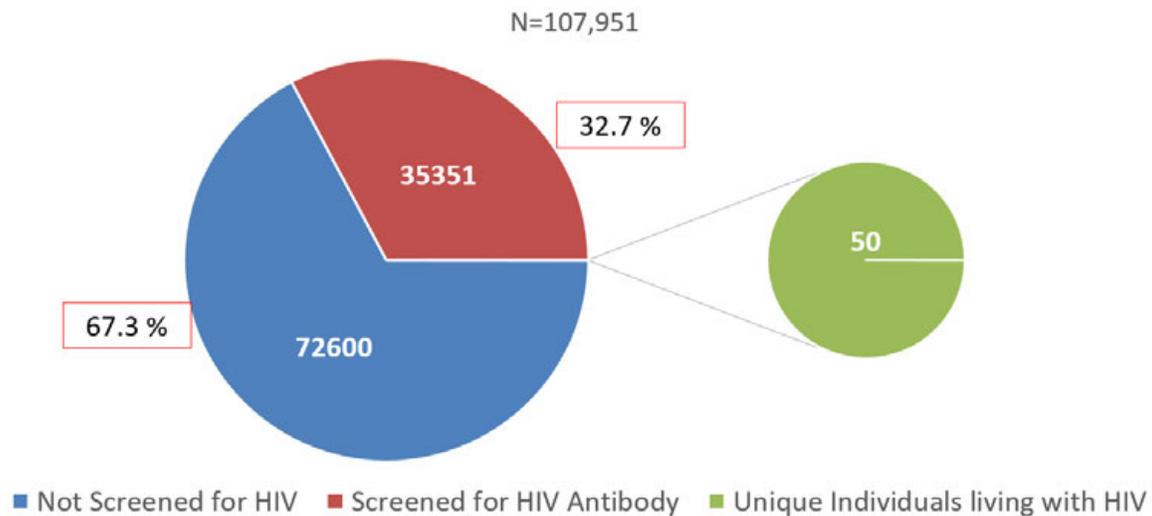


- **Met 2020 Target** in most recent data year
- **Progress:** Moved toward 2020 target in most recent data year
- **No Progress:** No change or moved away from 2020 target in most recent data year
- **Cannot Assess:** Lab data not available or single year only
- Unstable Estimate**

CNHS HIV Statistics

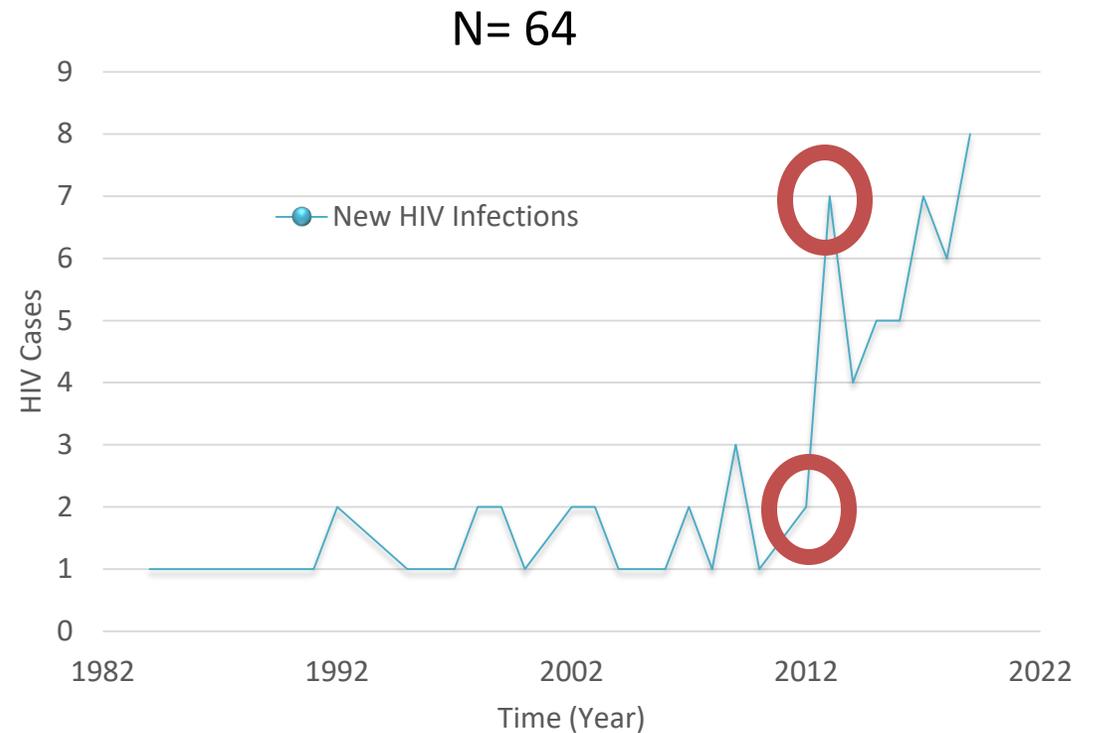
HIV Screening, Aug 2015 – Jun 2019

HIV Screening Among Unique Individuals Ages 13-65 who Accessed the CNHS between August 2015 and June 2019



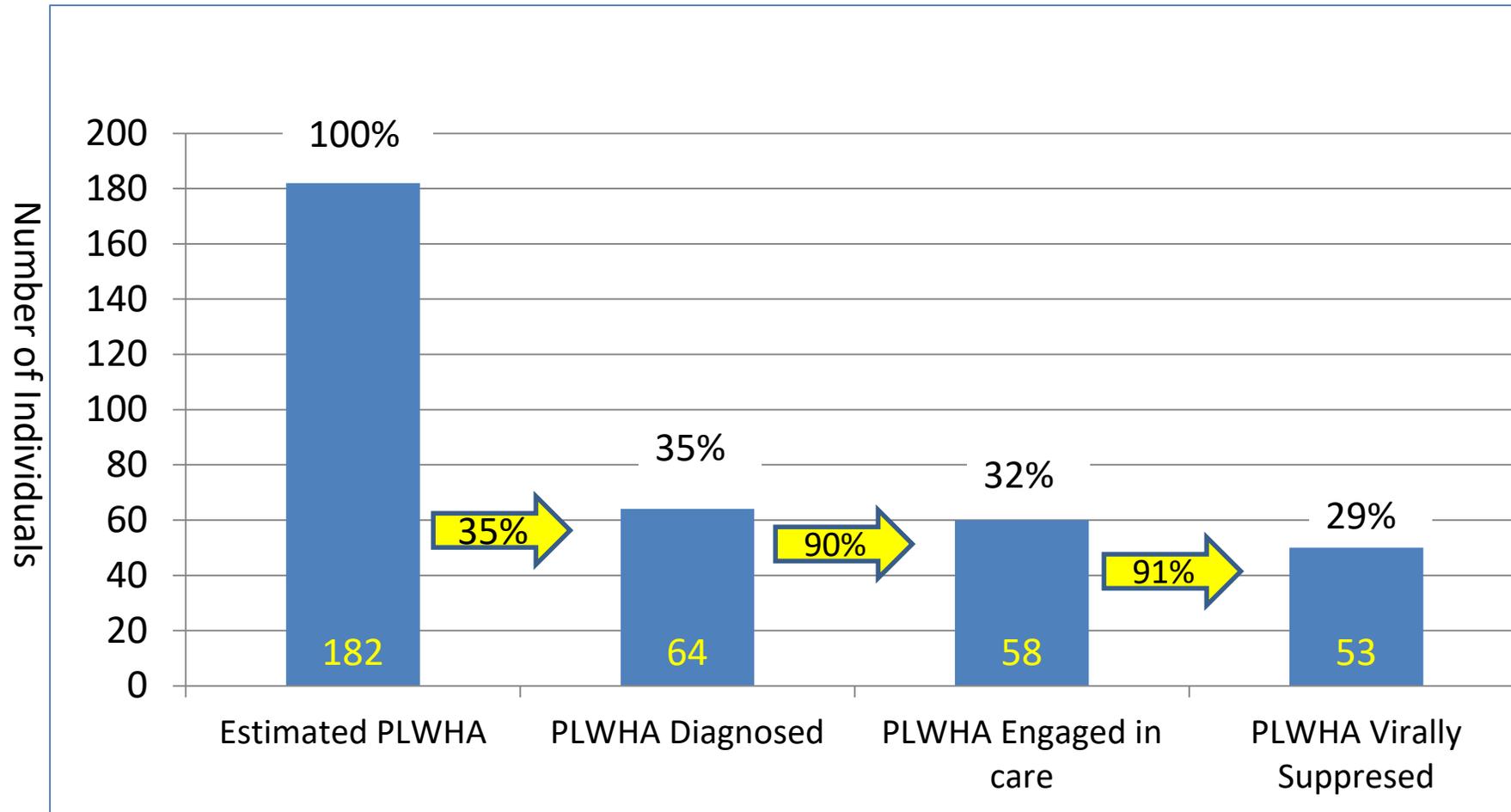
HIV Prevalence: 0.14 %

People Newly Diagnosed with HIV per Year



Only PLWHA followed at the CNHS Specialty Clinic from 2012 – 2019 Included

CNHS: HIV Cascade of Care June 2019



*Estimated HIV Positive individuals based on a prevalence of 0.14%. Data obtained from 35,351 unique individuals ages 13-65 who accessed the CNHS between August 2015 and June 2019 and were screened for HIV antibody.

CNHS: Cherokee Nation Health Services

Ending the HIV Epidemic: A Plan for America

Ending
the
HIV
Epidemic

GOAL:

75%
reduction
in new HIV
infections
in 5 years
and at least
90%
reduction
in 10 years.



HHS will work with each community to establish local teams on the ground to tailor and implement strategies to:



Diagnose all people with HIV as early as possible.

Treat the infection rapidly and effectively to achieve sustained viral suppression.



Prevent new HIV transmissions by using proven interventions, including pre-exposure prophylaxis (PrEP) and syringe services programs (SSPs).

Respond quickly to potential HIV outbreaks to get needed prevention and treatment services to people who need them.



DIAGNOSE people living with HIV

EHR Based
Screening

- HIV screening EHR reminder triggered by:
 - Age / STI / Risky behavior

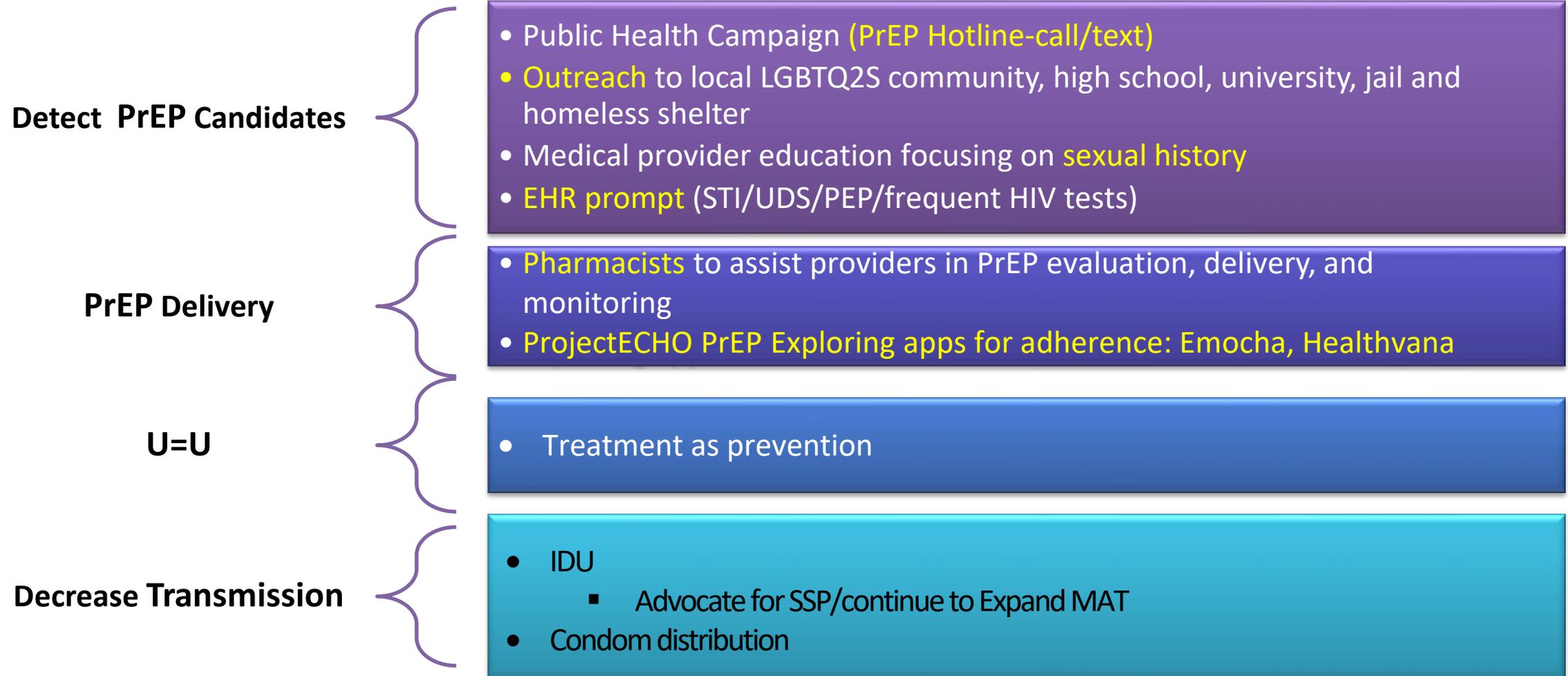
Lab Triggered
Screening

- Within Hospital
 - In patients who have signed consent

Expand Screening
Sites

- Within CNHS:
 - UC/ED, dental clinics, behavioral health, and MAT clinics
- Outside CNHS:
 - Homeless Shelter, High School, Jail, Community events

PREVENT new HIV transmissions



Implementation/Interventions

- EHE advisory board implemented 11/2019
- DIAGNOSE
 - Public Campaign Launched 9/2019
 - Screening expansion to UC/ED initiated 11/2019
 - Lab Triggered Screening Initiated 11/2019
 - Age triggered screening EHR reminder ongoing
- PREVENT
 - PrEP
 - 7 Pharmacists trained
 - PrEP ECHO to launch on 2/14/2020*
 - 2 medical provider workshops complete
 - Increased PrEP patients from 12 to 20
 - SSP
 - Bipartisan harm reduction legislation to be presented in February in Oklahoma
 - MAT ongoing



*In collaboration with Northwest Portland Area Indian Health Board (NPAIHB). Beyond the 15 CNHS providers, 27 other IHS/Tribal facilities from 13 different States will be participating

Opportunities Moving Forward

- Addressing Stigma – our primary barrier
 - LGBTQ2S “friendly” clinic
 - Continue to advocate for syringe service programs
 - HIV prevention education in high school and university
- Define yearly goals
 - Precise baseline measurements need to be obtained
- Partnered with Southern Plains Tribal Epidemiologic Center to obtain:
 - Estimate of PrEP candidates in the CNHS
 - Estimate of HIV prevalence in the CNHS
 - Estimate of LGBTQ2S population in the CNHS

Ready Set PrEP!!!

