Rural HIV PrEP Users and Providers in the United States, 2014 - 2020

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Abstract 00257

Background

Ending the HIV Epidemic in the U.S. (EHE) initiative aims to increase HIV preexposure prophylaxis (PrEP) use by persons at risk for acquiring HIV infection. The EHE priority jurisdictions include seven states with high numbers of HIV diagnoses in rural areas. Our objective was to estimate number of PrEP users and providers in these rural areas, as well as in other rural areas in the United States.

Methods

Data: IQVIA Real-World Longitudinal Prescriptions Data 2014– 2020
Centers for Medicare and Medicaid Services locality file 2020.

Method: We identified PrEP prescription s based on a validated algorithm.
We used providers' zip codes to identify PrEP providers located in rural areas, then calculated PrEP users served by rural providers.

Measures: Time trends in the annual number of PrEP users and providers.
Average number of PrEP users per provider and the estimated annual percentage change (EAPC) over time.
We stratified by provider type (physicians, nurse practitioners, and physician assistants [NP/PA]).

From 2014-2020, the number of PrEP users and PrEP providers increased in EHE rural states more than in non-EHE states.

In EHE states, NP/PAs comprised about 42% of PrEP prescribers and served more than 66% of rural PrEP patients in 2020.

Table. Number and trends of rural PrEP users and providers in the United States, 2014 – 2020, by provider type

	EHE States				non-EHE States			
	2014	2020	EAPC	95% CI	2014	2020	EAPC	95% CI
PrEP users, by provider type								
by Physician	59	621	38.8%*	32.6% - 45.2%	322	3,885	35.30%*	32.4% - 38.4%
by NP/PA	23	1,258	79.9%*	58.5% - 104.1%	172	4,856	56.50%*	50.7% - 62.6%
by Physician + NP/PA	1	40	-	-	5	195	-	-
by Other	4	39	-	-	19	103	-	-
Providers, by provider type								
Physician	54	409	32.2%*	28.8% - 35.7%	261	2,313	32.20%*	30.8% - 33.6%
NP/PA	19	313	51.0%*	45.5% - 56.6%	105	1,798	45.10%*	43.0% - 47.2%
Other	2	21	-	-	15	81	-	-

EHE states: Alabama, Arkansas, Kentucky, Mississippi, Missouri, Oklahoma, and South Carolina; **EAPC:** estimated annual percentage change;
NP/PA: nurse practitioners, and physician assistants; **95% CI:** 95% confidence interval; *: p-value < 0.05

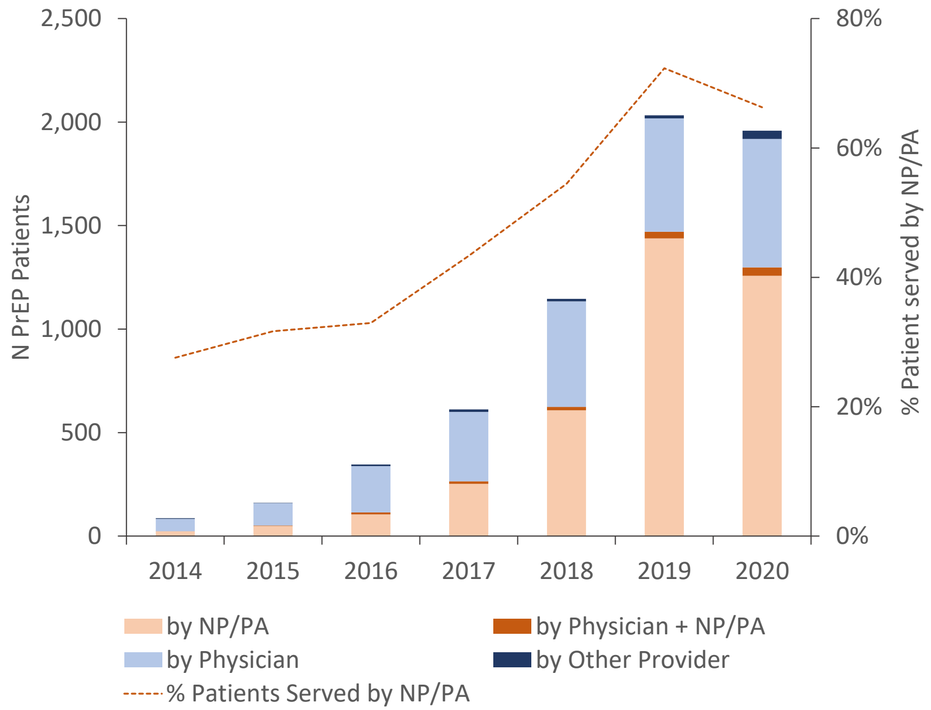

Figure. PrEP users in rural states included as priority areas in the "Ending the HIV Epidemic in the U.S." initiative, by provider type, 2014–2020

Disclaimer

The findings and conclusions in this report are those of the authors and do not necessarily represent the official position of the Centers for Disease Control and Prevention

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