ID 1443

COSTS OF PROVIDING PRE-EXPOSURE PROPHYLAXIS FOR HIV PREVENTION IN U.S. HEALTH CENTERS

Ram K. Shrestha, PhD[1], Nicholas Davis, MS[2], Megan Coleman, DNP, MSN[3], Laura K. Rusie, ScM[2], Dawn K. Smith, MD, MS, MPH[1]

[1]Division of HIV/AIDS Prevention, National Center for HIV/AIDS, Viral Hepatitis, STD, and TB Prevention, Centers for Disease Control and Prevention, Atlanta, GA, USA; [2]Howard Brown Health, Chicago, IL, USA; [3]Whitman-Walker Health, Washington, DC, USA

BACKGROUND

- Pre-exposure prophylaxis (PrEP) with daily tenofovir disoproxil fumarate/emtricitabine is effective in preventing HIV acquisition.
- The Centers for Disease Control and Prevention (CDC) recommends health care providers consider offering PrEP to people at substantial risk of acquiring HIV.
- We assess health care utilization and costs of PrEP implementation at two federally qualified health centers.

METHODS

- The Sustainable Health Center Implementation PrEP Pilot (SHIPP) Study is an observational cohort of persons receiving daily oral PrEP at participating health centers.
- We assessed health care utilization and costs of providing PrEP in Howard Brown Health, Chicago, IL and Whitman-Walker Health, Washington, DC.
- The clinics followed CDC guidelines for PrEP provision, including regular visits with providers and ongoing laboratory monitoring.
- Using clinic billing records and Current Procedural Terminology (CPT) coding, we retrospectively extracted the frequency and costs (in 2017 $US) of PrEP clinic visits and frequency of laboratory screening.
- We used the Centers for Medicare and Medicaid Services national payment rates to estimate the costs of laboratory services.

RESULTS

- PrEP clinic visits and laboratory screens per patient (Table 1):
  - Chicago: Mean 5.1 visits and 22.3 screens
  - Washington, DC: Mean 5.4 visits and 25.5 screens.
- Cost for clinic visits and laboratory screens per patient:
  - Chicago: Mean $607 for visits and $986 for screens
  - Washington, DC: Mean $923 for visits and $1,033 for screens.
- Annual total cost per patient:
  - Chicago: Mean $1,593 (95% CI: $1,552–$1,634)
  - Washington, DC: Mean $1,956 (95% CI: $1,444–$2,469).

Annual total cost of PrEP implementation per patient was $1,593 in Chicago, IL and $1,956 in Washington, DC, USA



CONCLUSIONS

- Our analysis provides the first estimates of the implementation costs of PrEP provision in the United States.
- Results inform health care providers in planning and scaling up PrEP implementation.



Table 1. Annual service utilization and program cost of providing pre-exposure prophylaxis (PrEP) for HIV prevention

	Service Utilization		Program Cost (in 2017 $US)	
	Total	Mean (95% CI)	Total	Mean (95% CI)
Chicago, IL (n=482)				
Office visits	2,476	5.1 (5.0–5.3)	292,619	607 (577–637)
Laboratory screens	10,737	22.3 (8.1–36.4)	475,374	986 (975–997)
Total	13,213	27.4 (13.1–41.7)	767,994	1,593 (1,552–1,634)
Washington, DC (n=56)				
Office visits	300	5.4 (4.0–6.8)	51,677	923 (681–1,165)
Laboratory screens	1,428	25.5 (18.8–32.2)	57,876	1,033 (763–1,304)
Total	1,728	30.9 (22.8–38.9)	109,553	1,956 (1,444–2,469)

n is number of patients.

Contact Info

Ram Shrestha, PhD
Division of HIV/AIDS Prevention
biu0@cdc.gov
1-404-639-6245

www.cdc.gov | Contact CDC at: 1-800-CDC-INFO or www.cdc.gov/info. 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.