HIV & Corrections

Understanding the HIV Epidemic in the U.S.





About this module

This module was developed in 2020 by the North Carolina HIV Training & Education Center (NCHTEC), a partner in the Southeast AIDS Education & Training Center (SE AETC) network.

These resources are intended to complement training materials created for Enhancing Linkages to HIV Primary Care and Services in Jail Settings, a HRSA Special Projects of National Significance (SPNS) initiative that ran from 2007-2012. For more information about that initiative, visit: https://nextlevel.targethiv.org/deii/jails









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Learning objectives

- Describe recent trends in the number of new HIV infections in the United States.
- List some social and behavioral characteristics of key populations at risk for acquiring HIV.
- Compare and contrast HIV statistics among prisoners and the general population.
- Explain some of the factors contributing to HIV prevalence among persons in jails and prisons.





How did HIV get to the US?





Sharp & Hahn. Philos Trans R Soc Lond B Biol Sci. 2010 Aug 27;365(1552):2487-94 Faria NR et al. Science. 2014 Oct 3; 346(6205):56-61 Worobey M et al. Nature. 2016 Nov 3; 539(7627):98-101



A timeline of HIV in the United States





Data from various CDC sources. 1994 AIDS mortality: https://www.cdc.gov/mmwr/preview/mmwrhtml/00040227.htm



How many infections occur each year?



Hall HI et al. JMIR Public Health Surveill 2017 Feb 3;3(1):e8. Satcher Johnson A et al. JAIDS 2017 Oct 1;76(2):116-22 CDC. HIV Surveillance Suppl Rep 2019;24(1).





Who is acquiring HIV?

Estimated new infections by transmission category, 2016





CDC. HIV Surveillance Suppl Rep 2019;24(1).



Who is acquiring HIV?

Estimated new infections by race/ethnicity, sex, and age, 2016

Blacks			Hispanic/Latinx		Whites		
≥25 ₫	13-24 🗗		≥25 ₫		≥25 ₫		
1		13-24	13-24 🗗		13-24 🗗		
≥25 🖞		ę	≥25 ₽				



CDC. HIV Surveillance Suppl Rep 2019;24(1).



HIV transmission can occur in prison settings but is very

rare.

Factors associated with acquiring HIV during incarceration in Georgia Dept. of Corrections, 2005 (n=68)

- Any male-male sex in prison
- Received a tattoo in prison
- Body mass index at entry ≤25.4 (a "normal" weight)
- Black race

Considering 10,000 male inmates over a 1-year period...

o infections may occur among those

continuously

incarcerated

(0.08 per 100PY)

292 infections

may occur among those released and reincarcerated (2.92 per 100PY)



Gough E, at al. BMC Public Health. 2010 Dec 21;10:777 Taussig J, et al. MMWR. 2006 Apr 21;55(15):421-6



How many Americans are living with HIV?



Approximately 162,500 unaware of their infection (in 2015)

937,500 diagnosed with HIV (in 2015)



https://www.census.gov/popclock/ Accessed 23 Aug 2019. https://www.cdc.gov/hiv/statistics/overview/ataglance.html. Accessed 16 Jan 2019.



How do incarcerated populations compare?

Number of prisoners living with HIV and prevalence per 100,000 in state or federal custody, by year



AETC AIDS Education & Training Center Program Southeast

Maruschak LM, Bronson J. HIV in Prisons, 2015—Statistical Tables. Bureau of Justice Statistics: Office of Justice Programs, U.S. Department of Justice. August 2017. Accessed 2 Jan 2020 at https://www.bjs.gov/content/pub/pdf/hivp15st.pdf



The prevalence of HIV among state and federal prisoners is more than 3 times that of the US population

Approximately

0.4% of Americans are living with HIV (1.14 million in 2016)



of prisoners are living with HIV (17,150 in 2015)



Maruschak LM, Bronson J. HIV in Prisons, 2015—Statistical Tables. Bureau of Justice Statistics: Office of Justice Programs, U.S. Department of Justice. August 2017. Accessed 2 Jan 2020 at https://www.bjs.gov/content/pub/pdf/hivp15st.pdf



Who are those living with HIV?





* This chart is simplified from CDC data MSM who also inject drugs = 58,600

CDC. HIV Surveillance Supplemental Report. Vol 24 (No. 1) 2019.



Who are those living with HIV?





Census data from: https://factfinder.census.gov/bkmk/table/1.0/en/ACS/17_5YR/DP05/0100000US Prevalence data from: https://www.cdc.gov/hiv/pdf/library/reports/surveillance/ cdc-hiv-surveillance-supplemental-report-vol-24-1.pdf



Where are those living with HIV?



Number of persons living with HIV per 100,000 residents, by county, 2016



https://aidsvu.org/local-data/united-states/



How do incarcerated populations compare?



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Data from: Maruschak LM, Bronson J. HIV in Prisons, 2015—Statistical Tables. Bureau of Justice Statistics: Office of Justice Programs, U.S. Department of Justice. August 2017. Image from: https://www.hiv.uw.edu/go/key-populations/hiv-corrections/core-concept/all Accessed 2 Jan 2020



Why such disparities by race?





"The Louisville Flood" by Margaret Bourke-White, 1937 https://rarehistoricalphotos.com/there-no-way-like-american-way-1937/