SURVEILLANCE REPORT

SPECIAL REPORT





Health and Quality of Life Among
Persons With Diagnosed HIV Infection
Medical Monitoring Project, United States,
2021 Data Cycle (June 2021–May 2022)

This HIV Surveillance Special Report is published by the Behavioral and Clinical Surveillance Branch of the Division of HIV Prevention, National Center for HIV, Viral Hepatitis, STD, and TB Prevention, Centers for Disease Control and Prevention (CDC), U.S. Department of Health and Human Services, Atlanta, Georgia.

The HIV Surveillance Special Report is not copyrighted and may be used and copied without permission. Citation of the source is, however, appreciated.

Suggested citation

Centers for Disease Control and Prevention. *Individual-level Social Determinants of Health and Quality of Life Among Persons With Diagnosed HIV Infection—Medical Monitoring Project, United States, 2021 Data Cycle (June 2021–May 2022)*. HIV Surveillance Special Report 36. https://www.cdc.gov/hiv/library/reports/hiv-surveillance.html. Published April 2024. Accessed [date].

Erratum statement: Due to a rounding error in a previous version of this report, the 2025 target value for the NHAS unemployment indicator was incorrectly characterized as 8%. The 2025 NHAS goal for unemployment is a 50% reduction from the 2017 baseline (14.9%) in the percentage of persons with diagnosed HIV who report being out of work, which means the 2025 target value should be 7.45%. Therefore, the rounded value should have been characterized as "approximately 7%." This error can be found on pages 6, 21, and 24 of this report.

On the Web: https://www.cdc.gov/hiv/library/reports/hiv-surveillance.html.

Confidential information, referrals, and educational material on HIV infection CDC-INFO

1-800-232-4636 (in English, en Español) 1-888-232-6348 (TTY) https://wwwn.cdc.gov/dcs/ContactUs/Form

This report was prepared by the following staff and contractors of the Division of HIV Prevention, CDC: Sharoda Dasgupta, Xin Yuan, Stacy M. Crim, Tim McManus, Yunfeng Tie, Linda Beer, Mohua Basu, Catherine Espinosa, Rodel Desamu-Thorpe, Jennifer L. Fagan, Kamal Hughes, Ruth E. Luna-Gierke, Mabel Padilla, Taylor Robbins, Kristal Stevenson, Sandra Stockwell, Jennifer Taussig, Nabeeha Virani, John Weiser, Jason A. Craw, and Michael Friend (editing and desktop publishing).

Acknowledgments

This report was prepared by members of the Clinical Outcomes Team within the Division of HIV Prevention.

This report would not be possible without the contributions of Medical Monitoring Project (MMP) respondents, community and provider advisory boards, interviewers, and abstractors; the Data Coordinating Center for HIV Supplemental Surveillance at ICF International; and members of the Clinical Outcomes Team, Division of HIV Prevention, National Center for HIV, Viral Hepatitis, STD, and TB Prevention, CDC, Atlanta, Georgia.

MMP project areas—https://www.cdc.gov/hiv/statistics/systems/mmp/projectareas.html

Contents

Com	mentary	5
Figu	res	
1	National HIV/AIDS Strategy indicators among adults with diagnosed HIV—Medical Monitoring Project, United States, 2021	6
2	Household poverty level of adults with diagnosed HIV—Medical Monitoring Project, United States, 2015–2021	7
3	Health insurance or coverage among adults with diagnosed HIV—Medical Monitoring Project, United States, 2015–2021	8
4	Disability among adults with diagnosed HIV—Medical Monitoring Project, United States, 2015–2021	9
5	HIV health care discrimination, limited English proficiency, experiences with physical violence by an intimate partner or forced sex, and incarceration among adults with diagnosed HIV—Medical Monitoring Project, United States, 2021	10
6	Good or better self-rated health among adults with diagnosed HIV, by age, gender, sexual orientation, and race/ ethnicity—Medical Monitoring Project, United States, 2021	11
7	Unmet needs for services from a mental health professional among adults with diagnosed HIV with a need for services, by age, gender, sexual orientation, and race/ethnicity—Medical Monitoring Project, United States, 2021	12
8	Unstable housing or homelessness among adults with diagnosed HIV, by age, gender, sexual orientation, and race/ ethnicity—Medical Monitoring Project, United States, 2021	13
9	Unemployment among adults with diagnosed HIV, by age, gender, sexual orientation, and race/ethnicity—Medical Monitoring Project, United States, 2021	14
10	Hunger or food insecurity among adults with diagnosed HIV, by age, gender, sexual orientation, and race/ethnicity— Medical Monitoring Project, United States, 2021	15
11	Median HIV stigma scores among adults with diagnosed HIV, by age, gender, sexual orientation, and race/ethnicity— Medical Monitoring Project, United States, 2021	16
12	Good or better self-rated health among adults with diagnosed HIV, by NHAS priority population—Medical Monitoring Project, United States, 2021	17
13	Unmet needs for services from a mental health professional among adults with diagnosed HIV who needed services, by NHAS priority population—Medical Monitoring Project, United States, 2021	18
14	Unstable housing or homelessness among adults with diagnosed HIV, by NHAS priority population—Medical Monitoring Project, United States, 2021	18
15	Unemployment among adults with diagnosed HIV, by NHAS priority population—Medical Monitoring Project, United States, 2021	19
16	Hunger or food insecurity among adults with diagnosed HIV, by NHAS priority population—Medical Monitoring Project, United States, 2021	19
17	Median HIV stigma scores among adults with diagnosed HIV, by NHAS priority population—Medical Monitoring Project, United States, 2021	20
18	Good or better self-rated health among adults with diagnosed HIV, by jurisdiction—Medical Monitoring Project, United States, 2021	21
19	Unmet needs for services from a mental health professional among adults with diagnosed HIV who needed services, by jurisdiction—Medical Monitoring Project, United States, 2021	22
20	Unstable housing or homelessness among adults with diagnosed HIV, by jurisdiction—Medical Monitoring Project, United States, 2021	23
21	Unemployment among adults with diagnosed HIV, by jurisdiction—Medical Monitoring Project, United States, 2021	24
22	Hunger or food insecurity among adults with diagnosed HIV, by jurisdiction—Medical Monitoring Project, United States, 2021	25
23	Median HIV stigma score among adults with diagnosed HIV, by jurisdiction—Medical Monitoring Project, United States, 2021	26

24	Prevalence of adverse clinical outcomes among adults with diagnosed HIV, by self-rated health—Medical Monitoring Project, United States, 2021	27
25	Prevalence of adverse clinical outcomes among adults with diagnosed HIV, by whether or not persons experienced unmet needs for mental health services among those who needed them—Medical Monitoring Project, United States, 2021	28
26	Prevalence of adverse clinical outcomes among adults with diagnosed HIV, by whether or not persons experienced unstable housing or homelessness—Medical Monitoring Project, United States, 2021	29
27	Prevalence of adverse clinical outcomes among adults with diagnosed HIV, by whether or not persons were unemployed—Medical Monitoring Project, United States, 2021	30
28	Prevalence of adverse clinical outcomes among adults with diagnosed HIV, by whether or not persons experienced hunger or food insecurity—Medical Monitoring Project, United States, 2021	31
29	Median HIV stigma scores among adults with diagnosed HIV, by selected HIV outcomes—Medical Monitoring Project, United States, 2021	32
Table	es e	
1	Individual-level social determinants of health and quality of life among adults with diagnosed HIV, by cycle year—Medical Monitoring Project, United States, 2015–2021	33
2a	Individual-level social determinants of health and quality of life among adults with diagnosed HIV, by age—Medical Monitoring Project, United States, 2021	35
2b	Relative and absolute differences in individual-level social determinants of health and quality of life among adults with diagnosed HIV, by age—Medical Monitoring Project, United States, 2021	37
3a	Individual-level social determinants of health and quality of life among adults with diagnosed HIV, by current gender identity—Medical Monitoring Project, United States, 2021	39
3b	Relative and absolute differences in individual-level social determinants of health and quality of life among adults with diagnosed HIV, by current gender identity—Medical Monitoring Project, United States, 2021	41
4a	Individual-level social determinants of health and quality of life among adults with diagnosed HIV, by sexual orientation—Medical Monitoring Project, United States, 2021	43
4b	Relative and absolute differences in individual-level social determinants of health and quality of life among adults with diagnosed HIV, by sexual orientation—Medical Monitoring Project, United States, 2021	45
5a	Individual-level social determinants of health and quality of life among adults with diagnosed HIV, by racial/ethnic identity—Medical Monitoring Project, United States, 2021	47
5b	Relative and absolute differences in individual-level social determinants of health and quality of life among adults with diagnosed HIV, by racial/ethnic identity—Medical Monitoring Project, United States, 2021	49
6	Individual-level social determinants of health and quality of life among adults with diagnosed HIV, by National HIV/AIDS Strategy priority populations—Medical Monitoring Project, United States, 2021	51
7	National HIV/AIDS Strategy indicators among adults with diagnosed HIV, by other individual-level social determinants of health—Medical Monitoring Project, United States, 2021	53
8	National HIV/AIDS Strategy indicators among adults with diagnosed HIV, by project area—Medical Monitoring Project, United States, 2021	55
9	Key clinical outcomes among adults with diagnosed HIV, by individual-level social determinants of health and quality of life—Medical Monitoring Project, United States, 2021	56
10	Median HIV stigma scores by key clinical outcomes among adults with diagnosed HIV—Medical Monitoring Project, 2021	58
Tech	nical Notes and Appendix	59

Commentary

Social determinants of health (SDOH) are the "conditions in the environments where people are born, live, learn, work, play, worship, and age that affect a wide range of health, functioning, and quality-of-life outcomes and risks" [1]. Addressing social determinants of health among persons with diagnosed HIV (PWH) is a national priority highlighted in the White House's National HIV/AIDS Strategy (NHAS), as it is essential for reducing disparities in health outcomes and achieving health equity among persons with HIV [2, 3], particularly among priority groups, including: gay, bisexual, and other men who have sex with men (MSM) (in particular, Black, Latino, and American Indian/Alaska Native men); Black women; transgender women; youths aged 13–24 years; and persons who inject drugs. Further, NHAS added several indicators in 2022 based on community input to monitor quality of life (QoL) among PWH that are related to SDOH, including aspects of physical health (i.e., self-reported health status), mental health (i.e., unmet needs for mental health services), and structural or subsistence factors (i.e., unemployment, hunger/food insecurity, and unstable housing or homelessness) [4].

The Centers for Disease Control and Prevention (CDC) Medical Monitoring Project (MMP) is the only source of nationally representative data on individual-level SDOH and QoL among adults with diagnosed HIV in the United States, including among priority populations highlighted in NHAS. Estimates are also representative for each of MMP's reporting project areas: California (including separately funded jurisdictions of Los Angeles County and San Francisco), Delaware, Florida, Georgia, Illinois (including the separately funded jurisdiction of Chicago), Indiana, Michigan, Mississippi, New Jersey, New York (including the separately funded jurisdiction of New York City), North Carolina, Oregon, Pennsylvania (including the separately funded jurisdiction of Philadelphia), Puerto Rico, Texas (including the separately funded jurisdiction of Houston), Virginia, and Washington. Data from MMP are critical for achieving the goals of NHAS [4] and the Ending the HIV Epidemic in the U.S. (EHE) initiative [5], which seek to reduce new HIV infections in the United States by 90% by 2030 and prioritize reducing HIV-related disparities and health inequities and improving PWH's health and well-being.

This report highlights aspects of individual-level SDOH—including socioeconomic status, health-related factors, neighborhood and built environment, and social and community context—and QoL among adults with diagnosed HIV (hereafter known as PWH). Estimates are presented overall, and stratified by cycle year, age, current gender identity, sexual orientation, race/ethnicity, NHAS priority populations, and jurisdiction. In addition, selected clinical outcomes are stratified by measures related to individual-level SDOH and QoL.

This is the first national HIV surveillance report that presents representative estimates of individual-level SDOH and QoL among PWH in the U.S. Continuing to monitor SDOH and QoL among PWH is an essential step towards meeting national goals aimed at ending the HIV epidemic and ensuring good health and well-being among PWH in the U.S.

This report presents unweighted frequencies and weighted prevalence estimates with 95% confidence intervals (CIs) for all characteristics represented by categorical variables. Continuous variables are represented using median values and 95% CIs. The estimates describe the characteristics of adults with diagnosed HIV infection who are living in the United States, hereafter referred to as *persons with diagnosed HIV* or *persons*. The period referenced for estimates is the 12 months before the respondents' interviews unless otherwise noted. Statistical software (SAS, version 9.4) was used for analysis of weighted data. For categorical variables, data are not reported for estimates derived from a denominator size <30 or for estimates with a coefficient of variation \ge 0.30. For continuous variables, estimates based on a denominator sample size <30 were suppressed. In both the tables and the narrative, estimates with an absolute confidence interval width \ge 30, estimates with an absolute confidence interval width \ge 130%, and

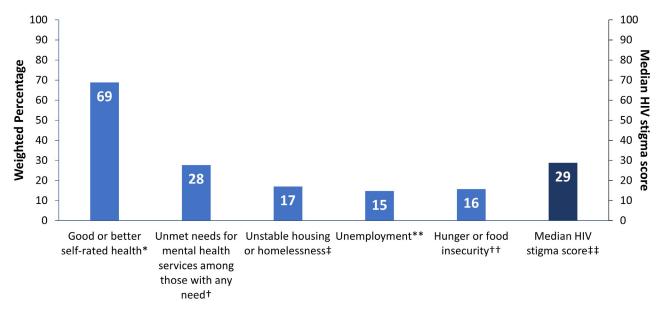
estimates of 0% or 100% are marked with an asterisk (*) and should be interpreted with caution. No statistical tests were performed. Estimates from the 2020 and 2021 cycles presented in this report may have been affected by the COVID-19 pandemic. Estimates for persons identifying as American Indian/Alaska Native or Native Hawaiian/other Pacific Islander were suppressed for all measures due to small numbers. Many estimates for Asian persons were also unreliable and were suppressed. Additional information on MMP is available at https://www.cdc.gov/hiv/statistics/systems/mmp/.

HIGHLIGHTS OF ANALYSES

Individual-level SDOH and QOL

MMP reports information on QoL indicators and HIV stigma to monitor progress towards meeting national HIV prevention and treatment goals highlighted in NHAS. During 2021, 69% of persons with HIV had good or better self-rated health (2025 NHAS goal: 95%), and 28% had an unmet need for services from a mental health professional among those with any need (2025 NHAS goal: 12%) (Figure 1; Table 1). Overall, 17% experienced unstable housing or homelessness during the past 12 months (2025 NHAS goal: 11%), 15% were unemployed (2025 NHAS goal: 8%), and 16% experienced hunger or food insecurity during the past 12 months (2025 NHAS goal: 11%). During 2021, the median HIV stigma score based on a scale that ranged from 0 (no stigma) to 100 (high stigma) was 29 among PWH (2025 NHAS goal: 16).

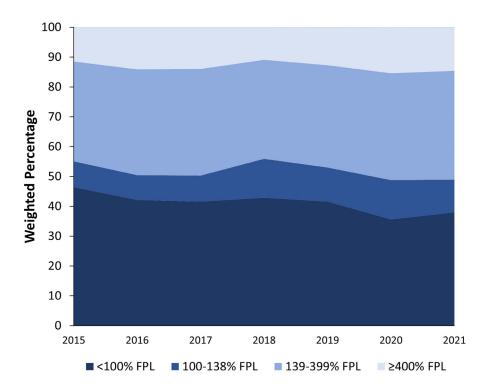
Figure 1. National HIV/AIDS Strategy indicators among adults with diagnosed HIV—Medical Monitoring Project, United States, 2021



- * "Good or better self-rated health" defined as rating one's health as good, very good, or excellent (as opposed to poor or fair) at the time of interview.
- † "Unmet need for mental health services from a mental health professional" defined as needing, but not receiving, services from a mental health professional among those who indicated needing mental health services (i.e., receiving or needing but not receiving) during the past 12 months.
- "Unstable housing or homelessness" defined as experiencing unstable housing (i.e., moving in with others due to financial issues, moving 2 or more times, or being evicted) or homelessness (living on the street, in a shelter, in a single-room—occupancy hotel, or in a car) at any time during the past 12 months.
- ** Unemployed persons included those who reported being unemployed at the time of interview, excluding persons who are unable to work, calculated among all adults with HIV.
- †† "Hunger/food insecurity" defined as going without food due to lack of money during the past 12 months.
- ‡‡ "Median HIV stigma score" defined as the weighted median score on a 10-item scale ranging from 0 (no stigma) to 100 (high stigma) that measures 4 dimensions of HIV stigma: personalized stigma during the past 12 months, current disclosure concerns, current negative self-image, and current perceived public attitudes about persons living with HIV, measured among persons aged ≥18 years with diagnosed HIV infection living in the United States and Puerto Rico.

MMP also collects information on other individual-level SDOH related to economic stability, education, health-related factors, and social and community context. During 2021, 85% of PWH were living in a household with an income <400% of the federal poverty level (FPL); 38% were living in a household with an income <100% of the FPL, 11% in a household with an income between 100%–138% of the FPL, and 37% in a household with an income between 139%–399% (Figure 2; Table 1). The percentage of PWH living in a household with an income <100% of the FPL was lowest in 2020 (36%) and highest in 2015 (46%).

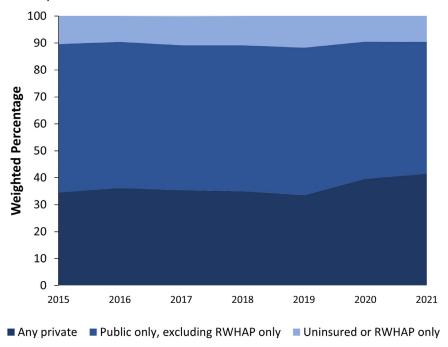
Figure 2. Household poverty level of adults with diagnosed HIV—Medical Monitoring Project, United States, 2015–2021



Note. Poverty guidelines as defined by HHS. For persons interviewed in a particular calendar year, the HHS poverty guidelines from the previous year were used. For instance, the 2020 guidelines were used for persons interviewed in 2021. More information regarding HHS poverty guidelines can be found at https://aspe.hhs.gov/frequently-asked-questions-related-poverty-guidelines-and-poverty.

During the past 12 months, 42% had any private insurance coverage, 49% had public insurance or coverage only (excluding those who had Ryan White HIV/AIDS Program [RWHAP] assistance only), and 10% were uninsured or received RWHAP assistance only (Figure 3; Table 1). The percentage of PWH who had any private insurance was lowest during 2019 (34%) and highest during 2021 (42%). In addition, 47% received any RWHAP assistance during the past 12 months (Table 1).

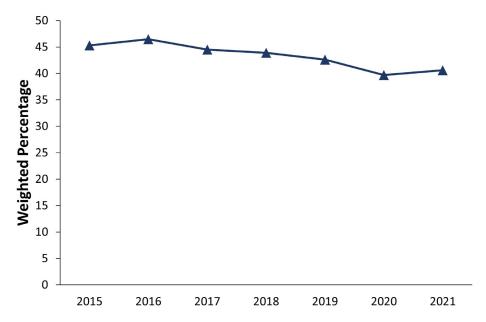
Figure 3. Health insurance or coverage among adults with diagnosed HIV—Medical Monitoring Project, United States, 2015–2021



Abbreviation: RWHAP, Ryan White HIV/AIDS Program.

During 2021, 41% of PWH reported a physical, mental, or emotional disability; the percentage of PWH with one or more disabilities was lowest during 2020 (40%) and highest during 2016 (47%).

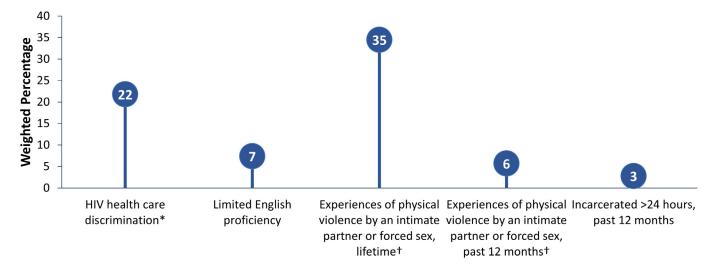
Figure 4. Disability among adults with diagnosed HIV—Medical Monitoring Project, United States, 2015–2021



Note. Disabilities are self-reported, and include physical, mental, and emotional disabilities.

During 2021, 22% of PWH experienced HIV health care discrimination during the past 12 months, and 7% reported speaking English "less than well" (Figure 5; Table 1). Overall, 35% had experiences of physical violence by an intimate partner or forced sex during their lifetime, and 6% had these experiences during the past 12 months. Three percent of PWH reported being incarcerated during the past 12 months.

Figure 5. HIV health care discrimination, limited English proficiency, experiences with physical violence by an intimate partner or forced sex, and incarceration among adults with diagnosed HIV—Medical Monitoring Project, United States, 2021



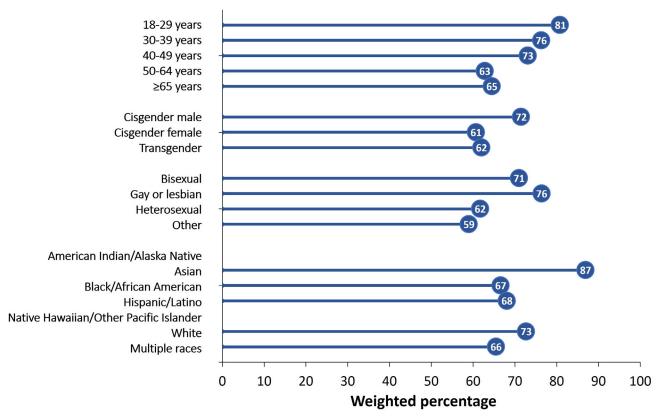
- * HIV health care discrimination among those who received HIV care during the previous 12 months was assessed based on seven forms of discrimination, including: being treated with less courtesy than other persons, being treated with less respect than other persons, receiving poorer service than others, having a doctor or nurse act as if he or she believed they were not smart, having a doctor or nurse act as if he or she were afraid of them, having a doctor or nurse act as if he or she were better than them, and having a doctor or nurse not listen to what they were saying. Participants were asked if they experienced this never, rarely, some of the time, most of the time, or all the time. Participants who reported experiencing at least one form of health care discrimination rarely, some of the time, most of the time, or all of time were considered to have experienced discrimination in an HIV health care setting.
- † Physical violence by an intimate partner was defined as ever being slapped, punched, shoved, kicked, choked, or otherwise physically hurt by a romantic or sexual partner. Forced sex was defined as ever being threatened with harm or physically forced to have unwanted vaginal, anal, or oral sex.

NHAS Indicators and Other Individual-level SDOH by Demographic Characteristics

Estimates of all NHAS indicators and other individual-level SDOH are reported by demographic characteristics. Absolute and relative disparities (using prevalence differences and prevalence ratios, respectively) were used to quantify differences in indicators and other SDOH by demographic characteristics, which are reported in Tables 2–5.

Good or better self-rated health varied by age, current gender identity, sexual orientation, and race/ethnicity (Tables 2–5, Figure 6). When stratified by age, good or better self-rated health was highest among persons aged 18–29 years (81%) and lowest among persons aged 50–64 years (63%). When stratified by current gender identity, good or better self-rated health was highest among cisgender males (72%) and lowest among cisgender females (61%). When stratified by sexual orientation, good or better self-rated health was highest among persons who identified as gay or lesbian (76%) and lowest among persons who identified as another sexual orientation (i.e., not lesbian or gay, straight, or bisexual; 59%). When stratified by race/ethnicity, good or better self-rated health was highest among persons who identified as Asian (87%) and lowest among persons who identified as multiple races (66%).

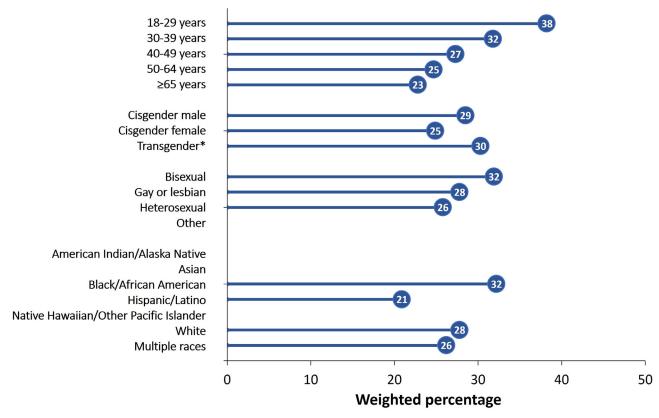
Figure 6. Good or better self-rated health among adults with diagnosed HIV, by age, gender, sexual orientation, and race/ethnicity—Medical Monitoring Project, United States, 2021



Note. "Good or better self-rated health" defined as rating one's health as good, very good, or excellent (as opposed to poor or fair) at the time of interview. Estimates were suppressed if they had a coefficient of variation ≥0.30 or were based on a denominator sample size <30. Persons were classified as cisgender if sex at birth and gender reported by the person were the same. Persons were classified as transgender if sex at birth and gender reported by the person were different, or if the person chose "transgender" in response to the question about self-identified gender. Hispanics or Latinos can be of any race. Persons are classified in only 1 race/ethnicity category.

Unmet needs for services from a mental health professional among those who needed them varied by age, current gender identity, sexual orientation, and race/ethnicity (Tables 2–5, Figure 7). When stratified by age, unmet needs for mental health services among those who needed them were highest among persons aged 18–29 years (38%) and lowest among persons aged ≥ 65 years (23%). When stratified by current gender identity, unmet needs for mental health services among those who needed them were highest among transgender persons (30%*) and lowest among cisgender females (25%). When stratified by sexual orientation, unmet needs for mental health services among those who needed them were highest among persons who identified as bisexual (32%) and lowest among persons who identified as heterosexual (26%). When stratified by race/ethnicity, unmet needs for mental health services among those who needed them were highest among persons who identified as Black/African American (32%) and lowest among persons who identified as Hispanic/Latino (21%).

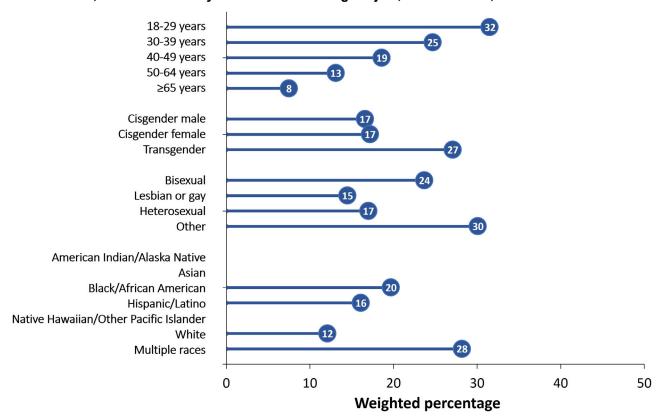
Figure 7. Unmet needs for services from a mental health professional among adults with diagnosed HIV with a need for services, by age, gender, sexual orientation, and race/ethnicity—Medical Monitoring Project, United States, 2021



Note. "Unmet need for mental health services from a mental health professional" defined as needing, but not receiving, services from a mental health professional among those who indicated needing mental health services (i.e., receiving or needing but not receiving) during the past 12 months. Estimates were suppressed if they had a coefficient of variation ≥0.30 or were based on a denominator sample size <30. Estimates with an absolute CI width >30, estimates with an absolute CI width between 5 and 30 and a relative CI width >130%, and estimates of 0% or 100% are marked with an asterisk (*) and should be interpreted with caution. Persons were classified as cisgender if sex at birth and gender reported by the person were the same. Persons were classified as transgender if sex at birth and gender reported by the person were different, or if the person chose "transgender" in response to the question about self-identified gender. Hispanics or Latinos can be of any race. Persons are classified in only 1 race/ethnicity category.

Unstable housing or homelessness varied by age, current gender identity, sexual orientation, and race/ethnicity (Tables 2–5, Figure 8). When stratified by age, unstable housing or homelessness was highest among persons aged 18–29 years (32%) and lowest among persons aged ≥ 65 years (8%). When stratified by current gender identity, unstable housing or homelessness was highest among transgender persons (27%) and lowest among cisgender males (17%). When stratified by sexual orientation, unstable housing or homelessness was highest among persons who identified as another sexual orientation (30%) and lowest among persons who identified as gay or lesbian (15%). When stratified by race/ethnicity, unstable housing or homelessness was highest among persons who identified as multiple races (28%) and lowest among persons who identified as White (12%).

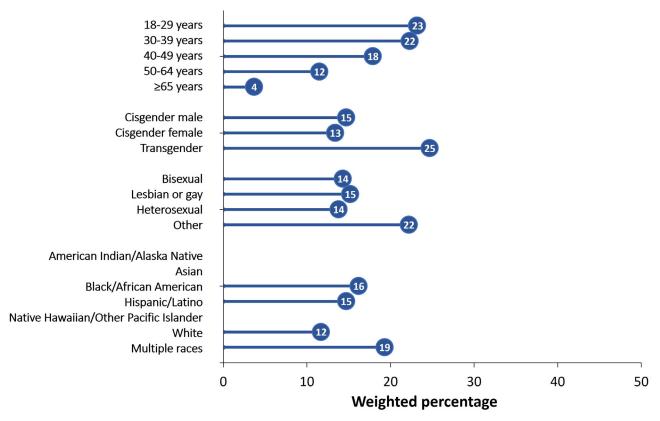
Figure 8. Unstable housing or homelessness among adults with diagnosed HIV, by age, gender, sexual orientation, and race/ethnicity—Medical Monitoring Project, United States, 2021



Note. "Unstable housing or homelessness" defined as experiencing unstable housing (i.e., moving in with others due to financial issues, moving 2 or more times, or being evicted) or homelessness (living on the street, in a shelter, in a single-room-occupancy hotel, or in a car) at any time during the past 12 months. Estimates were suppressed if they had a coefficient of variation ≥ 0.30 or were based on a denominator sample size < 30. Persons were classified as cisgender if sex at birth and gender reported by the person were the same. Persons were classified as transgender if sex at birth and gender reported by the person were different, or if the person chose "transgender" in response to the question about self-identified gender. Hispanics or Latinos can be of any race. Persons are classified in only 1 race/ethnicity category.

Unemployment varied by age, current gender identity, sexual orientation, and race/ethnicity (Tables 2–5, Figure 9). When stratified by age, unemployment was highest among persons aged 18–29 years (23%) and lowest among persons aged ≥65 years (4%). When stratified by current gender identity, unemployment was highest among transgender persons (25%) and lowest among cisgender females (13%). When stratified by sexual orientation, unemployment was highest among persons who identified as another sexual orientation (22%) and lowest among persons who identified as heterosexual (14%). When stratified by race/ethnicity, unemployment was highest among persons who identified as multiple races (19%) and lowest among persons who identified as White (12%).

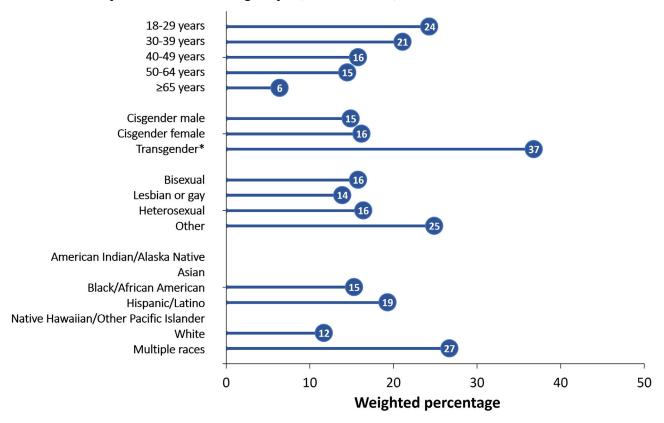
Figure 9. Unemployment among adults with diagnosed HIV, by age, gender, sexual orientation, and race/ ethnicity—Medical Monitoring Project, United States, 2021



Note. Unemployed persons included those who reported being unemployed at the time of interview, excluding persons who are unable to work, calculated among all adults with HIV. Estimates were suppressed if they had a coefficient of variation ≥0.30 or were based on a denominator sample size <30. Persons were classified as cisgender if sex at birth and gender reported by the person were the same. Persons were classified as transgender if sex at birth and gender reported by the person were different, or if the person chose "transgender" in response to the question about self-identified gender. Hispanics or Latinos can be of any race. Persons are classified in only 1 race/ethnicity category.

Hunger or food insecurity varied by age, current gender identity, sexual orientation, and race/ethnicity (Tables 2–5, Figure 10). When stratified by age, hunger or food insecurity was highest among persons aged 18–29 years (24%) and lowest among persons aged ≥65 years (6%). When stratified by current gender identity, hunger or food insecurity was highest among transgender persons (37%*) and lowest among cisgender males (15%). When stratified by sexual orientation, hunger or food insecurity was highest among persons identifying as another sexual orientation (25%) and lowest among persons who identified as gay or lesbian (14%). When stratified by race/ethnicity, hunger or food insecurity was highest among persons who identified as multiple races (27%) and lowest among persons who identified as White (12%).

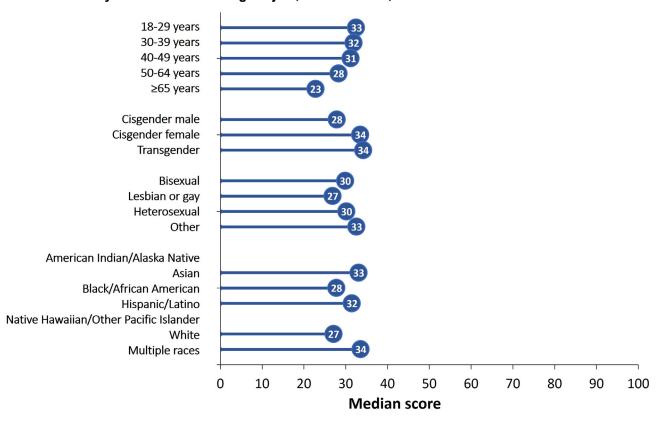
Figure 10. Hunger or food insecurity among adults with diagnosed HIV, by age, gender, sexual orientation, and race/ethnicity—Medical Monitoring Project, United States, 2021



Note. "Hunger/food insecurity" defined as going without food due to lack of money during the past 12 months. Estimates were suppressed if they had a coefficient of variation ≥0.30 or were based on a denominator sample size <30. Estimates with an absolute CI width >30, estimates with an absolute CI width between 5 and 30 and a relative CI width >130%, and estimates of 0% or 100% are marked with an asterisk (*) and should be interpreted with caution. Persons were classified as cisgender if sex at birth and gender reported by the person were the same. Persons were classified as transgender if sex at birth and gender reported by the person were different, or if the person chose "transgender" in response to the question about self-identified gender. Hispanics or Latinos can be of any race. Persons are classified in only 1 race/ethnicity category.

Median HIV stigma scores varied by age, current gender identity, sexual orientation, and race/ethnicity (Tables 2–5, Figure 11). When stratified by age, the median HIV stigma score was highest among persons aged 18–29 years (33) and lowest among persons aged ≥65 years (23). When stratified by current gender identity, the median HIV stigma score was highest among transgender persons (34) and lowest among cisgender males (28). When stratified by sexual orientation, the median HIV stigma score was highest among persons identifying as another sexual orientation (33) and lowest among persons who identified as gay or lesbian (27). When stratified by race/ethnicity, the median HIV stigma score was highest among persons who identified as multiple races (34) and lowest among persons who identified as White (27).

Figure 11. Median HIV stigma scores among adults with diagnosed HIV, by age, gender, sexual orientation, and race/ethnicity—Medical Monitoring Project, United States, 2021



Note. "Median HIV stigma score" defined as the weighted median score on a 10-item scale ranging from 0 (no stigma) to 100 (high stigma) that measures 4 dimensions of HIV stigma: personalized stigma during the past 12 months, current disclosure concerns, current negative self-image, and current perceived public attitudes about persons living with HIV, measured among persons aged ≥18 years with diagnosed HIV infection living in the United States and Puerto Rico. Estimates were suppressed if they had a coefficient of variation ≥0.30 or were based on a denominator sample size <30. Persons were classified as cisgender if sex at birth and gender reported by the person were the same. Persons were classified as transgender if sex at birth and gender reported by the person were different, or if the person chose "transgender" in response to the question about self-identified gender. Hispanics or Latinos can be of any race. Persons are classified in only 1 race/ethnicity category.

Stratifications of other SDOH by age, current gender identity, sexual orientation, and race/ethnicity are reported in Tables 2–5.

NHAS Indicators and Other SDOH by NHAS Priority Populations

Table 6 shows that patterns in NHAS indicators and SDOH differed for each NHAS priority population during the 2021 MMP cycle. For instance, good or better self-rated health was highest among persons aged 18–24 years (88%) and lowest among persons who inject drugs (58%) (Table 6, Figure 12). Unmet needs for services from a mental health professional among persons who needed services were highest among Black or African American MSM (35%) and lowest among Hispanic or Latino MSM (24%; Figure 13). Unstable housing or homelessness was highest among persons who inject drugs (46%) and lowest among MSM (16%) (Table 6, Figure 14). Unemployment was highest among persons who inject drugs (39%) and lowest among cisgender Black or African American women (14%) (Figure 15). Hunger or food insecurity was highest among transgender women (40%*) and lowest among MSM (14%) (Figure 16). Median HIV stigma score was highest among persons aged 18–24 years (42) and lowest among Black or African American MSM (25; Table 6, Figure 17).

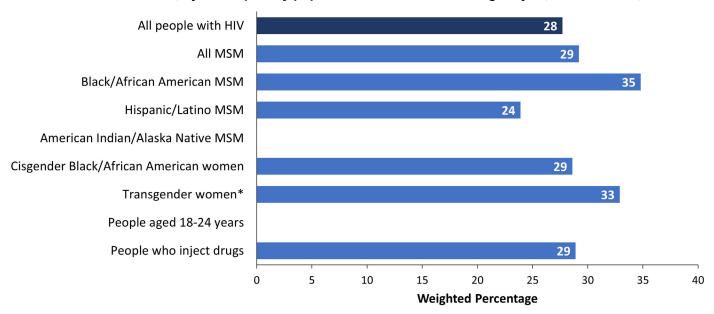
All people with HIV 69 76 All MSM Black/African American MSM Hispanic/Latino MSM 73 American Indian/Alaska Native MSM Cisgender Black/African American women 59 63 Transgender women People aged 18-24 years 88 People who inject drugs 58 0 10 20 30 40 50 60 70 80 90 100

Figure 12. Good or better self-rated health among adults with diagnosed HIV, by NHAS priority population— Medical Monitoring Project, United States, 2021

Abbreviations: NHAS, National HIV/AIDS Strategy; MSM, cisgender men who have sex with cisgender men. *Note*. "Good or better self-rated health" defined as rating one's health as good, very good, or excellent (as opposed to poor or fair) at the time of interview. Estimates were suppressed if they had a coefficient of variation \geq 0.30 or were based on a denominator sample size < 30.

Weighted Percentage

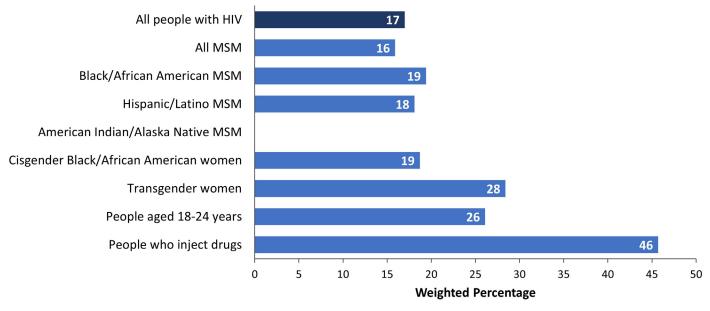
Figure 13. Unmet needs for services from a mental health professional among adults with diagnosed HIV who needed services, by NHAS priority population—Medical Monitoring Project, United States, 2021



Abbreviations: NHAS, National HIV/AIDS Strategy; MSM, cisgender men who have sex with cisgender men.

Note. "Unmet need for mental health services from a mental health professional" defined as needing, but not receiving, services from a mental health professional among those who indicated needing mental health services (i.e., receiving or needing but not receiving) during the past 12 months. Estimates were suppressed if they had a coefficient of variation \geq 0.30 or were based on a denominator sample size < 30. Estimates with an absolute CI width > 30, estimates with an absolute CI width between 5 and 30 and a relative CI width > 130%, and estimates of 0% or 100% are marked with an asterisk (*) and should be interpreted with caution.

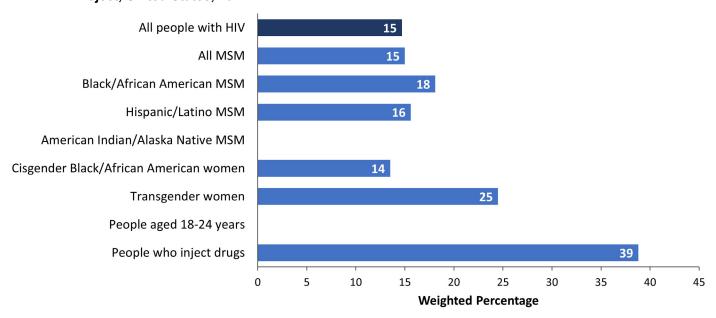
Figure 14. Unstable housing or homelessness among adults with diagnosed HIV, by NHAS priority population—Medical Monitoring Project, United States, 2021



Abbreviations: NHAS, National HIV/AIDS Strategy; MSM, cisgender men who have sex with cisgender men.

Note. "Unstable housing or homelessness" defined as experiencing unstable housing (i.e., moving in with others due to financial issues, moving 2 or more times, or being evicted) or homelessness (living on the street, in a shelter, in a single-room—occupancy hotel, or in a car) at any time during the past 12 months. Estimates were suppressed if they had a coefficient of variation \geq 0.30 or were based on a denominator sample size \leq 30.

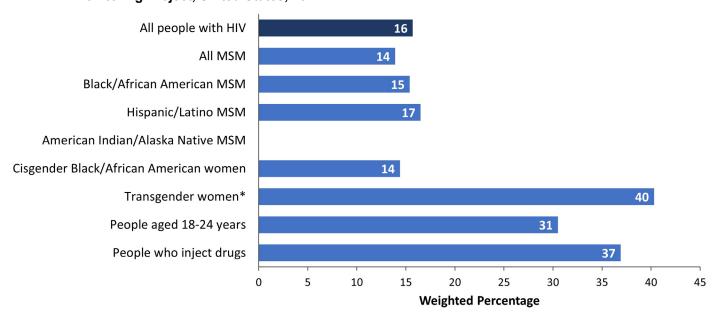
Figure 15. Unemployment among adults with diagnosed HIV, by NHAS priority population—Medical Monitoring Project, United States, 2021



Abbreviations: NHAS, National HIV/AIDS Strategy; MSM, cisgender men who have sex with cisgender men.

Note. Unemployed persons included those who reported being unemployed at the time of interview, excluding persons who are unable to work, calculated among all adults with HIV. Estimates were suppressed if they had a coefficient of variation ≥ 0.30 or were based on a denominator sample size < 30.

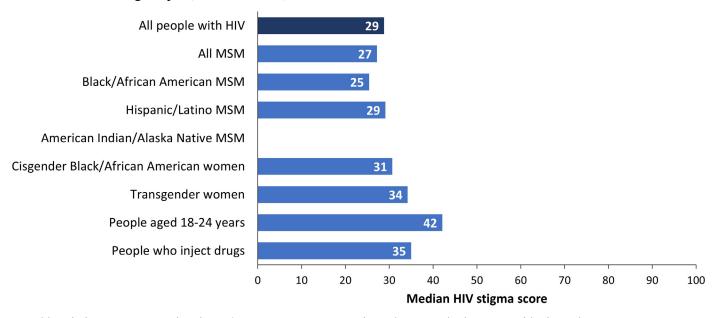
Figure 16. Hunger or food insecurity among adults with diagnosed HIV, by NHAS priority population—Medical Monitoring Project, United States, 2021



Abbreviations: NHAS, National HIV/AIDS Strategy; MSM, cisgender men who have sex with cisgender men.

Note. "Hunger/food insecurity" defined as going without food due to lack of money during the past 12 months. Estimates were suppressed if they had a coefficient of variation ≥ 0.30 or were based on a denominator sample size < 30. Estimates with an absolute CI width > 30, estimates with an absolute CI width between 5 and 30 and a relative CI width > 130%, and estimates of 0% or 100% are marked with an asterisk (*) and should be interpreted with caution.

Figure 17. Median HIV stigma scores among adults with diagnosed HIV, by NHAS priority population—Medical Monitoring Project, United States, 2021



Abbreviations: NHAS, National HIV/AIDS Strategy; MSM, cisgender men who have sex with cisgender men.

Note. "Median HIV stigma score" defined as the weighted median score on a 10-item scale ranging from 0 (no stigma) to 100 (high stigma) that measures 4 dimensions of HIV stigma: personalized stigma during the past 12 months, current disclosure concerns, current negative self-image, and current perceived public attitudes about persons living with HIV, measured among persons aged ≥18 years with diagnosed HIV infection living in the United States and Puerto Rico. Estimates were suppressed if

Estimates for other SDOH for each NHAS priority population are presented in Table 6.

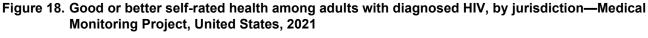
they had a coefficient of variation \geq 0.30 or were based on a denominator sample size \leq 30.

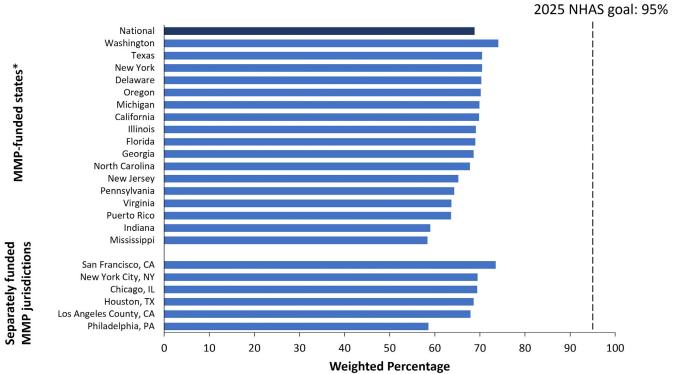
NHAS Indicators by Individual SDOH

During the 2021 MMP cycle, NHAS indicators related to QoL and HIV stigma varied by other SDOH related to economic stability, education, health-related factors, neighborhood and built environment, and social and community context (Table 7).

NHAS Indicators by MMP Jurisdictions

NHAS indicators related to QoL and HIV stigma varied by jurisdiction. During the 2021 MMP cycle, the percentage of persons with good or better self-rated health ranged from 58% in Mississippi to 74% in Washington (Table 8; Figure 18). The percentage of persons with unmet needs for services from a mental health professional during the past 12 months among those who needed them ranged from 17% in San Francisco to 44%* in Michigan (Table 8; Figure 19). The percentage of persons who experienced unstable housing or homelessness during the past 12 months ranged from 11% in Illinois to 26% in Houston (Table 8; Figure 20). Illinois and Oregon were the only jurisdictions to have met the 2025 NHAS goal of 11% for unstable housing or homelessness. Unemployment ranged from 7% in Puerto Rico to 24% in New York City; only Puerto Rico (7%) and Florida (8%) met the 2025 NHAS goal of 8% for unemployment (Table 8; Figure 21). Hunger or food insecurity ranged from 9% in Washington to 25% in Philadelphia; only Washington met the 2025 NHAS goal of 11% for hunger or food insecurity (Table 8; Figure 22). Median HIV stigma scores ranged from 23 in Oregon to 37 in Michigan (Table 8; Figure 23). During the 2021 cycle, no jurisdiction met the 2025 NHAS goals for good or better self-rated health, unmet needs for services from a mental health professional among those who needed it, or HIV stigma.



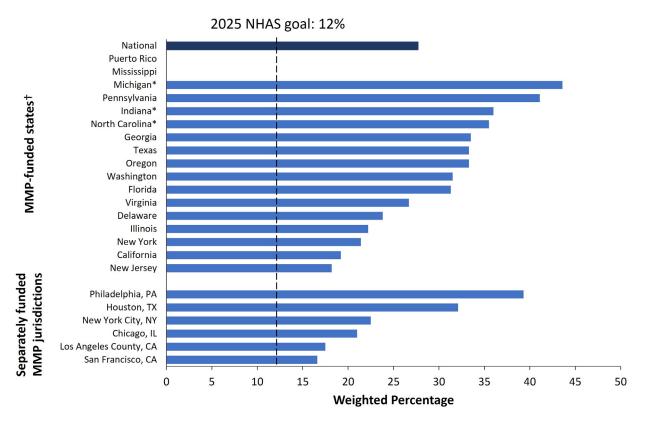


Abbreviations: NHAS, National HIV/AIDS Strategy; MMP, Medical Monitoring Project.

Note. "Good or better self-rated health" defined as rating one's health as good, very good, or excellent (as opposed to poor or fair) at the time of interview.

^{*} Includes separately funded jurisdictions within each state.

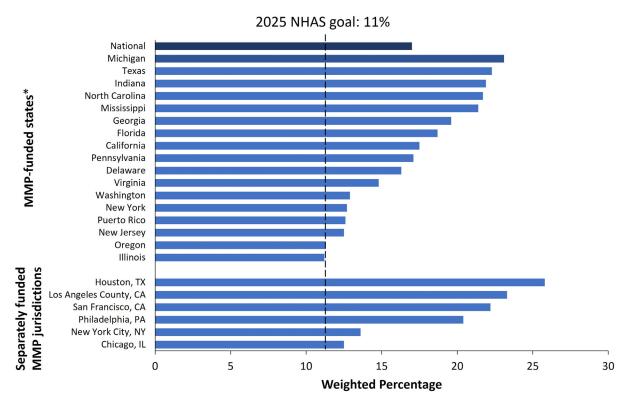
Figure 19. Unmet needs for services from a mental health professional among adults with diagnosed HIV who needed services, by jurisdiction—Medical Monitoring Project, United States, 2021



Note. "Unmet need for mental health services from a mental health professional" defined as needing, but not receiving, services from a mental health professional among those who indicated needing mental health services (i.e., receiving or needing but not receiving) during the past 12 months. Estimates were suppressed if they had a coefficient of variation ≥0.30 or were based on a denominator sample size <30. Estimates with an absolute CI width >30, estimates with an absolute CI width between 5 and 30 and a relative CI width >130%, and estimates of 0% or 100% are marked with an asterisk (*) and should be interpreted with caution.

† Includes separately funded jurisdictions within each state.

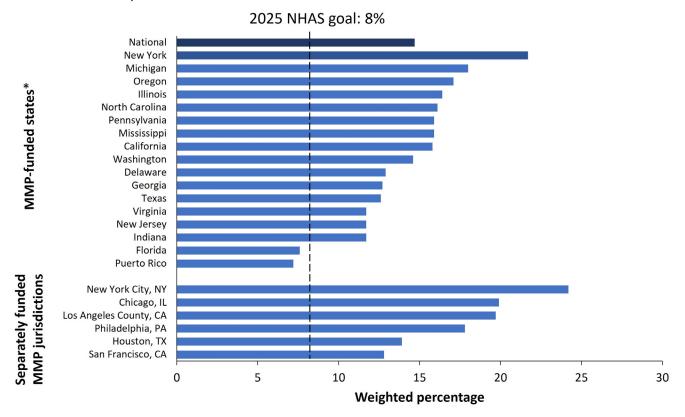
Figure 20. Unstable housing or homelessness among adults with diagnosed HIV, by jurisdiction—Medical Monitoring Project, United States, 2021



Note. "Unstable housing or homelessness" defined as experiencing unstable housing (i.e., moving in with others due to financial issues, moving 2 or more times, or being evicted) or homelessness (living on the street, in a shelter, in a single-room–occupancy hotel, or in a car) at any time during the past 12 months.

* Includes separately funded jurisdictions within each state.

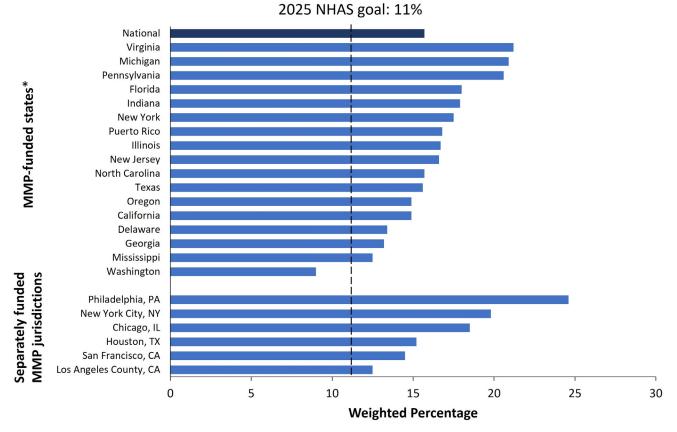
Figure 21. Unemployment among adults with diagnosed HIV, by jurisdiction—Medical Monitoring Project, United States, 2021



Note. Unemployed persons included those who reported being unemployed at the time of interview, excluding persons who are unable to work, calculated among all adults with HIV.

* Includes separately funded jurisdictions within each state.

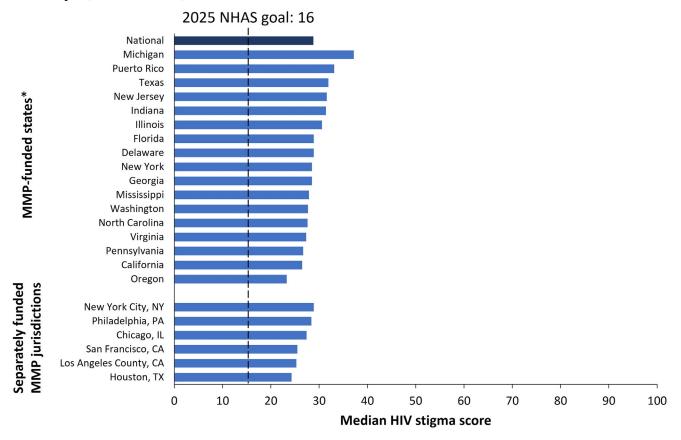
Figure 22. Hunger or food insecurity among adults with diagnosed HIV, by jurisdiction—Medical Monitoring Project, United States, 2021



Note. "Hunger/food insecurity" defined as going without food due to lack of money during the past 12 months.

^{*} Includes separately funded jurisdictions within each state.

Figure 23. Median HIV stigma score among adults with diagnosed HIV, by jurisdiction—Medical Monitoring Project, United States, 2021

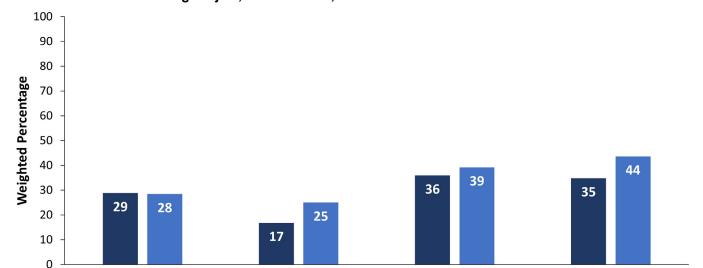


Note. "Median HIV stigma score" defined as the weighted median score on a 10-item scale ranging from 0 (no stigma) to 100 (high stigma) that measures 4 dimensions of HIV stigma: personalized stigma during the past 12 months, current disclosure concerns, current negative self-image, and current perceived public attitudes about persons living with HIV, measured among persons aged \geq 18 years with diagnosed HIV infection living in the United States and Puerto Rico.

* Includes separately funded jurisdictions within each state.

Prevalence of Adverse HIV Outcomes by NHAS QoL Indicators

The prevalence of not being retained in care was similar among those who had good or better self-rated health (29%) and those who had poor or fair self-rated health (28%) (Table 9; Figure 24). The prevalence of certain adverse HIV outcomes was lower among persons with good or better self-rated health than those with poor or fair self-rated health, including missing ≥ 1 HIV care appointments during the past 12 months (17% vs. 25%), missing ≥ 1 ART doses during the past 30 days (36% vs. 39%), and not having sustained viral suppression during the past 12 months (35% vs. 44%).



Missed ≥1 ART doses, past 30 Did not have sustained viral

suppression, past 12 months‡

days†

Poor or fair self-rated health

Figure 24. Prevalence of adverse clinical outcomes among adults with diagnosed HIV, by self-rated health— Medical Monitoring Project, United States, 2021

Note. Self-rated health evaluated at the time of interview.

Not retained in care, past 12

months*

Missed ≥1 HIV care

appointments, past 12

months

■ Good or better self-rated health

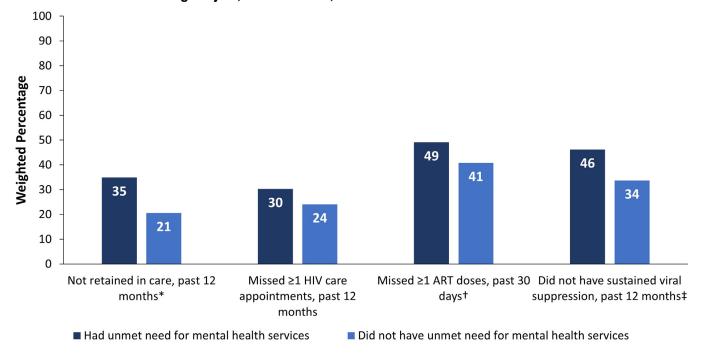
^{*} Defined as having <2 elements of outpatient HIV care at least 90 days apart in the past 12 months.

[†] Based on self-report.

[‡] Defined as having ≥1 viral load measurements documented detectable or ≥200 copies/mL during the past 12 months.

The prevalence of certain adverse HIV outcomes was higher among persons with unmet needs for services from a mental health professional among those who needed it than those who did not, including not being retained in care during the past 12 months (35% vs. 21%), missing \geq 1 HIV care appointments during the past 12 months (30% vs. 24%), missing \geq 1 ART doses during the past 30 days (49% vs. 41%), and not having sustained viral suppression during the past 12 months (46% vs. 34%) (Table 9; Figure 25).

Figure 25. Prevalence of adverse clinical outcomes among adults with diagnosed HIV, by whether or not persons experienced unmet needs for mental health services among those who needed them—Medical Monitoring Project, United States, 2021

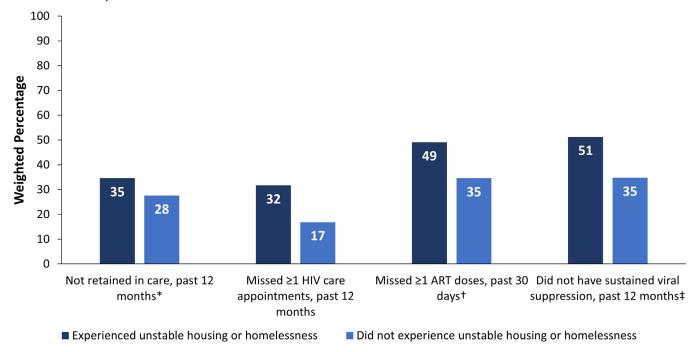


Note. "Unmet need for mental health services from a mental health professional" defined as needing, but not receiving, services from a mental health professional among those who indicated needing mental health services (i.e., receiving or needing but not receiving) during the past 12 months.

- * Defined as having <2 elements of outpatient HIV care at least 90 days apart in the past 12 months.
- † Based on self-report.
- ‡ Defined as having ≥ 1 viral load measurements documented detectable or ≥ 200 copies/mL during the past 12 months.

The prevalence of certain adverse HIV outcomes was higher among persons who experienced unstable housing or homelessness during the past 12 months than those who did not, including not being retained in HIV care during the past 12 months (35% vs. 28%), missing ≥ 1 HIV care appointments during the past 12 months (32% vs. 17%), missing ≥ 1 ART doses during the past 30 days (49% vs. 35%), and not having sustained viral suppression during the past 12 months (51% vs. 35%) (Table 9; Figure 26).

Figure 26. Prevalence of adverse clinical outcomes among adults with diagnosed HIV, by whether or not persons experienced unstable housing or homelessness—Medical Monitoring Project, United States, 2021



Note. "Unstable housing or homelessness" defined as experiencing unstable housing (i.e., moving in with others due to financial issues, moving 2 or more times, or being evicted) or homelessness (living on the street, in a shelter, in a single-room—occupancy hotel, or in a car) at any time during the past 12 months.

- * Defined as having <2 elements of outpatient HIV care at least 90 days apart in the past 12 months.
- † Based on self-report.
- ‡ Defined as having ≥1 viral load measurements documented detectable or ≥200 copies/mL during the past 12 months.

The prevalence of certain adverse HIV outcomes was also higher among persons who were unemployed than those who were not, including not being retained in care during the past 12 months (32% vs. 28%), missing \geq 1 HIV care appointments during the past 12 months (32% vs. 17%), missing \geq 1 ART doses during the past 30 days (52% vs. 35%), and not having sustained viral suppression during the past 12 months (46% vs. 36%) (Table 9; Figure 27).

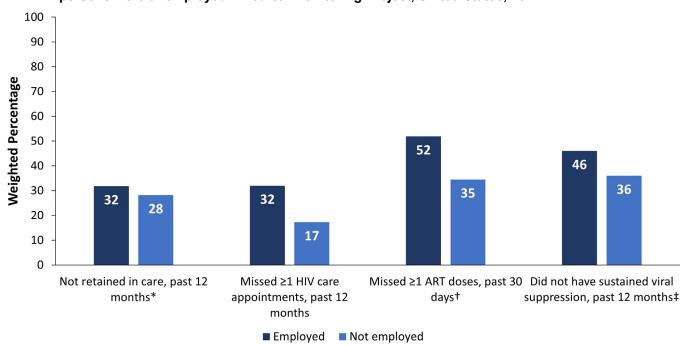


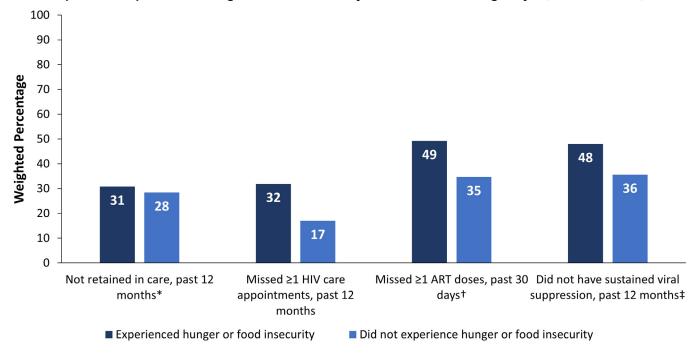
Figure 27. Prevalence of adverse clinical outcomes among adults with diagnosed HIV, by whether or not persons were unemployed—Medical Monitoring Project, United States, 2021

Note. Unemployed persons included those who reported being unemployed at the time of interview, excluding persons who are unable to work, calculated among all adults with HIV.

- * Defined as having <2 elements of outpatient HIV care at least 90 days apart in the past 12 months.
- † Based on self-report.
- ‡ Defined as having ≥ 1 viral load measurements documented detectable or ≥ 200 copies/mL during the past 12 months.

The prevalence of certain adverse HIV outcomes was higher among persons who experienced hunger or food insecurity during the past 12 months than those who did not, including not being retained in care during the past 12 months (31% vs. 28%), missing \geq 1 HIV care appointments during the past 12 months (32% vs. 17%), missing \geq 1 ART doses during the past 30 days (49% vs. 35%), and not having sustained viral suppression during the past 12 months (48% vs. 36%) (Table 9; Figure 28).

Figure 28. Prevalence of adverse clinical outcomes among adults with diagnosed HIV, by whether or not persons experienced hunger or food insecurity—Medical Monitoring Project, United States, 2021



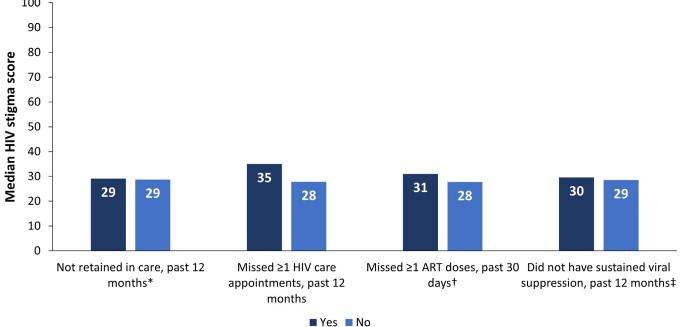
Note. "Hunger/food insecurity" defined as going without food due to lack of money during the past 12 months.

- * Defined as having <2 elements of outpatient HIV care at least 90 days apart in the past 12 months.
- † Based on self-report.
- ‡ Defined as having ≥ 1 viral load measurements documented detectable or ≥ 200 copies/mL during the past 12 months.

HIV Stigma by HIV Outcomes

Median HIV stigma scores were higher among those who missed ≥ 1 HIV care appointments during the past 12 months versus those who did not (35 vs. 28) or missed ≥ 1 ART doses during the past 30 days versus those who did not (31 vs. 28; Figure 29). Median scores were similar by retention in care (not retained in care: 29, retained in care: 29) and viral suppression status (did not have sustained viral suppression: 30, had sustained viral suppression: 29).

Figure 29. Median HIV stigma scores among adults with diagnosed HIV, by selected HIV outcomes—Medical Monitoring Project, United States, 2021



Note. "Median HIV stigma score" defined as the weighted median score on a 10-item scale ranging from 0 (no stigma) to 100 (high stigma) that measures 4 dimensions of HIV stigma: personalized stigma during the past 12 months, current disclosure concerns, current negative self-image, and current perceived public attitudes about persons living with HIV, measured among persons aged \geq 18 years with diagnosed HIV infection living in the United States and Puerto Rico.

- * Defined as having <2 elements of outpatient HIV care at least 90 days apart in the past 12 months.
- † Based on self-report.
- ‡ Defined as having ≥ 1 viral load measurements documented detectable or ≥ 200 copies/mL during the past 12 months.

No. 36

Table 1. Individual-level social determinants of health and quality of life among adults with diagnosed HIV, by cycle year—Medical Monitoring Project, United States, 2015–2021

		2015			2016	<u> </u>		2017	,	, , ,	2018			2019)		2020)		2021	
	n c	ol %	95% CI	n	col %	95% CI	n	col %	95% CI	n	col %	95% CI	n	col %	95% CI	n	col %	95% CI	n	col %	95% CI
Total 3,	654			4,038			4,222			4,050			4,100			3,710			3,995		
National HIV/AIDS Strategy indicators relate	d to s	ocial	determina	nts of h	ealth																
Quality of life																					
Physical health																					
Self-reported health status ^a Good, very good, excellent	_	_	_	_	_	_	_	_	_	2,825	71.5	(69.4–73.6)	2,848	70.6	(68.7–72.5)	2,621	71.5	(70.0–73.1)	2,697	68.8	(67.4–70.3)
Poor, fair	_	_	_	_	_	_	_	_	_	1,196		(26.4–30.6)		29.4	(27.5–31.3)	,	28.5	(26.9–30.0)	1,275		(29.7–32.6)
Mental or emotional health										,		(,		(/	,-		(/	, -		(
Unmet needs for services from a mental h																					
			(20.9–27.1)			(20.7–26.9)			(21.0–27.5)			(17.1–22.5)	336	20.8	(17.4–24.3)	275	21.0	(18.2–23.8)	389	27.7	(22.9–32.5)
·	206	70.0	(72.9–79.1)	1,274	10.2	(13.1–19.3)	1,311	75.8	(72.5–79.0)	1,340	80.2	(77.5–82.9)	1,352	19.2	(75.7–82.6)	1,124	79.0	(76.2–81.8)	1,120	72.3	(67.5–77.1)
Structural or subsistence factors Unstable housing or homelessness, past	12 mo	nthsc																			
Yes	_	_	_	_	_	_	_	_	_	870	21.0	(19.5-22.6)	791	19.8	(18.0-21.6)	630	17.2	(15.2-19.2)	651	17.0	(15.3-18.6)
No	_	_	_	_	_	_		_	_	3,157	79.0	(77.4–80.5)	3,298	80.2	(78.4–82.0)	3,061	82.8	(80.8–84.8)	3,330	83.0	(81.4–84.7)
Unemployment ^d	E7/	16 0	(1E 0 10 E)	640	15 7	(110 170)	624	110	(12 E 16 A)	EEO	12.0	(10 C 1E 1)	EEG	12.7	(10 0 1E 0)	644	10 1	(4C E 40 7)	EEO	117	(12.4.16.0)
		16.8 83.2	(15.2–18.5) (81.5–84.8)	640 3,386	15.7 84.3	(14.2–17.3) (82.7–85.8)	634 3,566	14.9 85.1	(13.5–16.4) (83.6–86.5)	550 3,483	13.9 86.1	(12.6–15.1) (84.9–87.4)	556 3,522	13.7 86.3	(12.2–15.3) (84.7–87.8)	644 3,039	18.1 81.9	(16.5–19.7) (80.3–83.5)	558 3,417	14.7 85.3	(13.4–16.0) (84.0–86.6)
Hunger or food insecurity, past 12 months		00.2	(01.0 01.0)	0,000	01.0	(02.1 00.0)	0,000	00.1	(00.0 00.0)	0,100	00.1	(01.0 01.1)	0,022	00.0	(01.1 01.0)	0,000	01.0	(00.0 00.0)	0,117	00.0	(01.0 00.0)
Yes	771		(19.6-23.3)	865	21.2	(19.6-22.9)			(19.2-22.9)	802	19.5	(18.2-20.8)	781	19.9	(18.0-21.8)	592	16.4	(15.2-17.6)	607	15.7	(14.2-17.3)
•	862	78.5	(76.7–80.4)	3,164	78.8	(77.1–80.4)	3,340	78.9	(77.1–80.8)	3,234	80.5	(79.2–81.8)	3,302	80.1	(78.2–82.0)	3,101	83.6	(82.4–84.8)	3,369	84.3	(82.7–85.8)
HIV stigma, past 12 months (n, median score, 95% CI) ^f	_	_	_	_	_	_	_	_	_	3,824	31.2	(30.3–32.1)	3,904	30.7	(29.2–32.1)	3,518	28.4	(27.7–29.2)	3,712	28.8	(27.6–30.1)
Other factors important for health, including	thos	e that	affect qua	lity of li	fe																
Economic stability		_																			
Household income with respect to poverty	•		(40.4.50.4)	4 000	10.1	(07.7.40.5)	4.004	44.0	(07.0.40.0)	4.054	40.0	(40.4.45.0)	4 500	44.0	(00.4.44.0)	4.400	05.0	(04.0.00.0)	4.070	20.0	(00.0.40.0)
	608 294	46.4 8.7	(42.4–50.4) (7.5–9.9)	1,633 314	42.1 8.3	(37.7–46.5) (7.5–9.1)	1,661	41.6 8.7	(37.0–46.3)	1,651 455	42.9 13.0	(40.1–45.6) (11.7–14.3)	1,593 422	41.6 11.4	(38.4–44.9) (10.3–12.5)	1,189 443	35.6 13.2	(31.9–39.2) (11.9–14.6)	1,373 383	38.0 10.9	(33.3–42.8) (9.2–12.7)
		33.4	(30.5–36.3)	1,291	35.5	(33.1–37.9)		35.7	(32.1–39.3)	1,186	33.2	(31.1–35.3)	1,235	34.3	(32.0–36.7)	1,218	35.8	(33.5–38.0)	1,279	36.5	(33.9–39.1)
		11.5	(9.6–13.5)	508	14.1	(11.2–16.9)		14.0	(11.4–16.5)	414	10.9	(8.8–13.0)	488	12.6	(11.1–14.2)	526	15.4	(13.4–17.4)	543	14.5	(12.0–17.0)
Education																					
Educational attainment																					
3 1		19.9	(17.4–22.3)	724	17.2	(14.8–19.6)		16.6	(15.1–18.1)	715	16.9	(14.9–18.9)	688	16.3	(15.0–17.6)	550	14.6	(12.9–16.3)	583	14.9	(12.4–17.4)
		24.2 55.9	(22.3–26.0) (52.7–59.2)	1,029 2,273	25.6 57.2	(23.7–27.4) (53.9–60.6)			(25.2–29.5) (53.3–58.8)	1,088 2,237	27.1 56.1	(25.2–29.0) (53.0–59.2)	1,103 2,296	26.7 57.0	(25.0–28.5) (54.7–59.2)	899 2,240	25.0 60.4	(22.8–27.3) (57.7–63.1)	1,039 2,354	25.9 59.2	(24.1–27.7) (56.0–62.5)
Health-related factors	990	55.9	(32.1-33.2)	2,213	31.2	(55.9-00.0)	2,390	30.1	(55.5–56.6)	2,231	30.1	(55.0–55.2)	2,290	37.0	(34.7-33.2)	2,240	00.4	(31.1-03.1)	2,334	33.2	(30.0-02.3)
Health insurance or coverage (including Rya	an Wh	ita UI	V/AIDS D=	naram []	DWH VI	Ol accieton	nen lan	t 12 m	onthe ^h												
			(31.4–37.7)	1,406	36.2	(33.3–39.1)		35.4	(32.0–38.9)	1,383	35.0	(31.8–38.3)	1,388	33.5	(30.7–36.2)	1,445	39.6	(37.2–42.0)	1,609	41.5	(38.7–44.3)
Public only, excluding RWHAP only 2,		_	(50.4–59.6)	2,247		(51.1–57.2)		53.8	(50.3–57.4)	2,248		(49.7–58.8)	2,259	54.8	(50.8–58.8)	1,912	50.9	(47.5–54.3)	1,990		(44.3–53.6)
		10.4	(6.8–14.1)	335	9.6	(7.2–12.1)	381	10.7	(7.5–14.0)	373	10.8	(7.6–13.9)	396	11.7	(8.9–14.5)	295	9.5	(7.7–11.3)	314	9.6	(6.5–12.7)
Received RWHAP assistance, past 12 month	ns	45.4	(10.0.17.1)	4 000		(40.4.40.7)	4.000	45.0	(40.0 40.0)	4 005	45.5	(44.4.47.0)	4.050	40.4	(10.1.10.0)	4 700	47.0	(44.0.40.0)	4 007	4-7-4	(44.0.50.0)
						(42.1–46.7)	1,988	45.9 54.1	(42.9–49.0) (51.0 57.1)	1,925	45.7 54.3	(44.1 - 47.2)	1,950	46.1 53.0	(43.4–48.8)	1,796	47.2 52.8	(44.6–49.8) (50.2.55.4)	1,897	47.1 52.0	(44.2–50.0) (50.0, 55.8)
Confidence in completing health forms	004	J 4 .9	(52.6–57.2)	ا 50,0	55.0	(33.3–37.3)	۷,110	J 4 . I	(31.0–31.1)	2,007	54.5	(32.0–33.9)	۷,000	55.9	(51.2–56.6)	1,791	52.0	(50.2-55.4)	1,320	52.9	(30.0–03.6)
	802	23.0	(21.0–25.0)	907	22.6	(20.8–24.5)	957	23.0	(21,4–24.7)	1,113	27.2	(25.5–28.9)	1.078	26.5	(24.9–28.2)	998	27.1	(24.9–29.3)	952	24.1	(22.2–25.9)
Extremely, quite a bit 2,8	826	77.0	(75.0–79.0)	3,104	77.4	(75.5–79.2)	3,237	77.0	(75.3–78.6)	2,916	72.8	(71.1–74.5)	2,999	73.5	(71.8–75.1)	2,689	72.9	(70.7–75.1)	3,017	75.9	
Has a disability ⁱ			. ,			. ,			,			,			,			,			. ,
Yes 1,0	633	45.3	(42.4–48.3)	1,879	46.5	(43.8–49.2)	1,886	44.5	(42.7–46.4)	1,815	43.9	(41.5–46.3)	1,797	42.6	(40.7–44.4)	1,507	39.7	(36.8–42.6)	1,674		(38.4–42.9)
			(51.7–57.6)	2,146	53.5	(50.8–56.2)	2,316	55.5	(53.6–57.3)	2,222	56.1	(53.7–58.5)	2,288	5/.4	(55.6–59.3)	2,1/8	60.3	(57.4–63.2)	2,303	59.4	(57.1–61.6)
Any unmet HIV ancillary service need, past Yes	12 mo	ntns	_			_			_	1,880	<i>1</i> 7 2	(AA 750 O)	1 757	15 0	(41.0–49.1)	1 //67	/1 /	(30 6-13 2)	1 215	<i>1</i> 7 5	(/// Q_50 1\
No	_	_	_	_	_	_	_	_	_		52.7	(50.0–55.3)	2.316	55.0	(50.9–59.0)	2.208	58.6	(56.8–60.4)	2.138	52.5	(49.9–55.1)
										,		()	, , , , ,		()	,		, ,	,		, ,

Table 1. Individual-level social determinants of health and quality of life among adults with diagnosed HIV, by cycle year—Medical Monitoring Project, United States, 2015–2021 (cont)

	2015			2016			2017			2018			2019			2020			2021		
	n	col %	95% CI	n	col %	95% CI	n	col %	95% CI	n	col %	95% CI	n	col %	95% CI	n	col %	95% CI	n	col %	95% CI
Neighborhood and built environment																					
Any met or unmet need for transportation assistance, past 12 months ^k																					
Yes		32.1 [']	(29.9–34.3)	1,301	30.4	(28.4-32.3)	1,352	31.4	(29.4 - 33.4)	1,408	32.9	(31.0-34.9)	1,335	32.1	(30.2-34.1)	999	26.1	(24.5-27.7)	1,108	27.1	(25.6-28.6)
No	2,406	67.9	(65.7–70.1)	2,705	69.6	(67.7–71.6)	2,838	68.6	(66.6–70.6)	2,604	67.1	(65.1–69.0)	2,730	67.9	(65.9–69.8)	2,675	73.9	(72.3–75.5)	2,838	72.9	(71.4–74.4)
Social and community context																					
HIV health care discrimination among persons who received care, past 12 months																					
Yes	_	_	_	_	_	_	_	_	_	967	24.6	(21.9-27.2)	843	21.7	(18.9-24.4)	724	20.4	(17.3-23.4)	815	21.8	(19.3-24.4)
No	_	_	_	_	_	_	_	_	_	2,883							79.6	(76.6–82.7)	2,858	78.2	(75.6–80.7)
Speaks English less than well												,						. ,			,
Yes	_	_	_	_	_	_	283	5.9	(2.6-9.2)	_	_	_	292	7.1	(2.9-11.3)	284	7.1	(3.4-10.7)	327	7.4	(3.9-10.9)
No	3,379	93.0	(88.2-97.8)	3,775	93.6	(88.8-98.4)	3,924	94.1	(90.8–97.4)	3,770	93.3	(89.3-97.4)	3,794	92.9	(88.7–97.1)	3,411	92.9	(89.3–96.6)	3,657	92.6	(89.1–96.1)
Experiences of physical violence by an i	intimate	partne	r or forced	sex, lif	etime ^m																
Yes	1,217	33.2	(30.5-36.0)	1,330	33.0	(30.5-35.6)	1,347	32.0	(29.3-34.7)	1,337	34.0	(30.6-37.4)	1,291	31.4	(29.1 - 33.8)	1,138	31.9	(28.2-35.5)	1,292	34.5	(32.2-36.8)
No	2,390	66.8	(64.0–69.5)	2,654	67.0	(64.4–69.5)	2,810	68.0	(65.3–70.7)	2,637	66.0	(62.6–69.4)	2,736	68.6	(66.2–70.9)	2,492	68.1	(64.5–71.8)	2,586	65.5	(63.2–67.8)
Experiences of physical violence by an i	intimate	partne	r or forced	sex, pa	ast 12 n	nonths ^m															
Yes	192	5.7	(4.8-6.6)	200	4.9	(4.2-5.5)	185	4.8	(4.1-5.5)	187	4.7	(3.8-5.6)	208	5.1	(4.4-5.9)	161	4.8	(4.0-5.6)	182	5.7	(4.6-6.7)
No	3,407	94.3	(93.4–95.2)	3,767	95.1	(94.5–95.8)	3,961	95.2	(94.5–95.9)	3,775	95.3	(94.4–96.2)	3,806	94.9	(94.1–95.6)	3,456	95.2	(94.4–96.0)	3,673	94.3	(93.3–95.4)
Incarcerated >24 hours, past 12 months																					
Yes	188	5.1	(3.9-6.2)	198	5.2	(4.3-6.2)	213	5.4	(4.5-6.4)	181	4.7	(3.7-5.8)	148	3.9	(3.0-4.8)	107	3.5	(2.4-4.6)	93	2.8	(2.2-3.5)
No	3,447	94.9	(93.8–96.1)	3,829	94.8	(93.8–95.7)	3,993	94.6	(93.6–95.5)	3,853	95.3	(94.2–96.3)	3,938	96.1	(95.2–97.0)	3,588	96.5	(95.4–97.6)	3,886	97.2	(96.5–97.8)
Abbreviations: n. number: col. column: Cl. confid	lanca inte	rval· FD	foderal nov	arty lave	I. D/V/H/	AD Byan Whit	ω HIV//ΔI	DS Pro	aram: HUC I	Janartma	nt of Ha	alth and Hum	an Sarv	icae Ifaa	tnotes only).	\/A \/oto	rane Adr	ninietration [f	ontnotes	onlyl	

Abbreviations: n, number; col, column; CI, confidence interval; FPL, federal poverty level; RWHAP, Ryan White HIV/AIDS Program; HHS, Department of Health and Human Services [footnotes only]; VA, Veterans Administration [footnotes only].

Note. Unweighted numbers and weighted percentages are presented. Cls incorporate weighted percentages. Excluded are estimates with a coefficient of variation ≥0.30 and those based on a denominator sample size <30.

a "Good or better self-rated health" defined as rating one's health as good, very good, or excellent (as opposed to poor or fair) at the time of interview.

b "Unmet need for mental health services from a mental health professional" defined as needing, but not receiving, services from a mental health professional among those who indicated needing mental health services (i.e., receiving or needing but not receiving) during the past 12 months.

^C "Unstable housing or homelessness" defined as experiencing unstable housing (i.e., moving in with others due to financial issues, moving 2 or more times, or being evicted) or homelessness (living on the street, in a shelter, in a single-room–occupancy hotel, or in a car) at any time during the past 12 months.

d Unemployed persons included those who reported being unemployed at the time of interview, excluding persons who are unable to work, calculated among all adults with HIV.

^e "Hunger/food insecurity" defined as going without food due to lack of money during the past 12 months.

f "Median HIV stigma score" defined as the weighted median score on a 10-item scale ranging from 0 (no stigma) to 100 (high stigma) that measures 4 dimensions of HIV stigma: personalized stigma during the past 12 months, current disclosure concerns, current negative self-image, and current perceived public attitudes about persons living with HIV, measured among persons aged ≥18 years with diagnosed HIV infection living in the United States and Puerto Rico. The HIV stigma scale used for this indicator is available at https://www.ncbi.nlm.nih.gov/pmc/articles/PMC2001277/ [Wright K, Naar-King S, Lam P, Templin T, Frey M. Stigma scale revised: reliability and validity of a brief measure of stigma for HIV+ youth. *J Adolesc Health* 2007;40(1):96–98].

⁹ Poverty guidelines defined by HHS. For persons interviewed in a particular calendar year, the HHS poverty guidelines from the previous year were used. For instance, the 2020 guidelines were used for persons interviewed in 2021. More information regarding HHS poverty guidelines can be found at https://aspe.hhs.gov/frequently-asked-questions-related-poverty-guidelines-and-poverty.

h Persons could select more than 1 response for health insurance or coverage. Mutually exclusive categories are presented based on responses. Private coverage defined as receiving health insurance through a person's employer or purchased through the Health Insurance Marketplace or directly from a health insurance company. Public insurance includes Medicaid, Medicare, VA, RWHAP, or other city, county, or state-funded insurance. Uninsured or RWHAP only category includes those who did not report having any insurance, or received RWHAP assistance only, without coverage through any other insurance categories.

Self-reported, and includes physical, mental, and emotional disabilities.

Represents those who needed, but did not receive, ≥1 HIV ancillary services, among all persons.

k Represents those who needed transportation assistance, regardless of whether that assistance was received, among all persons.

HIV health care discrimination among those who received HIV care during the previous 12 months was assessed based on seven forms of discrimination, including: being treated with less courtesy than other persons, being treated with less respect than other persons, receiving poorer service than others, having a doctor or nurse act as if he or she believed they were not smart, having a doctor or nurse act as if he or she were afraid of them, having a doctor or nurse act as if he or she were better than them, and having a doctor or nurse not listen to what they were saying. Respondents were asked if they experienced these forms of discrimination never, rarely, some of the time, most of the time, most of the time, or all the time. Respondents who reported experiencing at least one form of health care discrimination rarely, some of the time, most of the time, or all of time were considered to have experienced discrimination in an HIV health care setting.

m Physical violence by an intimate partner defined as ever being slapped, punched, shoved, kicked, choked, or otherwise physically hurt by a romantic or sexual partner. Forced sex defined as ever being threatened with harm or physically forced to have unwanted vaginal, anal, or oral sex.

Table 2a. Individual-level social determinants of health and quality of life among adults with diagnosed HIV, by age—Medical Monitoring Project, United States, 2021

	18-29 years			3	30–39 y	ears	4	l0–49 y	ears	5	50–64 y	ears		ars	
	n	col %	95% CI	n	col %	95% CI	n	col %	95% CI	n	col %	95% CI	n	col %	95% CI
Total (row %)	261	7.4	(5.9-8.9)	641	18.2	(16.5–20.0)	756	19.8	(17.8–21.7)	1,778	42.5	(39.8–45.2)	559	12.1	(10.9–13.3)
National HIV/AIDS Strategy indicate	rs relat	ed to so	ocial determ	inants	of hea	lth									
Quality of life															
Physical health															
Self-reported health status ^a															
Good, very good, excellent	215	80.8	(75.7–85.9)	482	76.3	(72.2–80.4)	532	73.1	(69.4–76.8)		62.8	(60.5–65.0)	368	64.5	(59.2–69.9)
Poor, fair	45	19.2	(14.1–24.3)	155	23.7	(19.6–27.8)	216	26.9	(23.2–30.6)	671	37.2	(35.0–39.5)	188	35.5	(30.1–40.8)
Mental or emotional health	mantal	haal4h :	foodiana		a 4b a a a	laa .aaaal		.i n	aat 12 mar	.46.ab					
Unmet needs for services from a Yes	mentai 42		(25.6–50.7)	91	i g tnose 31.8	(25.8–37.8)	ea serv 71	71 ces, p 27.3	(19.8–34.7)	149	24.7	(18.8–30.6)	36	22.8	(12.9–32.7)
No	74	61.8	(49.3–74.4)	193	68.2		219	72.7	(65.3–80.2)	519	75.3	(69.4–81.2)	115	77.2	(67.3–87.1)
Structural or subsistence factors	, ,	01.0	(10.0 7 1.1)	100	00.2	(02.2 71.2)	210	, 2.,	(00.0 00.2)	010	70.0	(00.1 01.2)	110	77.2	(01.0 01.1)
Unstable housing or homelessner	ss. past	12 moi	nths ^c												
Yes	82	31.5	(25.7–37.4)	155	24.7	(19.4-30.0)	148	18.6	(14.9-22.4)	226	13.1	(11.3-14.8)	40	7.5	(4.9-10.1)
No	178	68.5	(62.6–74.3)	484	75.3	(70.0–80.6)	602	81.4	(77.6–85.1)	1,547	86.9	(85.2–88.7)	519	92.5	(89.9–95.1)
Unemployment ^d															
Yes	65	23.2	,	139	22.3	(18.9–25.8)	131	17.9	(14.7–21.1)	199	11.5	(9.8–13.2)	24	3.7	(2.3-5.0)
No	195	76.8	(70.7–83.0)	500	77.7	(74.2–81.1)	618	82.1	(78.9–85.3)	1,572	88.5	(86.8–90.2)	532	96.3	(95.0–97.7)
Hunger or food insecurity, past 12			(10 2 20 4)	115	21.1	(16.9–25.4)	128	15.8	(12.7–18.8)	237	115	(10 / 16 7)	35	6.4	// O 0 7\
Yes No	62 197	24.3 75.7	(18.2–30.4) (69.6–81.8)	145 491	78.9	(74.6–83.1)	621	84.2	(81.2–87.3)		14.5 85.5	(12.4–16.7) (83.3–87.6)	524	93.6	(4.0–8.7) (91.3–96.0)
HIV stigma, past 12 months	251	32.5	(29.1–36.0)	601	31.9	(29.0–34.8)	702	31.2			28.3	(26.4–30.2)	508	22.8	(20.3–25.2)
(n, median score, 95% CI) ^f		02.0	(=0 00.0)		0	(=0.0 00)		· · · -	(2011 0010)	.,000	_0.0	(2011 0012)			(=0.0 =0.=)
Other factors important for health, i	includin	g those	that affect	quality	of life										
Economic stability															
Household income with respect to p	poverty	quideli	nes ^g												
<100% FPL	66	31.8	(20.7-43.0)	192	34.0	(28.4-39.6)	265	37.7	(31.9-43.6)	670	40.7	(35.9-45.5)	180	38.2	(31.3-45.2)
100%-138% FPL	21	12.8	(6.0-19.5)	61	11.4	(8.2-14.6)	55	7.6	(5.5-9.7)	184	11.4	(9.4-13.4)	62	12.8	(9.8–15.9)
139%–399% FPL	101	49.7	(41.8–57.5)	231	40.3	(36.6–44.1)	253	41.5	(35.9–47.1)	508	31.4	(29.2–33.5)	186	34.4	(29.3–39.5)
≥400% FPL	_	_	_	80	14.2	(10.9–17.6)	91	13.1	(9.7–16.5)	273	16.5	(13.2–19.8)	82	14.5	(11.3–17.8)
Education															
Educational attainment						(0.0.40.4)	400		// A D DD =\			// = /OO			// · · · · · · · · · · · · · · · · · ·
Less than high school diploma	_	24.0	(20.0, 40.0)	82	13.7	(9.3–18.1)	129	18.5	(14.2–22.7)	265	14.1	(11.5–16.8)	89	17.6	(13.1–22.0)
High school diploma or equivalent Greater than high school	89 153	34.8 57.1	(28.9–40.6) (50.6–63.7)	171 385	25.4 60.9	(21.7–29.1) (55.9–65.8)	190 431	23.6 58.0	(19.5–27.7) (54.0–61.9)	469 1 036	26.6 59.3	(24.0–29.2) (55.2–63.3)	120 349	22.3 60.2	(19.1–25.5) (55.2–65.1)
-	100	37.1	(30.0–03.1)	303	00.5	(55.5-05.0)	401	30.0	(34.0-01.3)	1,000	33.3	(33.2-03.3)	343	00.2	(55.2-05.1)
Health-related factors	.dina Di	on Mh	to LINIAIDO	Duane	om IDV	/LIADI sesi	-4		12 manthal	1					
Health insurance or coverage (including Any private	iaing Ry 116		(41.7–53.0)	Progr 257	am [KV 41.7	-	stance) 327	45.3		695	39.7	(36.2–43.2)	214	37.8	(33.0–42.7)
Public only, excluding RWHAP only	98		(29.3–41.2)	293	44.3	(38.0–50.6)	317	39.8	,	949	53.9	(49.6–58.2)	333	61.5	,
Uninsured or RWHAP only	42		(10.8–24.1)	75	14.0	(9.8–18.2)	93	14.8	(9.9–19.8)	101	6.4	(3.8–9.0)	_	_	— (************************************
Received RWHAP assistance, past	12 mon		,			,			,			,			
Yes	132		(44.0-57.9)	347	52.9	(49.0-56.8)	358	46.6	(41.0-52.1)	814	45.2	(41.4-48.9)	246	43.8	(38.0-49.5)
No	120	49.0	(42.1–56.0)	257	47.1	(43.2–51.0)	368	53.4	(47.9–59.0)	891	54.8	(51.1–58.6)	290	56.2	(50.5–62.0)
Confidence in completing health for	rms														
Somewhat, a little bit, not at all	52		(16.4–31.3)	119	20.9	(17.6-24.3)	181		(21.5-28.8)	458	24.8	(22.3-27.3)	142	24.3	(20.0-28.6)
Extremely, quite a bit	207	76.2	(68.7–83.6)	518	79.1	(75.7–82.4)	569	74.8	(71.2–78.5)	1,309	75.2	(72.7–77.7)	414	75.7	(71.4–80.0)
Has a disability		a - c	(00 0 0 = 5:			(00 t == r:	a= ·		/A · · ·		4.5 -				= ==
Yes	71		(20.6–35.0)	213	30.8	(26.4–35.2)	271	36.1	,	839	46.5	(44.1–48.8)	280	50.4	(44.7–56.1)
No	189		(65.0–79.4)	426	69.2	(64.8–73.6)	479	63.9	(59.5–68.3)	932	53.5	(51.2–55.9)	277	49.6	(43.9–55.3)
Any unmet HIV ancillary service ned	-			246	EO 4	(AC 2 CO 4)	266	EO O	(AGE E47)	755	<i>1E</i> 0	(A1 E A0 A)	202	27.0	(22.4.40.0)
Yes No	146 112		(47.1–65.6) (34.4–52.9)	346 280	53.4 46.6	(46.3–60.4) (39.6–53.7)	366 382	50.6 49.4	,	755 1 008	45.0 55.0	(41.5–48.4) (51.6–58.5)	202 356	37.2 62.8	(33.4–40.9) (59.1–66.6)
110	112	7 0.0	(002.0)	200	- 0.0	(00.0-00.1)	002	- 73. 1	(40.0-00.0)	1,000	55.0	(0.00-00.0)	550	02.0	(00.1–00.0)

Table 2a. Individual-level social determinants of health and quality of life among adults with diagnosed HIV, by age—Medical Monitoring Project, United States, 2021 (cont)

	1	18–29 y	ears	30-39 years			4	10–49 ye	ears	;	50–64 ye	ears	≥65 years		
	n	col %	95% CI	n		95% CI	n	col %	95% CI	n	col %	95% CI	n	col %	95% CI
Neighborhood and built environmen	nt														
Any met or unmet need for transpor	tation a	ssistan	ce, past 12	month	ıs ^k										
Yes	56	21.7	(16.3–27.0)	176	25.1	(21.5-28.7)	188	25.0	(21.6-28.4)	531	29.8	(27.5-32.1)	157	27.1	(23.7-30.5)
No	202	78.3	(73.0–83.7)	453	74.9	(71.3–78.5)	556	75.0	(71.6–78.4)	1,225	70.2	(67.9–72.5)	402	72.9	(69.5–76.3)
Social and community context															
HIV health care discrimination amor	ng perso	ons who	received o	are, p	ast 12 n	nonths ^l									
Yes	57	22.9	(15.9-29.9)	141	22.4	(17.1-27.8)	191	25.0	(21.4-28.6)	341	21.1	(17.7-24.4)	85	17.8	(14.2-21.3)
No	180	77.1	(70.1–84.1)	439	77.6	(72.2–82.9)	505	75.0	(71.4–78.6)	1,298	78.9	(75.6–82.3)	436	82.2	(78.7–85.8)
Speaks English less than well															
Yes	_	_	_	39	5.6	(3.0-8.2)	68	8.1	(4.4-11.8)	_	_	_	57	9.8	(4.3-15.3)
No	252	96.9	(94.8-99.1)	600	94.4	(91.8-97.0)	684	91.9	(88.2-95.6)	1,619	92.1	(87.4–96.8)	502	90.2	(84.7–95.7)
Experiences of physical violence by	an inti	mate pa	rtner or for	ced se	x, lifetii	ne ^m									
Yes	104	45.1	(37.0-53.2)	263	42.9	(37.5-48.2)	269	38.8	(34.2-43.5)	558	32.0	(28.6-35.3)	98	17.3	(12.4-22.3)
No	151	54.9	(46.8-63.0)	354	57.1	(51.8-62.5)	458	61.2	(56.5-65.8)	1,172	68.0	(64.7-71.4)	451	82.7	(77.7–87.6)
Experiences of physical violence by	an inti	mate pa	rtner or for	ced se	x, past	12 months	m								
Yes	36	15.1	(10.4-19.8)	47	8.4	(5.8-11.0)	44	6.6	(4.1-9.1)	50	3.8	(2.7-4.8)	_	_	_
No	217	84.9	(80.2-89.6)	566	91.6	(89.0-94.2)	679	93.4	(90.9-95.9)	1,669	96.2	(95.2-97.3)	542	99.0	(97.9-100)
Incarcerated >24 hours, past 12 more	nths														
Yes	_	_	_	23	3.9	(2.2-5.7)	_	_	_	33	2.5	(1.6-3.4)	_	_	_
No	243	93.0	(87.0-99.0)	614	96.1	(94.3-97.8)	736	97.7	(96.3-99.1)	1,738	97.5	(96.6–98.4)	555	99.3	(98.5-100)

Abbreviations: n, number; col, column; CI, confidence interval; FPL, federal poverty level; RWHAP, Ryan White HIV/AIDS Program; HHS, Department of Health and Human Services [footnotes only]; VA, Veterans Administration [footnotes only].

Note. Unweighted numbers and weighted percentages are presented. CIs incorporate weighted percentages. Excluded are estimates with a coefficient of variation ≥0.30 and those based on a denominator sample size <30.

a "Good or better self-rated health" defined as rating one's health as good, very good, or excellent (as opposed to poor or fair) at the time of interview.

^b "Unmet need for mental health services from a mental health professional" defined as needing, but not receiving, services from a mental health professional among those who indicated needing mental health services (i.e., receiving or needing but not receiving) during the past 12 months.

^c "Unstable housing or homelessness" defined as experiencing unstable housing (i.e., moving in with others due to financial issues, moving 2 or more times, or being evicted) or homelessness (living on the street, in a shelter, in a single-room–occupancy hotel, or in a car) at any time during the past 12 months.

d Unemployed persons included those who reported being unemployed at the time of interview, excluding persons who are unable to work, calculated among all adults with HIV.

e "Hunger/food insecurity" defined as going without food due to lack of money during the past 12 months.

f "Median HIV stigma score" defined as the weighted median score on a 10-item scale ranging from 0 (no stigma) to 100 (high stigma) that measures 4 dimensions of HIV stigma: personalized stigma during the past 12 months, current disclosure concerns, current negative self-image, and current perceived public attitudes about persons living with HIV, measured among persons aged ≥18 years with diagnosed HIV infection living in the United States and Puerto Rico. The HIV stigma scale used for this indicator is available at https://www.ncbi.nlm.nih.gov/pmc/articles/PMC2001277/ [Wright K, Naar-King S, Lam P, Templin T, Frey M. Stigma scale revised: reliability and validity of a brief measure of stigma for HIV+ youth. *J Adolesc Health* 2007;40(1):96–98].

⁹ Poverty guidelines defined by HHS. For persons interviewed in a particular calendar year, the HHS poverty guidelines from the previous year were used. For instance, the 2020 guidelines were used for persons interviewed in 2021. More information regarding HHS poverty guidelines can be found at https://aspe.hhs.gov/frequently-asked-questions-related-poverty-guidelines-and-poverty.

h Persons could select more than 1 response for health insurance or coverage. Mutually exclusive categories are presented based on responses. Private coverage defined as receiving health insurance through a person's employer or a family member's employer or purchased through the Health Insurance Marketplace or directly from a health insurance company. Public insurance includes Medicaid, Medicare, VA, RWHAP, or other city, county, or state-funded insurance. Uninsured or RWHAP only category includes those who did not report having any insurance, or received RWHAP assistance only, without coverage through any other insurance categories.

Self-reported, and includes physical, mental, and emotional disabilities.

Property in the property is a service of the property in the property is a service of the property in the property is a service of the property in the property is a service of the property in the property is a service of the property in the property is a service of the property in the property is a service of the property in the property is a service of the property in the property is a service of the property in the property is a service of the property in the property is a service of the property in the property is a service of the property in the property is a service of the property in the property is a service of the property in the property is a service of the property in the property in the property is a service of the property in the property is a service of the property in the property is a service of the property in the property is a service of the property in the property in the property is a service of the property in the property in the property is a service of the property in the property in

k Represents those who needed transportation assistance, regardless of whether that assistance was received, among all persons.

HIV health care discrimination among those who received HIV care during the previous 12 months was assessed based on seven forms of discrimination, including: being treated with less courtesy than other persons, being treated with less respect than other persons, receiving poorer service than others, having a doctor or nurse act as if he or she believed they were not smart, having a doctor or nurse act as if he or she were afraid of them, having a doctor or nurse act as if he or she were better than them, and having a doctor or nurse not listen to what they were saying. Respondents were asked if they experienced these forms of discrimination never, rarely, some of the time, most of the time, or all the time. Respondents who reported experiencing at least one form of health care discrimination rarely, some of the time, or all of time were considered to have experienced discrimination in an HIV health care setting.

^m Physical violence by an intimate partner defined as ever being slapped, punched, shoved, kicked, choked, or otherwise physically hurt by a romantic or sexual partner. Forced sex defined as ever being threatened with harm or physically forced to have unwanted vaginal, anal, or oral sex.

No. 36

Table 2b. Relative and absolute differences in individual-level social determinants of health and quality of life among adults with diagnosed HIV, by age—Medical Monitoring Project, United States. 2021

United States, 2021																
		18–29 years				0-39 years				0–49 years				0-59 years		
	PR	95% CI	PD	95% CI	PR	95% CI	PD	95% CI	PR	95% CI	PD	95% CI	PR	95% CI	PD	95% CI
Total (row %)																
National HIV/AIDS Strategy indicators related to social de	etermina	nts of healt	:h													
Quality of life																
Physical health Self-reported health status ^a																
Good, very good, excellent	1.25	(1.16–1.35)	16.27	(11.02–21.52)	1.18	(1.06-1.32)	11.76	(4.19-19.33)	1.13	(1.05-1.22)	8.53	(3.46-13.60)	0.97	(0.89-1.07)	-1.77	(-7.67-4.13)
Poor, fair	0.54	(0.43–0.68)	-16.27	(-21.52– -11.02)	0.67	(0.52–0.87)	-11.76	(-19.33– -4.19)	0.76	(0.65–0.89)	-8.53	(-13.603.46)	1.05	(0.89–1.24)	1.77	(-4.13– 7.67)
Mental or emotional health						h										
Unmet needs for services from a mental health profess					, past 1	2 months ^D	0.00	(0.40, 00.20)	4 00	(0.70.4.00)	4.40	(000 4504)	4.00	(0.70.4.04)	4.07	(7.00 44.40)
Yes No				(-1.12– 31.81) (-31.81– 1.12)		(0.87–2.22) (0.76–1.03)				(0.76–1.88) (0.82–1.09)			1.08	(0.72–1.64) (0.86–1.10)		(-7.66– 11.40) (-11.40– 7.66)
Structural or subsistence factors	0.00	(0.00-1.00)	-10.07	(-01.01-1.12)	0.00	(0.70-1.00)	-0.50	(-20.00- 2.42)	0.57	(0.02-1.03)	-т.тЈ	(-10.01-0.00)	0.50	(0.00-1.10)	-1.07	(-11. 4 0-7.00)
Unstable housing or homelessness, past 12 months ^c																
Yes	4.19			(18.38-29.68)				(11.66-22.68)				(6.35-15.89)	1.74	(1.25-2.41)		(2.96 - 8.13)
No	0.74	(0.68–0.80)	-24.03	(-29.68– -18.38)	0.81	(0.76–0.87)	-17.17	(-22.68– -11.66)	0.88	(0.83-0.93)	-11.12	(-15.89– -6.35)	0.94	(0.91–0.97)	-5.55	(-8.13– -2.96)
Unemployment ^a Yes	6 3 5	(3 02_10 30)	10.5/	(13.07–26.00)	6.11	(/ 07_0 18)	18 67	(14.92–22.42)	1 00	(3.20_7.31)	1/1 25	(10.87– 17.64)	3.15	(2.07-4.81)	7.85	(5.49–10.22)
No				(-26.0013.07)	0.81			(-22.4214.92)				(-17.6410.87)	0.92	(0.90-0.94)		(-10.225.49)
Hunger or food insecurity, past 12 months ^e		,		,		,		,		,				,		,
Yes	3.82			(11.81– 24.04)	3.32	(2.22–4.98)	14.78	(10.14–19.42)	2.48	(1.67–3.69)		(5.80– 13.02)	2.28	(1.53–3.41)		(4.98–11.38)
No	0.81	(0.75–0.88)	-17.92	(-24.04– -11.81)	0.84	(0.80–0.89)	-14.78	(-19.42– -10.14)	0.90	(0.86–0.94)	-9.41	(-13.025.80)	0.91	(0.88–0.95)	-8.18	(-11.38– -4.98)
HIV stigma, past 12 months (n, median score, 95% CI) [†]	ee .															
Other factors important for health, including those that at	ffect qua	lity of life														
Economic stability																
Household income with respect to poverty guidelines ⁹ <100% FPL	0.83	(0.60–1.16)	-6.40	(-17.28–4.49)	0.89	(0.75–1.05)	-4.22	(-10.32– 1.88)	0.99	(0.85–1.15)	-0.50	(-6.28- 5.28)	1.06	(0.92–1.23)	2.45	(-3.09-7.99)
100%–138% FPL	0.99				0.89			(-5.34– 2.52)	0.59			(-8.481.92)	0.89	(0.67–1.18)		(-4.97– 2.12)
139%–399% FPL	1.44	\ /			1.17	(1.00–1.37)	5.95	(0.29–11.60)	1.21	(1.03–1.42)	7.15	(1.07– 13.23)	0.91	(0.79–1.06)	-3.02	(-8.12– 2.07)
≥400% FPL	0.39	(0.21–0.73)	-8.81	(-13.05– -4.56)	0.98	(0.73–1.31)	-0.32	(-4.51– 3.88)	0.90	(0.66-1.23)	-1.45	(-5.76– 2.86)	1.14	(0.89–1.46)	2.00	(-1.80– 5.80)
Education																
Educational attainment	0.40	(0.00.005)	0.44	(40 40 0 40)	0.70	(0.50.4.05)	2.05	(0.00 0.50)	4.05	(0.04.4.07)	0.00	(2.00 5.05)	0.04	(0.05.0.00)	2.40	/700 045\
Less than high school diploma High school diploma or equivalent	0.46 1.56			(-16.46– -2.42) (5.58– 19.39)	0.78	(0.58–1.05) (0.95–1.37)		(-8.29– 0.59) (-1.16– 7.46)	1.05 1.06	\!		(-3.86– 5.65) (-3.13– 5.74)	0.81 1.19	(0.65–0.99) (1.00–1.42)		(-7.00– 0.15) (0.19– 8.49)
Greater than high school	0.95			'		(0.93–1.10)				(0.88–1.05)			0.98	(0.91–1.06)		(-5.41– 3.59)
Health-related factors		(((((* * * * * * * * * * * * * * * * * * *		(/		((
Health insurance or coverage (including Ryan White HIV/	AIDS Pro	ogram [RW	HAP1 a	ssistance), pas	st 12 m	onths ^h										
Any private	1.25	(1.04–1.50)	9.50	(1.71– 17.30)	1.10	(0.96-1.27)				(1.03-1.39)			1.05	(0.94-1.17)		(-2.35-6.08)
Public only, excluding RWHAP only				(-34.3018.24)				(-24.749.64)				(-30.0613.28)	0.88	(0.80-0.96)		(-12.662.57)
Uninsured or RWHAP only	26.07	(7.76–87.61)	16.76	(10.06–23.47)	20.89	(6.50-67.15)	13.30	(9.03–17.57)	22.20	(6.93–71.10)	14.18	(9.23–19.12)	9.60	(2.83–32.56)	5.75	(3.01– 8.49)
Received RWHAP assistance, past 12 months Yes	1.16	(0 97_1 /0)	7 17	(-1.53– 15.87)	1.21	(1.06–1.38)	0 12	(2.95– 15.28)	1.06	(0.94–1.20)	2.78	(-2.54- 8.09)	1.03	(0.90–1.18)	1.38	(-4.59–7.35)
No	0.87				0.84	(0.75–0.94)	-9.12	(-15.282.95)	0.95	(0.86–1.05)	-2.78	(-8.09- 2.54)	0.98	(0.88–1.09)		(-7.35– 4.59)
Confidence in completing health forms		, , , , , ,		,,		, ,	_	,/			_	, ,		/		,
Somewhat, a little bit, not at all	0.98				0.86				1.04	(0.80-1.33)	0.88	(-5.36- 7.12)	1.02	(0.88-1.19)		(-3.20-4.27)
Extremely, quite a bit	1.01	(0.92–1.10)	0.45	(-6.06– 6.96)	1.04	(0.98–1.12)	3.35	(-1.82– 8.52)	0.99	(0.91–1.07)	-0.88	(-7.12– 5.36)	0.99	(0.95–1.04)	-0.54	(-4.27– 3.20)
Has a disability ^l	0.55	(0.40, 0.75)	22.60	(22 04 12 16)	0.61	(0.50, 0.74)	10 EG	/ 27 15 11 07)	0.70	(0.64 0.04)	11 22	(01.15 7.51)	0.00	(0.00, 1.06)	2.04	(10.70 0.01)
Yes No	0.55 1.46			(-33.04– -12.16) (12.16– 33.04)				(-27.15– -11.97) (11.97– 27.15)		(1.13–1.46)		(-21.15– -7.51) (7.51– 21.15)	1.08	(0.80–1.06) (0.94–1.24)		(-10.79– 2.91) (-2.91– 10.79)
Any unmet HIV ancillary service need, past 12 months ^j	1.70	(1.22-1.10)	22.00	(12.10-33.04)	1.00	(1.22-1.00)	10.00	(11.01 - 21.10)	1.23	(1.10-1.70)	17.00	(1.01-21.10)	1.00	(U.UT-1.24)	U.J -1	(2.01 - 10.13)
Yes	1.52	(1.25–1.83)	19.18	(9.33-29.03)	1.44	(1.23–1.67)	16.18	(8.71–23.64)	1.36	(1.19–1.55)	13.40	(7.68–19.11)	1.21	(1.08–1.36)	7.80	(3.08-12.51)
No	0.69			(-29.03– -9.33)				(-23.64– -8.71)	0.79			(-19.11– -7.68)				(-12.51– -3.08)

Table 2b. Relative and absolute differences in individual-level social determinants of health and quality of life among adults with diagnosed HIV, by age—Medical Monitoring Project, United States, 2021 (cont)

	1	8-29 years	vs. ≥6	5 years	3	0-39 years	vs. ≥6	5 years	4	0-49 years	vs. ≥6	5 years		50-59 years	vs. ≥6	years
	PR	95% CI	PD	95% CI	PR	95% CI	PD	95% CI	PR	95% CI	PD	95% CI	PR	95% CI	PD	95% CI
Neighborhood and built environment																
Any met or unmet need for transportation assistance, past	12 mo	nths ^k														
Yes		(0.61-1.04)	-5.45	(-11.55-0.64)	0.93	(0.76-1.13)	-2.00	(-7.09 - 3.09)	0.92	(0.77-1.10)	-2.13	(-6.83 - 2.57)	1.10	(0.94-1.28)	2.65	(-1.55- 6.85
No	1.07	(0.99–1.16)	5.45	(-0.64– 11.55)	1.03	(0.96-1.10)	2.00	(-3.09–7.09)	1.03	(0.97–1.10)	2.13	(-2.57– 6.83)	0.96	(0.91–1.02)	-2.65	(-6.85–1.55
Social and community context																
HIV health care discrimination among persons who receive	ed care	, past 12 mo	onths													
Yes	1.29			(-2.20- 12.48)	1.26	(0.96-1.67)	4.66	(-1.14- 10.46)	1.41	(1.13-1.75)	7.21	(2.69 - 11.74)	1.18	(0.92-1.52)	3.28	(-1.47-8.03
No	0.94	(0.85-1.03)	-5.14	(-12.48– 2.20)	0.94	(0.88-1.02)	-4.66	(-10.46– 1.14)	0.91	(0.86-0.97)	-7.21	(-11.742.69)	0.96	(0.91–1.02)	-3.28	(-8.03–1.47
Speaks English less than well																
Yes	0.31	(0.11-0.91)	-6.72	(-13.410.02)	0.57	(0.37 - 0.90)	-4.17	(-8.50 - 0.17)	0.83	(0.56-1.23)	-1.68	(-5.52-2.16)	0.81	(0.62-1.05)	-1.85	(-4.26- 0.56
No	1.07	(1.00-1.16)	6.72	(0.02–13.41)	1.05	(1.00-1.10)	4.17	(-0.17-8.50)	1.02	(0.98-1.06)	1.68	(-2.16– 5.52)	1.02	(0.99-1.05)	1.85	(-0.56-4.26
Experiences of physical violence by an intimate partner or	forced	sex, lifetim	e ^m													
Yes				(17.69 - 37.85)	2.47	(1.76 - 3.48)	25.56	(17.29 - 33.83)	2.24	(1.64 - 3.05)	21.48	(14.66 - 28.30)	1.84	(1.44-2.36)	14.62	(10.33-18.91
No	0.66	(0.56-0.78)	-27.77	(-37.8517.69)	0.69	(0.61-0.78)	-25.56	(-33.83– -17.29)	0.74	(0.67-0.82)	-21.48	(-28.3014.66)	0.82	(0.78-0.87)	-14.62	(-18.91– -10.33
Experiences of physical violence by an intimate partner or	forced	sex, past 1	2 mon	ths ^m												
Yes	14.37	(5.21 - 39.63)	14.03	(9.20- 18.87)	8.03	(2.98-21.62)	7.37	(4.62 - 10.13)	6.32	(2.23-17.92)	5.58	(2.87 - 8.30)	3.58	(1.26-10.20)	2.71	(1.15-4.28
No	0.86	(0.81-0.91)	-14.03	(-18.87– -9.20)	0.93	(0.90-0.95)	-7.37	(-10.13– -4.62)	0.94	(0.92-0.97)	-5.58	(-8.302.87)	0.97	(0.96-0.99)	-2.71	(-4.281.15
Incarcerated >24 hours, past 12 months																
Yes	10.16	(2.30-44.84)	6.32	(0.26-12.38)	5.70	(1.50-21.63)	3.24	(1.28-5.21)	3.37	(0.95-11.96)	1.63	(0.15-3.11)	3.61	(1.09-11.99)	1.80	(0.73 - 2.87)
No	0.94	(0.88–1.00)	-6.32	(-12.380.26)	0.97	(0.95-0.99)	-3.24	(-5.211.28)	0.98	(0.97-1.00)	-1.63	(-3.11– -0.15)	0.98	(0.97–0.99)	-1.80	(-2.870.73

Note, persons aged ≥65 years were the referent group for each disparity assessment. Excluded are estimates with a coefficient of variation ≥0.30 and those based on a denominator sample size <30.

- a "Good or better self-rated health" defined as rating one's health as good, very good, or excellent (as opposed to poor or fair) at the time of interview.
- b "Unmet need for mental health services from a mental health professional" defined as needing, but not receiving, services from a mental health professional among those who indicated needing mental health services (i.e., receiving or needing but not receiving) during the past 12 months.
- ^C "Unstable housing or homelessness" defined as experiencing unstable housing (i.e., moving in with others due to financial issues, moving 2 or more times, or being evicted) or homelessness (living on the street, in a shelter, in a single-room–occupancy hotel, or in a car) at any time during the past 12 months.
- d Unemployed persons included those who reported being unemployed at the time of interview, excluding persons who are unable to work, calculated among all adults with HIV.
- ^e "Hunger/food insecurity" defined as going without food due to lack of money during the past 12 months.
- f "Median HIV stigma score" defined as the weighted median score on a 10-item scale ranging from 0 (no stigma) to 100 (high stigma) that measures 4 dimensions of HIV stigma: personalized stigma during the past 12 months, current disclosure concerns, current negative self-image, and current perceived public attitudes about persons living with HIV, measured among persons aged ≥18 years with diagnosed HIV infection living in the United States and Puerto Rico. The HIV stigma scale used for this indicator is available at https://www.ncbi.nlm.nih.gov/pmc/articles/PMC2001277/ [Wright K, Naar-King S, Lam P, Templin T, Frey M. Stigma scale revised: reliability and validity of a brief measure of stigma for HIV+ youth. *J Adolesc Health* 2007;40(1):96–98].
- ⁹ Poverty guidelines defined by HHS. For persons interviewed in a particular calendar year, the HHS poverty guidelines from the previous year were used. For instance, the 2020 guidelines were used for persons interviewed in 2021. More information regarding HHS poverty guidelines can be found at https://aspe.hhs.gov/frequently-asked-guestions-related-poverty-guidelines-and-poverty.
- h Persons could select more than 1 response for health insurance or coverage. Mutually exclusive categories are presented based on responses. Private coverage defined as receiving health insurance through a person's employer or a family member's employer or purchased through the Health Insurance Marketplace or directly from a health insurance company. Public insurance includes Medicaid, Medicare, VA, RWHAP, or other city, county, or state-funded insurance. Uninsured or RWHAP only category includes those who did not report having any insurance, or received RWHAP assistance only, without coverage through any other insurance categories.
- ¹ Self-reported, and includes physical, mental, and emotional disabilities.
- J Represents those who needed, but did not receive, ≥1 HIV ancillary services, among all persons.
- ^k Represents those who needed transportation assistance, regardless of whether that assistance was received, among all persons.
- HIV health care discrimination among those who received HIV care during the previous 12 months was assessed based on seven forms of discrimination, including: being treated with less courtesy than other persons, being treated with less respect than other persons, receiving poorer service than others, having a doctor or nurse act as if he or she believed they were not smart, having a doctor or nurse act as if he or she were afraid of them, having a doctor or nurse act as if he or she were better than them, and having a doctor or nurse not listen to what they were saying. Respondents were asked if they experienced these forms of discrimination never, rarely, some of the time, most of the time, most of the time, or all the time, most of the time, or all of time were considered to have experienced discrimination in an HIV health care setting.
- m Physical violence by an intimate partner defined as ever being slapped, punched, shoved, kicked, choked, or otherwise physically hurt by a romantic or sexual partner. Forced sex defined as ever being threatened with harm or physically forced to have unwanted vaginal, anal, or oral sex.

Table 3a. Individual-level social determinants of health and quality of life among adults with diagnosed HIV, by current gender identity—Medical Monitoring Project, United States, 2021

	Cis	gender	malea	Cisg	jender	female ^a	T	ransger	ıder ^a
	n	col %	95% CI	n	col %	95% CI	n	col %	95% CI
Total (row %)	2,918	74.8	(71.6–78.0)	983	22.9	(19.8–26.0)	91	2.3	(1.9–2.7)
National HIV/AIDS Strategy indicators related to social determinants of healt	h								
Quality of life									
Physical health									
Self-reported health status ^b									
Good, very good, excellent	2,070		(70.1–73.0)	569		(55.6–65.7)	57		(52.3–71.8)
Poor, fair	832	28.5	(27.0–29.9)	408	39.3	(34.3–44.4)	34	38.0	(28.2–47.7)
Mental or emotional health					41 C				
Unmet needs for services from a mental health professional among those			-			(16.6. 22.2)	10	20.2*	(12 / 17 1)
Yes No	287 785		(23.9–33.1) (66.9–76.1)	91 304		(16.6–33.3) (66.7–83.4)	10 30		(13.4–47.1) (52.9–86.6)
Structural or subsistence factors	700	11.5	(00.3-70.1)	JU 4	73.1	(00.7-05.4)	30	03.1	(32.3-00.0)
Unstable housing or homelessness, past 12 months ^d									
Yes	471	16.6	(14.7–18.4)	158	17.2	(14.5-19.8)	21	27.1	(17.1–37.1)
No	2,436		(81.6–85.3)	823		(80.2–85.5)	70		(62.9–82.9)
Unemployment ^e	•		,			,			` ,
Yes	420		(13.3–16.2)	118		(10.9–15.9)	20	24.7	(15.3-34.2)
No	2,482	85.3	(83.8–86.7)	862	86.6	(84.1–89.1)	71	75.3	(65.8–84.7)
Hunger or food insecurity, past 12 months [†]	400		//0 / /0 - >	4-0	400	(10.0.10.0)			(00.00)
Yes	423		(13.1–16.7)	156		(13.6–18.8)	28		(20.0–53.5)
No	2,481		(83.3–86.9)	824		(81.2–86.4)	62		(46.5–80.0)
HIV stigma, past 12 months (n, median score, 95% CI) ^g	2,726	27.9	(26.4–29.4)	899	33.5	(30.4–36.5)	85	34.2	(28.6–39.9)
Other factors important for health, including those that affect quality of life									
Economic stability									
Household income with respect to poverty guidelines ^h									
<100% FPL	857	32.4	(28.3–36.5)	471	55.5	(47.6–63.5)	45	57.9	(44.4–71.4)
100%–138% FPL	273	10.9	(9.1–12.6)	101	11.5	(8.6–14.4)	_	_	-
139%–399% FPL	1,031		(36.9–41.4)	228		(21.9–34.9)	19	25.0	(15.3–34.7)
≥400% FPL	491	17.6	(14.9–20.2)	46	4.5	(2.6–6.4)	_	_	_
Education									
Educational attainment									
Less than high school diploma	324	11.8	(9.4–14.2)	238		(21.4–27.4)	20		(10.8–30.5)
High school diploma or equivalent	684		(21.2–25.0)	322		(29.0–38.3)	32		(25.8–48.7)
Greater than high school	1,896	65.1	(62.2–68.0)	420	42.0	(36.5–47.4)	38	42.1	(29.1–55.1)
Health-related factors									
Health insurance or coverage (including Ryan White HIV/AIDS Program [RWI	_								
Any private	1,302		(42.2–48.1)	278		(24.9–36.0)	28		(20.2–47.1)
Public only, excluding RWHAP only	1,309		(40.3–49.3)	628		(54.3–69.1)	52	55.2	(44.2–66.1)
Uninsured or RWHAP only	245	10.1	(6.6–13.6)	60	1.0	(4.6–11.0)	_	_	_
Received RWHAP assistance, past 12 months Yes	1,388	17.1	(44 G EO 2)	454	117	(39.1–50.4)	52	E0 0	(40 1 71 6)
No	1,404		(44.6–50.3) (49.7–55.4)	492		(49.6–60.9)	53 30		(48.1–71.6) (28.4–51.9)
	1,404	32.0	(43.1–33.4)	432	55.5	(43.0-00.3)	30	40.2	(20.4–31.3)
Confidence in completing health forms Somewhat, a little bit, not at all	657	23 N	(21.3–24.7)	263	26.7	(21.6–31.9)	32	32.2	(22.5–42.0)
Extremely, quite a bit	2,243		(75.3–78.7)	713		(68.1–78.4)	59		(58.0–77.5)
Has a disability ^j	-,2 10		(, 0.0 10.1)	0	. 0.0	(55.1 15.1)	50	57.0	(30.0 11.0)
Yes	1,092	37 N	(34.6–39.4)	530	50.7	(46.2–55.1)	51	57.9	(46.0–69.7)
No	1,813		(60.6–65.4)	449		(44.9–53.8)	40		(30.3–54.0)
Any unmet HIV ancillary service need, past 12 months ^k	.,510	30.0	(•		,	. •		,
Yes	1,275	45.6	(43.1–48.2)	487	52.4	(47.2–57.6)	51	56.5	(45.3–67.6)
No			(51.8–56.9)	486		(42.4–52.8)	39		(32.4–54.7)
			. ,			, ,			, ,

Table 3a. Individual-level social determinants of health and quality of life among adults with diagnosed HIV, by current gender identity—Medical Monitoring Project, United States, 2021 (cont)

	Cis	gender	male ^a	Ciso	jender 1	female ^a	Т	ransger	nder ^a
	n	col %	95% CI	n	col %	95% CI	n	col %	95% CI
Neighborhood and built environment									
Any met or unmet need for transportation assistance, past 12 months									
Yes	688	23.5	(21.9-25.2)	380	36.9	(33.2-40.5)	39	43.4	(32.6-54.2)
No	2,197	76.5	(74.8-78.1)	590	63.1	(59.5-66.8)	50	56.6	(45.8-67.4)
Social and community context									
HIV health care discrimination among persons who received care, past 12 mo	nths ^m								
Yes	597	22.1	(19.7-24.5)	196	20.5	(15.8-25.1)	21	24.2	(13.9-34.5)
No	2,087	77.9	(75.5-80.3)	704	79.5	(74.9-84.2)	66	75.8	(65.5-86.1)
Speaks English less than well									
Yes	201	6.5	(3.2 - 9.8)	110	9.7	(4.3-15.1)	16	13.9	(8.2-19.6)
No	2,709	93.5	(90.2-96.8)	871	90.3	(84.9-95.7)	75	86.1	(80.4-91.8)
Experiences of physical violence by an intimate partner or forced sex, lifetime	n								
Yes	840	30.9	(28.5-33.3)	404	43.6	(39.4-47.7)	46	61.3	(50.9-71.8)
No	2,003	69.1	(66.7-71.5)	543	56.4	(52.3-60.6)	40	38.7	(28.2-49.1)
Experiences of physical violence by an intimate partner or forced sex, past 12	month	ıs ⁿ							
Yes	127	5.1	(4.1-6.1)	42	6.2	(4.0-8.4)	12	18.7	(9.4-28.1)
No	2,706	94.9	(93.9-95.9)	892	93.8	(91.6-96.0)	74	81.3	(71.9-90.6)
Incarcerated >24 hours, past 12 months									
Yes	75	3.1	(2.2-4.0)	15	2.0	(0.8-3.1)	_	_	_
No	2,831	96.9	(96.0-97.8)	966	98.0	(96.9-99.2)	87	96.3	(91.8-100)

Note. Unweighted numbers and weighted percentages are presented. CIs incorporate weighted percentages. Excluded are estimates with a coefficient of variation ≥0.30 and those based on a denominator sample size <30. Estimates with an absolute CI width >30, estimates with an absolute CI width between 5 and 30 and a relative CI width >130%, and estimates of 0% or 100% are marked with an asterisk (*) and should be interpreted with caution.

^a Persons were classified as cisgender if sex at birth and gender reported by the person were the same. Persons were classified as transgender if sex at birth and gender reported by the person were different, or if the person chose "transgender" in response to the question about self-identified gender.

b "Good or better self-rated health" defined as rating one's health as good, very good, or excellent (as opposed to poor or fair) at the time of interview.

^C "Unmet need for mental health services from a mental health professional" defined as needing, but not receiving, services from a mental health professional among those who indicated needing mental health services (i.e., receiving or needing but not receiving) during the past 12 months.

d "Unstable housing or homelessness" defined as experiencing unstable housing (i.e., moving in with others due to financial issues, moving 2 or more times, or being evicted) or homelessness (living on the street, in a shelter, in a single-room–occupancy hotel, or in a car) at any time during the past 12 months.

e Unemployed persons included those who reported being unemployed at the time of interview, excluding persons who are unable to work, calculated among all adults with HIV.

f "Hunger/food insecurity" defined as going without food due to lack of money during the past 12 months.

⁹ "Median HIV stigma score" defined as the weighted median score on a 10-item scale ranging from 0 (no stigma) to 100 (high stigma) that measures 4 dimensions of HIV stigma: personalized stigma during the past 12 months, current disclosure concerns, current negative self-image, and current perceived public attitudes about persons living with HIV, measured among persons aged ≥18 years with diagnosed HIV infection living in the United States and Puerto Rico. The HIV stigma scale used for this indicator is available at https://www.ncbi.nlm.nih.gov/pmc/articles/PMC2001277/ [Wright K, Naar-King S, Lam P, Templin T, Frey M. Stigma scale revised: reliability and validity of a brief measure of stigma for HIV+ youth. *J Adolesc Health* 2007;40(1):96–98].

h Poverty guidelines defined by HHS. For persons interviewed in a particular calendar year, the HHS poverty guidelines from the previous year were used. For instance, the 2020 guidelines were used for persons interviewed in 2021. More information regarding HHS poverty guidelines can be found at https://aspe.hhs.gov/frequently-asked-questions-related-poverty-guidelines-and-poverty.

Persons could select more than 1 response for health insurance or coverage. Mutually exclusive categories are presented based on responses. Private coverage defined as receiving health insurance through a person's employer or a family member's employer or purchased through the Health Insurance Marketplace or directly from a health insurance company. Public insurance includes Medicaid, Medicare, VA, RWHAP, or other city, county, or state-funded insurance. Uninsured or RWHAP only category includes those who did not report having any insurance, or received RWHAP assistance only, without coverage through any other insurance categories.

¹ Self-reported, and includes physical, mental, and emotional disabilities.

^k Represents those who needed, but did not receive, ≥1 HIV ancillary services, among all persons.

Represents those who needed transportation assistance, regardless of whether that assistance was received, among all persons.

m HIV health care discrimination among those who received HIV care during the previous 12 months was assessed based on seven forms of discrimination, including: being treated with less courtesy than other persons, being treated with less respect than other persons, receiving poorer service than others, having a doctor or nurse act as if he or she believed they were not smart, having a doctor or nurse act as if he or she were afraid of them, having a doctor or nurse act as if he or she were better than them, and having a doctor or nurse not listen to what they were saying. Respondents were asked if they experienced these forms of discrimination never, rarely, some of the time, most of the time, or all the time. Respondents who reported experiencing at least one form of health care discrimination rarely, some of the time, most of the time, or all of time were considered to have experienced discrimination in an HIV health care setting.

Physical violence by an intimate partner defined as ever being slapped, punched, shoved, kicked, choked, or otherwise physically hurt by a romantic or sexual partner. Forced sex defined as ever being threatened with harm or physically forced to have unwanted vaginal, anal, or oral sex.

Table 3b. Relative and absolute differences in individual-level social determinants of health and quality of life among adults with diagnosed HIV, by current gender identity—Medical Monitoring Project, United States, 2021

	Cis	gender females	vs. cisgend	er males ^a	Trans	gender persor	ıs vs. cisger	ider males ^a
	PR	95% CI	PD	95% CI	PR	95% CI	PD	95% CI
Total (row %)								
National HIV/AIDS Strategy indicators re	elated to social	determinants of	of health					
Quality of life								
Physical health								
Self-reported health status ^b								
Good, very good, excellent	0.85	(0.78-0.93)	-10.89	(-16.315.48)	0.87	(0.74-1.02)	-9.51	(-19.40-0.39)
Poor, fair	1.38	(1.20–1.60)	10.89	(5.48– 16.31)	1.33	(1.03–1.74)	9.51	(-0.39– 19.40)
Mental or emotional health		,		. ,		,		
Unmet needs for services from a men	tal health profe	ssional among	those who	needed services, pas	t 12 months ^c			
Yes	0.88	(0.65–1.17)	-3.56	(-10.91–3.79)	1.06*	(0.61-1.84)	1.79*	(-14.78- 18.37)
No	1.05	(0.95–1.16)	3.56	(-3.79–10.91)	0.97*	(0.77–1.24)	-1.79*	(-18.37– 14.78)
Structural or subsistence factors								
Unstable housing or homelessness, p	ast 12 months	d						
Yes	1.03	(0.85-1.26)	0.58	(-2.73-3.89)	1.63	(1.16-2.29)	10.48	(1.12-19.85)
No	0.99	(0.95-1.03)	-0.58	(-3.89-2.73)	0.87	(0.77-0.99)	-10.48	(-19.851.12)
Unemployment ^e								
Yes	0.91	(0.74–1.11)	-1.35	(-4.15– 1.44)	1.68	(1.13–2.50)	9.99	(0.39-19.59)
No	1.02	(0.98–1.05)	1.35	(-1.44– 4.15)	0.88	(0.78–1.00)	-9.99	(-19.59– -0.39)
Hunger or food insecurity, past 12 mo								
Yes	1.09	(0.91–1.30)	1.28	(-1.53–4.10)	2.46*	(1.54–3.94)	21.83*	(4.96–38.69)
No	0.98	(0.95–1.02)	-1.28	(-4.10– 1.53)	0.74*	(0.57–0.97)	-21.83*	(-38.69– -4.96)
HIV stigma, past 12 months (n, median score, 95% CI) ^g								
Other factors important for health, inclu	ding those tha	t affect quality	of life					
Economic stability								
Household income with respect to pove	rtv quidelines ^h							
<100% FPL	1.71	(1.55-1.90)	23.13	(17.43-28.83)	1.79	(1.36-2.35)	25.50	(11.07-39.94)
100%–138% FPL	1.06	(0.88–1.27)	0.63	(-1.48– 2.73)	0.66	(0.29–1.50)	-3.71	(-9.95– 2.53)
139%–399% FPL	0.73	(0.59–0.89)	-10.71	(-16.305.12)	0.64	(0.42–0.96)	-14.15	(-24.703.59)
≥400% FPL	0.26	(0.18–0.37)	-13.05	(-15.4210.68)	0.56	(0.25–1.26)	-7.65	(-15.66- 0.36)
Education								
Educational attainment								
Less than high school diploma	2.07	(1.69-2.54)	12.62	(9.43–15.80)	1.76	(1.15–2.68)	8.90	(-0.08– 17.88)
High school diploma or equivalent	1.46	(1.24–1.71)	10.54	(5.55– 15.53)	1.61	(1.15–2.26)	14.11	(2.07–26.15)
Greater than high school	0.64	(0.57–0.73)	-23.16	(-28.88– -17.44)	0.65	(0.48–0.87)	-23.01	(-35.6510.37)
Health-related factors		,		,		,		,
Health insurance or coverage (including	Dvan White U	IV/AIDS Progra	m [D\\/∐∧D1	accietance) nact 12	monthe ^j			
Any private	0.67	(0.57-0.81)	-14.67	(-20.279.08)	0.75	(0.50–1.10)	-11.50	(-24.61– 1.61)
Public only, excluding RWHAP only	1.38	(1.27–1.49)	16.93	(11.99– 21.86)	1.23	(1.00–1.10)	10.38	(-0.76– 21.53)
Uninsured or RWHAP only	0.78	(0.53–1.14)	-2.25	(-5.64– 1.13)	1.11	(0.65–1.88)	1.12	(-4.89–7.12)
Received RWHAP assistance, past 12 m		(0.00 1.11)	2.20	(0.01 1.10)		(0.00 1.00)	1.12	(1.00 7.12)
Yes	0.94	(0.84–1.07)	-2.67	(-8.13– 2.79)	1.26	(1.04–1.54)	12.42	(0.72–24.11)
No	1.05	(0.95–1.16)	2.67	(-2.79– 8.13)	0.76	(0.57–1.02)	-12.42	(-24.11– -0.72)
	1.00	(0.55 1.10)	2.01	(2.73 0.10)	0.70	(0.07 1.02)	12.72	(24.11 0.12)
Confidence in completing health forms Somewhat, a little bit, not at all	1.16	(0.95–1.43)	3.74	(-1.69– 9.17)	1.40	(1.04–1.90)	9.24	(-0.44– 18.93)
Extremely, quite a bit	0.95	(0.88–1.43)	-3.74	(-9.17– 1.69)	0.88	(0.76–1.02)	-9.24	(-0.44- 10.93)
Has a disability ^j	0.55	(0.00-1.02)	0.17	(3.11 - 1.03)	0.00	(0.10-1.02)	J.27	(10.00-0.44)
-	1 27	(1.26, 1.40)	13.66	(0.60 17.72)	1 56	(1.26, 1.04)	20.86	(0.77 22.0E)
Yes No	1.37 0.78	(1.26–1.49) (0.72–0.85)	-13.66	(9.60– 17.73) (-17.73– -9.60)	1.56 0.67	(1.26–1.94) (0.50–0.89)	-20.86	(8.77– 32.95) (-32.95– -8.77)
		,	-13.00	(-11.139.00)	0.07	(0.50–0.03)	-20.00	(-32.330.77)
Any unmet HIV ancillary service need, p	ast 12 months 1.15	(1.05–1.26)	6.78	(2.10– 11.45)	1.24	(1.00–1.53)	10.84	(-0.83– 22.50)
	1 13	(U.Uə—I.Zb)	n/ň	17 10- 11 451	1 /4	11 00-1 551	IU 84	1-0.03-77.50)
Yes No	0.88	(0.79–0.97)	-6.78	(-11.45– -2.10)	0.80	(0.61–1.04)	-10.84	(-22.50– 0.83)

Table 3b. Relative and absolute differences in individual-level social determinants of health and quality of life among adults with diagnosed HIV, by current gender identity—Medical Monitoring Project, United States, 2021 (cont)

	Cis	gender females	s vs. cisgend	ler males ^a	Tran	sgender persor	ns vs. cisge	nder males ^a
	PR	95% CI	PD	95% CI	PR	95% CI	PD	95% CI
Neighborhood and built environment								
Any met or unmet need for transportation	on assistance,	past 12 months	s l					
Yes	1.57	(1.39–1.76)	13.31	(9.43- 17.19)	1.84	(1.41-2.40)	19.84	(8.74-30.94)
No	0.83	(0.78–0.88)	-13.31	(-17.199.43)	0.74	(0.61–0.90)	-19.84	(-30.948.74)
Social and community context								
HIV health care discrimination among p	ersons who re	ceived care, pa	st 12 months	s ^m				
Yes	0.93	(0.75–1.15)	-1.64	(-6.01-2.74)	1.09	(0.72-1.66)	2.09	(-7.94- 12.12)
No	1.02	(0.97–1.08)	1.64	(-2.74– 6.01)	0.97	(0.85–1.11)	-2.09	(-12.12–7.94)
Speaks English less than well								
Yes	1.50	(1.09-2.07)	3.25	(-0.06 - 6.55)	2.14	(1.19-3.85)	7.42	(1.42-13.42)
No	0.97	(0.93-1.00)	-3.25	(-6.55- 0.06)	0.92	(0.86-0.99)	-7.42	(-13.421.42)
Experiences of physical violence by an	intimate partne	er or forced sex	, lifetime ⁿ					
Yes	1.41	(1.29-1.54)	12.67	(9.00- 16.35)	1.99	(1.67-2.36)	30.44	(20.20 - 40.69)
No	0.82	(0.77-0.87)	-12.67	(-16.359.00)	0.56	(0.43-0.73)	-30.44	(-40.6920.20)
Experiences of physical violence by an	intimate partne	er or forced sex	, past 12 mo	onths ⁿ				
Yes	1.21	(0.85-1.72)	1.07	(-1.07-3.21)	3.67	(2.20-6.10)	13.62	(4.37 - 22.87)
No	0.99	(0.97–1.01)	-1.07	(-3.21– 1.07)	0.86	(0.76–0.96)	-13.62	(-22.87– -4.37)
Incarcerated >24 hours, past 12 months	5							
Yes	0.63	(0.32-1.25)	-1.14	(-2.66-0.39)	1.20	(0.37-3.91)	0.60	(-3.77-4.98)
No	1.01	(1.00-1.03)	1.14	(-0.39-2.66)	0.99	(0.95-1.04)	-0.60	(-4.98 - 3.77)

Note. Cisgender males were the referent group for each disparity assessment. Excluded are estimates with a coefficient of variation ≥0.30 and those based on a denominator sample size <30. Associations derived from one or more estimates with an absolute CI width >30, estimates with an absolute CI width between 5 and 30 and a relative CI width >130%, and estimates of 0% or 100% are marked with an asterisk (*) and should be interpreted with caution.

^a Persons were classified as cisgender if sex at birth and gender reported by the person were the same. Persons were classified as transgender if sex at birth and gender reported by the person were different, or if the person chose "transgender" in response to the question about self-identified gender.

b "Good or better self-rated health" defined as rating one's health as good, very good, or excellent (as opposed to poor or fair) at the time of interview.

^c "Unmet need for mental health services from a mental health professional" defined as needing, but not receiving, services from a mental health professional among those who indicated needing mental health services (i.e., receiving or needing but not receiving) during the past 12 months.

d "Unstable housing or homelessness" defined as experiencing unstable housing (i.e., moving in with others due to financial issues, moving 2 or more times, or being evicted) or homelessness (living on the street, in a shelter, in a single-room-occupancy hotel, or in a car) at any time during the past 12 months.

e Unemployed persons included those who reported being unemployed at the time of interview, excluding persons who are unable to work, calculated among all adults with HIV.

f "Hunger/food insecurity" defined as going without food due to lack of money during the past 12 months.

⁹ "Median HIV stigma score" defined as the weighted median score on a 10-item scale ranging from 0 (no stigma) to 100 (high stigma) that measures 4 dimensions of HIV stigma: personalized stigma during the past 12 months, current disclosure concerns, current negative self-image, and current perceived public attitudes about persons living with HIV, measured among persons aged ≥18 years with diagnosed HIV infection living in the United States and Puerto Rico. The HIV stigma scale used for this indicator is available at https://www.ncbi.nlm.nih.gov/pmc/articles/PMC2001277/ [Wright K, Naar-King S, Lam P, Templin T, Frey M. Stigma scale revised: reliability and validity of a brief measure of stigma for HIV+ youth. *J Adolesc Health* 2007;40(1):96–98].

h Poverty guidelines defined by HHS. For persons interviewed in a particular calendar year, the HHS poverty guidelines from the previous year were used. For instance, the 2020 guidelines were used for persons interviewed in 2021. More information regarding HHS poverty guidelines can be found at https://aspe.hhs.gov/frequently-asked-questions-related-poverty-guidelines-and-poverty.

Persons could select more than 1 response for health insurance or coverage. Mutually exclusive categories are presented based on responses. Private coverage defined as receiving health insurance through a person's employer or a family member's employer or purchased through the Health Insurance Marketplace or directly from a health insurance company. Public insurance includes Medicaid, Medicare, VA, RWHAP, or other city, county, or state-funded insurance. Uninsured or RWHAP only category includes those who did not report having any insurance, or received RWHAP assistance only, without coverage through any other insurance categories.

Self-reported, and includes physical, mental, and emotional disabilities.

^k Represents those who needed, but did not receive, ≥1 HIV ancillary services, among all persons.

Represents those who needed transportation assistance, regardless of whether that assistance was received, among all persons.

m HIV health care discrimination among those who received HIV care during the previous 12 months was assessed based on seven forms of discrimination, including: being treated with less courtesy than other persons, being treated with less respect than other persons, receiving poorer service than others, having a doctor or nurse act as if he or she believed they were not smart, having a doctor or nurse act as if he or she were afraid of them, having a doctor or nurse act as if he or she were better than them, and having a doctor or nurse not listen to what they were saying. Respondents were asked if they experienced these forms of discrimination never, rarely, some of the time, most of the time, or all the time. Respondents who reported experiencing at least one form of health care discrimination rarely, some of the time, or all of time were considered to have experienced discrimination in an HIV health care setting.

Physical violence by an intimate partner defined as ever being slapped, punched, shoved, kicked, choked, or otherwise physically hurt by a romantic or sexual partner. Forced sex defined as ever being threatened with harm or physically forced to have unwanted vaginal, anal, or oral sex.

Table 4a. Individual-level social determinants of health and quality of life among adults with diagnosed HIV, by sexual orientation—Medical Monitoring Project, United States, 2021

		Bisex	ual	Ga	y or le	sbian	Н	eterose	exual		Othe	r
	n	col %	95% CI	n	•	95% CI	n	col %	95% CI	n	col %	95% CI
Total (row %)	382	10.4	(8.9–11.9)	1,691	43.3	(38.6–47.9)	1,733	42.7	(38.9–46.5)	126	3.6	(3.0-4.1)
National HIV/AIDS Strategy indicators related to so	ocial dete	rminan	ts of health	1								
Quality of life												
Physical health												
Self-reported health status ^a												
Good, very good, excellent	260	71.0	(65.7–76.2)	1,286		(74.5–78.2)	1,044		(58.7–64.7)	76		(49.8–68.2)
Poor, fair	118	29.0	(23.8–34.3)	403	23.6	(21.8–25.5)	684	38.3	(35.3–41.3)	50	41.0	(31.8–50.2)
Mental or emotional health								. h				
Unmet needs for services from a mental health p			-						(400000			
Yes	45		(20.7–43.2)	180		(23.2–32.5)			(18.8–32.8)	40	— 72.2*	/F4 0 0F 4\
No	113	68.1	(56.8–79.3)	499	12.2	(67.5–76.8)	457	74.2	(67.2–81.2)	42	13.3"	(51.2–95.4)
Structural or subsistence factors	-41C											
Unstable housing or homelessness, past 12 more Yes	ntns* 88	22.7	(18.0–29.5)	231	1/15	(12.3–16.6)	287	17 N	(15.2–18.8)	38	30 1	(20.3–39.9)
No	294		(70.5–82.0)	1,459		(83.4–87.7)	1,444		(81.2–84.8)	88		(60.1–79.7)
Unemployment ^d	234	10.0	(10.0-02.0)	1,700	00.0	(00.4-01.1)	1,777	00.0	(01.2-04.0)	00	05.5	(00.1–73.7)
Yes	55	14.3	(10.6–17.9)	247	15.2	(12.9–17.5)	228	13.8	(11.6–16.0)	25	22.2	(14.3–30.1)
No	326	85.7	(82.1–89.4)	1,442		(82.5–87.1)	1,503		(84.0–88.4)	100		(69.9–85.7)
Hunger or food insecurity, past 12 months ^e			,			,			,			,
Yes	67	15.8	(12.1-19.6)	219		(12.0-15.9)	276	16.4	(14.5-18.2)	32	24.9	(14.6-35.3)
No	312		(80.4-87.9)	1,468		(84.1–88.0)	1,456		(81.8-85.5)	94		(64.7-85.4)
HIV stigma, past 12 months (n, median score, 95% (CI) ^f 353	29.9	(27.0–32.8)	1,614	26.9	(25.3–28.5)	1,588	30.2	(28.1–32.2)	120	32.6	(25.1–40.1)
Other factors important for health, including those	that affe	ct qual	ity of life									
Economic stability		•	•									
Household income with respect to poverty guideli	nes ^g											
<100% FPL	125	34.6	(28.0-41.3)	386	25.6	(21.7–29.4)	792	51.5	(44.6-58.5)	47	38.4	(26.2–50.6)
100%–138% FPL	42	13.4	(8.9–18.0)	140	9.0	(7.2–10.7)	179	11.7	(9.0–14.5)	_	_	_
139%-399% FPL	141	42.8	(36.7–48.8)	629	40.7	(37.7–43.7)	462	30.9		39	36.4	(24.5-48.3)
≥400% FPL	34	9.2	(6.2–12.1)	405	24.8	(21.0-28.5)	93	5.9	(4.4-7.3)	_	_	_
Education												
Educational attainment												
Less than high school diploma	39	10.3	(7.3-13.3)	106	7.0	(5.2-8.7)	420	24.3	(21.0-27.6)	_	_	_
High school diploma or equivalent	101	24.5	(20.4–28.7)	305	18.8	(16.7–20.8)	580	33.0	(30.5–35.5)	35	28.2	(21.1-35.4)
Greater than high school	242	65.2	(60.4-69.9)	1,279	74.2	(71.9–76.6)	728	42.7	(39.0-46.4)	82	60.8	(48.3-73.4)
Health-related factors												
Health insurance or coverage (including Ryan Whi	te HIV/AI	DS Pro	gram [RWH	IAP] as	sistano	e), past 12	months	h				
Any private	153	41.6	(34.5–48.8)	883		(48.0–56.3)	514		(27.6-34.9)	46	40.0	(27.2-52.8)
Public only, excluding RWHAP only	193	50.6	(41.6–59.7)	639	37.8	(32.7–43.0)	1,061	59.4	(53.4–65.4)	68	51.0	(39.4–62.6)
Uninsured or RWHAP only	29	7.7	(3.9–11.5)	141	10.0	(6.1–13.9)	124	9.4	(6.0-12.7)	_	_	_
Received RWHAP assistance, past 12 months												
Yes	187		(40.0–55.6)	820		(44.8–51.1)	802		(42.4–49.9)	63		(36.4–54.4)
No	178	52.2	(44.4–60.0)	817	52.0	(48.9–55.2)	848	53.8	(50.1–57.6)	59	54.6	(45.6–63.6)
Confidence in completing health forms												
Somewhat, a little bit, not at all	89		(16.9–27.1)	285		(14.9–19.3)	520		(26.8–33.8)	39		(26.8–46.8)
Extremely, quite a bit	291	78.0	(72.9–83.1)	1,403	82.9	(80.7–85.1)	1,205	69.7	(66.2–73.2)	87	63.2	(53.2–73.2)
Has a disability	_						_					
Yes	160		(34.3–48.0)	546		(29.4–34.4)	870		(44.8–51.6)	72		(44.7–61.6)
No	221	58.9	(52.0–65.7)	1,143	68.1	(65.6–70.6)	858	51.8	(48.4–55.2)	54	46.8	(38.4–55.3)
Any unmet HIV ancillary service need, past 12 mor			/// 0 =0 =:		40.5	(00.0. 1= 5:	66.	50.0	(40.0 =0.0)		00.0	/FO O ====
Yes	192		(44.9–58.5)	683		(39.9–45.2)	834		(46.0–53.9)	79		(53.2–72.6)
No	186	48.3	(41.5–55.1)	998	5/.4	(54.8–60.1)	882	50.0	(46.1–54.0)	47	3/.7	(27.4–46.8)

Table 4a. Individual-level social determinants of health and quality of life among adults with diagnosed HIV, by sexual orientation—Medical Monitoring Project, United States, 2021 (cont)

		Bisexu	ıal	Ga	y or le	sbian	Н	eterose	exual		Othe	r
	n	col %	95% CI	n	col %	95% CI	n	col %	95% CI	n	col %	95% CI
Neighborhood and built environment												
Any met or unmet need for transportation assistance	e, past	12 mon	ths ^k									
Yes	114	29.4	(23.4-35.3)	316	18.3	(16.5-20.1)	606	33.9	(31.6-36.2)	52	40.7	(31.9-49.4)
No	264	70.6	(64.7–76.6)	1,362	81.7	(79.9–83.5)	1,106	66.1	(63.8-68.4)	73	59.3	(50.6-68.1)
Social and community context												
HIV health care discrimination among persons who	receive	d care,	past 12 mo	nths								
Yes	89		(18.3–28.4)	352	22.1	(19.3-24.9)	323	20.0	(16.8-23.2)	40	34.2	(24.7-43.7)
No	261	76.7	(71.6–81.7)	1,229	77.9	(75.1–80.7)	1,267	80.0	(76.8–83.2)	74	65.8	(56.3-75.3)
Speaks English less than well												
Yes	20	4.5	(2.0-6.9)	_	_	_	208	11.0	(6.5-15.4)	_	_	_
No	362	95.5	(93.1–98.0)	1,610	95.4	(91.9-98.9)	1,525	89.0	(84.6–93.5)	122	97.2	(94.7-99.8)
Experiences of physical violence by an intimate part	ner or	forced s	sex, lifetime	e ^m								
Yes	127	33.0	(27.3-38.6)	596	38.3	(35.7-40.9)	502	29.8	(26.6-33.0)	53	48.4	(38.0-58.8)
No	246	67.0	(61.4-72.7)	1,065	61.7	(59.1-64.3)	1,178	70.2	(67.0-73.4)	68	51.6	(41.2-62.0)
Experiences of physical violence by an intimate part	ner or	forced s	sex, past 12	2 month	ıs ^m							
Yes	30	8.2	(5.2-11.3)	86	6.3	(4.6 - 8.0)	55	4.1	(2.8-5.5)	_	_	_
No	340	91.8	(88.7–94.8)	1,569	93.7	(92.0-95.4)	1,612	95.9	(94.5–97.2)	110	89.9	(83.6-96.2)
Incarcerated >24 hours, past 12 months												
Yes	17	4.9	(2.2-7.5)	31	2.2	(1.4-3.0)	37	2.6	(1.7-3.4)	_	_	_
No	365	95.1	(92.5-97.8)	1,659	97.8	(97.0-98.6)	1,692	97.4	(96.6 - 98.3)	120	92.7	(87.0-98.3)

Note. Unweighted numbers and weighted percentages are presented. CIs incorporate weighted percentages. Excluded are estimates with a coefficient of variation ≥0.30 and those based on a denominator sample size <30. Estimates with an absolute CI width >30, estimates with an absolute CI width between 5 and 30 and a relative CI width >130%, and estimates of 0% or 100% are marked with an asterisk (*) and should be interpreted with caution.

a "Good or better self-rated health" defined as rating one's health as good, very good, or excellent (as opposed to poor or fair) at the time of interview.

b "Unmet need for mental health services from a mental health professional" defined as needing, but not receiving, services from a mental health professional among those who indicated needing mental health services (i.e., receiving or needing but not receiving) during the past 12 months.

^c "Unstable housing or homelessness" defined as experiencing unstable housing (i.e., moving in with others due to financial issues, moving 2 or more times, or being evicted) or homelessness (living on the street, in a shelter, in a single-room–occupancy hotel, or in a car) at any time during the past 12 months.

d Unemployed persons included those who reported being unemployed at the time of interview, excluding persons who are unable to work, calculated among all adults with HIV.

e "Hunger/food insecurity" defined as going without food due to lack of money during the past 12 months.

f "Median HIV stigma score" defined as the weighted median score on a 10-item scale ranging from 0 (no stigma) to 100 (high stigma) that measures 4 dimensions of HIV stigma: personalized stigma during the past 12 months, current disclosure concerns, current negative self-image, and current perceived public attitudes about persons living with HIV, measured among persons aged ≥18 years with diagnosed HIV infection living in the United States and Puerto Rico. The HIV stigma scale used for this indicator is available at https://www.ncbi.nlm.nih.gov/pmc/articles/PMC2001277/ [Wright K, Naar-King S, Lam P, Templin T, Frey M. Stigma scale revised: reliability and validity of a brief measure of stigma for HIV+ youth. *J Adolesc Health* 2007;40(1):96–98].

⁹ Poverty guidelines defined by HHS. For persons interviewed in a particular calendar year, the HHS poverty guidelines from the previous year were used. For instance, the 2020 guidelines were used for persons interviewed in 2021. More information regarding HHS poverty guidelines can be found at https://aspe.hhs.gov/frequently-asked-questions-related-poverty-guidelines-and-poverty.

h Persons could select more than 1 response for health insurance or coverage. Mutually exclusive categories are presented based on responses. Private coverage defined as receiving health insurance through a person's employer or a family member's employer or purchased through the Health Insurance Marketplace or directly from a health insurance company. Public insurance includes Medicare, VA, RWHAP, or other city, county, or state-funded insurance. Uninsured or RWHAP only category includes those who did not report having any insurance, or received RWHAP assistance only, without coverage through any other insurance categories.

¹ Self-reported, and includes physical, mental, and emotional disabilities.

Represents those who needed, but did not receive, ≥1 HIV ancillary services, among all persons.

k Represents those who needed transportation assistance, regardless of whether that assistance was received, among all persons.

HIV health care discrimination among those who received HIV care during the previous 12 months was assessed based on seven forms of discrimination, including: being treated with less courtesy than other persons, being treated with less respect than other persons, receiving poorer service than others, having a doctor or nurse act as if he or she believed they were not smart, having a doctor or nurse act as if he or she were afraid of them, having a doctor or nurse act as if he or she were better than them, and having a doctor or nurse not listen to what they were saying. Respondents were asked if they experienced these forms of discrimination never, rarely, some of the time, most of the time, or all the time. Respondents who reported experiencing at least one form of health care discrimination rarely, some of the time, most of the time, or all of time were considered to have experienced discrimination in an HIV health care setting.

^m Physical violence by an intimate partner defined as ever being slapped, punched, shoved, kicked, choked, or otherwise physically hurt by a romantic or sexual partner. Forced sex defined as ever being threatened with harm or physically forced to have unwanted vaginal, anal, or oral sex.

No. 36

Table 4b. Relative and absolute differences in individual-level social determinants of health and quality of life among adults with diagnosed HIV, by sexual orientation—Medical Monitoring Project, United States, 2021

	Bise	xual vs. gay	or lesbi	an persons	Heteros	sexual vs. gay	or les	sbian persons			•	other sexual pian persons
	PR	95% CI	PD	95% CI	PR	95% CI	PD	95% CI	PR	95% CI	PD	95% CI
Total (row %)												
National HIV/AIDS Strategy indicators related to social determinants of	of health											
Quality of life												
Physical health												
Self-reported health status ^a Good, very good, excellent	0.93	(0.86–1.01)	-5.38	(-11.26– 0.49)	0.81	(0.76–0.85) -	14 68	(-18.31– -11.04)	0.77	(0.66-0.91)	-17 38	(-26.887.89)
Poor, fair	1.23	(1.00–1.51)	5.38	(-0.49– 11.26)	1.62		14.68	(11.04– 18.31)	1.74	(1.36–2.21)		(7.89– 26.88)
Mental or emotional health		, ,		,		,		,		,		,
Unmet needs for services from a mental health professional among					0.00	(0.70, 4.40)	0.04	(0.50, 4.57)	0.00*	(0.40.000)	4 40*	(00.07.04.04)
Yes No	1.15 0.94	(0.81–1.64) (0.80–1.11)		(-7.04– 15.28) (-15.28– 7.04)	0.93 1.03	(0.72–1.19) (0.94–1.12)	-2.01 2.01	(-8.58– 4.57) (-4.57– 8.58)	0.96* 1.02*	(0.42–2.20) (0.75–1.37)	-1.13* 1.13*	(-23.27– 21.01) (-21.01– 23.27)
Structural or subsistence factors	0.54	(0.00 1.11)	7.12	(10.20 7.04)	1.00	(0.54 1.12)	2.01	(4.07 0.00)	1.02	(0.70 1.07)	1.10	(21.01 20.21)
Unstable housing or homelessness, past 12 months ^c												
Yes	1.64	(1.28–2.11)	9.26	(3.65–14.87)	1.17	(0.97–1.42)	2.52	(-0.38-5.43)	2.08		15.65	(5.77–25.52)
No Unemployment ^d	0.89	(0.83–0.96)	-9.26	(-14.87– -3.65)	0.97	(0.94–1.00)	-2.52	(-5.43– 0.38)	0.82	(0.71–0.94)	-15.65	(-25.52– -5.77)
Yes	0.94	(0.72-1.22)	-0.95	(-4.70- 2.80)	0.91	(0.72-1.14)	-1.41	(-4.69- 1.87)	1.46	(0.96-2.23)	7.00	(-1.82- 15.82)
No	1.01	(0.97–1.06)	0.95	(-2.80– 4.70)	1.02	(0.98–1.06)	1.41	(-1.87– 4.69)	0.92	(0.82–1.03)	-7.00	(-15.82– 1.82)
Hunger or food insecurity, past 12 months ^e Yes	1.14	(0.88–1.46)	1.91	(-1.99– 5.81)	1.17	(0.99–1.39)	2.44	(-0.06– 4.94)	1.79	(1.17–2.73)	11 01	(0.72–21.30)
No	0.98	(0.93–1.40)	-1.91	(-5.81– 1.99)	0.97		-2.44	(-4.94– 0.06)	0.87	(0.76–1.00)		(-21.30– -0.72)
HIV stigma, past 12 months (n, median score, 95% CI) ^f		,		,		,		,		,		,
Other factors important for health, including those that affect quality of	of life											
Economic stability												
Household income with respect to poverty guidelines ^g												
<100% FPL	1.35	(1.05–1.74)	9.03	(1.17–16.89)	2.01		25.95	(20.18–31.72)	1.50	(1.09–2.06)	12.81	(0.92-24.70)
100%–138% FPL 139%–399% FPL	1.50 1.05	(1.02–2.22) (0.91–1.22)	4.49 2.09	(-0.37– 9.35) (-4.21– 8.39)	1.31 0.76	(1.07–1.60) (0.65–0.89)	2.79 -9.82	(0.53– 5.05) (-15.17– -4.47)	2.00 0.89	(0.91–4.36) (0.65–1.23)	8.92 -4.27	(-4.82– 22.65) (-15.78– 7.23)
≥400% FPL	0.37		-15.60	(-19.29– -11.91)	0.24	(0.19–0.29) -		(-22.15– -15.69)	0.30	(0.12–0.70)		(-24.5210.38)
Education												
Educational attainment												
Less than high school diploma	1.47	(1.02–2.13)	3.31	(-0.04– 6.66)	3.48	(2.84–4.25)		(14.59–20.01)	1.56	(0.69–3.56)	3.93 9.47	(-4.88– 12.74)
High school diploma or equivalent Greater than high school	1.31 0.88	(1.09–1.56) (0.81–0.95)	5.77 -9.09	(1.62– 9.93) (-14.20– -3.98)	1.76 0.58	(1.54–2.01) (0.53–0.63) -3	14.22 31.52	(10.93– 17.52) (-35.74– -27.31)	1.50 0.82	(1.13–2.00) (0.67–1.00)		(1.84– 17.09) (-25.25– -1.54)
Health-related factors	0.00	(0.0.00)	0.00	(: ::=0 0::00)	0.00	(0.00 0.00)		(••,	0.02	(0.07		(20.20)
Health insurance or coverage (including Ryan White HIV/AIDS Program	m [RWHAP] assista	ance), past 1	2 month	ı s h								
Any private	0.80	(0.65-0.98)	-10.47	(-19.521.42)	0.60		20.89	(-25.0216.77)	0.77	(0.55-1.07)		(-25.80- 1.59)
Public only, excluding RWHAP only	1.34	(1.11–1.61)	12.80 -2.33	(3.98–21.61)	1.57 0.93		21.55 -0.66	(16.95–26.15)	1.35 0.90	(1.08–1.68)	13.12 -1.01	(2.19–24.04)
Uninsured or RWHAP only Received RWHAP assistance, past 12 months	0.77	(0.48–1.22)	-2.33	(-6.29– 1.64)	0.93	(0.69–1.27)	-0.00	(-3.67– 2.36)	0.90	(0.47–1.73)	-1.01	(-7.03– 5.01)
Yes	1.00	(0.85-1.17)	-0.19	(-7.78– 7.41)	0.96	(0.88-1.06)	-1.80	(-6.16-2.55)	0.95	(0.77-1.16)	-2.54	(-11.76–6.69)
No	1.00	(0.87–1.16)	0.19	(-7.41– 7.78)	1.03	(0.95–1.12)	1.80	(-2.55– 6.16)	1.05	(0.88–1.24)	2.54	(-6.69– 11.76)
Confidence in completing health forms		(0.00 (.0=)		(0.55, (0.00)		(4.40.0.41)		(0.0- (-0-)	o	(4.00.000)		(0.74.00.00)
Somewhat, a little bit, not at all Extremely, quite a bit	1.29 0.94	(0.99–1.67) (0.88–1.01)	4.89 -4.89	(-0.57– 10.36) (-10.36– 0.57)	1.77 0.84	(1.49–2.11) · (0.79–0.89) - ·		(9.05– 17.35) (-17.35– -9.05)	2.15 0.76	(1.60–2.90) (0.65–0.89)		(9.54– 29.89) (-29.89– -9.54)
Has a disability ⁱ	0.34	(0.00-1.01)	-4.03	(-10.30-0.37)	0.04	(0.13-0.03) -	13.20	(-17.33– -3.03)	0.70	(0.03–0.03)	-13.71	(-23.033.04)
Yes	1.29	(1.09-1.53)	9.27	(2.42- 16.12)	1.51	(1.37–1.67)	16.35	(12.48-20.22)	1.67	(1.41-1.98)	21.29	(12.72-29.87)
No	0.86	(0.77–0.97)	-9.27	(-16.12– -2.42)	0.76	(0.71–0.81)		(-20.22– -12.48)	0.69	(0.57–0.82)	-21.29	(-29.87– -12.72)
Any unmet HIV ancillary service need, past 12 months	4.04	(4.00.4.00)	0.40	(0.00 45.03)	4 4 7	(4.00. 4.00)	7 44	(0.00 40.00)	1 10	(4.04.4.70)	20.25	(0.07.00.00)
Yes No	1.21 0.84	(1.06–1.39) (0.73–0.97)	9.13 -9.13	(2.28– 15.97) (-15.97– -2.28)	1.17 0.87	(1.06–1.30) (0.79–0.96)	7.41 -7.41	(2.62– 12.20) (-12.20– -2.62)	1.48 0.65	(1.24–1.76) (0.49–0.85)	20.35 -20.35	(9.87– 30.83) (-30.83– -9.87)
INO	0.04	(0.73-0.37)	-5.13	(-10.012.20)	0.07	(0.13-0.30)	-1.41	(-12.202.02)	0.00	(0.45-0.05)	-20.00	(-50.055.07)

Table 4b. Relative and absolute differences in individual-level social determinants of health and quality of life among adults with diagnosed HIV, by sexual orientation—Medical Monitoring Project, United States, 2021 (cont)

									Perso	ns who ider	ntify as o	other sexual
	Bise	kual vs. gay	or lesbi	an persons	Heteros	sexual vs. g	ay or les	sbian persons	orienta	ation vs. ga	y or lesk	ian persons
	PR	95% CI	PD	95% CI	PR	95% CI	PD	95% CI	PR	95% CI	PD	95% CI
Neighborhood and built environment												
Any met or unmet need for transportation assistance, past 12 months ^k												
Yes	1.60	(1.28-2.00)	11.03	(4.86 - 17.21)	1.85	(1.65-2.07)	15.56	(12.83-18.28)	2.22	(1.78-2.76)	22.34	(13.74 - 30.93)
No	0.86	(0.79–0.94)	-11.03	(-17.21– -4.86)	0.81	(0.78-0.84)	-15.56	(-18.28– -12.83)	0.73	(0.63-0.84)	-22.34	(-30.9313.74)
Social and community context												
HIV health care discrimination among persons who received care, past 12 month	s											
Yes	1.06	(0.85-1.31)	1.25	(-3.67 - 6.16)	0.91	(0.79 - 1.05)	-2.07	(-5.02- 0.88)	1.55	(1.17-2.05)	12.11	(2.81 - 21.41)
No	0.98	(0.92–1.05)	-1.25	(-6.16– 3.67)	1.03	(0.99–1.07)	2.07	(-0.88– 5.02)	0.84		-12.11	(-21.41– -2.81)
Speaks English less than well				,		· ·						,
Yes	0.98	(0.51-1.88)	-0.10	(-3.08 - 2.88)	2.38	(1.54 - 3.69)	6.35	(4.28 - 8.43)	0.60	(0.19-1.93)	-1.85	(-6.05 - 2.36)
No	1.00	(0.97–1.03)	0.10	(-2.88– 3.08)	0.93	(0.91–0.96)	-6.35	(-8.43– -4.28)	1.02	(0.98–1.07)	1.85	(-2.36– 6.05)
Experiences of physical violence by an intimate partner or forced sex, lifetime ^m		,		,		,		,		,		, ,
Yes	0.86	(0.71-1.04)	-5.37	(-11.91– 1.17)	0.78	(0.69 - 0.88)	-8.49	(-12.354.64)	1.26	(1.01 - 1.58)	10.08	(-0.47-20.64)
No	1.09	(0.98–1.20)	5.37	(-1.17– 11.91)	1.14	(1.07–1.21)	8.49	(4.64– 12.35)	0.84		-10.08	(-20.64– 0.47)
Experiences of physical violence by an intimate partner or forced sex, past 12 m	onths ^m	,		,		,		,		,		,
Yes	1.31	(0.79-2.15)	1.93	(-1.84- 5.70)	0.66	(0.46 - 0.94)	-2.17	(-4.020.32)	1.60	(0.79 - 3.23)	3.78	(-2.90-10.45)
No	0.98	(0.94–1.02)	-1.93	(-5.70– 1.84)	1.02	(1.00–1.04)	2.17	(0.32–4.02)	0.96	(0.89–1.03)	-3.78	(-10.45– 2.90)
Incarcerated >24 hours, past 12 months		, ,		,		, ,		, ,		. ,		, ,
Yes	2.25	(1.19-4.26)	2.71	(-0.01-5.44)	1.19	(0.75-1.91)	0.42	(-0.69- 1.53)	3.37	(1.32 - 8.59)	5.14	(-0.75-11.03)
No	0.97	(0.94–1.00)	-2.71	(-5.44– 0.01)	1.00	(0.98–1.01)	-0.42	(-1.53– 0.69)	0.95	(0.89–1.01)	-5.14	(-11.03– 0.75)
Abbreviations: PD prevalence ratio: PD prevalence difference: CL confidence interval: EDL fede	ral payort	v loval: D\N/UA	D Dyan I	Mhito HIV/AIDS Dro	aram: UUC	Donartmont	of Hoalth	and Human Sanicas	footpotos	, ,	orane Adı	

Note. Gay or lesbian persons were the referent group for each disparity assessment. Excluded are estimates with a coefficient of variation ≥0.30 and those based on a denominator sample size <30. Associations derived from one or more estimates with an absolute CI width >30, estimates with an absolute CI width between 5 and 30 and a relative CI width >130%, and estimates of 0% or 100% are marked with an asterisk (*) and should be interpreted with caution.

- a "Good or better self-rated health" defined as rating one's health as good, very good, or excellent (as opposed to poor or fair) at the time of interview.
- b "Unmet need for mental health services from a mental health professional" defined as needing, but not receiving, services from a mental health professional among those who indicated needing mental health services (i.e., receiving or needing but not receiving) during the past 12 months.
- ^C "Unstable housing or homelessness" defined as experiencing unstable housing (i.e., moving in with others due to financial issues, moving 2 or more times, or being evicted) or homelessness (living on the street, in a shelter, in a single-room–occupancy hotel, or in a car) at any time during the past 12 months.
- d Unemployed persons included those who reported being unemployed at the time of interview, excluding persons who are unable to work, calculated among all adults with HIV.
- ^e "Hunger/food insecurity" defined as going without food due to lack of money during the past 12 months.
- f "Median HIV stigma score" defined as the weighted median score on a 10-item scale ranging from 0 (no stigma) to 100 (high stigma) that measures 4 dimensions of HIV stigma: personalized stigma during the past 12 months, current disclosure concerns, current negative self-image, and current perceived public attitudes about persons living with HIV, measured among persons aged ≥ 18 years with diagnosed HIV infection living in the United States and Puerto Rico. The HIV stigma scale used for this indicator is available at https://www.ncbi.nlm.nih.gov/pmc/articles/PMC2001277/ [Wright K, Naar-King S, Lam P, Templin T, Frey M. Stigma scale revised: reliability and validity of a brief measure of stigma for HIV+ youth. *J Adolesc Health* 2007;40(1):96–98].
- ⁹ Poverty guidelines defined by HHS. For persons interviewed in a particular calendar year, the HHS poverty guidelines from the previous year were used. For instance, the 2020 guidelines were used for persons interviewed in 2021. More information regarding HHS poverty guidelines can be found at https://aspe.hhs.gov/frequently-asked-questions-related-poverty-guidelines-and-poverty.
- h Persons could select more than 1 response for health insurance or coverage. Mutually exclusive categories are presented based on responses. Private coverage defined as receiving health insurance through a person's employer or a family member's employer or purchased through the Health Insurance Marketplace or directly from a health insurance company. Public insurance includes Medicaid, Medicare, VA, RWHAP, or other city, county, or state-funded insurance. Uninsured or RWHAP only category includes those who did not report having any insurance, or received RWHAP assistance only, without coverage through any other insurance categories.
- Self-reported, and includes physical, mental, and emotional disabilities.
- Represents those who needed, but did not receive, ≥1 HIV ancillary services, among all persons.
- k Represents those who needed transportation assistance, regardless of whether that assistance was received, among all persons.
- HIV health care discrimination among those who received HIV care during the previous 12 months was assessed based on seven forms of discrimination, including: being treated with less courtesy than other persons, being treated with less respect than other persons, receiving poorer service than others, having a doctor or nurse act as if he or she believed they were not smart, having a doctor or nurse act as if he or she were afraid of them, having a doctor or nurse act as if he or she were better than them, and having a doctor or nurse not listen to what they were saying. Respondents were asked if they experienced these forms of discrimination never, rarely, some of the time, most of the time. Respondents who reported experiencing at least one form of health care discrimination rarely, some of the time, most of the time, or all of time were considered to have experienced discrimination in an HIV health care setting.
- m Physical violence by an intimate partner defined as ever being slapped, punched, shoved, kicked, choked, or otherwise physically hurt by a romantic or sexual partner. Forced sex defined as ever being threatened with harm or physically forced to have unwanted vaginal, anal, or oral sex.

Table 5a. Individual-level social determinants of health and quality of life among adults with diagnosed HIV, by racial/ethnic identity—Medical Monitoring Project, United States, 2021

	An	nerican Ind							9110000 111				Nat	ive Haw	/aiian/	J		Timou Otut	-,		
-		Alaska Nati			Asian				American		panic/L				Islander		White			ultiple	
T + 1/ 0/)	n	col % 9	5% CI	n	col %	95% CI	n 4 500	col %		n	col %		n	col %	95% CI	n	col %		n 470	col %	
Total (row %)	_	-		42	1.4	(0.8–1.9)	1,592	41.1	(32.0–50.2)	992	24.2	(16.8–31.6)	_	_	_	1,165	28.0	(22.4–33.5)	179	4.7	(3.7–5.8)
National HIV/AIDS Strategy indicators rela	ated t	o social de	eterminan	ts of h	ealth																
Quality of life																					
Physical health Self-reported health status ^b																					()
Good, very good, excellent	_	_	_	37	86.9	(74.1–99.6)	1,041	66.6	(64.3–68.9)	653	68.1	(64.4–71.7)	_	_	_	846	72.7	(69.9–75.5)	107	65.5	(58.2–72.8)
Poor, fair	_	_	_	_	_	_	543	33.4	(31.1–35.7)	333	31.9	(28.3–35.6)	_	_	_	312	27.3	(24.5–30.1)	70	34.5	(27.2–41.8)
Mental or emotional health Unmet needs for services from a menta	ıl haal	lth profess	ional amo	na th	osa wha	noodod s	onvices	nact '	12 monthe ^C												
Yes		profess		y u	— WIIC		149	32.2	(26.3–38.1)	86	20.9	(12.5-29.3)	_	_	_	121	27.8	(22.8-32.7)	23	26.2	(17.4-35.0)
No	_	_	_	_	_	_	350	67.8	(61.9–73.7)	347	79.1	(70.7–87.5)	_	_	_	358	72.2	(67.3–77.2)	56	73.8	(65.0–82.6)
Structural or subsistence factors									,			,						,			,
Unstable housing or homelessness, pa	st 12	monthsd																			
Yes	_	_	_	_			297	19.7	(17.4–22.0)	172	16.1	(13.3-18.8)	_	_	_	121	12.1	(9.5–14.8)	49	28.2	(18.8–37.6)
No	_	_	_	36	87.9	(75.1–100)	1,290	80.3	(78.0–82.6)	817	83.9	(81.2–86.7)	_	_	_	1,039	87.9	(85.2–90.5)	129	71.8	(62.4–81.2)
Unemployment ^e Yes							240	16.2	(13.8–18.5)	141	14.7	(11.3–18.2)				135	117	(9.6–13.8)	36	19.3	(14.1–24.6)
No	_	_	_	36	83.0	(68.5–97.6)	1,345	83.8	(81.5–86.2)	846	85.3	(81.8–88.7)	_	_	_	1,024	11.7 88.3	(86.2–90.4)	142	80.7	(75.4–85.9)
Hunger or food insecurity, past 12 mon	ths ^f			00	00.0	(00.0 01.0)	1,010	00.0	(01.0 00.2)	0.0	00.0	(01.0 00.1)				1,021	00.0	(00.2 00.1)		00.1	(10.1 00.0)
Yes	_	_	_	_	_	_	239	15.3	(13.5-17.1)	191	19.3	(16.4-22.2)	_	_	_	116	11.7	(9.6-13.7)	52	26.7	(19.0-34.5)
No	_	_	_	41	94.3	(83.2–100)	1,345	84.7	(82.9–86.5)	797	80.7	(77.8–83.6)	_	_	_	1,044	88.3	(86.3–90.4)	125	73.3	(65.5–81.0)
HIV stigma, past 12 months (n, median	_	_	_	35	33.1	(25.1–41.2)	1,476	27.8	(25.9–29.8)	916	31.5	(29.8–33.3)	_	_	_	1,096	27.1	(24.6–29.6)	166	33.6	(31.1–36.2)
score, 95% CI) ^g																					
Other factors important for health, includ	ing th	nose that at	ffect quali	ity of I	ife																
Economic stability																					
Household income with respect to povert	y gui	delines ^h																			
<100% FPL	_	_	_	_	_	_	618	44.9	(38.6-51.1)	427	45.6	(38.0-53.1)	_	_	_	249	23.7	(20.1-27.2)	62	39.4	(28.7-50.2)
100%–138% FPL	_	_	_	_		(00.0.70.4)	153	11.0	(7.7–14.2)	90	9.7	(7.9–11.6)	_	_	_	116	11.5	(8.1–14.9)	14	8.2	(3.5–12.9)
139%–399% FPL ≥400% FPL	_	_	_	19	52.6*	(32.8–72.4)	486 127	35.2 9.0	(31.6–38.7)	284 85	34.9 9.8	(28.8–41.0)	_	_	_	423 298	38.6 26.2	(35.6–41.5) (22.6–29.9)	61	39.3	(31.3–47.2)
	_	_	_	_	_	_	121	9.0	(6.8–11.2)	00	9.0	(6.3–13.2)	_	_	_	290	20.2	(22.0–29.9)	_	_	_
Education																					
Educational attainment Less than high school diploma							270	17.0	(13.8–20.3)	243	25.1	(19.3–31.0)				48	4.5	(2.9–6.1)			
High school diploma or equivalent	_	_	_	_	_	_	513	32.1	(29.5–34.8)	244	23.1	(19.6–26.6)	_	_	_	230	19.9	(16.6–23.1)	40	23.7	(16.1–31.2)
Greater than high school	_	_	_	32	79.3	(66.2-92.3)	802	50.8	(47.2–54.5)	499	51.8	(47.0–56.6)	_	_	_	884	75.6	(72.4–78.9)	118	66.1	(53.6–78.6)
Health-related factors						7	- '		/		-	,						/	-	- '	/
Health insurance or coverage (including I	Rvan '	White HIV/	AIDS Pro	gram [RWHAF	Pl assistan	ce), nas	st 12 m	onths ⁱ												
Any private		_		22		(27.4–68.3)	571	37.7	(34.4–41.1)	323	35.2	(29.8-40.7)	_	_	_	608	52.0	(48.4-55.6)	78	43.1	(28.5-57.8)
Public only, excluding RWHAP only	_	_	_	_	_	·	833	50.1	(43.6–56.6)	543	52.7	(42.9–62.5)	_	_	_	501	44.2	(40.2–48.2)	84	51.5	(38.8–64.2)
Uninsured or RWHAP only	_	_	_	_	_	_	157	12.1	(7.8–16.5)	103	12.1	(6.5–17.6)	_	_	_	39	3.8	(1.9–5.7)	_	_	_
Received RWHAP assistance, past 12 mo	nths			00	-,	(00.4.=0.5)		44.0	(40.0 40.0)			(40.0.04.5)					40.0	(00.4.40.0)		50.	(40.0.00.0
Yes	_	_	_	20		(26.4–76.6)	740	44.9	(40.9–49.0)	532	55.1	(48.6–61.5)	_	_	_	497	42.2	(36.1–48.3)	94	52.6	(42.3–63.0)
No	_	_	_	21	4ŏ.5^	(23.4–73.6)	797	55.1	(51.0–59.1)	389	44.9	(38.5–51.4)	_	_	_	635	57.8	(51.7–63.9)	74	47.4	(37.0–57.7)
Confidence in completing health forms Somewhat, a little bit, not at all			_			_	379	25.4	(23.1–27.6)	316	31.4	(27.7–35.0)			_	191	16.2	(13.4–19.1)	50	23.7	(16.4–31.0)
Extremely, quite a bit	_	_	_	33	80 2*	(64.1–96.4)	1,204	74.6	(72.4–76.9)	667		(65.0–72.3)	_	_	_	967		(80.9–86.6)	128	76.3	(69.0–83.6)
Has a disability ^j				55	00. <u>L</u>	(3 00.1)	.,_0 .	. 1.0	(12.1.10.0)	551	55.5	(00.0 12.0)				301	55.5	(00.0 00.0)	.20	. 5.5	(00.0 00.0)
Yes	_	_	_	_	_	_	655	39.7	(36.6-42.7)	441	41.8	(37.5-46.0)	_	_	_	461	39.7	(36.0-43.4)	94	53.7	(47.3-60.1)
No	_	_	_	32	75.3*	(58.8-91.8)	931	60.3	(57.3–63.4)	547	58.2	(54.0–62.5)	_	_	_	697	60.3		84	46.3	(39.9–52.7)
Any unmet HIV ancillary service need, pa	st 12	months ^k				,												*			
Yes	_	_	_	19		(30.8–69.2)	781	50.6	(45.4–55.9)	450	46.5	(40.9-52.0)	_	_	_	442	40.8		111	65.0	
No	_	_	_	23	50.0*	(30.8–69.2)	790	49.4	(44.1–54.6)	533	53.5	(48.0–59.1)	_	_	_	713	59.2	(54.9–63.4)	67	35.0	(22.5–47.6)

Table 5a. Individual-level social determinants of health and quality of life among adults with diagnosed HIV, by racial/ethnic identity—Medical Monitoring Project, United States, 2021 (cont)

-	Δm	erican I	ndian/										Na	tive Haw	vaiian/						
		laska Na			Asia	1	Black/A	African	American	His	panic/L	atino ^a			Islander		Whit	e	М	ultiple r	aces
-	n	col %		n	col %		n	col %		n	•	95% CI	n	col %		n	col %		n	_	95% CI
Neighborhood and built environment																					
Any met or unmet need for transportation	n assis	stance. r	nast 12 mo	nths																	
Yes	_	—	_		_	_	536	32.6	(30.0-35.3)	279	26.5	(23.2-29.9)	_	_	_	205	18.4	(14.9-21.8)	70	34.6	(28.0-41.3)
No	_	_	_	35	84.0	(70.7-97.3)		67.4	(64.7–70.0)	705	73.5	(70.1–76.8)	_	_	_	946	81.6	(78.2–85.1)	107	65.4	(58.7–72.0)
Social and community context						,			,			, ,						,			,
HIV health care discrimination among per	rsons	who rec	eived care	. past	12 mont	:hs ^m															
Yes	_	_	_	, i —	_	_	297	19.3	(15.8-22.8)	204	22.3	(19.2-25.3)	_	_	_	255	24.4	(21.1-27.7)	49	29.6	(18.9-40.2)
No	_	_	_	30	94.4	(87.3-100)	1,157	80.7	(77.2–84.2)	710	77.7	(74.7–80.8)	_	_	_	830	75.6	(72.3–78.9)	115	70.4	(59.8–81.1)
Speaks English less than well																					
Yes	_	_	_	_	_	_	31	1.6	(0.9-2.3)	285	26.8	(19.7 - 33.9)	_	_	_	_	_	_	_	_	_
No	_	_	_	38	92.0	(85.5-98.5)	1,557	98.4	(97.7–99.1)	704	73.2	(66.1–80.3)	_	_	_	1,159	99.8	(99.4-100)	174	98.3	(96.7 - 99.9)
Experiences of physical violence by an in	timate	e partne	r or forced	sex, l	ifetime ⁿ																
Yes	_	· —	_	_	_	_	426	28.8	(25.7-31.8)	316	33.8		_	_	_	450	41.2	(37.6-44.9)	85	49.8	(41.8-57.9)
No	_	_	_	34	77.4*	(59.6–95.1)	1,114	71.2	(68.2–74.3)	641	66.2	(62.5–69.9)	_	_	_	695	58.8	(55.1–62.4)	88	50.2	(42.1–58.2)
Experiences of physical violence by an ir	itimate	e partne	r or forced	sex,	oast 12 r	nonths ⁿ															
Yes	_	· —	_	0	0.0*	_	72	6.0	(4.1-7.9)	51	5.5	(4.0-7.0)	_	_	_	38	4.2	(2.2-6.3)	19	13.3	(6.9-19.6)
No	_	_	_	40	100*	(100-100)	1,460	94.0	(92.1–95.9)	900	94.5	(93.0–96.0)	_	_	_	1,099	95.8	(93.7–97.8)	153	86.7	(80.4–93.1)
Incarcerated >24 hours, past 12 months																					
Yes	_	_	_	0	0.0*	_	46	3.4	(2.2-4.6)	19	2.1	(1.1-3.0)	_	_	_	20	2.3	(1.2-3.3)	_	_	_
No	_	_	_	42	100*	(100–100)	1,539	96.6	(95.4–97.8)	969	97.9	(97.0–98.9)	_	_	_	1,141	97.7	(96.7–98.8)	170	93.8	(89.1–98.4)

Note. Unweighted numbers and weighted percentages are presented. Cls incorporate weighted percentages. Excluded are estimates with a coefficient of variation ≥ 0.30 and those based on a denominator sample size < 30. Estimates with an absolute Cl width > 30, estimates with an absolute Cl width between 5 and 30 and a relative Cl width > 130%, and estimates of 0% or 100% are marked with an asterisk (*) and should be interpreted with caution.

- ^a Hispanic or Latino persons can be of any race. Persons are classified in only 1 race/ethnicity category.
- b "Good or better self-rated health" defined as rating one's health as good, very good, or excellent (as opposed to poor or fair) at the time of interview.
- ^C "Unmet need for mental health services from a mental health professional" defined as needing, but not receiving, services from a mental health professional among those who indicated needing mental health services (i.e., receiving or needing but not receiving) during the past 12 months.
- d "Unstable housing or homelessness" defined as experiencing unstable housing (i.e., moving in with others due to financial issues, moving 2 or more times, or being evicted) or homelessness (living on the street, in a shelter, in a single-room-occupancy hotel, or in a car) at any time during the past 12 months.
- e Unemployed persons included those who reported being unemployed at the time of interview, excluding persons who are unable to work, calculated among all adults with HIV.
- f "Hunger/food insecurity" defined as going without food due to lack of money during the past 12 months.
- g "Median HIV stigma score" defined as the weighted median score on a 10-item scale ranging from 0 (no stigma) to 100 (high stigma) that measures 4 dimensions of HIV stigma: personalized stigma during the past 12 months, current disclosure concerns, current negative self-image, and current perceived public attitudes about persons living with HIV, measured among persons aged ≥18 years with diagnosed HIV infection living in the United States and Puerto Rico. The HIV stigma scale used for this indicator is available at https://www.ncbi.nlm.nih.gov/pmc/articles/PMC2001277/ IWright K. Naar-King S. Lam P. Templin T. Frey M. Stigma scale revised: reliability and validity of a brief measure of stigma for HIV+ youth. *J Adolesc Health* 2007:40(1):96–981.
- h Poverty guidelines defined by HHS. For persons interviewed in a particular calendar year, the HHS poverty guidelines from the previous year were used. For instance, the 2020 guidelines were used for persons interviewed in 2021. More information regarding HHS poverty guidelines can be found at https://aspe.hhs.gov/frequently-asked-questions-related-poverty-guidelines-and-poverty.
- Persons could select more than 1 response for health insurance or coverage. Mutually exclusive categories are presented based on responses. Private coverage defined as receiving health insurance through a person's employer or a family member's employer or purchased through the Health Insurance Marketplace or directly from a health insurance company. Public insurance includes Medicaid, Medicare, VA, RWHAP, or other city, county, or state-funded insurance. Uninsured or RWHAP only category includes those who did not report having any insurance, or received RWHAP assistance only, without coverage through any other insurance categories.
- J Self-reported, and includes physical, mental, and emotional disabilities.
- ^k Represents those who needed, but did not receive, ≥1 HIV ancillary services, among all persons.
- Represents those who needed transportation assistance, regardless of whether that assistance was received, among all persons.
- m HIV health care discrimination among those who received HIV care during the previous 12 months was assessed based on seven forms of discrimination, including: being treated with less courtesy than other persons, being treated with less respect than other persons, receiving poorer service than others, having a doctor or nurse act as if he or she believed they were not smart, having a doctor or nurse act as if he or she were afraid of them, having a doctor or nurse act as if he or she were better than them, and having a doctor or nurse not listen to what they were saying. Respondents were asked if they experienced these forms of discrimination never, rarely, some of the time, most of the time. Respondents who reported experiencing at least one form of health care discrimination rarely, some of the time. The time is not of the time is not of the time. The time is not of the time is not of the time. The time is not of the time is not of the time. The time is not of the time is not of the time. The time is not of the time is not of the time. The time is not of the time is not of the time. The time is not of the time is not of the time is not of the time. The time is not of the time is not of the time is not of the time. The time is not of the time. The time is not of the time. The time is not of the time. The time is not of the time. The time is not of the time is not of time is not of the time.
- ⁿ Physical violence by an intimate partner defined as ever being slapped, punched, shoved, kicked, choked, or otherwise physically hurt by a romantic or sexual partner. Forced sex defined as ever being threatened with harm or physically forced to have unwanted vaginal, anal, or oral sex.

No. 36

Table 5b. Relative and absolute differences in individual-level social determinants of health and quality of life among adults with diagnosed HIV, by racial/ethnic identity—Medical Monitoring Project, United States, 2021

	Black	k/African Ame		ersons vs.								
	PR	White p	ersons PD	95% CI	Hispanic/I PR	Latino ^a perso col %	ns vs. V PD	Vhite persons 95% CI	Multira	acial persons col %	vs. Wh	ite persons 95% CI
Total (row %)	PK	COI 76	Pυ	93% CI	FK	COI 76	Pυ	95% CI	PK	COI 76	Pυ	95% CI
National HIV/AIDS Strategy indicators related to social determinants of he	alth											
Quality of life												
Physical health												
Self-reported health status ^b		/ ·										
Good, very good, excellent	0.92	(0.86–0.97)	-6.10	(-10.172.03)	0.94 1.17	(0.87–1.01)	-4.64	(-9.97 – 0.69)	0.90	(0.80–1.02)	-7.19 7.10	(-15.48-1.10
Poor, fair Mental or emotional health	1.22	(1.07–1.40)	6.10	(2.03–10.17)	1.17	(0.98–1.40)	4.64	(-0.69– 9.97)	1.26	(0.98–1.62)	7.19	(-1.10– 15.48
Unmet needs for services from a mental health professional among those	e who nee	ded services.	past 12	monthsc								
Yes	1.16	(0.94-1.43)	4.46	(-1.93- 10.85)	0.75	(0.49-1.15)	-6.87	(-16.29-2.55)	0.94	(0.64-1.38)	-1.57	(-11.74- 8.60
No	0.94	(0.86–1.03)	-4.46	(-10.85– 1.93)	1.10	(0.97–1.24)	6.87	(-2.55– 16.29)	1.02	(0.89–1.17)	1.57	(-8.60– 11.74
Structural or subsistence factors												
Unstable housing or homelessness, past 12 months ^o Yes	1.62	(1.23–2.15)	7.56	(3.52– 11.60)	1.33	(1.01–1.74)	3.98	(0.28–7.67)	2.33	(1.59-3.40)	16.07	(6.57– 25.57
No	0.91	(0.87–0.96)	-7.56	(-11.60– -3.52)	0.95	(0.91–1.00)	-3.98	(-7.67– -0.28)	0.82		-16.07	(-25.576.57
Unemployment ^e	4.00	(4.07.4.70)	4.40	(0.04, 0.00)	4.00	(0.04.4.00)	0.00	(000 700)	4.05	(4.40.000)	7.05	
Yes No	1.38 0.95	(1.07–1.79) (0.91–0.99)	4.48 -4.48	(0.94– 8.02) (-8.02– -0.94)	1.26 0.97	(0.94–1.69) (0.92–1.01)	3.03 -3.03	(-0.96– 7.02) (-7.02– 0.96)	1.65 0.91	(1.19–2.30) (0.85–0.98)	7.65 -7.65	(1.96– 13.35 (-13.35– -1.96
Hunger or food insecurity, past 12 months ^f	0.55	(0.01-0.00)	-4.40	(-0.020.04)	0.51	(0.32-1.01)	-0.00	(-7.02-0.30)	0.51	(0.00-0.00)	-1.00	(-10.001.00
Yes	1.31	(1.08-1.59)	3.63	(1.18-6.09)	1.66	(1.33-2.06)	7.64	(4.26-11.03)	2.29		15.08	(8.02-22.13
No	0.96	(0.93-0.99)	-3.63	(-6.09– -1.18)	0.91	(0.88-0.95)	-7.64	(-11.03– -4.26)	0.83	(0.75–0.91)	-15.08	(-22.13– -8.02
HIV stigma, past 12 months (n, median score, 95% CI) ⁹												
Other factors important for health, including those that affect quality of life)											
Economic stability												
Household income with respect to poverty guidelines ⁿ <100% FPL	1.89	(1.54–2.33)	21.18	(13.99–28.38)	1.93	(1.55–2.39)	21.91	(13.81–30.00)	1.67	(1.23–2.26)	15.75	(4.61– 26.88
100%-138% FPL	0.95	(0.66–1.36)	-0.57	(-4.64– 3.49)	0.85	(0.57–1.25)	-1.78	(-6.09– 2.52)	0.71	(0.34–1.48)	-3.31	(-10.01– 3.39
139%–399% FPL	0.91	(0.79–1.06)	-3.40	(-8.81– 2.01)	0.90	(0.74–1.11)	-3.68	(-10.99– 3.63)	1.02	(0.82–1.26)	0.68	(-7.58– 8.94
≥400% FPL	0.34	(0.27–0.44)	-17.21	(-20.88– -13.53)	0.37	(0.26-0.54)	-16.44	(-21.37– -11.52)	0.50	(0.26-0.96)	-13.11	(-21.594.64
Education												
Educational attainment	3.76	(2.73–5.18)	12.49	(9.55– 15.43)	E 56	(3.80–8.13)	20.61	(14.86– 26.37)	2.25	(1.02–5.00)	5.67	(-1.67– 13.01
Less than high school diploma High school diploma or equivalent	1.62	(1.39–1.89)	12.49	(8.85–15.74)	5.56 1.16	(0.91–1.49)	3.26	(-2.10– 8.62)	1.19	(0.88–1.61)	3.83	(-3.20– 10.85
Greater than high school	0.67		-24.78	(-29.5520.02)	0.68		-23.87	(-29.87– -17.87)	0.87	(0.74–1.04)	-9.50	(-20.86– 1.86
Health-related factors												
Health insurance or coverage (including Ryan White HIV/AIDS Program [R												
Any private	0.73 1.13	(0.65–0.81) (1.00–1.29)	-14.26 5.91	(-18.83– -9.68)	0.68 1.19	(0.57–0.81) (0.97–1.46)	-16.78 8.52	(-23.65– -9.92)	0.83 1.16	(0.59–1.16) (0.90–1.51)	-8.88 7.28	(-23.55– 5.80 (-5.92– 20.48
Public only, excluding RWHAP only Uninsured or RWHAP only	3.20	(2.16–4.75)	8.35	(-0.29– 12.11) (4.89– 11.81)	3.18	(1.92–5.28)	8.27	(-1.96– 19.00) (3.27– 13.26)	1.10	(0.90-1.51)	1.60	(-2.23– 5.43
Received RWHAP assistance, past 12 months	0.20	(2.10 1.10)	0.00	(1.00 11.01)	0.10	(1.02 0.20)	0.21	(0.21 10.20)		(0.11 2.00)	1.00	(2.20 0.10
Yes	1.06	(0.88-1.29)	2.74	(-5.48- 10.96)	1.30	(1.08-1.58)	12.86	(3.80 - 21.92)	1.25		10.43	(-1.96-22.82
No	0.95	(0.82–1.10)	-2.74	(-10.96– 5.48)	0.78	(0.65–0.93)	-12.86	(-21.92– -3.80)	0.82	(0.64–1.05)	-10.43	(-22.82– 1.96
Confidence in completing health forms Somewhat, a little bit, not at all	1 56	/1 21 1 07\	0 11	(5 00 10 0E)	1 02	(1.57)	15 16	(10.5/110.70)	1 16	(0.00. 2.16)	7 51	(-0.96– 15.98
Extremely, quite a bit	1.56 0.89	(1.31–1.87) (0.86–0.93)	9.14 -9.14	(5.92– 12.35) (-12.35– -5.92)	1.93 0.82	(1.57–2.39) (0.77–0.87)	15.16 -15.16	(10.54– 19.78) (-19.78– -10.54)	1.46 0.91	(0.99–2.16) (0.82–1.02)	7.51 -7.51	(-0.96 <u>–</u> 15.96 (-15.98 <u>–</u> 0.96
Has a disability ^j	3.00	(0.00 0.00)	Ų.,,,	(.2.55 0.02)	0.02	(5		(3.01	(0.02 1.02)		, .5.55
Yes	1.00	(0.90-1.12)	-0.02	(-4.40- 4.35)	1.05	(0.92-1.21)	2.10	(-3.56-7.75)	1.35	(1.17-1.57)		(6.70-21.31
No .	1.00	(0.93–1.08)	0.02	(-4.35– 4.40)	0.97	(0.88-1.06)	-2.10	(-7.75– 3.56)	0.77	(0.66-0.89)	-14.01	(-21.31– -6.70
Any unmet HIV ancillary service need, past 12 months ^k Yes	1.24	(1.06–1.45)	9.81	(2.79– 16.83)	1.14	(0.97–1.34)	5.66	(-1.62– 12.94)	1.59	(1.26–2.01)	24.45	(10.25– 38.05

Table 5b. Relative and absolute differences in individual-level social determinants of health and quality of life among adults with diagnosed HIV, by racial/ethnic identity—Medical Monitoring Project, United States, 2021 (cont)

	Blaci	k/African Ame	erican pe	ersons vs.								
		White p			Hispanic	/Latino ^a perso	ns vs. V	Vhite persons	Multir	acial persons	s vs. Wh	ite persons
	PR	col %	PD	95% CI	PR	col %	PD	95% CI	PR	col %	PD	95% CI
Neighborhood and built environment												
Any met or unmet need for transportation assistance, past 12 months												
Yes	1.78	(1.45-2.18)	14.26	(9.90 - 18.63)	1.44	(1.13-1.84)	8.16	(2.99 - 13.32)	1.88	(1.49-2.38)	16.25	(9.56-22.95
No	0.83	(0.78–0.87)	-14.26	(-18.63– -9.90)	0.90	(0.84–0.96)	-8.16	(-13.322.99)	0.80	(0.72–0.89)	-16.25	(-22.959.56
Social and community context												
HIV health care discrimination among persons who received care, past 12 mg	onths ^m											
Yes	0.79	(0.63-1.00)	-5.11	(-10.050.17)	0.91	(0.78-1.06)	-2.16	(-5.69- 1.37)	1.21	(0.86-1.71)	5.14	(-5.06- 15.34
No	1.07	(1.00–1.14)	5.11	` (0.17– 10.05)	1.03	(0.98–1.08)	2.16	(-1.37– 5.69)	0.93	(0.81–1.08)	-5.14	(-15.34- 5.06
Speaks English less than well				,				,		,		
Yes	6.40	(1.21-33.80)	1.35	(0.51 - 2.19)	107.27	(28.65-401.68)	26.55	(19.76 - 33.34)	6.69	(1.03-43.49)	1.42	(-0.24-3.09
No	0.99	(0.98–0.99)	-1.35	(-2.19– -0.51)	0.73	(0.67–0.81)	-26.55	(-33.34– -19.76)	0.99	(0.97–1.00)	-1.42	(-3.09- 0.24
Experiences of physical violence by an intimate partner or forced sex, lifetime	e n	,		,		, ,		,		, ,		,
Yes	0.70	(0.61-0.79)	-12.46	(-16.858.06)	0.82	(0.73-0.93)	-7.44	(-11.922.97)	1.21	(1.03-1.42)	8.62	(0.84- 16.39
No	1.21	(1.13–1.30)	12.46	(8.06– 16.85)	1.13	(1.05–1.21)	7.44	` (2.97– 11.92)	0.85	(0.73–1.00)	-8.62	(-16.390.84
Experiences of physical violence by an intimate partner or forced sex, past 12	2 month	ıs ⁿ										
Yes	1.42	(0.80-2.50)	1.77	(-0.97-4.51)	1.30	(0.73-2.33)	1.28	(-1.38 - 3.95)	3.14	(1.58-6.23)	9.05	(2.34- 15.76
No	0.98	(0.95–1.01)	-1.77	(-4.51– 0.97)	0.99	(0.96–1.01)	-1.28	(-3.95– 1.38)	0.91	(0.84–0.98)	-9.05	(-15.762.34
Incarcerated >24 hours, past 12 months								•				•
Yes	1.52	(0.80-2.89)	1.18	(-0.58 - 2.93)	0.91	(0.47-1.76)	-0.21	(-1.65- 1.23)	2.76	(1.12-6.82)	3.99	(-0.85-8.82
No	0.99	(0.97–1.01)	-1.18	(-2.93– 0.58)	1.00	(0.99–1.02)	0.21	(-1.23– 1.65)	0.96	(0.91–1.01)	-3.99	(-8.82- 0.85

Note. White persons were the referent group for each disparity assessment. Due to sample size issues with other racial/ethnic groups, disparities could only be assessed for Black/African American persons and Hispanic/Latino persons, versus White persons. Excluded are estimates with a coefficient of variation ≥0.30 and those based on a denominator sample size <30.

- ^a Hispanic or Latino persons can be of any race. Persons are classified in only 1 race/ethnicity category.
- b "Good or better self-rated health" defined as rating one's health as good, very good, or excellent (as opposed to poor or fair) at the time of interview.
- ^C "Unmet need for mental health services from a mental health professional" defined as needing, but not receiving, services from a mental health professional among those who indicated needing mental health services (i.e., receiving or needing but not receiving) during the past 12 months.
- d "Unstable housing or homelessness" defined as experiencing unstable housing (i.e., moving in with others due to financial issues, moving 2 or more times, or being evicted) or homelessness (living on the street, in a shelter, in a single-room-occupancy hotel, or in a car) at any time during the past 12 months.
- e Unemployed persons included those who reported being unemployed at the time of interview, excluding persons who are unable to work, calculated among all adults with HIV.
- f "Hunger/food insecurity" defined as going without food due to lack of money during the past 12 months.
- 9 "Median HIV stigma score" defined as the weighted median score on a 10-item scale ranging from 0 (no stigma) to 100 (high stigma) that measures 4 dimensions of HIV stigma: personalized stigma during the past 12 months, current disclosure concerns, current negative self-image, and current perceived public attitudes about persons living with HIV, measured among persons aged ≥ 18 years with diagnosed HIV infection living in the United States and Puerto Rico. The HIV stigma scale used for this indicator is available at https://www.ncbi.nlm.nih.gov/pmc/articles/PMC2001277/ [Wright K, Naar-King S, Lam P, Templin T, Frey M. Stigma scale revised: reliability and validity of a brief measure of stigma for HIV+ youth. *J Adolesc Health* 2007;40(1):96–98].
- h Poverty guidelines defined by HHS. For persons interviewed in a particular calendar year, the HHS poverty guidelines from the previous year were used. For instance, the 2020 guidelines were used for persons interviewed in 2021. More information regarding HHS poverty guidelines can be found at https://aspe.hhs.gov/frequently-asked-questions-related-poverty-guidelines-and-poverty.
- Persons could select more than 1 response for health insurance or coverage. Mutually exclusive categories are presented based on responses. Private coverage defined as receiving health insurance through a person's employer or a family member's employer or purchased through the Health Insurance Marketplace or directly from a health insurance company. Public insurance includes Medicaid, Medicare, VA, RWHAP, or other city, county, or state-funded insurance. Uninsured or RWHAP only category includes those who did not report having any insurance, or received RWHAP assistance only, without coverage through any other insurance categories.
- J Self-reported, and includes physical, mental, and emotional disabilities.
- ^k Represents those who needed, but did not receive, ≥1 HIV ancillary services, among all persons.
- Represents those who needed transportation assistance, regardless of whether that assistance was received, among all persons.
- m HIV health care discrimination among those who received HIV care during the previous 12 months was assessed based on seven forms of discrimination, including: being treated with less courtesy than other persons, being treated with less respect than other persons, receiving poorer service than others, having a doctor or nurse act as if he or she believed they were not smart, having a doctor or nurse act as if he or she were afraid of them, having a doctor or nurse act as if he or she were better than them, and having a doctor or nurse not listen to what they were saying. Respondents were asked if they experienced these forms of discrimination never, rarely, some of the time, most of the time. Respondents who reported experiencing at least one form of health care discrimination rarely, some of the time, or all the time. The time is not a seven form of health care discrimination rarely.
- n Physical violence by an intimate partner defined as ever being slapped, punched, shoved, kicked, choked, or otherwise physically hurt by a romantic or sexual partner. Forced sex defined as ever being threatened with harm or physically forced to have unwanted vaginal, anal, or oral sex.

No. 36

Table 6. Individual-level social determinants of health and quality of life among adults with diagnosed HIV, by National HIV/AIDS Strategy priority populations—Medical Monitoring Project, United States, 2021

United States, 2021																									
			_		ack/A								E			American			r		ersons	•		rsons	
		All MS				MSM ^b			tino MSM ^c		AN MS								r women ^t		8–24 ye			ject dr	
	n		6 95% CI	n		95% CI	n		6 95% CI	n	col %	95%	CI	n		95% CI	n		95% CI	n		95% CI			95% CI
Total (row %)			(47.5–56.0)			(11.8–18.0)		13.2	(9.1–17.4)	_	_		-	537	13.1	(9.5–16.8)	82	2.1	(1.6–2.5)	59	1.7	(1.2–2.3)	107	2.7	(2.1–3.4)
National HIV/AIDS Strategy indic	ators r	elated	to social o	ieterm	inants	or nealth																			
Quality of life Physical health																									
Self-reported health status																									
Good, very good, excellent	1,525		(74.2-77.8)			(74.0-80.7)		73.4		_	_		_	311	59.4		52			50	87.5		61	57.7	(46.5-68.8)
Poor, fair	491	24.0	(22.2–25.8)	131	22.6	(19.3–26.0)	147	26.6	(22.2–31.0)	_	_		_	223	40.6	(34.6–46.6)	30	37.2	(26.5–47.9)	9	12.5	(7.0–18.0)	46	42.3	(31.2–53.5)
Mental or emotional health Unmet needs for services from		atal ha	alth profes	cional	amon	a thoso u	ho no	dod c	onvione na	ct 12 m	ontho														
Yes	226		(24.7–33.7)			(28.5–41.2)			(15.2–32.5)	οι 12 III —	— —		_	45	28.6	(17.0-40.3)	10	32.9	* (14.9–51.0)	_	_	_	20	28.9	(14.9-42.9)
No	583		(66.3–75.3)		65.2	(58.8–71.5)	173	76.1		_	_		_	135		(59.7–83.0)			(49.0–85.1)	_	_	_	54		(57.1–85.1)
Structural or subsistence factors			k																						
Unstable housing or homeless Yes	, sness, 302		2 months" (13.5–18.2)	104	10 /	(14.1–24.7)	101	18.1	(14.1–22.1)					90	18.7	(14.7–22.7)	19	28.4	(18.2–38.7)	17	26.1	(14.5–37.7)	44	45.7	(34.8–56.6)
No .	1,719		(81.8–86.5)	447	80.6	(75.3–85.9)	419		(77.9–85.9)	_	_		_	446		(77.3–85.3)	63			42	73.9	(62.3–85.5)	63	54.3	
Unemployment ^l	,		,			,			,							,			,			,			,
Yes No	292 1,726		(12.8–17.1) (82.9–87.2)	96 456	18.1 81.9		82 438	15.6 84.4	(11.8–19.4) (80.6–88.2)	_	_		_	59 477	13.5 86.5		19 63	24.5 75.5	(15.6–33.3) (66.7–84.4)	- 46	83.7	(73.8–93.6)	40 67	38.8 61.2	
Hunger or food insecurity, pas	st 12 m			700	01.5	(10.0-00.0)	700	07.7	(00.0-00.2)		_			711	00.5	(00.0-30.1)	00	10.0	(00.1-04.4)	70	00.1	(10.0-30.0)	O1	01.2	(10.7–17.1)
Yes	274	13.9	(12.1–15.7)	89	15.4		93	16.5		_	_		_	72	14.4		28	40.3*		19	30.5	(18.0-43.1)	39	36.9	(27.2-46.5)
No	1,743 1,922		(84.3–87.9) (25.5–28.9)	462 529	84.6	(81.5–87.7) (23.5–27.3)	425 489	83.5 29.1		_	_		_	463 494	85.6 30.7		54 76	59.7*	(43.2–76.2) (28.3–40.0)	40 54	69.5 42.1	(56.9–82.0) (33.4–50.9)	68 105	63.1	(53.5–72.8) (26.8–43.3)
HIV stigma, past 12 months	1,322	21.2	(23.3–20.3)	329	23.4	(23.3–21.3)	403	29.1	(21.0-31.2)	_	_		_	434	30.7	(23.3–30.1)	70	34.2	(20.3–40.0)	J 4	42.1	(33.4–30.9)	103	33.0	(20.0–43.3)
(n, median score, 95% CI) ⁿ	h inalı	udina 4	those that	offoot	aualita	, of life																			
Other factors important for healt Economic stability	in, inch	uuing t	.1105e tilat i	aneci	quanty	of file																			
Household income with respect	to nov	ertv au	uidelines ⁰																						
<100% FPL	465		(21.6–28.6)	136	27.4	(22.3-32.4)	169	34.8	(26.5-43.1)	_	_		_	252	57.7	(50.1-65.3)	44	60.2	(46.4-73.9)	18	33.8	(20.2-47.4)	46	44.1	(32.5-55.7)
100%–138% FPL	173			58	12.0			8.0		_	_		_	44	8.0		_	_	(40.7.00.7)	_	_	(07.0.00.0)	10	11.4	(5.1–17.7)
139%–399% FPL ≥400% FPL	785 443		(39.5–45.9) (19.3–26.0)	218 87		(38.0–48.8) (12.3–22.1)		43.3 13.9		_	_		_	133 22	30.7	(23.9–37.5) (2.0–5.1)	16	23.2	(13.7–32.7)	22	52.0	(37.8–66.3)	30	34.5	(23.3–45.7)
Education	770	22.0	(13.0 20.0)	01	11.2	(12.0 22.1)	, 00	10.5	(0.2 10.0)					LL	0.0	(2.0 0.1)									
Educational attainment																									
Less than high school diploma	123			42	8.4			13.4		_	_		_	121	22.7	(19.4-26.1)	19		(11.8-31.0)	_		.	19	15.6	(7.2-23.9)
High school diploma or equivalent	386			140	24.4			19.8		_	_		-	187	36.8		26 36	34.8		23			12	9.6	
Greater than high school Health-related factors	1,512	74.0	(71.9–76.0)	370	67.3	(63.2–71.3)	330	66.7	(60.9–72.6)	_	_		_	227	40.5	(34.2–46.7)	30	43.8	(29.6–58.1)	29	31.3	(40.7–73.9)	76	14.0	(65.4–84.2)
Health insurance or coverage (in	cludin	a Rvar	n White HI\	//AIDS	Drogr	HW91 mer	ΔD1 ac	eietan	ca) nast 13	month	e p														
Any private	1,034	51.1	(48.0-54.2)	260		(43.3–52.6)			(37.0–49.2)		 —		_	165	32.1	(26.8-37.3)	26	34.1*	(18.6–49.5)	27	52.4	(38.2-66.5)	31	28.5	(18.2-38.8)
Public only, excluding RWHAP only			(34.9–44.0)		37.7	(28.8–46.5)	229	44.0	(34.7–53.3)	_	_		_	325	58.1	(50.7–65.5)	45	53.6	(40.6–66.6)	23	36.6*	(20.5–52.7)	69		(54.1–76.5)
Uninsured or RWHAP only	166			68	14.4	(7.8–20.9)	61	13.0	(7.0–18.9)	_	_		_	41	9.9	(5.6–14.2)	_	_	_	_	_	_	_	_	_
Received RWHAP assistance, pa	973 ast	nontns 473	(44.0–50.6)	274	46.6	(42.1–51.1)	278	54.2	(47.6–60.8)	_	_		_	240	43.8	(37.2–50.3)	49	60.7	(49.3–72.1)	28	46.5	(31.9–61.1)	56	51.1	(41.0–61.2)
No	982	52.7	(49.4–56.0)	264	53.4	(48.9–57.9)	211	45.8	(39.2–52.4)	_	_		_	280	56.2	(49.7–62.8)	25	39.3	(27.9–50.7)	29	53.5	(38.9–68.1)	43	48.9	(38.8–59.0)
Confidence in completing health			,			,			, , ,							,			,			,			,
Somewhat, a little bit, not at all	356	18.0	(16.2–19.8) (80.2–83.8)	87 464	17.4	(13.6–21.2) (78.8–86.4)	129		(20.5–29.0)	_	_		_	139 396		(21.6–33.6)		31.1	(22.3–39.9) (60.1–77.7)	15	28.4	(16.0–40.8) (59.2–84.0)	25 82		(14.7–38.8)
Extremely, quite a bit Has a disability ^q	1,661	02.0	(00.2-03.0)	404	02.0	(10.0-00.4)	390	13.2	(71.0–79.5)	_	_		_	230	12.4	(66.4–78.4)	JJ	00.9	(00.1-11.1)	40	11.0	(33.2-04.0)	UΖ	13.2	(61.2–85.3)
Yes	675	32.9	(30.5-35.4)	152	26.6	(22.2–31.0)	189	34.8	(29.9-39.7)	_	_		_	270	47.0	(42.5–51.6)	48	59.4	(46.8–72.0)	15	22.2	(9.4-34.9)	61		(46.8-68.7)
No	1,344	67.1	(64.6–69.5)	400	73.4	(22.2–31.0) (69.0–77.8)	189 330	65.2	(60.3–70.1)	_	_		_	266	53.0	(42.5–51.6) (48.4–57.5)	34	40.6	(46.8–72.0) (28.0–53.2)	44	77.8	(9.4–34.9) (65.1–90.6)	46		(31.3–53.2)
Any unmet HIV ancillary service				000	40.4	(44.0 54.0)	004	440	(20.0.40.4)					270	E0.0	(AA E C4 O)	40	E0 4	/// 7 7/ E\	22	E7 A	(A) C 70 F\	70	740	(CC 2 02 2)
Yes No	856 1,154		(41.6–47.2) (52.8–58.4)	262 286	49.1 50.9	(44.2–54.0) (46.0–55.8)	234	44.0 56.0	(39.0–49.1) (50.9–61.0)	_	_		_	270 261	5∠.9 47 1	(44.5–61.3) (38.7–55.5)	48 33	58.1 41.9	(44.7–71.5) (28.5–55.3)	33 25	37.1 42.9	(43.6–70.5) (29.5–56.4)	78 29	14.8 25.2	(66.3–83.3) (16.7–33.7)
1	., 101	50.0	(02.0 00.1)	_00	50.5	()		50.0	(00.0 01.0)							(0.00)	-	. 1.0	(20.0 00.0)	_0	.2.0	(=0.0 00.1)	_0	20.2	(10.1

Table 6. Individual-level social determinants of health and quality of life among adults with diagnosed HIV, by National HIV/AIDS Strategy priority populations—Medical Monitoring Project, United States, 2021 (cont)

-	Black/African												Blac	(/Africa	n American				Р	ersons aged	Pr	ersons who
		All MS	SM ^a	Am	nerican	MSM ^b	Hispa	nic/Lat	ino MSM ^c	Α	I/AN N	ISM ^d	cis	gender	womene	Trans	gende	r women ^f	1	8-24 years ^g	in	iject drugs ^h
	n	col %	95% CI	n	col %	95% CI	n	col %	95% CI	n	col %	95% C	n	col	% 95% CI	n	col %	95% CI	n	col % 95% CI	n	col % 95% CI
Neighborhood and built environ	ment																					
Any met or unmet need for trans	sportati	on ass	sistance, pa	ast 12	month	ı s ^s																
Yes	401		(17.7–21.5)			(19.7-26.2)	118	21.3	(17.3-25.2)	_	_	-	- 217	7 39.5	5 (33.7-45.4)	36	45.8	(35.5-56.0)	21	32.6 (20.8-44.4)	50	45.9 (36.0-55.9)
No	1,607	80.4	(78.5–82.3)	415		(73.8–80.3)		78.7	(74.8–82.7)	_	_	-	– 31 ⁻	60.5	5 (54.6–66.3)	44	54.2	(44.0–64.5)	37	67.4 (55.6–79.2)	57	54.1 (44.1–64.0)
Social and community context																						
HIV health care discrimination a	mong p	erson	s who rece	ived o	care, p	ast 12 mo	nths ^t															
Yes	434	22.9		101		(14.6-23.9)		23.0	(19.6-26.5)	_	_	-	- 96	3 17.6	6 (12.4–22.9)	18	24.9	(13.0-36.7)	_		32	34.4 (21.9-47.0)
No	1,447		(74.6–79.6)	410		(76.1–85.4)			(73.5–80.4)	_	_	-	- 394		1 (77.1–87.6)		75.1	(63.3–87.0)	42	79.8 (67.3-92.2)	66	65.6 (53.0–78.1)
Speaks English less than well																						
Yes	_	_	_	0	0.0	_	- 87	16.3	(9.1-23.6)	_	_	-	- 18	3 2.7	7 (1.2–4.1)	16	15.3	(9.4-21.2)	_		_	
No	1,935	95.8	(92.9-98.7)	552	100*	(100-100)			(76.4-90.9)	_	_	-	- 518		3 (95.9–98.8)		84.7	(78.8–90.6)	58	98.6 (95.8-100)	104	97.2 (93.9-100)
Experiences of physical violence	e bv an	intima	te partner	or for	ced se	x. lifetime	u															
Yes	695		(34.1-38.3)	180		(29.7-37.4)		32.7	(28.0-37.4)	_	_		- 169	33.8	3 (29.0–38.6)	43	61.1	(50.3-71.9)	18	35.1 (22.6-47.6)	60	54.2 (43.1-65.2)
No	1,290	63.8	(61.7–65.9)	362	66.4	(62.6-70.3)	341	67.3	(62.6–72.0)	_	_	-	- 346	66.2	2 (61.4–71.0)	35		(28.1–49.7)	39	64.9 (52.4–77.4)	45	45.8 (34.8–56.9)
Experiences of physical violence	e by an	intima	ate partner	or for	ced se	x, past 12	month	าร ^น														
Yes	109	6.2	(4.9–7.5)	39	8.2			5.3	(3.6-7.1)	_	_		- 20	6.2	2 (3.2-9.1)	12	20.5	(10.8-30.1)	_		22	23.2 (14.6–31.8)
No	1,869	93.8	(92.5–95.1)	500	91.8			94.7	(92.9–96.4)	_	_	-	– 49 ⁻	93.8			79.5		48	82.2 (71.7–92.8)	80	76.8 (68.2–85.4)
Incarcerated >24 hours, past 12	month	S																				
Yes	44	2.5	(1.8-3.3)	19	3.6	(1.6-5.6)	_	_	_	_	_	-				_	_	_	_		12	11.3 (6.5–16.1)
No	1,976	97.5		531		(94.4-98.4)		98.7	(97.6-99.7)	_	_	-	- 52	97.7	7 (96.0-99.5)	79	96.0	(91.2-100)	57	98.1 (95.4–100)	95	88.7 (83.9–93.5)
Abbreviations: MSM men who have se	av with m	ωn: Δ1//	AN American	Indian	/Alacka	Mativo: n r	umbor.	col col	ımn: CL conf	idonoo	intorval	· EDI fod	aral nov	orty love	J. DIVILAD	Ovan M/I	nito HIV/	AIDS Progra	m: UL	IS Department of He	alth and	d Human Convices

Abbreviations: MSM, men who have sex with men; Al/AN, American Indian/Alaska Native; n, number; col, column; Cl, confidence interval; FPL, federal poverty level; RWHAP, Ryan White HIV/AIDS Program; HHS, Department of Health and Human Services [footnotes only]; VA, Veterans Administration [footnotes only]. Note. Unweighted numbers and weighted percentages are presented. Cls incorporate weighted percentages. Excluded are estimates with a coefficient of variation ≥ 0.30 and those based on a denominator sample size < 30. Estimates with an absolute Cl width

>30, estimates with an absolute CI width between 5 and 30 and a relative CI width >130%, and estimates of 0% or 100% are marked with an asterisk (*) and should be interpreted with caution. a Includes ciscender men with diagnosed HIV who reported having sex with >1 ciscender men in the past 12 months (among persons who had sex during the past 12 months) and ciscender men with diagnosed HIV who reported identifying as gay or bisexual (among those who did not have sex during the past 12 months).

b Includes MSM with diagnosed HIV who identified as non-Hispanic/Latino Black/African American race/ethnicity.

- c Includes MSM who identified as Hispanic/Latino race/ethnicity. Hispanic or Latino MSM can be of any race.
- d Includes MSM who identified as American Indian/Alaska Native race/ethnicity.
- ^e Includes cisgender women with diagnosed HIV who identified as non-Hispanic Black/African American race/ethnicity.
- Persons with diagnosed HIV were classified as transgender women if the person reported that their sex assigned at birth was male but identified as female or transgender.
- ⁹ Priority population for youths includes persons with diagnosed HIV aged 13–24 years; however, data from MMP are only available and presented for persons aged 18–24 years.
- ^h Includes persons with diagnosed HIV who reported injecting drugs during the past 12 months.
- "Good or better self-rated health" defined as rating one's health as good, very good, or excellent (as opposed to poor or fair) at the time of interview.
- 1 "Unmet need for mental health services from a mental health professional" defined as needing, but not receiving, services from a mental health professional among those who indicated needing mental health services (i.e., receiving or needing but not receiving) during the past 12 months.
- k "Unstable housing or homelessness" defined as experiencing unstable housing (i.e., moving in with others due to financial issues, moving 2 or more times, or being evicted) or homelessness (living on the street, in a shelter, in a single-room-occupancy hotel, or in a car) at any time during the past 12 months.
- Unemployed persons included those who reported being unemployed at the time of interview, excluding persons who are unable to work, calculated among all adults with HIV.
- m "Hunger/food insecurity" defined as going without food due to lack of money during the past 12 months.
- n "Median HIV stigma score" defined as the weighted median score on a 10-item scale ranging from 0 (no stigma) to 100 (high stigma) that measures 4 dimensions of HIV stigma: personalized stigma during the past 12 months, current disclosure concerns, current negative self-image, and current perceived public attitudes about persons living with HIV, measured among persons aged ≥ 18 years with diagnosed HIV infection living in the United States and Puerto Rico. The HIV stigma scale used for this indicator is available at https://www.ncbi.nlm.nih.gov/pmc/articles/PMC2001277/ [Wright K, Naar-King S, Lam P, Templin T, Frey M. Stigma scale revised: reliability and validity of a brief measure of stigma for HIV+ youth. J Adolesc Health 2007;40(1):96–981.
- O Poverty guidelines defined by HHS. For persons interviewed in a particular calendar year, the HHS poverty guidelines from the previous year were used. For instance, the 2020 guidelines were used for persons interviewed in 2021. More information regarding HHS poverty guidelines can be found at https://aspe.hhs.gov/frequently-asked-questions-related-poverty-guidelines-and-poverty.
- Persons could select more than 1 response for health insurance or coverage. Mutually exclusive categories are presented based on responses. Private coverage defined as receiving health insurance through a person's employer or a family member's employer or purchased through the Health Insurance Marketplace or directly from a health insurance company. Public insurance includes Medicaid, Medicare, VA, RWHAP, or other city, county, or state-funded insurance. Uninsured or RWHAP only category includes those who did not report having any insurance, or received RWHAP assistance only, without coverage through any other insurance categories.
- ^q Self-reported, and includes physical, mental, and emotional disabilities.
- Represents those who needed, but did not receive, ≥1 HIV ancillary services, among all persons.
- ⁵ Represents those who needed transportation assistance, regardless of whether that assistance was received, among all persons.
- this health care discrimination, including being treated with less courtesy than other persons, being treated with less courtesy than other persons, being treated with less respect than other persons, receiving poorer service than others, having a doctor or nurse act as if he or she believed they were not smart, having a doctor or nurse act as if he or she were afraid of them, having a doctor or nurse act as if he or she were better than them, and having a doctor or nurse not listen to what they were saying. Respondents were asked if they experienced these forms of discrimination never, rarely, some of the time, most of the time, or all the time. Respondents who reported experiencing at least one form of health care discrimination rarely, some of the time, most of the time, or all of time were considered to have experienced discrimination in an HIV health care setting.
- U Physical violence by an intimate partner defined as ever being slapped, punched, shoved, kicked, choked, or otherwise physically hurt by a romantic or sexual partner. Forced sex defined as ever being threatened with harm or physically forced to have unwanted vaginal, anal, or oral sex.

Table 7. National HIV/AIDS Strategy indicators among adults with diagnosed HIV, by other individual-level social determinants of health—Medical Monitoring Project, United States, 2021

Total (row %) 95% Cl N		_	ood or b -rated h			services from a me ng those who need	ental health professional ed services ^b			ousing ssness ^c	Un	employ	ment ^d	Hunge	er/food i	nsecurity ^e	-	Median tigma s	
Total (row %) 2,697 68.8 67.4703) 389 27.7 (22.9-32.5) 651 17.0 15.161.5 58 14.7 (13.4-16.0) 67.0 57.0 (42.4-73.) 37.12 28.8													/					Mediar	
Procession Pro		n				row %		n	row %	95% CI	n								95% CI
Household income with respect believe series of the serie	Total (row %)	2,697	68.8	(67.4–70.3)	389	27.7	(22.9–32.5)	651	17.0	(15.3–18.6)	558	14.7	(13.4–16.0)	607	15.7	(14.2–17.3)	3,712	28.8	(27.6–30.1
Final Property Fin	Economic stability																		
1009-1399-FPL 235 59.0 (30-44) 45 33.6 (26-54) 51 (26-54) 51 (20-54) 51	Household income with respect	to pove	erty gui	delines ^g															
139% —399% FPL	<100% FPL	709	53.2	(49.8-56.5)	147	23.2	(18.3–28.1)	360	27.0	(23.3-30.6)	267	20.7	(18.0-23.3)	347	25.6	(22.0-29.1)	1,272	30.3	(27.5-33.2
Part	100%-138% FPL	235	59.0	(54.0-64.0)	45	38.6	(26.6–50.5)	52	15.7	(9.7-21.7)	42	12.1	(8.0-16.2)	50	14.8	(9.3-20.2)	368	33.4	(29.0-37.8
Part	139%-399% FPL	996	78.9	(76.6-81.2)	130	32.1	(24.4-39.8)	140	10.5	(8.7-12.4)	138	11.0	(9.3-12.8)	136	10.8	(8.7-13.0)	1,195	28.4	(26.6-30.2
Part	≥400% FPL	478	89.3	(86.3-92.3)	38	24.3	(16.6–32.0)	20	4.1	(2.0-6.2)	29	4.8	(2.5-7.1)	_	_	_	520	24.7	(23.0-26.4
Part	Education																		
High school diploma or equivalent 651 64.5 (61.7-67.4) 100 28.2 (21.5-34.8) 20.9 (21.5-34.8) 20.9 (21.5-32.8) 20.9 (21.5-32.8) 20.9 (21.5-32.8) 20.9 (21.5-32.8) 20.9 (21.5-32.8) 20.9 (21.5-32.8) 20.9 (21.5-32.8) 20.9 (21.5-32.8) 20.9 2	Educational attainment																		
Property	Less than high school diploma	310	55.2	(50.2-60.2)	65	30.9	(24.0-37.7)	140	25.6	(22.0-29.2)	98	18.0	(13.1-22.9)	142	25.9	(21.1-30.7)	528	32.6	(27.6-37.6
Health-related factors	High school diploma or equivalent	651	64.5	(61.7-67.4)	100	28.2	(21.5-34.8)	209	19.4	(16.5-22.2)	178	18.1	(14.9-21.4)	178	17.1	(14.6-19.5)	969	29.1	(26.2-31.9
Health insurance or coverage (inclusing Rym White HIV/AlbS Program [RWHAP] assistance), past 12 months have supported in the light insurance or coverage (inclusing Rym April 28.1 14.1 29.7 (24.0–35.4) 14.8 10.5 (8.3–12.6) 13.8 18.6 (8.8–10.3) 14.9 10.1 (7.9–12.3) 1.519 28.2 Public only, excluding Rym HAP only 1.113 56.9 (54.5–59.3) 204 24.9 (18.8–30.9) 40.3 (29.0–52.6) 8.0 20.7 (84.–23.0) 8.0 20.2 (15.2–192.) 8.0 19.5 (17.2–12.6) 18.9 29.5 Uninsured or Rym HAP only 27.8 18.8 (8.8–79.6) 35 40.8 (29.0–52.6) 8.0 (29.0–52.6) 8.0 19.6 (20.3–28.8) 8.0 20.2 (22.3–3.5) 8.0 19.5 (17.2–12.6) 18.9 29.5 Uninsured or Rym HAP assistance, past 12 months have supported by the last of the last 12 months have supported by	Greater than high school	1,732	74.2	(72.4–75.9)	224	26.9	(21.6–32.1)	300	13.8	(12.2–15.3)	282	12.4	(10.7–14.0)	286	12.6	(10.9–14.3)	2,211	28.2	(26.8–29.6
Any private 1,315 81,9 (79,4-84.3) 141 29,7 (24,0-35.4) 148 10.5 (8.3-12.6) 137 8.6 (8.6-10.3) 149 10.1 (7.9-12.3) 1,519 28.2 Public only, excluding RWHAP only 1,113 56.9 (54,5-9.3) 204 24,9 (18.8-30.9) 403 20.7 (18.4-30.9) 83 28.7 (1.2 (15.2-19.2) 380 19.5 (17.2-15.1) 1,839 29.5 Uninsured or RWHAP only 228 7.3 (68.9-78) 35 40.8 (29.0-52.6) 81 24.6 (20.3-28.9) 83 28.2 (22.3-1.5) 63 19.5 (17.2-15.1) 1,839 29.5 Uninsured or RWHAP only 228 7.3 (68.9-78) 35 40.8 (29.0-52.6) 81 24.6 (20.3-28.9) 83 28.2 (22.3-1.5) 63 19.5 (17.2-15.1) 1,839 29.5 Uninsured or RWHAP assistance, past 12 morths 22.2 (1.0 - 1.0	Health-related factors																		
Public only, excluding RWHAP only 1,1113 56.9 54.5-59.3 204 24.9 (18.8-30.9) 40.8 (29.0-52.6) 81 24.6 (29.0-52.6) 81 24.6 (29.0-28.6) 82.0 20.2-28.9 83 28.3 (2234.5) 63 19.1 (13.9-24.4) 29.5 27.5 20.5	Health insurance or coverage (in	cludin	g Ryan	White HIV	/AIDS Program [R\	WHAP] assistance),	past 12 months ^h												
Uninsured or RWHAP only 228 7.4.3 (6.8, -7.9.6) 35 40.8 (29.0-52.6) 81 24.6 (20.3-28.9) 83 28.3 (2234.5) 63 19.1 (13.9-24.4) 29.4 27.7 Received RWHAP assistance, post 12 months? Yes 1,252 66.8 (64.8-68.9) 200 27.1 (21.0-33.2) 355 19.6 (17.7-21.5) 27.5 14.9 (12.9-16.6) 38 18.3 (16.4-20.2) 1,779 28.7 No 1,345 71.0 (68.6-73.5) 174 28.4 (24.3-32.5) 261 14.2 (11.9-16.6) 25.3 13.9 (12.0-15.8) 26.5 12.0 (10.4-15.4) 1,796 28.7 Confidence in completing health forms Somewhat, a little bit, not at all 46.5 14. (48.0-54.8) 103 27.0 (20.2-33.8) 27.0 (20.2-33.8) 27.0 (13.4-16.6) 27.0	Any private	1,315	81.9	(79.4-84.3)	141	29.7	(24.0-35.4)	148	10.5	(8.3-12.6)	137	8.6	(6.8-10.3)	149	10.1	(7.9-12.3)	1,519	28.2	(26.6-29.7
Procession of Note Process	Public only, excluding RWHAP only	/ 1,113	56.9	(54.5-59.3)	204	24.9	(18.8–30.9)	403	20.7	(18.4-23.0)	328	17.2	(15.2-19.2)	380	19.5	(17.4-21.6)	1,839	29.5	(27.2-31.8
Yes 1,252 6.6.8 (6.8-6.9) 200 27.1 (21.0-33.2) 355 19.6 (17.7-21.5) 27.5 14.9 (12.9-16.9) 33.8 18.3 (16.4-20.2) 1,792 28.7 Confidence in completing health forms Somewhat, a little bit, not at all with price a bit 466 51.4 (480-54.8) 103 27.0 (20.2-33.8) 218 23.0 (19.5-26.5) 13.7 16.6 (13.8-19.3) 242 25.5 (22.1-28.8) 877 34.8 Extremely, quite a bit 2,224 74.3 (72.8-75.8) 286 28.1 (23.4-32.8) 428 15.0 (13.4-16.6) 419 14.0 (12.7-15.3) 36.1 22.1-28.8 877 34.8 Extremely, quite a bit 2,224 74.3 (72.8-75.8) 286 28.1 (23.4-32.8) 380 21.6 (12.7-15.0) 40.1 12.7-1 1.6 (13.4-18.8) 40.1 12.7-1 28.0 23.1 23.1 23.2 21.1-26.0 27.1 (1.6-2	Uninsured or RWHAP only	228	74.3	(68.9-79.6)	35	40.8	(29.0-52.6)	81	24.6	(20.3-28.9)	83	28.3	(22.2-34.5)	63	19.1	(13.9–24.4)	294	27.7	(23.3-32.1
No 1,345 71.0 (68.6-73.5) 174 28.4 (24.3-32.5) 261 14.2 (11.9-16.6) 253 13.9 (12.0-15.8) 263 12.9 (10.4-15.4) 1,796 28.9 Confidence in completing health forms: Somewhat, a little bit, not at all 466 51.4 (48.0-54.8) 103 27.0 (20.2-33.8) 218 23.0 (19.5-65.8) 137 16.6 (13.8-19.3) 242 25.5 (21.2-28.8) 877 34.8 Extremely, quite a bit 2,224 74.3 (72.8-75.8) 286 28.1 (23.4-32.8) 428 15.0 (13.4-16.6) 419 14.0 (12.7-15.3) 361 12.5 (11.2-13.9) 2,831 27.8 Has a disability 1 Yes 808 49.9 (47.6-52.2) 217 28.0 (23.1-32.8) 380 23.8 (21.1-26.4) 25.7 16.6 (14.7-18.6) 406 25.8 (23.7-28.0) 1,543 33.2 No 1,866 81.8 (80.8-35.6) 172 27.5 (21.3-33.7) 268 12.3 (10.6-14.0) 301 13.4 (11.2-15.6) 199 8.7 (6.9-10.5) 2,165 26.7 Any unmet HIV ancillary service reed, past 12 months 5 Yes 1,100 62.3 (59.9-64.6) — — — — — — — — — — — — — — — — — — —	Received RWHAP assistance, pa	ıst 12 n	nonths																
Confidence in completing health Forms Somewhat, a little bit, not at all 466 51.4 (48.0-54.8) 103 27.0 (20.2-33.8) 218 23.0 (19.5-26.5) 137 16.6 (13.8-19.3) 242 25.5 (22.1-28.8) 877 34.8 Extremely, quite a bit 2.224 74.3 (72.8-75.8) 286 28.1 (23.4-32.8) 428 15.0 (13.4-16.6) 419 14.0 (12.7-15.3) 36 12.5 (11.2-13.9) 2,831 27.8 Has a disability Yes 808 49.9 (47.6-52.2) 217 28.0 (23.1-32.8) 380 23.8 (21.1-26.4) 257 16.6 (14.7-18.6) 406 25.8 (23.7-28.0) 1,543 33.2 No 1,886 81.8 (80.0-83.6) 172 27.5 (21.3-33.7) 268 12.3 (10.6-14.0) 30 13.4 (11.2-15.6) 406 25.8 (23.7-28.0) 1,543 33.2 Any unmet HIV ancillary service need, preservice pre	Yes	1,252	66.8	(64.8-68.9)	200	27.1	(21.0-33.2)	355	19.6	(17.7-21.5)	275	14.9	(12.9-16.9)	338	18.3	(16.4-20.2)	1,779	28.7	(27.0-30.5
Somewhat, a little bit, not at all 466 51.4 (48.0-54.8) 103 27.0 (20.2-33.8) 218 23.0 (19.5-26.5) 137 16.6 (13.8-19.3) 242 25.5 (22.1-28.8) 877 34.8 Extremely, quite a bit 2,224 74.3 (72.8-75.8) 286 28.1 (23.4-32.8) 428 15.0 (13.4-16.6) 419 14.0 (12.7-15.3) 361 12.5 (11.2-13.9) 2,831 27.8 Has a disability Yes 80 808 49.9 (47.6-52.2) 217 28.0 (23.1-32.8) 380 23.8 (21.1-26.4) 257 16.6 (14.7-18.6) 406 25.8 (23.7-28.0) 1,543 33.2 No 1,886 81.8 (80.0-83.6) 172 27.5 (21.3-33.7) 268 12.3 (10.6-14.0) 301 13.4 (11.2-15.6) 49 8.7 (6.9-10.5) 2,165 26.7 Any unmet HIV ancillary service reed, past 12 months Yes 1,100 62.3 (59.9-64.6) — — — — 434 24.0 (21.7-26.4) 350 20.4 (18.5-22.3) 465 26.2 (23.8-28.7) 1,693 36.6 No 1,579 74.8 (72.8-76.9) — — — — 434 24.0 (21.7-26.4) 350 20.4 (18.5-22.3) 465 26.2 (23.8-28.7) 1,693 36.6 No 1,579 74.8 (72.8-76.9) — — — — 434 24.0 (21.7-26.4) 350 20.4 (18.5-22.3) 465 26.2 (23.8-28.7) 1,693 36.6 No 49ighborhood and built environment Any met or unmet need for transportation past 12 months Yes 530 50.1 (46.5-53.7) 154 27.5 (22.6-32.5) 317 29.4 (26.5-32.4) 222 21.8 (19.2-24.5) 332 30.9 (27.8-34.0) 1,046 33.2	No	1,345	71.0	(68.6-73.5)	174	28.4	(24.3–32.5)	261	14.2	(11.9-16.6)	253	13.9	(12.0-15.8)	236	12.9	(10.4-15.4)	1,796	28.9	(27.5-30.3
Extremely, quite a bit 2,224 74.3 (72.8-75.8) 286 28.1 (23.4-32.8) 428 15.0 (13.4-16.6) 419 14.0 (12.7-15.3) 361 12.5 (11.2-13.9) 2,831 27.8 Has a disability	Confidence in completing health	forms																	
Has a disability Yes 808 49.9 (47.6-52.2) 217 28.0 (23.1-32.8) 380 23.8 (21.1-26.4) 257 16.6 (14.7-18.6) 406 25.8 (23.7-28.0) 1,543 33.2 No 1,886 81.8 (80.0-83.6) 172 27.5 (21.3-33.7) 268 12.3 (10.6-14.0) 301 13.4 (11.2-15.6) 406 25.8 (23.7-28.0) 1,543 33.2 Any unmet HIV ancillary service need, past 12 months! Yes 1,100 62.3 (59.9-64.6) — — — 434 24.0 (21.7-26.4) 350 20.4 (18.5-22.3) 465 26.2 (23.8-28.7) 1,693 33.6 No 1,579 74.8 (72.8-76.9) — — — 434 24.0 (21.7-26.4) 350 (21.1-26.4) 350 20.4 (18.5-22.3) 465 26.2 (23.8-28.7) 1,693 33.6 No 1,579 74.8 (72.8-76.9) — — — 434 24.0 (21.7-26.4) 350 (21.7-26.4) 350 20.4 (18.5-22.3) 465 26.2 (23.8-28.7) 1,693 33.6 No 1,579 74.8 (72.8-76.9) — — — 434 24.0 (21.7-26.4) 350 36.1 (74.11.4) 350 36.1 (51.7-1) 2,010 25.0 No 1,579 74.8 (72.8-76.9) — — — — 434 24.0 (21.7-26.4) 350 36.1 (74.11.4) 350 36.1 (51.7-1) 2,010 25.0 No 1,579 74.8 (72.8-76.9) — — — — 434 24.0 (21.7-26.4) 350 36.1 (74.11.4) 350 36.1 (51.7-1) 2,010 25.0 No 1,579 74.8 (72.8-76.9) — — — — 434 24.0 (21.7-26.4) 350 36.1 (74.11.4) 350 36.1 (51.7-1) 2,010 25.0 No 1,579 74.8 (74.8-76.9) — — — — — 434 24.0 (21.7-26.4) 350 36.1 (74.11.4) 350 36.1 (51.7-1) 2,010 25.0 No 1,579 74.8 (74.8-76.9) — — — — — — — 434 24.0 (21.7-26.4) 350 36.1 (74.11.4) 350 36.1 (51.7-1) 2,010 25.0 No 1,579 74.8 (74.8-76.9) — — — — — — — — — — — — — — — — — — —	Somewhat, a little bit, not at all	466	51.4	(48.0-54.8)	103	27.0	(20.2–33.8)	218	23.0	(19.5-26.5)	137	16.6	(13.8-19.3)	242	25.5	(22.1-28.8)	877	34.8	(32.1-37.5
Yes 808 49.9 (47.6–52.2) 217 28.0 (23.1–32.8) 380 23.8 (21.1–26.4) 257 16.6 (14.7–18.6) 406 25.8 (23.7–28.0) 1,543 33.2 Any unmet HIV ancillary service need, past 12 months i Yes 1,100 62.3 (59.9–64.6) — — — — 434 24.0 (21.7–26.4) 350 20.4 (18.5–22.3) 465 26.2 (23.8–28.7) 1,693 33.6 No 1,579 74.8 (72.8–76.9) — — — — 434 24.0 (21.7–26.4) 350 20.4 (18.5–22.3) 465 26.2 (23.8–28.7) 1,693 33.6 No 1,579 74.8 (72.8–76.9) — — — — 206 10.3 (8.1–12.5) 205 9.4 (7.4–11.4) 135 6.1 (5.1–7.1) 2,010 25.0 Neighborhood and built environment Yes 530 50.1 (46.5–53.7) 154 27.5 (22.6–32.5) 317 29.4 (26	Extremely, quite a bit	2,224	74.3	(72.8–75.8)	286	28.1	(23.4–32.8)	428	15.0	(13.4-16.6)	419	14.0	(12.7-15.3)	361	12.5	(11.2–13.9)	2,831	27.8	(26.5-29.1
No 1,886 81.8 (80.0–83.6) 172 27.5 (21.3–33.7) 268 12.3 (10.6–14.0) 301 13.4 (11.2–15.6) 199 8.7 (6.9–10.5) 2,165 26.7 Any unmet HIV ancillary service need, past 12 months 12 months 12 months 13.6 (21.3–23.7) 268 12.3 (10.6–14.0) 301 13.4 (11.2–15.6) 199 8.7 (6.9–10.5) 2,165 26.7 Any unmet HIV ancillary service need, past 12 months 13.4 (21.3–23.5) 27.5 (22.6–32.5) 2	Has a disability																		
Any unmet HIV ancillary service need, past 12 months 13 months 14 months 14 months 14 months 15	Yes	808	49.9	(47.6-52.2)	217	28.0	(23.1–32.8)	380	23.8	(21.1-26.4)	257	16.6	(14.7–18.6)	406	25.8	(23.7-28.0)	1,543	33.2	(30.7-35.6
Yes 1,100 62.3 (59.9-64.6) — — — — 434 24.0 (21.7-26.4) 350 20.4 (18.5-22.3) 465 26.2 (23.8-28.7) 1,693 33.6 No 1,579 74.8 (72.8-76.9) — — — — 206 10.3 (8.1-12.5) 205 9.4 (7.4-11.4) 135 6.1 (5.1-7.1) 2,010 25.0 Neighborhood and built environment Any met or unmet need for transportation assistance, past 12 months ^k Yes 530 50.1 (46.5-53.7) 154 27.5 (22.6-32.5) 317 29.4 (26.5-32.4) 22.2 21.8 (19.2-24.5) 33.2 30.9 (27.8-34.0) 1,046 33.2	No	1,886	81.8	(80.0–83.6)	172	27.5	(21.3–33.7)	268	12.3	(10.6–14.0)	301	13.4	(11.2–15.6)	199	8.7	(6.9–10.5)	2,165	26.7	(25.1–28.3
Yes 1,100 62.3 (59.9-64.6) — — — — 434 24.0 (21.7-26.4) 350 20.4 (18.5-22.3) 465 26.2 (23.8-28.7) 1,693 33.6 No 1,579 74.8 (72.8-76.9) — — — — 206 10.3 (8.1-12.5) 205 9.4 (7.4-11.4) 135 6.1 (5.1-7.1) 2,010 25.0 Neighborhood and built environment Any met or unmet need for transportation assistance, past 12 months ^k Yes 530 50.1 (46.5-53.7) 154 27.5 (22.6-32.5) 317 29.4 (26.5-32.4) 22.2 21.8 (19.2-24.5) 33.0 20.9 (27.8-34.0) 1,046 33.2	Any unmet HIV ancillary service	need, ı	oast 12	months ^j															
No 1,579 74.8 (72.8–76.9) — — — — — 206 10.3 (8.1–12.5) 205 9.4 (7.4–11.4) 135 6.1 (5.1–7.1) 2,010 25.0 **Neighborhood and built environment** **Any met or unmet need for transportation assistance, past 12 months** Yes 530 50.1 (46.5–53.7) 154 27.5 (22.6–32.5) 317 29.4 (26.5–32.4) 222 21.8 (19.2–24.5) 332 30.9 (27.8–34.0) 1,046 33.2	•				_	_	_	434	24.0	(21.7-26.4)	350	20.4	(18.5-22.3)	465	26.2	(23.8-28.7)	1,693	33.6	(31.5–35.7
Any met or unmet need for transportation assistance, past 12 months ^k Yes 530 50.1 (46.5-53.7) 154 27.5 (22.6-32.5) 317 29.4 (26.5-32.4) 222 21.8 (19.2-24.5) 332 30.9 (27.8-34.0) 1,046 33.2	No	1,579	74.8	(72.8–76.9)	_	_	_	206	10.3	(8.1–12.5)	205				6.1	(5.1–7.1)	2,010	25.0	(23.5–26.4
Yes 530 50.1 (46.5-53.7) 154 27.5 (22.6-32.5) 317 29.4 (26.5-32.4) 222 21.8 (19.2-24.5) 332 30.9 (27.8-34.0) 1,046 33.2	Neighborhood and built environ	ment																	
Yes 530 50.1 (46.5-53.7) 154 27.5 (22.6-32.5) 317 29.4 (26.5-32.4) 222 21.8 (19.2-24.5) 332 30.9 (27.8-34.0) 1,046 33.2	Any met or unmet need for trans	portati	on assi	stance, pa	st 12 months ^k														
				-		27.5	(22.6-32.5)	317	29.4	(26.5-32.4)	222	21.8	(19.2-24.5)	332	30.9	(27.8-34.0)	1,046	33.2	(30.2-36.1
=,	No	2,144	75.7	(73.8–77.6)	234	27.8	(21.5–34.0)	319	12.0	(10.3–13.7)	329		,		10.0	(8.6–11.3)	2,662	27.9	(26.5–29.2

Table 7. National HIV/AIDS Strategy indicators among adults with diagnosed HIV, by other individual-level social determinants of health—Medical Monitoring Project, United States, 2021

		od or l rated l	better health ^a		s for services from a me among those who neede	ntal health professional ed services ^b			ousing sness ^c	Un	employ	ment ^d	Hunge	er/food i	nsecurity ^e		/ledian igma s	2
	n	row %	95% CI	n	row %	95% CI	n	row %	95% CI	n	row %	95% CI	n	row %	95% CI	n	Median score	95% CI
Social and community context																		
HIV health care discrimination an	nong p	ersons	who recei	ved care, pas	t 12 months ^l													
Yes	480		(58.0-64.1)	128	31.2	(26.1-36.4)	164	20.7	(17.6-23.9)	134	16.3	(13.3–19.3)	204	25.2	(21.8-28.7)	765	37.4	(34.4-40.4)
No	2,022	71.6	(69.9-73.4)	221	22.6	(17.1–28.2)	418	15.0	(13.1–17.0)	372	13.4	(11.7–15.0)	346	12.4	(10.8–13.9)	2,704	27.1	(25.8-28.4)
Speaks English less than well																		
Yes	186	58.9	(53.7-64.1)	_	_	_	51	14.6	(7.7–21.6)	36	11.2	(5.8–16.5)	69	22.0	(12.6-31.4)	283	34.4	(31.5–37.2)
No	2,511	69.6	(68.1–71.1)	376	29.2	(25.4-33.1)	600	17.2	(15.6–18.7)	522	14.9	(13.6–16.2)	538	15.2	(13.5–16.9)	3,429	28.5	(27.2–29.9)
Experiences of physical violence	by an	intimat	te partner	or forced sex,	lifetime ^m													
Yes	826	65.2	(62.4–68.1)	185	28.5	(22.7-34.3)	284	23.1	(20.1-26.1)	224	18.7	(16.4–21.1)	304	24.3	(21.2-27.5)	1,228	33.9	(32.0-35.9)
No	1,808	71.0	(69.0-73.0)	198	27.1	(21.9–32.4)	343	13.7	(11.9–15.5)	319	12.5	(10.7–14.2)	282	11.0	(9.6–12.4)	2,421	26.3	(24.7–27.9)
Experiences of physical violence	by an	intimat	te partner	or forced sex,	past 12 months ^m													
Yes			(53.4–70.9)	31	26.1	(18.2-34.0)	78	38.9	(29.2-48.6)	56	33.4	(23.6-43.2)	77	41.1	(32.9-49.2)	175	38.2	(30.1-46.3)
No	2,511	69.4	(67.9-71.0)	349	28.1	(22.7–33.4)	539	15.5	(13.7–17.2)	483	13.5	(12.1–14.9)	498	13.9	(12.4–15.4)	3,454	28.4	(27.0-29.8)
Incarcerated >24 hours, past 12 r	nonths	i																
Yes	58	59.0	(49.6-68.4)	12	26.5	(11.8–41.2)	43	44.9	(32.1–57.7)	32	33.4	(21.5-45.3)	32	37.6	(23.9-51.3)	84	43.2	(30.1–56.3)
No	2,637	69.2	(67.7–70.6)	376	27.8	(23.0–32.5)	605	16.1	(14.6–17.6)	525	14.1	(12.7–15.4)	575	15.1	(13.7–16.5)	3,625	28.6	(27.4–29.9)

a "Good or better self-rated health" defined as rating one's health as good, very good, or excellent (as opposed to poor or fair) at the time of interview.

b "Unmet need for mental health services from a mental health professional" defined as needing, but not receiving, services from a mental health professional among those who indicated needing mental health services (i.e., receiving or needing but not receiving) during the past 12 months.

^c "Unstable housing or homelessness" defined as experiencing unstable housing (i.e., moving in with others due to financial issues, moving 2 or more times, or being evicted) or homelessness (living on the street, in a shelter, in a single-room-occupancy hotel, or in a car) at any time during the past 12 months.

d Unemployed persons included those who reported being unemployed at the time of interview, excluding persons who are unable to work, calculated among all adults with HIV.

^e "Hunger/food insecurity" defined as going without food due to lack of money during the past 12 months.

f "Median HIV stigma score" defined as the weighted median score on a 10-item scale ranging from 0 (no stigma) to 100 (high stigma) that measures 4 dimensions of HIV stigma: personalized stigma during the past 12 months, current disclosure concerns, current negative self-image, and current perceived public attitudes about persons living with HIV, measured among persons aged ≥ 18 years with diagnosed HIV infection living in the United States and Puerto Rico. The HIV stigma scale used for this indicator is available at https://www.ncbi.nlm.nih.gov/pmc/articles/PMC2001277/ IWright K, Naar-King S, Lam P, Templin T, Frey M, Stigma scale revised: reliability and validity of a brief measure of stigma for HIV+ youth. *J Adolesc Health* 2007;40(1):96–981.

⁹ Poverty guidelines defined by HHS. For persons interviewed in a particular calendar year, the HHS poverty guidelines from the previous year were used. For instance, the 2020 guidelines were used for persons interviewed in 2021. More information regarding HHS poverty guidelines can be found at https://aspe.hhs.gov/frequently-asked-questions-related-poverty-guidelines-and-poverty.

h Persons could select more than 1 response for health insurance or coverage. Mutually exclusive categories are presented based on responses. Private coverage defined as receiving health insurance through a person's employer or a family member's employer or purchased through the Health Insurance Marketplace or directly from a health insurance company. Public insurance includes Medicaid, Medicare, VA, RWHAP, or other city, county, or state-funded insurance. Uninsured or RWHAP only category includes those who did not report having any insurance, or received RWHAP assistance only, without coverage through any other insurance categories.

¹ Self-reported, and includes physical, mental, and emotional disabilities.

Represents those who needed, but did not receive, ≥1 HIV ancillary services, among all persons.

k Represents those who needed transportation assistance, regardless of whether that assistance was received, among all persons.

HIV health care discrimination among those who received HIV care during the previous 12 months was assessed based on seven forms of discrimination, including: being treated with less courtesy than other persons, being treated with less respect than other persons, receiving poorer service than others, having a doctor or nurse act as if he or she were afraid of them, having a doctor or nurse act as if he or she were better than them, and having a doctor or nurse not listen to what they were saying. Respondents were asked if they experienced these forms of discrimination never, rarely, some of the time, most of the time, most of the time, or all the time. Respondents who reported experiencing at least one form of health care discrimination rarely, some of the time, most of the t

m Physical violence by an intimate partner defined as ever being slapped, punched, shoved, kicked, choked, or otherwise physically hurt by a romantic or sexual partner. Forced sex defined as ever being threatened with harm or physically forced to have unwanted vaginal, anal, or oral sex.

Table 8. National HIV/AIDS Strategy indicators among adults with diagnosed HIV, by project area—Medical Monitoring Project, United States, 2021

		ood or l -rated l			or services from a mer ong those who needed	ital health professional d services ^b			ousing ssness ^c	Un	employ	ment ^d	Hunge	er/food i	nsecurity ^e		ledian igma s	,
Jurisdiction ^g	n	row %	95% CI	n	row %	95% CI	n	row %	95% CI	n	row %	95% CI	n	row %	95% CI	n	Median score	95% CI
California	404	69.8	(65.4–74.2)	41	19.2	(12.7–25.7)	98	17.5	(13.7–21.3)	86		(12.2–19.4)	80	14.9	(11.3–18.5)	537	26.5	(23.9–29.0)
Chicago, IL	134	69.4	(62.3–76.5)	14	21.0	(10.8–31.1)	24	12.5	(7.3–17.8)	37	19.9	(13.5–26.3)	31	18.5	(11.9–25.0)	185	27.4	(22.6–32.2)
Delaware	136	70.3	(63.4–77.3)	22	23.8	(14.4–33.1)	30	16.3	(10.5–22.1)	25	12.9	(7.8–18.1)	27	13.4	(8.3–18.6)	192	28.9	(25.7–32.0)
Florida	168	69.0	(62.4–75.7)	24	31.3	(19.7–42.9)	44	18.7	(13.1–24.2)	16	7.6	(3.4–11.8)	43	18.0	(12.4–23.5)	226	28.9	(25.5–32.3)
Georgia	126	68.6	(62.0–75.3)	23	33.5	(22.1–44.8)	35	19.6	(13.7–25.6)	22	12.7	(7.6–17.8)	23	13.2	(8.1–18.4)	182	28.5	(25.1–31.9)
Houston, TX	115	68.6	(61.3–75.9)	18	32.1	(19.0–45.2)	43	25.8	(18.6–33.0)	24	13.9	(8.5–19.4)	26	15.2	(9.5–20.9)	155	24.3	(19.9–28.7)
Illinois	197	69.1	(63.3–74.9)	22	22.2	(13.3–31.0)	34	11.2	(7.4–15.0)	45	16.4	(11.5–21.2)	42	16.7	(11.6–21.8)	267	30.6	(26.6–34.7)
Indiana	81	59.0	(49.3–68.7)	16	36.0*	(20.2–51.9)	25	21.9	(13.2–30.5)	17	11.7	(6.1–17.4)	22	17.9	(10.3–25.5)	131	31.4	(26.3–36.5)
Los Angeles County, CA	119	67.9	(60.4–75.4)	12	17.5	(8.1–26.9)	38	23.3	(15.9–30.8)	34	19.7	(12.9–26.5)	26	12.5	(7.8–17.2)	172	25.3	(21.5–29.1)
Michigan	135	69.9	(61.3–78.5)	22	43.6*	(26.4–60.8)	36	23.1	(14.3–31.8)	28	18.0	(9.5–26.4)	32	20.9	(12.3–29.6)	184	37.2	(32.9–41.6)
Mississippi	103	58.4	(50.1–66.7)	_	_		37	21.4	(14.8–27.9)	29	15.9	(10.3–21.5)	20	12.5	(6.8–18.2)	164	27.9	(23.0–32.8)
New Jersey	152	65.2	(56.9–73.4)	17	18.2	(9.7–26.7)	28	12.5	(6.6–18.3)	33	11.7	(7.5–15.8)	35	16.6	(10.0–23.3)	204	31.6	(28.5–34.6)
New York	238	70.5	(65.0–76.0)	36	21.4	(14.4–28.5)	46	12.7	(8.7–16.7)	72	21.7	(16.6–26.8)	60	17.5	(12.9–22.1)	299	28.5	(25.8–31.3)
New York City, NY	173	69.5	(62.9–76.1)	30	22.5	(14.4–30.6)	36	13.6	(8.7–18.4)	61	24.2	(18.2–30.3)	47	19.8	(13.9–25.7)	217	28.9	(26.0–31.9)
North Carolina	124	67.8	(59.9–75.7)	18	35.5*	(20.5–50.5)	37	21.7	(14.8–28.5)	27	16.1	(10.0–22.2)	26	15.7	(9.5–22.0)	171	27.6	(23.8–31.4)
Oregon	129	70.2	(63.5–76.9)	25	33.3	(22.4–44.2)	20	11.3	(6.5–16.0)	29	17.1	(11.3–22.8)	27	14.9	(9.5–20.3)	177	23.3	(19.9–26.7)
Pennsylvania	126	64.3	(57.1–71.6)	35	41.1	(28.9–53.3)	37	17.1	(11.3–22.9)	31	15.9	(9.7–22.1)	40	20.6	(14.2–27.0)	197	26.7	(22.0–31.4)
Philadelphia, PA	81	58.6	(49.1–68.0)	22	39.3	(24.5–54.2)	26	20.4	(12.0–28.7)	22	17.8	(9.5–26.1)	28	24.6	(15.3–33.9)	136	28.4	(24.0-32.7)
Puerto Rico	120	63.6	(55.8–71.3)	_	_	<u> </u>	22	12.6	(7.3–18.0)	15	7.2	(3.3–11.0)	30	16.8	(10.9–22.8)	174	33.1	(29.3–36.8)
San Francisco, CA	112	73.5	(66.3-80.8)	13	16.6	(7.8–25.3)	26	22.2	(13.0-31.3)	19	12.8	(6.3-19.2)	21	14.5	(8.4-20.6)	149	25.5	(20.1–30.8)
Texas	241	70.5	(65.2-75.8)	36	33.3	(23.5-43.2)	79	22.3	(17.4-27.2)	46	12.6	(8.9-16.4)	56	15.6	(11.3-19.9)	322	31.9	(27.6-36.2)
Virginia	92	63.7	(54.5-72.8)	15	26.7	(13.4-40.1)	21	14.8	(8.2-21.3)	13	11.7	(5.1–18.2)	27	21.2	(13.4–29.0)	127	27.3	(23.7–31.0)
Washington	125	74.1	(66.7-81.5)	20	31.5	(19.7–43.4)	22	12.9	(7.6-18.2)	24	14.6	(8.5-20.8)	17	9.0	(4.7–13.4)	158	27.7	(23.9-31.4)
National	2,697	68.8	(67.4–70.3)	389	27.7	(22.9-32.5)	651	17.0	(15.3–18.6)	558	14.7	(13.4–16.0)	607	15.7	(14.2–17.3)	3,712	28.8	(27.6–30.1)

Abbreviations: n, number; CI, confidence interval.

Note. Unweighted numbers and weighted percentages are presented. Cls incorporate weighted percentages. Excluded are estimates with a coefficient of variation ≥ 0.30 and those based on a denominator sample size < 30. Estimates with an absolute Cl width > 30, estimates with an absolute Cl width between 5 and 30 and a relative Cl width > 130%, and estimates of 0% or 100% are marked with an asterisk (*) and should be interpreted with caution.

^a "Good or better self-rated health" defined as rating one's health as good, very good, or excellent (as opposed to poor or fair) at the time of interview.

b "Unmet need for mental health services from a mental health professional" defined as needing, but not receiving, services from a mental health professional among those who indicated needing mental health services (i.e., receiving or needing but not receiving) during the past 12 months.

c "Unstable housing or homelessness" defined as experiencing unstable housing (i.e., moving in with others due to financial issues, moving 2 or more times, or being evicted) or homelessness (living on the street, in a shelter, in a single-room-occupancy hotel, or in a car) at any time during the past 12 months.

d Unemployed persons included those who reported being unemployed at the time of interview, excluding persons who are unable to work, calculated among all adults with HIV.

^e "Hunger/food insecurity" defined as going without food due to lack of money during the past 12 months.

f "Median HIV stigma score" defined as the weighted median score on a 10-item scale ranging from 0 (no stigma) to 100 (high stigma) that measures 4 dimensions of HIV stigma: personalized stigma during the past 12 months, current disclosure concerns, current negative self-image, and current perceived public attitudes about persons living with HIV, measured among persons aged ≥18 years with diagnosed HIV infection living in the United States and Puerto Rico. The HIV stigma scale used for this indicator is available at https://www.ncbi.nlm.nih.gov/pmc/articles/PMC2001277/ [Wright K, Naar-King S, Lam P, Templin T, Frey M. Stigma scale revised: reliability and validity of a brief measure of stigma for HIV+ youth. *J Adolesc Health* 2007;40(1):96–98].

^g States include separately funded jurisdictions within those states.

Table 9. Key clinical outcomes among adults with diagnosed HIV, by individual-level social determinants of health and quality of life—Medical Monitoring Project, United States, 2021

	pas		ire, onths ^a	ap pas		nents, nonths	l A pa	Missed RT do	oses, days ^b	a pas	t last t 12 m	test, ionths ^c	viral pas	suppi t 12 m	ression, onths ^d	HIV an	cillary t 12 m	needs for services, onths ^e	ro pas	oom v st 12 n	isits, nonths	pas	t 12 m	ations, onths
T	n		95% CI			6 95% CI			6 95% CI			6 95% CI			6 95% CI			6 95% CI			6 95% CI			95% CI
Total (row %)	880		(25.7–31.9)				1,407	36.9	(35.4–38.4)	1,125	33.8	(31.3–36.3)	1,290	37.6	(35.4–39.8)	1,815	47.5	(44.9–50.1)	1,4/2	36.5	(34.5–38.6)	684	16.7	(15.2–18.1)
National HIV/AIDS Strategy indica Quality of life	itors r	eiateu	to social c	ieterm	mants	or nearth																		
Physical health Self-reported health status ^f																								
Good, very good, excellent Poor, fair	607 263		(25.2–32.4) (24.8–32.1)	427 327	16.8 25.0	(15.0–18.6) (21.7–28.3)	921 484	35.9 39.2	(34.2–37.7) (36.6–41.8)	699 413	31.1 39.5	(28.0–34.2) (36.0–42.9)	802 475		(32.1–37.5) (40.4–46.7)			(40.0–45.8) (53.9–61.1)	794 673		(27.7–31.3) (48.1–55.7)	307 374		(10.1–12.6) (25.1–31.3)
Mental or emotional health			,			,			,			,			,			,			,			,
Unmet needs for services from													4.45	40.0	(00 F F0 O)				400	40.0	(07.0.40.0)	00	40.4	(40.7.00.5)
Yes No			(26.1 -4 3.6) (16.8 - 24.4)						(40.5–57.6) (38.0–43.7)			(32.9–50.1) (24.3–32.9)	145 338		(38.5–53.9) (29.6–37.7)	_	_	_	160 519	42.6 45.6	(37.0–48.2) (40.5–50.7)	69 272	18.1 24.1	(13.7–22.5) (20.7–27.6)
Structural or subsistence factors			h																					
Unstable housing or homelessr Yes			(28.8–40.4)	209	31 7	(28.0–35.3)	271	49.1	(44.9–53.4)	248	<i>4</i> 5 1	(40.5–49.7)	294	513	(47.5–55.2)	434	67.8	(62.2–73.5)	321	50.3	(45.9–54.7)	160	23.7	(19.4–28.1)
No .	706		(24.4–30.8)			(15.0–18.9)		34.6	(33.0–36.3)	872		(28.9–34.2)			(32.5–37.2)			(40.7–46.1)						(14.0–16.5)
Unemployment ⁱ	400		,			,			,			,						,			,			
Yes No	128 745		(27.1–36.4) (24.9–31.6)			(27.2–36.8) (15.6–18.9)		51.9 34.5	(46.9–56.9) (33.0–36.1)	186 933	41.2 32.6	(35.6–46.8) (30.1–35.1)			(41.7–51.0) (33.8–38.5)			(60.0–72.4) (41.5–46.9)		45.6 35.1	(39.5–51.7) (33.3–36.9)	115 568		(17.1–26.5) (14.5–17.1)
Hunger or food insecurity, past		onths ^j	,			,		04.0	(00.0 00.1)	300	02.0	(00.1 00.1)	1,000	00.2	(00.0 00.0)			,			,	000	10.0	(14.0 17.1)
Yes No	140	30.8	(24.3–37.4) (25.6–31.2)	202 552	31.9 17.0	(28.0–35.8) (15.2–18.9)	267 1.137		(44.6–53.9) (33.2–36.3)		41.7 32.3	(36.0–47.5) (29.8–34.8)	255 1.026	48.0 35.6	(42.5–53.6) (33.4–37.8)	465 1.348	79.7 41.5	(76.2–83.1) (39.0–44.0)	318 1.151	53.4 33.4	(48.8–58.1) (31.5–35.3)	164 518	27.3 14.7	(22.3–32.3) (13.5–15.9)
Other factors important for health			,			, ,	,		(()	, -		(,-		(, -		(/			(
Economic stability	,				. ,																			
Household income with respect to																								
<100% FPL 100%–138% FPL	284 76		(22.9–31.9) (20.4–35.0)	364 63	26.7 16.7		502	39.1 41.5	(36.5–41.7) (35.5–47.4)	406	36.0 33.3		485 111	41.8	(38.4–45.2) (25.7–43.7)	758 197	57.1 53.8	(52.5–61.7) (47.8–59.7)	627	45.0	(41.6–48.5) (31.9–42.5)	307 76	21.2	(18.3–24.2) (15.5–24.9)
139%–399% FPL	277	27.3		209		(13.7–19.6)							377		(29.1–36.8)	563	45.8	1/			(28.9–35.0)	177		(11.8–15.4)
≥400% FPL	142	33.8	(29.1–38.5)	36	8.2	`(5.3–11.1)	173	30.1				(29.3–38.1)			(31.0–40.3)		23.5	(19.8–27.2)			(20.1–29.6)	49	8.3	`(5.7–10.9)
Education																								
Educational attainment	405	05.0	(40.0.04.0)	454	00.0	(00 F 04 0)	044	40.0	(00 0 44 0)	440	20.0	(07.0.07.0)	400	27.0	(00 7 40 4)	240	FC 0	(50.7.00.0)	045	40.0	(04.0.45.0)	400	00.0	(447.057)
Less than high school diploma High school diploma or equivalent	105 232	25.6 30.0		154 239	26.9 22.4		211 360		(36.3–44.3) (31.8–38.1)	149 320		(27.3–37.9) (31.3–39.6)	180 374		(32.7–42.4) (36.8–44.1)	319 522	51.0	(50.7–62.9) (46.4–55.6)	245 406		(34.8–45.6) (36.4–42.7)	129 170	20.2 16.1	(14.7–25.7) (13.4–18.8)
Greater than high school	539		1/			(14.0–18.5)			(34.8–39.2)			(31.1–35.9)			(34.0–38.9)			(40.5–46.7)			(31.7–37.0)			(14.3–17.7)
Health-related factors																								
Health insurance or coverage (inc										2 mont	hs	(00.0.05.5)	470	04.4	(00.0.07.0)	F70	20.0	(05.0.40.0)	400	20.0	/00 C 00 A	004	40.4	(44.4.44.0)
Any private Public only, excluding RWHAP only	407 387		(27.7–36.3) (22.9–29.9)			(11.3–15.0) (20.3–25.6)			(31.5–36.9) (37.1–41.7)			(28.3–35.5) (31.7–38.5)	479 657		(30.9–37.8) (35.2–42.6)		38.3 53.6	(35.6–40.9) (49.8–57.3)	493 863		(28.6–33.1) (41.0–46.0)		13.1 20.9	(11.4–14.8) (18.6–23.2)
Uninsured or RWHAP only	68		(22.1–33.1)	87	27.0		101		(30.4–40.7)	93		(29.0–39.9)	122		(36.5–48.7)			(43.6–63.8)	94		(22.3–31.4)	33	9.9	(6.4–13.3)
Received RWHAP assistance, pas		nonths	,			,			,	4= 1		,			,			,			,		46.5	,
Yes No	329 512		(18.4–25.3) (32.2–38.4)			(20.2–23.9)			(36.2–41.4) (33.0–38.1)			(24.6–31.2) (36.1–42.6)	553 686	32.7	(29.7–35.8) (39.3–45.1)	872 860	47.5	(43.3–51.8) (44.0–49.5)	703	36.4	(33.9–38.9) (33.6–38.9)	328 327		(15.1–18.5) (14.2–18.3)
Confidence in completing health		55.5	(32.2–30.4)	JII	10.7	(14.1-19.4)	040	55.5	(33.0–36.1)	023	JJ.4	(30.1–42.0)	000	42.2	(J3.J -4 J.1)	000	40.0	(44.0 -4 5.5)	109	JU.Z	(33.0–30.8)	JZI	10.2	(14.2-10.3)
Somewhat, a little bit, not at all	188	26.2	(22.6-29.8)	238	25.3	(21.4–29.2)	343	39.8	(36.8-42.9)	259	32.8	(29.6–36.1)	309	37.7	(34.5-40.9)	523	55.7	(52.2-59.3)	395	40.8	(36.5-45.1)	198	20.3	(17.0–23.6)
Extremely, quite a bit	683	29.5	(25.9–33.2)	516	17.5	(15.4–19.6)	1,061	36.1	(34.4–37.7)	854	34.0	(31.1–36.9)	968					(42.1–47.7)						(14.1–16.8)
Has a disability ^m	227	26.0	(00 E 00 4)	400	26.0	(00 E 00 E)	622	40.0	(27.0 42.4)	E00	25.0	(20.0.20.0)	E00	40.4	(27.6. 42.0)	070	60.7	(E7 E C2 O)	042	40.0	(AC 1 E1 0)	125	26.2	(22 € 20 0)
Yes No	337 539		(23.5–30.1) (26.6–33.7)			(23.5–28.5) (12.8–16.7)	772	40.2 34.8	(37.2–43.1) (32.4–37.1)	618	32.4	(32.8–39.0) (29.2–35.6)	702	40.4 35.7	(37.6–43.2)	972 840	38.5	(57.5–63.9) (35.4–41.6)	654	46.9 28.0	(46.1–51.8) (25.9–30.1)	435 247		(23.6–28.9) (8.8–11.4)
Any unmet HIV ancillary service r	need, į	oast 12	months ⁿ			,						,			,	- · •	- 5.5	()			,			,
Yes	419	30.5	(26.0-34.9)	470	25.7	(23.3–28.0)	771	45.7	(42.9–48.5)	549	36.7	(32.4–41.0)	639	41.4	(37.6–45.2)	_	_	_	784	43.2	(40.1–46.3)	385	21.2	(18.8–23.7)
No	445	27.0	(23.0–30.3)	280	13.6	(11.7–15.6)	633	29.5	(27.4–31.5)	552	30.7	(28.2–33.2)	62/	აა.8	(31.6–36.0)	_	_	_	6//	ა∪.4	(28.5–32.3)	294	12.4	(11.5–13.6)

Table 9. Key clinical outcomes among adults with diagnosed HIV, by individual-level social determinants of health and quality of life—Medical Monitoring Project, United States, 2021 (cont)

•		·		·										•	•				•	•			•	• •
-	No	t retaii	ned in		Vissed	1≥1	N	/lissed	≥1	Virally	unsu	ppressed	Did not	t have	sustained	Had ≥1	unmet	needs for	Had 2	≥1 eme	rgency		Had≥	1
		HIV ca	are	an	nointn	nents,	Δ	RT do		•	t last t				ession,			services,		oom vis		hos	pitaliza	tions
			onths ^a		•			st 30 d	í.			onths ^c			onths ^d		•	onths ^e			•		st 12 mo	
-						nonths														st 12 m				
	n	row %	6 95% CI	n	row %	6 95% CI	n	row %	95% CI	n	row %	95% CI	n	row %	95% CI	n	row %	95% CI	n	row %	95% CI	n	row %	95% CI
Neighborhood and built environm	ent																							
Any met or unmet need for transp	ortati	on ass	sistance, pa	ast 12	month	ıs ^o																		
Yes	213	25.8	(21.6-29.9)	326	30.6	(27.5-33.8)	457	43.8	(40.3 - 47.3)		37.0	(33.0-41.0)	408		(39.1 - 45.9)		68.0	(64.0-72.0)				311	28.0	(24.7–31.2)
No	654	29.8	(26.1–33.6)	422	15.2	(13.3–17.0)	944	34.4	(32.4–36.5)	761	32.4	(30.0–34.8)	858	35.6	(33.4–37.8)	1,079	40.1	(37.2–42.9)	899	31.6	(29.7–33.5)	369	12.6	(11.4–13.7)
Social and community context																								
HIV health care discrimination am	ong p	erson	s who rece	ived c	are, p	ast 12 mon	ths ^p																	
Yes	170		(20.8-28.0)			(22.2-29.9)		48.6	(45.3-51.9)	232	32.6	(27.9-37.3)	266	36.9	(32.3-41.4)	511	64.1	(60.6-67.7)	379	45.8	(42.4-49.1)	180	22.0	(18.7-25.3)
No	521	23.2	(20.7–25.8)	479	17.3	(15.8–18.8)	940	33.7	(31.7–35.7)	719	29.0	(26.8–31.2)	845	33.0	(30.9–35.2)	1,165	42.1	(39.5–44.7)	984	34.0	(32.0–36.0)	453	15.2	(13.5–16.9)
Speaks English less than well																								
Yes	43	16.1	(10.4-21.8)	74	22.7	(18.9–26.5) (17.4–20.8)	89	28.0	(22.4-33.5)	64	21.8	(16.0-27.6)	78	26.6	(20.5-32.7)	128	40.1	(31.6-48.5)	116	33.6	(28.0 - 39.2)	61	16.6	(13.0-20.2)
No	834	29.8	(26.8–32.8)	682	19.1	(17.4–20.8)	1,318	37.6	(35.9–39.4)	1,056	34.8	(32.0–37.5)	1,207	38.5	(36.1–40.9)	1,686	48.1	(45.4–50.7)	1,356	36.8	(34.6–39.0)	623	16.7	(15.1–18.2)
Experiences of physical violence	by an	intima	te partner	or for	ced se	x, lifetime	l																	
Yes	284	29.4	(25.7–33.0)	307	22.9	(20.1–25.8)	565	46.3	(43.3 - 49.3)	367	34.1	(30.3-37.9)	426	38.4	(34.9-41.9)	745	59.2	(55.5-62.9)	557	42.1	(37.4-46.8)	250	18.7	(16.1-21.3)
No	567	28.5	(25.1–31.9)	423	17.2	(15.6–18.9)	814	32.4	(30.4–34.4)	708	33.2	(30.7–35.7)	810	36.8	(34.5–39.1)	1,032	41.3	(38.6–44.1)	873	33.3	(31.5–35.1)	418	15.6	(14.2–16.9)
Experiences of physical violence	by an	intima	te partner	or for	ced se	x, past 12	month	sq																
Yes	48		(22.7-40.2)		32.9	(20.7-45.1)	101	60.7	(52.8-68.5)	61	36.2	(28.1-44.3)	76	44.3	(36.9-51.6)	130	72.7	(66.5 - 78.9)	96	50.5	(40.4-60.6)	48	27.1	(19.6-34.5)
No	796	28.5	(25.3–31.8)	653	18.3	(16.6–20.1)	1,268	35.7	(34.2–37.2)	1,008	33.4	(30.9–35.8)	1,153	36.9	(34.7–39.2)	1,630	45.8	(43.1–48.5)	1,324	35.4	(33.4–37.5)	614	16.0	(14.5–17.4)
Incarcerated >24 hours, past 12 m	nonth	S																						
Yes	20		(13.3-41.5)		39.3	(26.9-51.8)	45	52.7	(38.5-66.9)	31	38.4	(26.8-49.9)	37	45.7	(33.9-57.6)	64	73.3	(63.2 - 83.4)	48		(38.3-66.7)	24		(15.8-42.8)
No	856	28.8	(25.9–31.8)	718	18.8	(17.1–20.5)	1,359	36.4	(34.9–38.0)	1,088	33.7	(31.2–36.2)	1,247	37.4	(35.2–39.5)	1,746	46.7	(44.1–49.3)	1,423	36.1	(34.2–38.0)	660	16.3	(14.9–17.7)
Abbroviations: n. number: Cl. confidence	inton	al· EDI	fodoral navo	rty love	I. DIVIL	AD Dyan W	hito HIV	ו סטוא//	Drogram: CF	V CD4	L T lym	nhoovto cou	nt (colle	lmm3 a	r colle/ul \ o	r norcon	taga [fo	otnotoc only	1. VDT	antirotro	wiral thoran	, Ifootr	otos onli	vI· DCD

Abbreviations: n, number; CI, confidence interval; FPL, federal poverty level; RWHAP, Ryan White HIV/AIDS Program; CD4, CD4+ T-lymphocyte count (cells/mm³ or cells/µL) or percentage [footnotes only]; ART, antiretroviral therapy [footnotes only]; PCP, Pneumocystis pneumonia [footnotes only]; MAC, Mycobacterium avium complex [footnotes only]; ADAP, AIDS Drug Assistance Program [footnotes only]; SNAP, Supplemental Nutrition Assistance Program [footnotes only]; WIC, Special Supplemental Nutrition Program for Women, Infants, and Children [footnotes only]; HHS, Department of Health and Human Services [footnotes only]; VA, Veterans Administration [footnotes only].

Note. Unweighted numbers and weighted percentages are presented. Cls incorporate weighted percentages. Excluded are estimates with a coefficient of variation ≥ 0.30 and those based on a denominator sample size < 30.

- a Defined as having <2 elements of outpatient HIV care at least 90 days apart in the past 12 months. Outpatient care was defined as any documentation of the following: encounter with an HIV care provider, viral load test result, CD4 test result, HIV resistance test or tropism assay, ART prescription, PCP prophylaxis, or MAC prophylaxis.
- b Based on self-report.
- ^C Defined as having most recent viral load documented in medical record as detectable or ≥200 copies/mL
- ^d Defined as having ≥1 viral load measurements documented as detectable or ≥200 copies/mL
- e Defined as needing, but not receiving, ≥1 HIV ancillary services related to HIV support (i.e., HIV case management, medicine through ADAP, adherence support, patient navigation, HIV peer group support), non-HIV medical services (i.e., dental care, mental health services, drug or alcohol counseling or treatment, domestic violence services), or subsistence services (i.e., SNAP or WIC, meal or food services, transportation assistance, shelter or housing services). Calculated among all persons.
- f "Good or better self-rated health" defined as rating one's health as good, very good, or excellent (as opposed to poor or fair) at the time of interview.
- ⁹ "Unmet need for mental health services from a mental health professional" defined as needing, but not receiving, services from a mental health professional among those who indicated needing mental health services (i.e., receiving or needing but not receiving) during the past 12 months.
- h "Unstable housing or homelessness" defined as experiencing unstable housing (i.e., moving in with others due to financial issues, moving 2 or more times, or being evicted) or homelessness (living on the street, in a shelter, in a single-room-occupancy hotel, or in a car) at any time during the past 12 months.
- 1 Unemployed persons included those who reported being unemployed at the time of interview, excluding persons who are unable to work, calculated among all adults with HIV.
- ¹ "Hunger/food insecurity" defined as going without food due to lack of money during the past 12 months.
- k Poverty guidelines defined by HHS. For persons interviewed in a particular calendar year, the HHS poverty guidelines from the previous year were used. For instance, the 2020 guidelines were used for persons interviewed in 2021. More information regarding HHS poverty guidelines can be found at https://aspe.hhs.gov/freguently-asked-guestions-related-poverty-guidelines-and-poverty.
- Persons could select more than 1 response for health insurance or coverage. Mutually exclusive categories are presented based on responses. Private coverage defined as receiving health insurance through a person's employer or purchased through the Health Insurance Marketplace or directly from a health insurance company. Public insurance included Medicaid, Medicare, VA, RWHAP, or other city, county, or state-funded insurance. Uninsured or RWHAP only category includes those who did not report having any insurance, or received RWHAP assistance only, without coverage through any other insurance categories.
- ^m Self-reported, and includes physical, mental, and emotional disabilities.
- ⁿ Represents those who needed, but did not receive, ≥1 HIV ancillary services, among all persons.
- O Represents those who needed transportation assistance, regardless of whether that assistance was received, among all persons.
- P HIV health care discrimination among those who received HIV care during the previous 12 months was assessed based on seven forms of discrimination, including: being treated with less courtesy than other persons, being treated with less respect than other persons, receiving poorer service than others, having a doctor or nurse act as if he or she believed they were not smart, having a doctor or nurse act as if he or she were afraid of them, having a doctor or nurse act as if he or she were better than them, and having a doctor or nurse not listen to what they were saying. Respondents were asked if they experienced these forms of discrimination never, rarely, some of the time, most of the time, and having a doctor or nurse act as if he or she were afraid of them, having a doctor or nurse act as if he or she were afraid of them, having a doctor or nurse act as if he or she were afraid of them, having a doctor or nurse act as if he or she were afraid of them, having a doctor or nurse act as if he or she were afraid of them, having a doctor or nurse act as if he or she were afraid of them, having a doctor or nurse act as if he or she were afraid of them, having a doctor or nurse act as if he or she were afraid of them, having a doctor or nurse act as if he or she were afraid of them, having a doctor or nurse act as if he or she were afraid of them, having a doctor or nurse act as if he or she were afraid of them, having a doctor or nurse act as if he or she were afraid of them, having a doctor or nurse act as if he or she were afraid of them, having a doctor or nurse act as if he or she were afraid of them, having a doctor or nurse act as if he or she were afraid of them, having a doctor or nurse act as if he or she were afraid of them, having a doctor or nurse act as if he or she were afraid of them, having a doctor or nurse act as if he or she were afraid of them, having a doctor or nurse act as if he or she were afraid of them, having a doct
- ^q Physical violence by an intimate partner defined as ever being slapped, punched, shoved, kicked, choked, or otherwise physically hurt by a romantic or sexual partner. Forced sex defined as ever being threatened with harm or physically forced to have unwanted vaginal, anal, or oral sex.

Table 10. Median HIV stigma scores by key clinical outcomes among adults with diagnosed HIV—Medical Monitoring Project, 2021

	n	Median score	95% CI
Not retained in care, past 12 months ^a			
Yes	815	29.1	(26.7–31.5)
No	2,764	28.7	(27.4–30.0)
Missed ≥1 HIV care appointments, past 12 months			
Yes	708	35.0	(31.6-38.3)
No	2,982	27.8	(26.6–29.1)
Missed ≥1 ART doses, past 30 days ^b			
Yes	1,325	31.0	(28.4-33.5)
No	2,255	27.7	(26.7–28.8)
Virally unsuppressed at last test, past 12 months ^c			
Yes	1,043	29.8	(27.5–32.1)
No	2,669	28.5	(27.4–29.5)
Did not have sustained viral suppression, past 12 months ^d			
Yes	1,194	29.6	(27.4–31.8)
No	2,518	28.5	(27.4–29.6)
Had ≥1 unmet needs for HIV ancillary services, past 12 months ^e			
Yes	1,693	33.6	(31.5–35.7)
No	2,010	25.0	(23.5–26.4)
Had ≥1 emergency room visits, past 12 months			
Yes	1,379	30.6	(28.0-33.1)
No	2,329	28.0	(26.7–29.2)
Had ≥1 hospitalizations, past 12 months			
Yes	649	31.1	(28.3-33.8)
No	3,057	28.5	(27.3-29.6)

Abbreviation: n, number; CI, confidence interval; ART, antiretroviral therapy; CD4, CD4+ T-lymphocyte count (cells/mm³ or cells/µL) or percentage [footnotes only]; PCP, *Pneumocystis* pneumonia [footnotes only]; MAC, *Mycobacterium avium* complex [footnotes only]; ADAP, AIDS Drug Assistance Program [footnotes only]; SNAP, Supplemental Nutrition Assistance Program [footnotes only]; WIC, Special Supplemental Nutrition Program for Women, Infants, and Children [footnotes only].

Note. Unweighted numbers and weighted median scores are presented. CIs incorporate weighted medians.

^a Defined as having <2 elements of outpatient HIV care at least 90 days apart in each 12-month period. Outpatient care was defined as any documentation of the following: encounter with an HIV care provider, viral load test result, CD4 test result, HIV resistance test or tropism assay, ART prescription, PCP prophylaxis, or MAC prophylaxis.

b Based on self-report.

^c Defined as having most recent viral load documented in medical record as detectable or ≥200 copies/mL.

^d Defined as having ≥1 viral load measurements documented as detectable or ≥200 copies/mL.

^e Defined as needing, but not receiving, ≥1 HIV ancillary services related to HIV support (i.e., HIV case management, medicine through ADAP, adherence support, patient navigation, HIV peer group support), non-HIV medical services (i.e., dental care, mental health services, drug or alcohol counseling or treatment, domestic violence services), or subsistence services (i.e., SNAP or WIC, meal or food services, transportation assistance, shelter or housing services). Calculated among all persons.

Technical Notes & Appendix

TECHNICAL NOTES

Population of Inference

For the 2021 Medical Monitoring Project (MMP) data collection cycle (data collected June 1, 2021–May 31, 2022), the population of inference was adults with diagnosed HIV (aged ≥18 years) living in the United States.

A total of 23 areas were funded to conduct data collection for the 2021 cycle: California (including the separately funded jurisdictions of Los Angeles County and San Francisco), Delaware, Florida, Georgia, Illinois (including the separately funded jurisdiction of Chicago), Indiana, Michigan, Mississippi, New Jersey, New York (including the separately funded jurisdiction of New York City), North Carolina, Oregon, Pennsylvania (including the separately funded jurisdiction of Philadelphia), Puerto Rico, Texas (including the separately funded jurisdiction of Houston), Virginia, and Washington.

Data Collection

Persons with diagnosed HIV were sampled for MMP by using data from the National HIV Surveillance System (NHSS). Sampled persons were recruited by mail, by telephone, or in person. To be eligible to be included in MMP's 2021 data cycle, the person had to be, as of December 31, 2020: living with diagnosed HIV infection, aged ≥18 years, and residing in an MMP project area. The participant eligibility criteria were the same in all participating project areas.

A trained interviewer conducted an interview via telephone, in-person, or video format. English and Spanish versions of the questionnaire were used in the 2021 cycle. Persons speaking a language other than English or Spanish were offered an interview in their native language if an interpreter was available.

Persons who agreed to participate were offered an interview over the telephone or in person or video in a private location (e.g., at home or in a clinic). The interview (approximately 40 minutes) included questions about demographic characteristics, social determinants of health, health care use, met and unmet needs for ancillary services, sexual behavior, symptoms of depression and anxiety, gynecologic and reproductive history, substance use, and use of HIV/STD prevention services. Respondents were given a token of appreciation of no more than \$50 in cash or the equivalent for participation; tokens differed by project area according to local considerations.

After the interview, MMP staff abstracted clinical data from the medical records of respondents at the health care facility identified by the respondents as their most frequent source of HIV care. Abstracted information included diagnoses of AIDS-defining conditions, prescription of antiretroviral therapy (ART) medications, laboratory results, and health care use in the 24 months before the interview.

For further technical details, please see the appendix.

References

- 1. U.S. Department of Health and Human Services. Social Determinants of Health. https://health.gov/healthypeople/priority-areas/social-determinants-health. Accessed April 15, 2024.
- 2. CDC. NCHHSTP Social Determinants of Health: Frequently asked questions. https://www.cdc.gov/nchhstp/socialdeterminants/faq.html. Updated December 2019. Accessed April 15, 2024.
- 3. CDC. What is health equity? https://www.cdc.gov/healthequity/index.html. Updated April 2024. Accessed April 15, 2024.
- 4. White Office of National AIDS Policy (ONAP). National HIV/AIDS Strategy (2022–2025). https://www.hiv.gov/federal-response/national-hiv-aids-strategy/national-hiv-aids-strategy-2022-2025/. Updated December 2023. Accessed April 15, 2024.
- 5. Office of Infectious Disease and HIV/AIDS Policy, U.S. Department of Health and Human Services. EHE overview. https://www.hiv.gov/federal-response/ending-the-hiv-epidemic/overview/. Updated December 2023. Accessed April 15, 2024.

APPENDIX

Methods

The Medical Monitoring Project (MMP) uses a stratified, 2-stage sampling design. States were sampled first, with probability proportional to size (PPS). All 50 states, the District of Columbia, and Puerto Rico (defined as primary sampling units [PSUs]) were eligible for selection.

From these 52 PSUs, 20 were selected by using PPS sampling based on AIDS prevalence at the end of 2002. According to the PPS sampling method, states with a higher AIDS prevalence had a higher probability of selection, and those with a lower AIDS prevalence had a lower probability of selection [1, 2]. Six municipal jurisdictions receive separate funding for HIV surveillance (Chicago, Illinois; Houston, Texas; Los Angeles County, California; New York City, New York; Philadelphia, Pennsylvania; and San Francisco, California); these areas were included with the state for first-stage sampling and constituted a city-state unit. If a state included a city with independent HIV surveillance authority (e.g., Texas, which includes Houston), selection of the state included selection of the city (i.e., city-state units were selected together).

In 2004, 19 states (including the 6 separately funded areas within those states) and Puerto Rico were selected from the 52 PSUs, resulting in 26 MMP project areas. Because of funding constraints for the 2009 data collection cycle, 3 project areas (Maryland, Massachusetts, and South Carolina) were randomly selected to discontinue participation in MMP, and the total number of MMP areas was reduced to 23.

Analyses carried out in 2014 and subsequently in 2021 found that the original measure of size with which states were originally sampled (i.e., AIDS prevalence in 2002) was still a reasonable proxy for the distribution of HIV prevalence. The selected sample of states was still sufficiently representative of the population of persons with diagnosed HIV; consequently, selecting a new sample for the 2015 and subsequent data collection cycles was unwarranted. In addition, the change in the sampling frame and the availability of national totals from the National HIV Surveillance System (NHSS) presented new options for calibrating weights, further lessening the need for any adjustments to the sample of states.

At the second stage, persons with a reported diagnosis in NHSS were sampled after the selection of the states. The sampling frame was the national case surveillance data set containing records submitted to the Centers for Disease Control and Prevention (CDC) as of December 31, 2020. Using NHSS data, the initial national frame dataset was created for persons who were alive, had diagnosed HIV infection, were aged 18 years or older, and were living in the United States, the District of Columbia, or Puerto Rico on the sampling date (i.e., December 31, 2020). Each case was assigned to a surveillance jurisdiction based on the most recently reported residence in NHSS. These addresses primarily came from case report forms and HIV-related laboratory reports. From this initial national frame, CDC staff drew simple random samples for each of the 23 project areas; project area staff then linked their samples to local case surveillance systems and extracted contact information for use in locating sampled persons, whom they then attempted to recruit.

Eligibility and Response Classifications

Persons were eligible for participation if, as of the sampling date, they had received a diagnosis of HIV, were aged ≥18 years, were alive, and were a resident of an MMP project area. Sampled persons were presumed to be eligible based on their information in NHSS unless data from another source contradicted this status. Persons were classified into 4 categories: (1) eligible respondents, (2) contacted nonrespondents, (3) nonrespondents who were not contacted, and (4) ineligible persons. These categories were used in calculating final response rates and contact rates following standard formulas [3].

Weighting

Overview

For the 2021 MMP cycle, sets of weights were produced nationally, for the city-state combinations, and for each project area. This report presents national weighted data and, thus, represents all adults with diagnosed HIV infection living in the United States. Nationally, data were weighted based on known probabilities of selection at the state or jurisdiction level and person level and then adjusted for multiplicity and nonresponse. After adjusting for nonresponse, the weights were poststratified to population totals from the NHSS frame. Extreme weights, if present, were trimmed, and the weights were adjusted to the same population totals.

For the weighting process, an updated sampling frame was obtained from NHSS data approximately a year and a half after sampling, during which time additional information reported to NHSS may have become available for sampled persons and additional diagnoses may have been reported. This updated sampling frame added records that would have been eligible if their information had been reported to NHSS on the date the initial sample was drawn; primarily, these were diagnoses that occurred during the year prior to the MMP sampling date (for the 2021 cycle, December 31, 2020). Additionally, some persons were found to have had multiple records at the time of sampling that were later identified as duplicate records. In some cases, updated information indicated that a person originally judged eligible and included on the original frame was ineligible. The updated sampling frame data also provided descriptive information for all sampled persons regardless of response and were the source of data used for nonresponse analysis and weighting.

Adjustments for unequal selection probabilities

The first step in the computation of weights was the calculation of base weights that reflect the sampling design probabilities. The base weight for each sampled person incorporates both the probability of selecting a project area and the probability of selecting a person within a project area. A person who was sampled from one jurisdiction but lived in another area at the time of sampling retained the original base weight. Prior to weighting, such cross-jurisdictional records were grouped with their project area of residence at the time of sampling. This moving of records did not affect the national weights but did affect the project area weight totals, increasing some while decreasing others.

Adjustments for multiplicity

A multiplicity factor was applied to the person weight for persons with records found to be present more than once after the original frame was compared to the updated sampling frame. This factor, which accounts for some persons' multiple opportunities for being sampled, was capped at 2.0 and was applicable for only 29 persons.

Adjustments for nonresponse

A nonresponse adjustment factor was applied to the multiplicity-adjusted base weight based on an analysis of nonresponse. In 2021, updated sampling frame data provided descriptive information about all sampled persons, which was used to assess how these characteristics were associated with nonresponse. The potential predictors of nonresponse were: race/ethnicity, male-to-male sexual contact (MMSC) HIV transmission category, HIV/AIDS disease stage, disease progression measured by most recent viral load test reported to NHSS, time since HIV diagnosis, age of most recent contact information, the person's frequency of receipt of HIV care (as indicated by NHSS records), movement to a different MMP jurisdiction since the time of sampling, non-U.S. birthplace, sex at birth, and age at sampling date. The nonresponse analysis followed a 2-step process. First, a bivariate analysis was conducted to determine which characteristics were potential predictors of nonresponse; then, a multivariate analysis using the significant characteristics from the bivariate analysis was conducted to identify independent predictors of nonresponse. Three significant predictors from this multivariate analysis were used to create weighting classes for the national data. In 2021, the significant predictors of nonresponse were: the person's frequency of receipt of HIV care (as indicated by NHSS records), sex at birth, and age of latest contact information. Within weighting classes, the adjustment factor

for nonresponse was the ratio of the sum of the multiplicity-adjusted base weights for eligible sampled cases to the sum of these weights for eligible respondents. The multiplicity adjusted weight within each nonresponse weighting class was then multiplied by the nonresponse adjustment factor to produce the nonresponse adjusted weights.

Poststratification and trimming

Poststratification methods ensure that weighted totals sum to known population totals and, therefore, minimize the potential for biases due to nonresponse and noncoverage. However, poststratification can also add additional variance to the weights. Thus, trimming procedures are used to control weight variability and reduce its impact on survey variances. MMP used an iterative approach that combines poststratification and trimming so that trimmed weights retain their variance-reducing features after poststratification and ensures that poststratified weights add up to known population totals.

The nonresponse adjusted weights were first poststratified to population totals from the updated sampling frame. The poststratification cells were defined by crossing sex at birth, race/ethnicity, and age group. Nationally, there were 32 poststratification cells. Poststratification adjustments were performed within each poststratification cell so that the weighted sum was preserved in each cell. To reduce additional variance added to poststratified weights, cells were collapsed and the need for weight trimming was evaluated. Poststratified cells were collapsed when cells had 2 or fewer respondents or had an extreme adjustment factor (≥ 1.75). The need for trimming was then assessed. If the design effect due to weighting (measured as $1 + \text{CV}^2$, where CV is the coefficient of variation of the weights) had exceeded 1.75, we would have capped the weights at the median weight plus 4 times the interquartile range of the weights; where trimming occurred, the weights were redistributed and poststratified again to the population totals. However, no trimming was needed for the 2021 MMP national weights.

Design variables

Nationally, design variables indicating strata and cluster membership for each participating person accounting for the sample design were created. Many project areas were sampled with certainty because of higher AIDS prevalence, and each of these was defined as its own stratum. Elsewhere, strata were created by grouping 2 to 3 project areas (PSUs in the stratified PPS design) that had similar selection probabilities. Among the 23 project areas, 14 were sampled with certainty. The 14 certainty project areas each represent a stratum, and each person within the stratum is a cluster. The remaining 9 noncertainty project areas were grouped to create strata, and each noncertainty project area was a cluster within the stratum. Multiple project areas within certainty states were effectively substrata, and each project area remained its own stratum. For local estimates, variance estimation was conditional on the initial sampling of states as PSUs, meaning that this stage of sampling was ignored. Respondents were treated as having come from a simple random sample with replacement, although the various adjustment factors induced unequal weights.

Definitions

NHAS indicators

- Self-rated health: Self-rated health is assessed using a single question that captures the respondent's self-perceived general health at the time of interview using a Likert-type scale with the following responses: poor, fair, good, very good, or excellent. Self-rated health was dichotomized as good or better health (i.e., good, very good, or excellent) versus less than good health (i.e., poor, fair). This measure is also used in several other national initiatives and surveys examining self-rated health among the general U.S. population (e.g., Healthy People 2030, National Health and Nutrition Examination Survey [NHANES], Behavioral Risk Factor Surveillance System [BRFSS]) [4, 5, 6].
- Unmet needs for mental health services from a mental health professional among persons who needed services: This measure was assessed through 2 questions. First, respondents were asked if they saw or talked

to a mental health professional (e.g., psychologist, psychiatrist, psychiatric nurse, or clinical social worker) about their health during the past 12 months. Next, they were asked if they needed to see or talk to a mental health professional about their health. The denominator represents persons who needed mental health services (i.e., those with a met or unmet need), and was defined as those who received services (met need) and those who needed, but did not receive, services (unmet need). The numerator represents those who needed, but did not receive, services (unmet need).

- Hunger/food insecurity: Persons who reported being hungry and not eating because there was not enough money for food in the past 12 months were considered to be food insecure.
- Unemployment: Unemployed persons included those who reported being unemployed at the time of interview, excluding persons who are unable to work, calculated among all adults with HIV.
- Unstable housing or homelessness: Persons were considered to have experienced unstable housing if they reported moving in with others due to financial issues, moving 2 or more times, or being evicted at any time during the past 12 months. Persons were considered to have experienced homelessness if they reported living on the street, in a shelter, in a single-room-occupancy hotel, or in a car during the past 12 months. Persons were considered to have experienced unstable housing or homelessness if they reported any form of unstable housing or homelessness during the past 12 months.
- HIV stigma: Defined as the weighted median score on a 10-item scale ranging from 0 (no stigma) to 100 (high stigma) that measures 4 dimensions of HIV stigma: personalized stigma during the past 12 months, current disclosure concerns, current negative self-image, and current perceived public attitudes about persons living with HIV, measured among persons aged ≥18 years with diagnosed HIV infection living in the United States and Puerto Rico. The HIV stigma scale used for this indicator is discussed in Wright, et al [7].

Demographic characteristics and additional social determinants of health

- Gender: Categories were cisgender male, cisgender female, and transgender. Respondents were classified as transgender if reported sex at birth and current gender as reported by the respondent were not the same or if the respondent answered "transgender" to the interview question regarding self-identified gender.
- Race/ethnicity: Respondents were asked about whether they considered themselves as being of Hispanic, Latino/a, or Spanish origin. They were also asked about racial groups they identified as; respondents could check all categories that applied to them. These data were used to create the following analytic racial/ethnic categories: American Indian/Alaska Native, Asian, Black/African American, Hispanic/Latino, Native Hawaiian/other Pacific Islander, White, and multiple races. Hispanic/Latino persons could be of any race.

NHAS priority populations

- Gay, bisexual, or other men who had sex with men (MSM): Included cisgender men with diagnosed HIV who reported having sex with ≥1 cisgender man in the past 12 months (among persons who had sex during the past 12 months) and cisgender men with diagnosed HIV who reported identifying as gay or bisexual (among those who did not have sex during the past 12 months).
- Black/African American MSM: Included MSM with diagnosed HIV who identified as non-Hispanic/Latino Black/African American race/ethnicity.
- Hispanic/Latino MSM: Included MSM with diagnosed HIV who identified as Hispanic/Latino race/ethnicity. Hispanic or Latino MSM could be of any race.
- American Indian/Alaska Native MSM: Included MSM with diagnosed HIV who identified as American Indian/Alaska Native race/ethnicity.
- Black/African American cisgender women: Included cisgender women with diagnosed HIV who identified as non-Hispanic Black/African American race/ethnicity.

- Transgender women: Persons with diagnosed HIV were classified as transgender women if the person reported that their sex assigned at birth was male but identified as female or transgender.
- Persons aged 18–24 years: Priority population for youths includes persons with diagnosed HIV aged 13–24 years; however, data from MMP are only available and presented for persons aged 18–24 years.
- Persons who inject drugs: Included persons with diagnosed HIV who reported injecting drugs for non-medical purposes during the past 12 months.

Other factors related to social determinants of health

- Federal poverty guidelines: Respondents were asked about their combined monthly or yearly household income (in U.S.\$) from all sources during the calendar year prior to the interview date. The number of persons meeting the current federal poverty threshold was determined by using the U.S. Department of Health and Human Services poverty guidelines that corresponded to the calendar year for which income was asked. These guidelines are issued yearly for the 48 contiguous states and Washington, D.C., and are an indicator used for determining eligibility for many federal and state programs. The 2020 guidelines [8] were used for respondents interviewed in 2021, and the 2021 guidelines [9] were used for persons interviewed in 2022. Because the poverty guidelines are not defined for the territory of Puerto Rico, the guidelines for the contiguous states and Washington, D.C. were used for this jurisdiction. Respondents were asked to specify their income range, and household income was assumed to be the midpoint of the income range.
- Health insurance or coverage (including receipt of Ryan White HIV/AIDS Program [RWHAP] assistance): Respondents were asked whether they had health insurance or coverage during the 12 months before interview—including assistance through the RWHAP, a federally-funded comprehensive care program that provides HIV primary care, medications, and essential support services for low-income persons with HIV [10]. Respondents could select more than 1 response for health insurance or coverage. Responses to these questions were combined and categorized as having any private health insurance; having public insurance only; and being uninsured or being covered through RWHAP only. Private insurance included receipt of health insurance through a person's employer or family member's employer, or health insurance purchased through the Health Insurance Marketplace or directly from a health insurance company. Public insurance included Medicaid, Medicare, TRICARE/CHAMPUS, Veterans Administration insurance, and other public health insurance plans. Those who only received RWHAP assistance were considered to not have health insurance.
- Disability: Defined as having a physical, mental, and/or emotional disability. Respondents were considered to have a disability if they reported being deaf or having serious difficulty hearing; being blind or having serious difficulty seeing, even when wearing glasses; having serious difficulty concentrating, remembering, or making decisions because of a physical, mental, or emotional condition; having serious difficulty walking or climbing stairs; having difficulty dressing or bathing; or having difficulty completing errands alone such as visiting a doctor's office or shopping because of a physical, mental, or emotional condition.

Clinical outcomes

- Outpatient HIV medical care: Defined as documentation of any of the following at the most frequent source of HIV care: encounter with an HIV care provider, viral load test result, CD4 test result, HIV resistance test or tropism assay, ART prescription, pneumocystis pneumonia (PCP) prophylaxis, or Mycobacterium avium complex (MAC) prophylaxis. All were measured through documentation in the person's medical record; an encounter with an HIV care provider was also measured based on interview self-report.
- Retention in HIV care: Persons were considered to be retained in care if they had 2 elements of outpatient HIV care at least 90 days apart in each 12-month period reviewed.
- ART dose adherence: Respondents were asked about how many days they missed at least 1 dose of their HIV medicines during the 30 days before interview as part of a 3-item ART adherence scale developed by

- Wilson and colleagues [11]. Respondents were considered ART dose adherent if they reported not missing any doses of their HIV medicines during the 30 days before interview.
- Viral suppression: Viral loads were abstracted from medical records from the facility where respondents most frequently received HIV care. Lack of viral suppression was assessed based on two measures. Lack of viral suppression at last test was defined as having the viral load measurement at last test documented as detectable or ≥200 copies/mL. Lack of sustained viral suppression was defined as having any viral load measurement during the past 12 months documented as detectable or ≥200 copies/mL. Those with no viral load tests were considered to be unsuppressed.
- Unmet needs for HIV ancillary services: HIV ancillary services were defined as services that support retention in routine HIV medical care and viral suppression, such as HIV case management, dental care, and mental health services [12]. HIV ancillary services include services that support HIV medical care more directly, or those that support a person's general health through other types of services. HIV ancillary services included: HIV case management; medicine through ADAP; adherence support services; HIV peer group support; and patient navigation services (patient navigation services could have been for HIV medical care or other types of care); dental care; mental health services; drug or alcohol counseling or treatment; and domestic violence services; Supplemental Nutrition Assistance Program (SNAP) or Special Supplemental Nutrition Program for Women, Infants, and Children (WIC); transportation assistance; meal or food services; and shelter or housing services. Needs for SSI, SSDI, interpreter services, and lawyer/legal services were dropped after the 2017 cycle and could not be incorporated in estimates for unmet needs for ≥1 HIV ancillary service were not reported from 2018 cycle onwards. For this reason, estimates for unmet needs for ≥1 HIV ancillary service were not reported from 2015–2017.

References

- 1. Frankel MR, McNaghten A, Shapiro MF, et al. A probability sample for monitoring the HIV-infected population in care in the U.S. and in selected states. *Open AIDS J* 2012;6(Suppl 1):67–76. http://dx.doi.org/10.2174/1874613601206010067
- 2. Beer L, Johnson CH, Fagan JL, et al. A national behavioral and clinical surveillance system of adults with diagnosed HIV (the Medical Monitoring Project): Protocol for an annual cross-sectional interview and medical record abstraction survey. *JMIR Res Protoc* 2019;8(11):e15453. http://dx.doi.org/10.2196/15453
- 3. The American Association for Public Opinion Research. Standard Definitions: Final dispositions of case codes and outcome rates for surveys. 10th ed. https://aapor.org/wp-content/uploads/2023/05/Standards-Definitions-10th-edition.pdf. Revised 2016. Accessed April 15, 2024.
- 4. Office of Disease Prevention and Health Promotion, U.S. Department of Health and Human Services. Healthy People 2030. https://health.gov/healthypeople/objectives-and-data/browse-objectives. Updated January 15, 2021. Accessed April 15, 2024.
- 5. CDC. National Center for Health Statistics: National Health and Nutrition Examination Survey. https://www.cdc.gov/nchs/nhanes/index.htm. Updated July 28, 2022. Accessed April 15, 2024.
- 6. CDC. Behavioral Risk Factor Surveillance System. https://www.cdc.gov/brfss/index.html. Updated January 2024. Accessed April 15, 2024.
- 7. Wright K, Naar-King S, Lam P, Templin T, Frey M. Stigma scale revised: Reliability and validity of a brief measure of stigma for HIV+ youth. *J Adolesc Health* 2007;40(1):96–98. doi:10.1016/j.jadohealth.2006.08.001
- 8. U.S. Department of Health and Human Services. 2020 Poverty guidelines computations. https://aspe.hhs.gov/topics/poverty-economic-mobility/poverty-guidelines/prior-hhs-poverty-guidelines-federal-register-references/2020-poverty-guidelines/2020-poverty-guidelines-computations. Accessed April 15, 2024.
- 9. U.S. Department of Health and Human Services. 2021 Poverty guidelines computations. https://aspe.hhs.gov/topics/poverty-economic-mobility/poverty-guidelines/prior-hhs-poverty-guidelines-federal-register-references/2021-poverty-guidelines/2021-poverty-guidelines-computations. Accessed April 15, 2024.
- 10. Health Resources and Services Administration. HRSA Ryan White HIV/AIDS Program: Program parts and initiatives. https://ryanwhite.hrsa.gov/about/parts-and-initiatives. Updated December 2023. Accessed April 15, 2024.
- 11. Wilson IB, Lee Y, Michaud J, Fowler FJ Jr, Rogers WH. Validation of a new three-item self-report measure for medication adherence. *AIDS Behav* 2016;20(11):2700–2708. http://dx.doi.org/10.1007/s10461-016-1406-x.
- 12. Dasgupta S, Tie Y, Beer L, et al. Unmet needs for ancillary care services are associated with HIV clinical outcomes among adults with diagnosed HIV. *AIDS Care* 2021;34(5):606–614. http://dx.doi.org/10.1080/09540121.2021.1946001.