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Medical Problems of State and Federal Prisoners and Jail Inmates, 2011–12

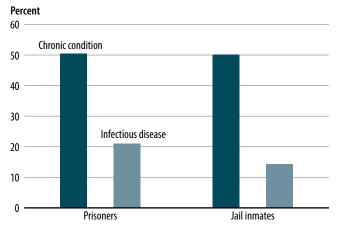
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n 2011–12, half of state and federal prisoners and local jail inmates reported ever having a chronic condition (figure 1). Chronic conditions include cancer, high blood pressure, stroke-related problems, diabetes, heart-related problems, kidney-related problems, arthritis, asthma, and cirrhosis of the liver. Twenty-one percent of prisoners and 14% of jail inmates reported ever having an infectious disease, including tuberculosis, hepatitis B and C, and other sexually transmitted diseases (STDs). About 1% of prisoners and jail inmates who had been tested for HIV reported being HIV positive.

This report uses data from the 2011–12 National Inmate Survey (NIS-3) to describe the health status and the health services and treatment received by state and federal prisoners and local jail inmates. Data from the 2009–2012 National Survey on Drug Use and Health (NSDUH) were used to compare the incarcerated populations to the general population. The general population was standardized

FIGURE 1

Prevalence of ever having a chronic condition or infectious disease among state and federal prisoners and jail inmates, 2011–12



Source: Bureau of Justice Statistics, National Inmate Survey, 2011–12.

HIGHLIGHTS

- In 2011–12, an estimated 40% of state and federal prisoners and jail inmates reported having a current chronic medical condition while about half reported ever having a chronic medical condition.
- Twenty-one percent of prisoners and 14% of jail inmates reported ever having tuberculosis, hepatitis B or C, or other STDs (excluding HIV or AIDS).
- Both prisoners and jail inmates were more likely than the general population to report ever having a chronic condition or infectious disease. The same finding held true for each specific condition or infectious disease.
- Among prisoners and jail inmates, females were more likely than males to report ever having a chronic condition.
- High blood pressure was the most common chronic condition reported by prisoners (30%) and jail inmates (26%).
- The majority of prisoners (74%) and jail inmates (62%) were overweight, obese, or morbidly obese.

- While female prisoners and jail inmates were less likely than males to be overweight, they were more likely to be obese or morbidly obese.
- About 66% of prisoners and 40% of jail inmates with a current chronic condition reported taking prescription medication.
- The majority of prisoners reported having been tested for HIV (71%) and for tuberculosis (94%) since admission.
 Among jail inmates, 11% had been tested for HIV and 54% for tuberculosis.
- Seventeen jurisdictions reported testing all inmates for HIV during the intake process, 11 reported opt-out testing, and 10 reported opt-in testing.
- More than half of prisoners (56%) and jail inmates (51%) said that they were either very satisfied or somewhat satisfied with the health care services received since admission.



twice, once to match the prison population and once to match the jail population by sex, age, race, and Hispanic origin. Standardizing the general population to the inmate population controls for differences in the distributions of sex, age, and race, and Hispanic origin, which are important risk factors for medical problems. Standardization removes the effect of sex, age, race, and Hispanic origin when comparing the prevalence of medical conditions between the incarcerated populations and the general population. However, it does not remove the effect of other factors associated with both incarceration status and outcome. The report details the prevalence of specific chronic conditions and infectious diseases and highlights important differences in the rates of each by demographic characteristics. It examines treatment received by inmates with health problems and describes inmate satisfaction with health services received while incarcerated.

Prisoners and jail inmates were more likely than the general population to report ever having a chronic condition or an infectious disease

When compared to the general population, both prisoners and jail inmates were more likely to report ever having a chronic condition, and they were more likely to report each of the specific chronic conditions measured. When compared to the general population, the measure of ever having a chronic condition excludes cancer, kidney-related problems, and arthritis or rheumatism because data were not collected on these chronic conditions in the NSDUH. Forty-four percent of prisoners reported ever having a chronic condition, compared to 31% of persons in the general population (table 1). Prisoners were about 1.5 times more likely than persons in the standardized general population to report ever having high blood pressure, diabetes, or asthma. About 45% of jail inmates reported

Difference between ever having and currently having chronic medical conditions

Estimates of chronic medical conditions among state and federal prisoners and jail inmates are based on self-reported information in the National Inmate Survey (NIS-3). Inmates were asked whether a doctor, nurse, or other health care provider ever told them they had select noninfectious medical conditions which were categorized as chronic conditions. Chronic medical conditions involve persistent health problems that have long-lasting effects, and include but are not limited to, the select conditions that were asked about in the NIS-3. This measure indicated a diagnosis of having the condition at least once in their lifetime, but does not mean that the inmate currently has the medical condition. As a measure of current medical conditions in the NIS-3, inmates were also asked at the time of the interview whether a doctor, nurse, or other health care provider had told them they currently had select noninfectious medical conditions.

The data show that an estimated 50% of prisoners and jail inmates reported ever having a chronic condition compared to 40% currently having a chronic condition. The percentage of inmates who reported currently having a chronic condition was lower than those who reported ever having a chronic condition because over time, a past condition may have been resolved, gone into remission, or no longer required treatment. The measure of ever having a chronic medical condition indicates the percentage of inmates who are potentially at risk for future medical problems while the measure of current condition indicates the percentage of inmates who may have needed health care services at the time of interview.

TABLE 1
Prevalence of ever having a chronic condition or infectious disease among state and federal prisoners and the general population (standardized), 2011–12

| | State and fe | deral prisoners | General population*a | | |
|---|--------------|-----------------|----------------------|----------------|--|
| Chronic condition/infectious disease | Percent | Standard error | Percent | Standard error | |
| Ever had a chronic condition ^b | 43.9%** | 1.5% | 31.0% | 0.3% | |
| Cancer | 3.5 | 0.4 | / | : | |
| High blood pressure/hypertension | 30.2** | 1.2 | 18.1 | 0.3 | |
| Stroke-related problems | 1.8** | 0.3 | 0.7 | 0.1 | |
| Diabetes/high blood sugar | 9.0** | 0.8 | 6.5 | 0.2 | |
| Heart-related problems ^c | 9.8** | 1.0 | 2.9 | 0.1 | |
| Kidney-related problems | 6.1 | 0.7 | / | : | |
| Arthritis/rheumatism | 15.0 | 0.9 | / | : | |
| Asthma | 14.9** | 0.9 | 10.2 | 0.2 | |
| Cirrhosis of the liver | 1.8** | 0.3 | 0.2 | | |
| Ever had an infectious disease ^d | 21.0%** | 1.3% | 4.8% | 0.2% | |
| Tuberculosis | 6.0** | 0.6 | 0.5 | 0.1 | |
| Hepatitis ^e | 10.9** | 1.0 | 1.1 | 0.1 | |
| Hepatitis B | 2.7 | 0.4 | / | : | |
| Hepatitis C | 9.8 | 1.0 | / | : | |
| STDs ^f | 6.0** | 0.5 | 3.4 | 0.1 | |
| HIV/AIDS | 1.3%** | 0.3% | 0.4% | 0.1% | |

^{*}Comparison group.

/Not collected in the NSDUH.

Source: Bureau of Justice Statistics, National Inmate Survey (NIS), 2011–12; and the Substance Abuse and Mental Health Services Administration, National Survey on Drug Use and Health (NSDUH), 2009–2012.

^{**}Difference with comparison group is significant at the 95% confidence level.

⁻⁻Less than 0.05%.

[:] Not calculated.

^aGeneral population estimates were standardized to match the prison population by sex, age, race, and Hispanic origin.

bIncludes only conditions measured by both the NIS and NSDUH. In the NSDUH, persons were asked if a doctor or other medical professional had ever told them that they had high blood pressure, a stroke, diabetes, heart disease, asthma, or cirrhosis of the liver.

For state and federal prisoners, heart-related problems could include angina; arrhythmia; arteriosclerosis; heart attack; coronary, congenital, or rheumatic heart disease; heart valve damage; tachycardia; or other type of heart problem.

^dExcludes HIV or AIDS due to unknown or missing data. Only those tested reported results.

^eIncludes hepatitis B and C for the prison population and all types of hepatitis for the general population.

^fExcludes HIV or AIDS.

ever having a chronic condition, compared to 27% of the standardized general population (table 2). Jail inmates were nearly two times more likely than persons in the general population to report ever having high blood pressure, diabetes, or asthma.

An estimated 21% of prisoners and 14% of jail inmates reported ever having tuberculosis, hepatitis, or other STDs excluding HIV or AIDS, compared to 5% of the general population. For each type of infectious disease, prisoners and jail inmates were more likely than those in the general population to report ever having that infectious disease.

High blood pressure was the most commonly reported chronic condition among prisoners and jail inmates

Similar to the standardized general population, the most commonly reported chronic condition reported by both prisoners and jail inmates was high blood pressure. Nearly a third (30%) of prisoners and more than a quarter (26%) of jail inmates reported high blood pressure. Asthma (15% for prisoners and 20% for jail inmates) and arthritis (15% for prisoners and 13% for jail inmates) were the second and third most common chronic conditions.

TABLE 2
Prevalence of ever having a chronic condition or infectious disease among jail inmates and the general population (standardized), 2011–12

| | Jail i | nmates | General | population*a |
|---|---------|----------------|---------|----------------|
| Chronic condition/infectious disease | Percent | Standard error | Percent | Standard error |
| Ever had a chronic condition ^b | 44.7%** | 1.2% | 26.9% | 0.3% |
| Cancer | 3.6 | 0.4 | / | : |
| High blood pressure/hypertension | 26.3** | 1.1 | 13.9 | 0.2 |
| Stroke-related problems | 2.3** | 0.3 | 0.5 | |
| Diabetes/high blood sugar | 7.2** | 0.6 | 4.5 | 0.1 |
| Heart-related problems ^c | 10.4** | 0.7 | 1.9 | 0.1 |
| Kidney-related problems | 6.7 | 0.5 | / | : |
| Arthritis/rheumatism | 12.9 | 0.7 | / | : |
| Asthma | 20.1** | 1.0 | 11.4 | 0.2 |
| Cirrhosis of the liver | 1.7** | 0.3 | 0.1 | |
| Ever had an infectious disease ^{c/d} | 14.3%** | 0.7% | 4.6% | 0.1% |
| Tuberculosis | 2.5** | 0.3 | 0.4 | |
| Hepatitis ^{d/e} | 6.5** | 0.5 | 0.9 | |
| Hepatitis B | 1.7 | 0.2 | / | : |
| Hepatitis C | 5.6 | 0.5 | / | ; |
| STDs ^{e/f} | 6.1** | 0.5 | 3.5 | 0.1 |
| HIV/AIDS | 1.3%** | 0.2% | 0.3% | |

^{*}Comparison group.

/Not collected in the NSDUH.

Source: Bureau of Justice Statistics, National Inmate Survey (NIS), 2011–12; and the Substance Abuse and Mental Health Services Administration, National Survey on Drug Use and Health (NSDUH), 2009–2012.

 $^{^{\}rm I}$ In the NSDUH, he patitis includes all types. In the NIS-3, he patitis includes he patitis B and he patitis C.

^{**}Difference with comparison group is significant at the 95% confidence level.

⁻⁻Less than 0.05%.

[:] Not calculated.

^aGeneral population estimates were standardized to match the prison population by sex, age, race, and Hispanic origin.

bIncludes only conditions measured by both the NIS and NSDUH. In the NSDUH, persons were asked if a doctor or other medical professional had ever told them that they had high blood pressure, a stroke, diabetes, heart disease, asthma, or cirrhosis of the liver.

For jail inmates, heart-related problems could include angina; arrhythmia; arteriosclerosis; heart attack; coronary, congenital, or rheumatic heart disease; heart valve damage; tachycardia; or other type of heart problem.

dExcludes HIV or AIDS due to unknown or missing data. Only those tested reported results.

^eIncludes hepatitis B and C for the jail population and all types of hepatitis for the general population.

fEveludes HIV or AIDS

Among prisoners, hepatitis C was the most commonly reported infectious disease (10%), followed by tuberculosis and STDs (6% each). Among jail inmates, nearly 6% reported ever having hepatitis C, 6% ever had some other STD, and 2% ever had tuberculosis. About 1% of both prisoners and jail inmates who were tested reported having HIV or AIDS.

Chronic conditions were more commonly reported by female inmates both in prisons and jails

Female prisoners and jail inmates were more likely than males to report ever having a chronic condition (table 3). About two-thirds of females in both prisons (63%) and jails (67%) reported ever having a chronic condition, compared to half of males in prisons (50%) and jails (48%). In prisons, 25% of females and 21% of males reported ever having an infectious disease. In jails, 20% of females reported ever having an infectious disease, compared to 13% of males.

Hispanic prisoners and jail inmates were less likely than white and black prisoners and jail inmates to report ever having an infectious disease. About 57% of white, 52% of black, and 41% of Hispanic prisoners reported ever having a chronic condition. Similarly, 54% of white, 50% of black, and 37% of Hispanic jail inmates reported ever having a chronic condition. White prisoners were almost 1.5 times more likely than black prisoners to report ever having an infectious disease. About 15% of both white and black jail inmates reported ever having an infectious disease, compared to 10% of Hispanic inmates.

Older prisoners were about 3 times more likely than younger persons to report ever having a chronic condition or infectious disease

Older prisoners and jail inmates were more likely than younger persons to report ever having a chronic condition or infectious disease. Prisoners age 50 or older were about 2.5 times more likely than those ages 18 to 24 to report ever having a chronic condition. Similarly, jail inmates age 50 or older were about 2 times more likely than those ages 18 to 24 to report ever having a chronic condition. About 1 in 10 prisoners and jail inmates ages 18 to 24 reported ever having an infectious disease. Prisoners (35%) and jail inmates (30%) age 50 or older were about 3 times more likely to report having an infectious disease than those ages 18 to 24.

TABLE 3
Prevalence of ever having a chronic condition or infectious disease among state and federal prisoners and jail inmates, by demographic characteristics, 2011–12

| | Chronic cond | lition ^a | Infectious dis | sease ^b |
|-----------------------------------|---|---------------------|------------------------------|--------------------|
| Demographic characteristic | characteristic State and federal prisoners* | | State and federal prisoners* | Jail inmates |
| All inmates | 50.5% | 50.2% | 21.0% | 14.3%** |
| Sex | | | | |
| Male † | 49.6% | 47.8% | 20.7% | 13.4%** |
| Female | 62.9 †† | 66.6 †† | 25.0 | 20.1 †† |
| Age | | | | |
| 18-24† | 27.5% | 37.7%** | 11.0% | 9.5% |
| 25–34 | 40.9 †† | 45.6 †† | 19.7 †† | 13.1 ††** |
| 35–49 | 55.5 †† | 57.7 †† | 18.8 †† | 15.0 ††** |
| 50 or older | 72.6 †† | 78.6 †† | 35.1 †† | 30.1 †† |
| Race/Hispanic origin ^c | | | | |
| White | 57.4% | 54.3% | 24.6% †† | 14.9%** |
| Black/African American † | 51.9 | 49.7 | 16.7 | 15.2 |
| Hispanic/Latino | 40.6 †† | 37.1 †† | 23.4 | 10.1 ††** |
| Other ^d | 49.4 | 61.3 †† | 20.0 | 14.9 |

Note: The jail population was not standardized to match the prison population. Therefore, differences observed may be due to differences in prison and jail population by sex, age, race, and Hispanic origin. See appendix table 8 for standard errors.

^{*}Comparison group.

^{**}Difference with comparison group is significant at the 95% confidence level.

[†] Comparison group.

^{††} Difference with comparison group is significant at the 95% confidence level.

^aIncludes cancer, high blood pressure or hypertension, stroke-related problems, diabetes or high blood sugar, heart-related problems, kidney-related problems, arthritis or rheumatism, asthma, and cirrhosis of the liver.

^bIncludes tuberculosis, hepatitis B, hepatitis C, and STDs. Excludes HIV or AIDS due to unknown or missing data.

^cExcludes persons of Hispanic or Latino origin, unless specified.

dIncludes persons identified as American Indian or Alaska Native; Asian, Native Hawaiian, or other Pacific Islander; and two or more races.

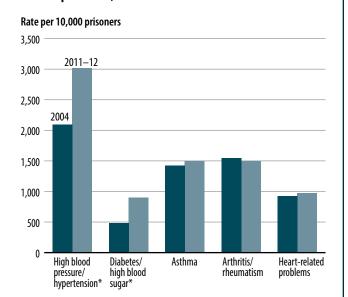
Source: Bureau of Justice Statistics, National Inmate Survey, 2011–12.

Rates of high blood pressure and diabetes increased among prisoners and jail inmates

In the Bureau of Justice Statistics' (BJS) 2002 Survey of Inmates in Local Jails and 2004 Survey of Inmates in State and Federal Correctional Facilities, inmates were asked a series of questions to determine if they ever had or currently have a chronic condition. Inmates were also asked about specific chronic conditions. The 2011-12 National Inmate Survey (NIS-3) included a more restricted measure of ever had or currently having a chronic condition. In the NIS-3, inmates were asked if a doctor, nurse, or other health care provider ever told them that they had a certain chronic condition and, if a doctor, nurse, or health care provider told them that they currently had the chronic condition. Although the NIS-3 collected a more conservative measure, prevalence estimates of some common chronic conditions were higher in 2011–12 than 2002 and 2004, indicating true increases have occurred over time.

Between 2004 and 2011–12, rates of high blood pressure and diabetes rose among prisoners (figure 2). The rate of diabetes in 2011–12 (899 per 10,000 prisoners) was almost twice the rate in 2004 (483 per 10,000). The rate of high blood pressure (3,020 per 10,000 prisoners) was almost 1.5 times the rate in 2004 (2,093 per 10,000). Similar rates were observed for asthma, arthritis, and heart-related problems. Although data suggest stability in these rates, caution should be taken when interpreting data, as the methodology was updated for 2011–12.

FIGURE 2 Rate of ever having a chronic condition among state and federal prisoners, 2004 and 2011–12



Note: See appendix table 9 for standard errors.

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^{*}Differences between years are significant at the 95% confidence level. Source: Bureau of Justice Statistics, National Inmate Survey, 2011–12; and Survey of Inmates in State and Federal Correctional Facilities, 2004.

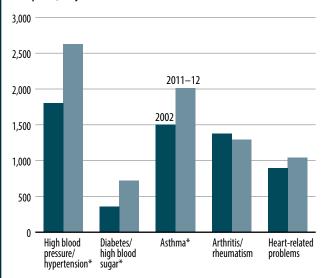
Rates of high blood pressure and diabetes increased among prisoners and jail inmates (continued)

Similar trends were observed among jail inmates (**figure 3**). The 2011–12 rate of jail inmates who reported ever having diabetes (723 per 10,000 jail inmates) was twice the 2002 rate (361 per 10,000), and the rate of high blood pressure in 2011–12 was almost 1.5 times higher than the rate in 2002. The rate of asthma also rose between 2002 and 2011–12, from 1,502 per 10,000 jail inmates to 2,012 per 10,000. Although data suggest that the rates of arthritis and heart-related problems among jail inmates were relatively stable, caution should be taken when interpreting data, as the methodology was updated for 2011–12.

FIGURE 3 Rate of ever having a chronic condition among jail

Rate per 10,000 jail inmates

inmates, 2002 and 2011-12



Note: See appendix table 10 for standard errors. For comparability to the 2011–12 rates, jail inmates age 17 or younger were excluded when calculating 2002 rates of ever having each specific chronic condition.

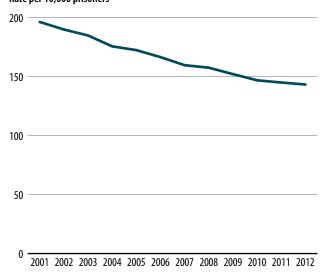
*Differences between years are significant at the 95% confidence level. Source: Bureau of Justice Statistics, National Inmate Survey, 2011–12; and Survey of Inmates in Local Jails, 2002.

Rate of HIV or AIDS in state and federal prisons continued to decline

Based on data from administrative records reported through BJS's National Prisoner Statistics (NPS-1) data collection, 18,945 state and federal prisoners were infected with HIV or had confirmed AIDS in 2012—down from 19,536 in 2011 (appendix table 1). Between 2011 and 2012, the estimated rate of HIV or AIDS declined from 145 per 10,000 prisoners to 143 per 10,000. This decline is consistent with declines observed over the previous decades (figure 4).

FIGURE 4 Rate of HIV or AIDS cases among state and federal prisoners, 2001–2012

Rate per 10,000 prisoners



Source: Bureau of Justice Statistics, National Prisoner Statistics Program, 2001–2012.

24% of prisoners and jail inmates reported at least two chronic conditions

In 2012, nearly a quarter (24%) of both prisoners and jail inmates reported ever having multiple chronic conditions (table 4). About 7% of prisoners and 4% of jail inmates reported high blood pressure and diabetes—two chronic conditions that are risk factors for cardiovascular disease. About 12% of prisoners and 9% of jail inmates reported ever having a chronic condition and an infectious disease. Among prisoners and jail inmates who reported ever having hepatitis B, about 15% reported ever having cirrhosis of the liver. About 11% of those in both populations who ever had hepatitis C reported that they had cirrhosis of the liver.

TABLE 4

Prevalence of ever having multiple chronic conditions and infectious diseases among state and federal prisoners and jail inmates, 2011–12

| | State ar prisone | nd federal rs* | Jail ir | nmates |
|--|---------------------|-------------------|---------|----------------|
| Chronic condition/ infectious disease | Percent | Standard error | Percent | Standard error |
| Chronic conditions | | | | |
| Multiple chronic conditions | 24.2% | 1.3% | 24.3% | 1.2% |
| Hypertension and diabetes | 6.6 | 0.7 | 4.4** | 0.5 |
| Infectious diseasesa | | | | |
| Multiple infectious diseases | 4.1% | 0.5% | 2.2%** | 0.3% |
| Chronic conditions and infectious diseases | | | | |
| Both a chronic condition and infectious disease | 12.3% | 0.9% | 9.1%** | 0.6% |
| Among those who had Hepatitis B– | | | | |
| Had cirrhosis of the liver | 14.6 | 2.8 | 15.2 | 4.8 |
| Among those who had Hepatitis C– | | | | |
| Had cirrhosis of the liver | 11.3 | 4.8 | 11.0 | 4.6 |

Note: The jail population was not standardized to match the prison population. Therefore, differences observed may be due to differences in prison and jail population by sex, age, race, and Hispanic origin.

Majority of prisoners and jail inmates were either overweight, obese, or morbidly obese²

In 2011–12, nearly three-quarters of prisoners were either overweight (46%), obese (26%), or morbidly obese (2%), with about a quarter of prisoners being either normal weight (26%) or underweight (1%) (table 5). Measures of overweight, obese, and morbidly obese were calculated using the body mass index (see *Methodology*). Female prisoners (35%) were less likely than males (47%) to be overweight. However, female (43%) prisoners were more likely than males (27%) to be either obese or morbidly obese (appendix table 2). Prisoners ages 18 to 24 were less likely than all other age groups to be obese. About 14% of prisoners ages 18 to 24 were obese, compared to 20% of those ages 25 to 34, 33% of those ages 35 to 49, and 25% of those age 50 or older. Black prisoners (29%) were more likely than white prisoners (23%) to be obese.

In 2011–12, more than 6 in 10 jail inmates were either overweight (39%), obese (20%), or morbidly obese (2%), while about 4 in 10 jail inmates were either normal weight (37%) or underweight (1%). Female (32%) jail inmates were less likely than males (40%) to be overweight. However, female (37%) jail

TABLE 5
Body mass index of state and federal prisoners and local jail inmates, 2011–12

| Body mass index | State and federal prisoners | Jail inmates |
|-------------------------|-------------------------------------|---------------|
| Total | 100% | 100% |
| Normal/underweight | 26.4 | 38.4 |
| Overweight | 45.7 | 39.3 |
| Obese | 25.5 | 20.0 |
| Morbidly obese | 2.4 | 2.3 |
| Source: Bureau of Justi | ce Statistics, National Inmate Surv | /ey, 2011–12. |

inmates were more likely than males (20%) to be either obese or morbidly obese (appendix table 3). Similar to prisoners, jail inmates ages 18 to 24 were less likely than all other age groups to be obese. About 13% of jail inmates ages 18 to 24 were obese, compared to 19% of those ages 25 to 34, 27% of those ages 35 to 49, and 22% of those age 50 or older. About 44% of Hispanic jail inmates reported being overweight—the highest percentage among all racial or ethnic categories. About 1 in 5 jail inmates in each racial category was obese. Black jail inmates (3%) were more likely than white jail inmates (1%) to be morbidly obese.

^{*}Comparison group.

^{**}Difference with comparison group is significant at the 95% confidence level.

alnoludes tuberculosis, hepatitis B, hepatitis C, and STDs. Excludes HIV or AIDS due to unknown or missing data.

Source: Bureau of Justice Statistics, National Inmate Survey, 2011–12.

²This finding is consistent with the general population of adults age 20 or older (Health, United States, 2013, Centers for Disease Control and Prevention).

Most prisoners and jail inmates received medical assessments or exams since admission

Prisoners were more likely than jail inmates to report being assessed and questioned about medical issues at time of admission; to have seen a doctor, nurse, or health care professional for any medical reason; or to have been tested for infectious diseases (table 6). An estimated 85% of prisoners were questioned by staff about their health or medical history, compared to 82% of jail inmates. About two-thirds of prisoners (64%) and half (50%) of jail inmates reported being assessed by staff to see if they were sick, injured, or intoxicated.

An estimated 80% of prisoners and 47% of jail inmates reported seeing a health care professional for a medical reason since admission. Prisoners (71%) were about 6.5 times more likely than jail inmates (11%) to be tested for HIV. Among prisoners, 57% were tested for hepatitis B and 54% were tested for hepatitis C, compared to 6% for both among jail inmates. Almost all prisoners (94%) reported being tested for tuberculosis since admission, compared to about half (54%) of jail inmates.

TABLE 6
Health care services and medical tests received by state and federal prisoners and jail inmates while incarcerated, 2011–12

| | State and fe | deral prisoners* | Jail inmates | | |
|--|--------------|------------------|--------------|----------------|--|
| Health care services provided | Percent | Standard error | Percent | Standard error | |
| At time of admission | | | | | |
| Assessed by staff for sickness, injury, or intoxication | 63.6% | 1.2% | 49.4%** | 1.6% | |
| Questioned by staff about health or medical history | 85.0 | 1.0 | 81.8** | 1.1 | |
| Since admission | | | | | |
| Seen a doctor, nurse, or other health care professional for any reason | 79.9% | 1.2% | 46.5%** | 1.3% | |
| Tested for— | | | | | |
| HIV | 71.4 | 1.4 | 10.8** | 0.8 | |
| Tuberculosis | 93.6 | 0.7 | 53.9** | 2.5 | |
| Hepatitis B | 57.4 | 1.6 | 6.0** | 0.6 | |
| Hepatitis C | 54.4 | 1.7 | 5.7** | 0.5 | |
| STDs ^a | 32.6 | 1.2 | 5.4** | 0.5 | |

Note: The jail population was not standardized to match the prison population. Therefore, differences observed may be due to differences in prison and jail population by sex, age, race, and Hispanic origin.

Source: Bureau of Justice Statistics, National Inmate Survey, 2011–12.

About a third of jurisdictions reported testing all inmates on entry

In 2012, as part of the prison intake process, 17 jurisdictions reported that they test all inmates for HIV, 11 reported that they offer opt-out HIV testing (i.e., all inmates are offered the test, and the test is given unless the inmate declines the test), and 10 reported opt-in HIV testing (i.e., all inmates are offered the test, and the test is given if the inmate wants to be tested). The remaining jurisdictions either had some other practice for testing, did not test, or did not report the testing practice in their jurisdiction (appendix table 4).

Thirty-two percent of prisoners were held in the jurisdictions that reported testing all inmates for HIV, 26% were held in the jurisdictions reporting opt-out testing, and 15% were held in the jurisdictions that reported opt-in testing. The remaining quarter of prisoners were held in jurisdictions that either reported other testing circumstances or did not report their testing practices.

Among the 10 jurisdictions offering opt-in testing, consent specifically for HIV testing was obtained in 9 jurisdictions,

and general consent for medical services was obtained in 1 jurisdiction. For jurisdictions with opt-out testing, type of consent for testing was not consistent. Three jurisdictions obtained consent specifically for HIV testing, six jurisdictions obtained consent for medical services, one jurisdiction did not obtain any consent, and one jurisdiction did not report type of consent.

In 2012, the majority of jurisdictions reported testing inmates in custody who requested an HIV test (42), if there was clinical indication (39), who were involved in an incident (34), and who were under court order (32) (appendix table 5). Twenty jurisdictions reported offering HIV testing during routine medical exams, and 19 offered testing to high-risk inmates.

On discharge, most jurisdictions (24) provided inmates with an HIV test, if requested (appendix table 6). Seven jurisdictions offered an HIV test to all inmates being released, three offered an HIV test to some inmates, and six reported that they did not provide HIV testing on discharge.

^{*}Comparison group.

^{**}Difference with comparison group is significant at the 95% confidence level.

^aExcludes HIV or AIDS.

Among prisoners and jail inmates who reported ever having a chronic condition, about three-quarters reported having a chronic condition at admission

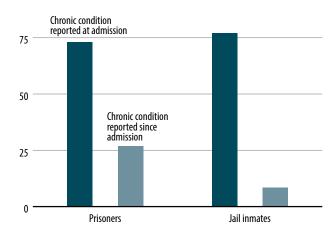
Among those who reported ever having a chronic condition, 73% of prisoners and 77% of jail inmates reported that they had a condition at admission (figure 5). Both prisoners and jail inmates were more likely to report a chronic condition at admission than since admission. Among those who reported ever having a chronic condition, about a quarter (27%) of prisoners and a tenth (8%) of jail inmates did not report a chronic condition at admission, but were told that they had the condition since admission. Prisoners and jail inmates who had a chronic condition at admission were equally likely to report taking prescription medication or receiving some other type of treatment in the 30 days prior to admission (table 7). In both populations, about 6 in 10 reported taking prescription medication and more than 3 in 10 reported receiving some other type of treatment.

FIGURE 5

Prevalence of any chronic condition at admission and since admission among state and federal prisoners and jail inmates who reported ever having a condition, 2011–12

Percent





Note: An inmate may have reported ever having multiple conditions. As a result, one inmate may be in both categories because one condition may have been reported at admission and another condition could have been reported since admission.

Source: Bureau of Justice Statistics, National Inmate Survey, 2011–12.

TABLE 7
Prevalence of prescription medication use and other treatment among prisoners and jail inmates with a current chronic condition or infectious disease, 2011–12

| | State and fe | deral prisoners* | Jail inmates | | |
|--|--------------|------------------|--------------|----------------|--|
| Health care services provided | Percent | Standard error | Percent | Standard error | |
| Chronic condition at admission ^a | | | | | |
| In 30 days prior to admission— | | | | | |
| Taking prescription medication | 60.9% | 2.5% | 58.8% | 2.1% | |
| Receiving medical treatment other than prescription medication | 34.4 | 1.9 | 32.6 | 1.6 | |
| Current chronic condition ^a | | | | | |
| Currently taking prescription medication | 66.1% | 2.3% | 39.8%** | 1.8% | |
| Reasons for not taking prescription medication ^b | | | | | |
| Inmate had not seen a doctor | 20.0 | 1.7 | 38.7** | 2.2 | |
| Inmate did not like taking medication | 10.9 | 1.2 | 16.0** | 1.6 | |
| Doctor did not think it was necessary or facility would not provide it | 36.3 | 2.3 | 36.3 | 1.6 | |
| Inmate did not think medication was necessary | 19.4 | 1.8 | 30.5** | 1.8 | |
| Other | 35.0 | 2.4 | 50.9** | 2.0 | |
| Currently receiving medical treatment other than prescription medication | 19.9 | 1.7 | 13.8** | 1.4 | |
| HIV-positive inmates | | | | | |
| Taking prescription medication | 84.0% | 8.6% | 65.9% | 9.6% | |

Note: The jail population was not standardized to match the prison population. Therefore, differences observed may be due to differences in prison and jail population by sex, age, race, and Hispanic origin.

Source: Bureau of Justice Statistics, National Inmate Survey, 2011–12.

^{*}Comparison group.

^{**}Difference with comparison group is significant at the 95% confidence level.

^aIncludes cancer, high blood pressure or hypertension, stroke-related problems, diabetes or high blood sugar, heart-related problems, kidney-related problems, arthritis or rheumatism, asthma, and cirrhosis of the liver.

^bDetail does not sum to 100% because inmates could select more than one reason.

66% of prisoners and 40% of jail inmates with a current chronic condition reported taking prescription medication

In 2011–12, about 4 in 10 prisoners (41%) and jail inmates (40%) reported having a current chronic condition (appendix table 7). Among prisoners with a current chronic condition, 66% reported that they were taking prescription medication, and 20% said they were receiving some other type of medical treatment. Although inmates could report multiple reasons for not taking prescription medication, prisoners most commonly cited reasons related to lack of health services or doctor's provision of a prescription. More than a third (36%) of prisoners who were not taking prescription medication said that the doctor did not think medication was necessary or that the facility would not provide the medication, while about 20% reported that they had not seen a doctor. About 19% of prisoners reported that they did not think the medication was necessary, and about 11% reported that they did not like taking the medication. Among prisoners who were HIV positive, 84% reported taking prescription medication.

Jail inmates who reported having a current chronic condition were less likely than prisoners to report taking prescription medication or receiving some other type of medical treatment. About 40% of jail inmates with a current chronic condition reported that they were receiving

prescription medication, and 14% reported receiving some other type of medical treatment. More than a third (39%) of jail inmates who were not taking prescription medication reported that they had not seen a doctor and 36% said the doctor did not think medication was necessary or the facility would not provide the medication. Nearly a third (31%) of jail inmates said that they did not think the medication was necessary, and 16% reported that they did not like taking the medication. Among jail inmates who were HIV positive, 66% reported taking prescription medication.

More than half of prisoners and jail inmates reported being somewhat or very satisfied with health care services received since admission

In 2011–12, 13% of prisoners were very satisfied with the health services received since admission and 44% were somewhat satisfied (table 8). Among jail inmates, 14% were very satisfied with the health services received since admission and 37% were somewhat satisfied. Jail inmates (49%) were more likely than prisoners (44%) to report not being satisfied with the health care services received since admission.

Nearly half (48%) of prisoners and 43% of jail inmates reported that the health care received while incarcerated was better than or about the same as the care they received in the 12 months prior to admission.

TABLE 8
Satisfaction with health care services received by state and federal prisoners and jail inmates, 2011–12

| _ | State and fe | deral prisoners* | Jail | inmates |
|---|--------------|------------------|---------|----------------|
| Health care services provided | Percent | Standard error | Percent | Standard error |
| Since admission | | | | |
| Very satisfied | 12.6% | 0.9% | 14.3% | 0.8% |
| Somewhat satisfied | 43.8 | 1.4 | 36.9** | 1.4 |
| Not at all satisfied | 43.6 | 1.6 | 48.8** | 1.5 |
| Compared to those received 12 months prior to admission | | | | |
| Better | 12.4% | 1.0% | 11.0% | 0.7% |
| About the same | 35.8 | 1.6 | 32.0 | 1.1 |
| Worse | 51.8 | 1.8 | 57.0** | 1.3 |

Note: The jail population was not standardized to match the prison population. Therefore, differences observed may be due to differences in prison and jail population by sex, age, race, and Hispanic origin.

Source: Bureau of Justice Statistics, National Inmate Survey, 2011–12.

^{*}Comparison group.

^{**}Difference with comparison group is significant at the 95%-confidence level.

Methodology

National Inmate Survey

The 2011–12 National Inmate Survey (NIS-3) was conducted in 233 state and federal prisons, 358 local jails, and 15 special facilities (i.e., military facilities, Indian country jails, and Immigration and Customs Enforcement (ICE) facilities) between February 2011 and May 2012. Data were collected by RTI International under a cooperative agreement with the Bureau of Justice Statistics (BJS).

The NIS-3 administered two questionnaires to inmates—a survey about sexual victimization and a survey about mental and physical health, past drug and alcohol use, and treatment for substance abuse. Inmates were randomly assigned to receive one of two questionnaires to ensure that the content of the survey remained unknown to facility staff and the interviewers at the time of the interview.

A total of 106,532 inmates participated in the NIS-3, receiving either the sexual victimization survey or the randomly assigned companion survey. Combined, the surveys were administered to 43,721 inmates in state and federal prisons, 61,351 inmates in jails, 605 inmates in military facilities, 192 inmates in Indian country jails, and 663 inmates in ICE facilities.

The interviews, which averaged 35 minutes in length, used computer-assisted personal interviewing (CAPI) and audio computer-assisted self-interviewing (ACASI) data collection methods. For approximately the first 2 minutes, interviewers conducted a personal interview using CAPI to obtain background information and date of admission to the facility. For the remainder of the interview, inmates interacted with a computer-administered questionnaire using a touchscreen and synchronized audio instructions delivered via headphones. Respondents completed the ACASI portion of the interview in private, with the interviewer either leaving the room or moving away from the computer.

A shorter paper questionnaire was made available for inmates who were unable to come to the private interviewing room or interact with the computer. The paper form was completed by 751 state and federal prisoners (1.9% of all prisoner interviews) and 264 jail inmates (0.5% of all jail inmate interviews). Inmates who completed the paper form were not asked about their physical health, mental health, past drug and alcohol use, or treatment for substance abuse.

Additional information on the methodology for sample selection of facilities and inmates can be found in the report, *Sexual Victimization in Prisons and Jails Reported by Inmates*, 2011–12 (NCJ 241399, BJS web, May 2013).

In this report, the analysis of the physical health module was restricted to adult inmates in prisons or jails. Therefore, this report excludes juvenile inmates ages 16 or 17 and inmates in military facilities, Indian country jails, or ICE facilities.

Administration of the physical health module

The physical health module was administered to participating inmates in the NIS-3 for one of two reasons—

- 1. to ensure the sexual victimization survey length was similar for all participating inmates
- 2. as part of the alternative survey on mental and physical health, past drug and alcohol use, and treatment for substance abuse.

Among inmates who received the sexual victimization survey (90% of inmates surveyed), a brief physical health module was randomly assigned to half of the inmates who participated. Among those inmates, respondents who completed the core sexual victimization survey in 33 minutes or less received the brief physical health module. Based on the time criteria, 11,671 state and federal prisoners (67% of the prisoners who would have been randomly assigned the brief physical health module) and 17,130 jail inmates (69% of the jail inmates who would have been randomly assigned the brief physical health module) completed the brief physical health module.

Among inmates who received the alternative survey on mental and physical health, past drug and alcohol use, and treatment for substance abuse (10% of inmates surveyed), the full physical health module was administered to those who completed the mental health and disabilities modules in 30 minutes or less. Of the 4,304 inmates randomized to the alternative survey, 3,833 (89%) inmates received and completed the full physical health module. Among the 6,704 jail inmates randomized to the alternative survey, 5,494 inmates (90%) received and completed the full physical health module.

The module on physical health, which was administered through ACASI, relied on inmates reporting their direct experiences. The brief physical health module asked the inmate about the types of medical services received at the time of admission and about any medical conditions (i.e., chronic diseases and infectious diseases) the inmate ever had, had at the time of admission, and had developed since admission. The full physical health module asked the same questions contained in the brief physical module, plus additional items on the types of services and treatments received by inmates with a medical condition and when those services and treatments were received. The entire ACASI questionnaire (listed as the National Inmate Survey-3) is available on the BJS website.

Nonresponse bias analysis to assess feasibility of using the 90% or 10% sample in the NIS-3

To produce reliable national-level statistics, a nonresponse bias analysis was needed to assess the feasibility of using data in the physical health module from the sexual victimization survey (90% sample) and the alternative survey (10% sample). Bias arises when subjects with characteristics associated with the outcome of interest are either overrepresented or underrepresented, resulting in the estimated prevalence of an outcome being different from the actual prevalence of the outcome. Because not everybody responded to the physical health module, it might be that respondents differ from nonrespondents in significant ways. Because the time to complete earlier modules in the survey was a major factor in determining whether the respondent was administered the physical health module, those who did not receive the physical health module may be different than those who did. The time requirements may have biased the physical health estimates, making them no longer nationally representative of all inmates.

To assess the potential bias in both the sexual victimization survey (90%) and alternative survey (10%) administered in the NIS-3, a nonresponse bias analysis was conducted for those who received the physical health module and those who did not. For the sexual victimization survey, differences in response status to the physical health module were assessed by whether or not an inmate had been sexually victimized, language of the interview (i.e., English or Spanish), whether or not an inmate reported a mental health problem and the interaction of victimization and mental health status. For the alternative survey, differences in response status to the physical health module were assessed by language of the interview (i.e., English or Spanish), whether an inmate reported a mental health problem, and the interaction of language of interview and mental health status.

Key findings from the nonresponse bias analysis for respondents to the sexual victimization survey include—

- For both prisons and jails, inmates who reported a sexual victimization were significantly less likely than inmates who did not report a sexual victimization to receive and complete the brief physical health module (p-value less than 0.0001 for prisoners and jail inmates).
- For both prisons and jails, inmates who responded to the survey in Spanish were significantly less likely than those who responded in English to receive and complete the brief physical health module (p-value less than 0.0001 for prisoners and jail inmates).
- For both prisons and jails, inmates who reported a mental health condition were significantly less likely than those who did not report a mental health condition to receive and complete the brief physical health module (p-value less than 0.0001 for prisoners and jail inmates).

- Among prisoners and jail inmates who reported a sexual victimization, inmates who reported a mental health condition were significantly less likely than inmates who did not report a mental health condition to receive and complete the brief physical health module (p-value less than 0.0001 for prisoners and jail inmates).
- Among prisoners, 1.5% (177 of 11,671 respondents) reported a sexual victimization, reported a mental health condition, and received and completed the brief physical health module.
- Among jail inmates, 1.1% (190 of 17,130 respondents) reported a sexual victimization, reported a mental health condition, and received and completed the brief physical health module.

Key findings from the nonresponse bias analysis for respondents to the alternative survey include—

- For both prisons and jails, inmates who reported a mental health condition were significantly less likely than inmates who did not report a mental health condition to receive and complete the full physical health module (p-value less than 0.0001 for prisoners and jail inmates). However, among those with a mental health condition, 92.0% of prisoners and 86.5% of jail inmates received and completed the physical health module.
- In prisons, 225 inmates (5.2% of respondents) responded to the alternative survey in Spanish.
- In jails, 321 inmates (5.3% of respondents) responded to the alternative survey in Spanish.
- Among prisoners and jail inmates who responded in Spanish, inmates who reported a mental health condition were not significantly less likely than inmates who did not report a mental health condition to receive and complete the full physical health module (p-values of 0.3989 and 0.0678 for prisoners and jail inmates).

For the alternative survey, based on the results of the nonresponse bias analyses, it was determined that a weight adjustment could properly correct for potential bias among respondents to the full physical health module. However, based on the results of the nonresponse bias analyses for the sexual victimization survey, it was determined that a weight adjustment might not fully compensate for the potential bias among those who responded to the brief physical health module. Therefore, the analyses of the physical health data were restricted to inmates who completed the alternative survey.

Weighting and nonresponse adjustments

Responses from interviewed inmates were weighted to produce national-level estimates. Each interviewed inmate was assigned an initial weight corresponding to the inverse of the probability of selection within each sampled facility. A series of adjustment factors was applied to the initial weight to minimize potential bias due to nonresponse and to provide national estimates. For the analysis of the physical health module, these adjustments were one of two types:

- 1. adjustments to account for survey nonresponse
- adjustments to account for module nonresponse due to time constraints.

Methods to adjust for survey nonresponse are detailed in the report, Sexual Victimization in Prisons and Jails Reported by Inmates, 2011–12 (NCJ 241399, BJS web, May 2013). Once adjusted weights were developed to account for survey nonresponse, an additional weighting adjustment was conducted to account for the potential bias induced by nonresponse due to time constraints. Bias could result if the module nonrespondents were different from the module respondents. The adjustment for module nonresponse included a calibration of the weights to ensure that the weight from a nonresponding inmate was assigned to a responding inmate with similar characteristics. Because both respondents and nonrespondents to the physical health module completed part of the alternative survey, the adjustment used data from modules that both groups completed. These data included demographic, criminal history, mental health, and interview debriefing characteristics. This adjustment ensured that the estimates accurately reflected the full sample, rather than only the inmates who responded to the physical health module. For each inmate, these adjustments were based on a generalized exponential model, developed by Folsom and Singh (2002), and applied to the sexual victimization survey respondents.³

The module nonresponse adjustment maintained the benchmark totals designed to make national-level estimates for the total number of inmates age 18 or older who were held in jails at midyear 2011 or in prisons at yearend 2011. These benchmark totals represented the estimated number of inmates by sex (from BJS's 2011 Annual Survey of Jails and 2011 National Prisoner Statistics). The national estimates for state prisons were 1,154,600 adult males and 83,400 adult females; for federal prisons, 190,600 adult males and 13,200 adult females; and for jails (with an average daily population of 6 or more inmates), 628,620 adult males and 91,551 adult females.

Standard errors and tests of significance

As with any survey, the NIS-3 estimates are subject to error arising from sampling rather than using a complete enumeration of the population of adult inmates in prisons and jails. For each physical health outcome, the estimated sampling error varies by the size of the estimate, the number of completed interviews, and the intra-cluster correlation of the outcome within facilities.

A common way to express this sampling variability is to construct a 95% confidence interval around each survey estimate. Typically, multiplying the standard error by 1.96 and then adding or subtracting the result from the estimate produces the confidence interval. This interval expresses the range of values that could result among 95% of the different samples that could be drawn.

Chronic conditions and infectious disease in the general population

Prevalence rates of chronic conditions and infectious diseases in the general population included in this report come from the National Survey on Drug Use and Health (NSDUH). To be most comparable to the inmate population included in the NIS-3, the survey years from 2009 to 2012 of NSDUH were used in this analysis. Statistical tests comparing the prevalence of chronic conditions and infectious diseases measured in the NIS-3 and NSDUH are presented in tables 1 and 2. NSDUH collects information on six chronic conditions (i.e., high blood pressure, stroke-related problems, diabetes, heart disease, asthma, and cirrhosis of the liver) and four infectious diseases (i.e., HIV or AIDS, tuberculosis, hepatitis, and STDs).

Because the demographic makeup of the general population is different than that of the inmate population (i.e., the general population is older, more white, and more female), general population rates were standardized to the inmate population (i.e., the prison population for table 1 and the jail population for table 2) to assess the differences between comparable populations. Standardization calibrates the weights of one of the populations to the distribution of the other based on a set of specified characteristics. Standardized estimates were computed in SUDAAN using its standardization options in PROC DESCRIPT. For this analysis, the general population was standardized to inmate population based on sex, age, race, and Hispanic origin. The standardized general population estimates for disease can be interpreted as the estimate of disease among the general population, if the general population had the same sex, age, race, and Hispanic origin distribution as the prisoner and jail inmate populations.

³Folsom, Jr., R.E. & Singh, A.C. (2000). The Generalized Exponential Model for Sampling Weight Calibration for Extreme Values, Nonresponse, and Poststratification. *Proceedings of the American Statistical Association, Survey Research Methods Section*, pp. 598–603.

Calculation of body mass index (BMI)

BMI is a measurement of body fat, based on height and weight, that applies to both men and women ages 18 to 65. BMI can be used to determine if a person is underweight (18.5 or less), normal weight (18.5 to 24.9), overweight (25.0 to 29.9), obese (30.0 to 39.9), or morbidly obese (40 or greater). In the NIS-3, BMI was based on the following formula provided by the Centers for Disease Control and Prevention:

BMI = weight (pounds) / (height (inches)) 2 x 703.

APPENDIX TABLE 1
State and federal prisoners with HIV or AIDS, by jurisdiction, yearend 2010, 2011, and 2012

| Jurisdiction | 2010 | 2011 | 2012 |
|-------------------------------|--------|--------|---------|
| U.S. total | 20,093 | 19,536 | 18,945* |
| Federal | 1,578 | 1,610 | 1,601 |
| State | 18,515 | 17,926 | 17,344* |
| Alabama | 252 | 274 | 266 |
| Alaska | / | / | / |
| Arizona | 164 | 165 | 181 |
| Arkansas | 128 | 110 | 105 |
| California | 1,098 | 1,165 | 1,089 |
| Colorado | 181 | 198 | 201 |
| Connecticut | 301 | 301 | 249 |
| Delaware | 73 | 76 | 81 |
| Florida | 2,920 | 2,679 | 2,583 |
| Georgia | 912 | 903 | 891 |
| Hawaii | 18 | 21 | 13 |
| Idaho | 20 | / | 14 |
| Illinois | 487 | 457 | / |
| Indiana | / | / | / |
| lowa | 36 | 37 | 37 |
| Kansas | 33 | 61 | 5 |
| Kentucky | 87 | 62 | 91 |
| Louisiana | 665 | 536 | 532 |
| Maine | 15 | 3 | 11 |
| Maryland | 722 | 572 | 485 |
| Massachusetts | 206 | 208 | 186 |
| Michigan | 233 | 428 | 370 |
| Minnesota | 47 | 50 | 70 |
| Mississippi | 254 | 255 | 287 |
| Missouri | 273 | 292 | 295 |
| Montana | 7 | 18 | 11 |
| Nebraska | 20 | 20 | 22 |
| Nevada | 133 | 123 | 115 |
| New Hampshire | 12 | 4 | 5 |
| New Jersey | 420 | 372 | 303 |
| New Mexico | 27 | 37 | 29 |
| New York | 3,080 | 3,010 | 2,950 |
| North Carolina | 720 | 692 | 718 |
| North Dakota | 9 | 1 | 2 |
| Ohio | 381 | 376 | 405 |
| Oklahoma | 155 | 137 | 131 |
| Oregon | 63 | 60 | 63 |
| Pennsylvania | 703 | 706 | 695 |
| Rhode Island | 47 | 32 | 35 |
| South Carolina | 412 | 387 | 328 |
| South Dakota | 11 | 12 | 11 |
| Tennessee | 219 | 213 | 226 |
| Texas | 2,394 | 2,320 | 2,200 |
| Utah | 35 | 24 | 24 |
| Vermont | 3 | 7 | 6 |
| Virginia | 306 | 307 | 279 |
| Washington | 75 | 71 | 75 |
| West Virginia | 25 | 18 | 29 |
| Wisconsin | 128 | 120 | 135 |
| Wyoming | 5 | 6 | 2 |
| Note: Excludes inmates in jur | | | |

Note: Excludes inmates in jurisdictions that did not report data on HIV or AIDS.

 $Source: Bureau \ of \ Justice \ Statistics, \ National \ Prisoner \ Statistics \ Program, 2010, 2011, and \ 2012.$

^{*}U.S. and state totals include an estimated number of prisoners with HIV or AIDS in Illinois. /Not reported.

Body mass index of prisoners, by demographic characteristics, 2011–12

| | Unde | rweight | No | rmal | Over | weight | 0 | bese | Morbi | dly obese |
|----------------------------|---------|-------------------|---------|-------------------|---------|-------------------|---------|-------------------|---------|-------------------|
| Demographic characteristic | Percent | Standard error |
| All inmates | 0.8% | 0.3% | 25.6% | 1.1% | 45.7% | 1.1% | 25.5% | 1.0% | 2.4% | 0.4% |
| Sex | | | | | | | | | | |
| Male* | 0.8% | 0.3% | 25.8% | 1.1% | 46.5% | 1.2% | 24.7% | 1.0% | 2.2% | 0.5% |
| Female | 1.0 | 0.7 | 21.6** | 1.7 | 34.7** | 2.2 | 37.2** | 2.9 | 5.6** | 1.1 |
| Age | | | | | | | | | | |
| 18-24* | 1.4% | 0.6% | 42.2% | 3.1% | 41.2% | 2.7% | 14.2% | 2.1% | 1.1% | 0.8% |
| 25-34 | 0.3 | 0.2 | 29.7** | 2.6 | 47.3 | 2.5 | 20.3** | 1.7 | 2.3 | 1.1 |
| 35-49 | 1.3 | 0.6 | 18.9** | 1.5 | 43.6 | 1.6 | 33.3** | 2.3 | 3.0** | 0.5 |
| 50 or older | 0.5 | 0.2 | 21.6** | 2.5 | 50.7** | 3.2 | 25.3** | 2.2 | 1.9 | 0.7 |
| Race/Hispanic origina | | | | | | | | | | |
| White | 0.3% | 0.1% | 28.0% | 1.8% | 47.2% | 1.8% | 22.6%** | 1.7% | 1.9% | 0.5% |
| Black/African American* | 1.3 | 0.5 | 25.2 | 1.9 | 42.7 | 2.1 | 28.7 | 1.5 | 2.1 | 0.5 |
| Hispanic/Latino | 1.0 | 0.7 | 22.0 | 1.9 | 47.4 | 3.8 | 26.4 | 2.8 | 3.3 | 1.4 |
| Other ^b | 0.7 | 0.4 | 27.6 | 3.6 | 47.0 | 4.3 | 23.1 | 4.1 | 1.7 | 0.6 |

^{*}Comparison group.

Source: Bureau of Justice Statistics, National Inmate Survey, 2011–12.

APPENDIX TABLE 3

Body mass index of jail inmates, by demographic characteristics, 2011-12

| | Unde | rweight | No | rmal | Ovei | weight | 0 | bese | Morbi | dly obese |
|----------------------------|---------|----------|---------|----------|---------|----------|---------|----------|---------|-----------|
| | | Standard |
| Demographic characteristic | Percent | error |
| All inmates | 1.2% | 0.2% | 37.2% | 1.2% | 39.3% | 1.1% | 20.0% | 0.9% | 2.3% | 0.3% |
| Sex | | | | | | | | | | |
| Male* | 1.2% | 0.2% | 38.3% | 1.3% | 40.3% | 1.1% | 18.8% | 1.0% | 1.4% | 0.2% |
| Female | 1.8 | 0.7 | 29.7** | 2.6 | 31.8** | 2.7 | 28.6** | 2.6 | 8.0** | 2.3 |
| Age | | | | | | | | | | |
| 18-24* | 1.0% | 0.4% | 52.9% | 2.0% | 32.1% | 2.1% | 13.2% | 1.4% | 0.8% | 0.2% |
| 25-34 | 1.3 | 0.5 | 34.9** | 1.6 | 42.3** | 2.1 | 18.6** | 1.6 | 3.0** | 0.9 |
| 35-49 | 0.9 | 0.3 | 27.5** | 2.1 | 41.7** | 2.1 | 27.1** | 1.9 | 2.9** | 0.5 |
| 50 or older | 3.1 | 1.1 | 33.5** | 3.1 | 39.6 | 3.4 | 22.2** | 3.4 | 1.6 | 0.6 |
| Race/Hispanic origina | | | | | | | | | | |
| White | 1.0% | 0.3% | 40.3% | 2.0% | 38.7% | 2.0% | 18.7% | 1.7% | 1.3%** | 0.3% |
| Black/African American* | 1.2 | 0.4 | 38.1 | 1.9 | 36.6 | 1.9 | 21.4 | 1.5 | 2.7 | 0.5 |
| Hispanic/Latino | 1.7 | 0.8 | 30.7** | 2.0 | 44.2** | 2.2 | 20.5 | 2.0 | 2.9 | 0.6 |
| Other ^b | 1.3 | 0.6 | 35.7 | 3.5 | 39.0 | 3.5 | 20.4 | 3.3 | 3.6 | 2.3 |

^{*}Comparison group.

Source: Bureau of Justice Statistics, National Inmate Survey, 2011–12.

^{**}Difference with comparison group is significant at the 95% confidence level.

^aExcludes persons of Hispanic or Latino origin, unless specified.

blncludes persons identified as American Indian or Alaska Native; Asian, Native Hawaiian, or other Pacific Islander; and two or more races.

^{**}Difference with comparison group is significant at the 95% confidence level.

^aExcludes persons of Hispanic or Latino origin, unless specified.

blncludes persons identified as American Indian or Alaska Native; Asian, Native Hawaiian, or other Pacific Islander; and two or more races.

APPENDIX TABLE 4

HIV testing practices and consent received for state and federal prisoners during the intake process, by jurisdiction, 2012

| | - | | | Consent obtained | | | | | | |
|--------------------------------|-----------|---------|--------|------------------|-------------------|-------|-------------------|---------|----------|------|
| Jurisdiction | Mandatory | Opt-out | Opt-in | On assessment | On inmate request | Other | Do not provide | General | HIV test | None |
| Federal ^a | | | | | | Χ | | | Χ | |
| Alabama | Χ | | | | | | | | | Χ |
| Arizona | | | Χ | | | | | | Χ | |
| Arkansas | Χ | | | | | | | | | Χ |
| California | | Χ | | | | | | | Χ | |
| Colorado | Χ | | | | | | | | | Χ |
| Connecticut | | | | | | | Χ | ~ | ~ | ~ |
| Delaware | | | | | Χ | | | | Χ | |
| Florida | | | Χ | | | | | | Χ | |
| Georgia | Χ | | • • | | | | | | | Χ |
| Hawaii | | | Χ | | | | | | Χ | |
| Idaho | Χ | | Λ. | | | | | | Λ | Χ |
| Indiana | X | | | | | | | | | Х |
| lowa | ٨ | Χ | | | | | | Χ | | ٨ |
| Kansas ^b | | ٨ | | | | Χ | | ^ | Χ | |
| | | | | Χ | | ٨ | | | X | |
| Kentucky | | V | | ۸ | | | | V | ۸ | |
| Louisiana | | Χ | | V | | | | Χ | V | |
| Maine | | | | Х | | | | ., | Χ | |
| Maryland | | | Х | | | | | Χ | | |
| Massachusetts | | | Χ | | | | | | X | |
| Michigan | | Χ | | | | | | / | / | / |
| Minnesota | | Χ | | | | | | Χ | | |
| Mississippi | Χ | | | | | | | | | Х |
| Missouri | Χ | | | | | | | | | Х |
| Montana | | | | Χ | | | | / | / | / |
| Nebraska | | Χ | | | | | | Χ | | |
| Nevada | Χ | | | | | | | | | Χ |
| New Hampshire | Χ | | | | | | | | | Χ |
| New Jersey | | Χ | | | | | | Χ | | |
| New Mexico | | | Χ | | | | | | Χ | |
| New York ^c | | | | | | Χ | | | Χ | |
| North Carolina | | Χ | | | | | | Χ | | |
| North Dakota | Χ | | | | | | | | | Χ |
| Ohio | X | | | | | | | | | Χ |
| Oklahoma | X | | | | | | | | | Х |
| Oregon ^d | ~ | | | | | Χ | | | Χ | ,, |
| Pennsylvania | | Χ | | | | ^ | | | X | |
| Rhode Island | | ٨ | Χ | | | | | | X | |
| South Carolina | Χ | | ٨ | | | | | | ۸ | Χ |
| South Carolina South Dakota | ^ | | Χ | | | | | | v | ٨ |
| South Dakota Tennessee | | Χ | λ | | | | | | Χ | Χ |
| | V | ٨ | | | | | | | | |
| Texas | X | | | | | | | | | X |
| Utah | Χ | | v | | | | | | v | Χ |
| Vermont | | | Χ | | | | | | Х | |
| Virginia | | | | Χ | | | | | Х | |
| Washington | | Χ | | | | | | | Χ | |
| West Virginia | | | | Χ | Χ | | | | Χ | |
| Wisconsin | | | Χ | | | | | | Χ | |
| Wyoming | Χ | | | | | | | | | Χ |

Note: Alaska and Illinois did not report data on testing practices during the intake process.

[~]Not applicable.

[/]Not reported.

^aHIV testing was only offered to sentenced inmates.

 $^{^{\}mathrm{b}}$ Inmates were only tested for HIV if blood exposure occurred with staff or inmate volunteers.

^cAll inmates were offered HIV testing.

 $^{^{\}rm d}$ Inmates were only tested for HIV on court order.

Source: Bureau of Justice Statistics, National Prisoner Statistics Program, 2012.

HIV testing practices for state and federal prisoners while in custody, by jurisdiction, 2012

| Jurisdiction | Offered during routine exam | High-risk | Inmate request | Clinical indication | Court order | Involved in an incident |
|-----------------------|---------------------------------|-----------|----------------|---------------------|-------------|----------------------------|
| Federal | Х | X | Х | Χ | Х | Х |
| Alabama | Χ | Χ | Χ | Χ | Χ | |
| Arizona | Χ | Χ | Χ | Χ | Χ | Χ |
| Arkansas | X | X | X | X | X | X |
| California | X | | X | X | X | X |
| Colorado | X | Χ | X | X | X | X |
| Connecticut | Λ | X | X | X | X | X |
| Delaware | Χ | X | X | X | X | Χ |
| Florida ^a | X | Χ | Λ | Λ | Λ | |
| Georgia | ۸ | | Х | Χ | | Χ |
| | | | X | X | V | ۸ |
| Hawaii | V | | X | X | Χ | |
| ldaho | Χ | ., | ., | ., | ., | ., |
| Indiana | | Χ | X | X | X | X |
| lowa | | | Χ | Χ | X | Χ |
| Kansas ^b | Χ | | Χ | Χ | Χ | Χ |
| Kentucky | Χ | Χ | Χ | Χ | Χ | Χ |
| Louisiana | | Χ | Χ | Χ | Χ | Χ |
| Maine | | Χ | Χ | Χ | | Χ |
| Maryland | Χ | Χ | Χ | Χ | | Χ |
| Massachusetts | Χ | | Χ | | | Χ |
| Michigan ^c | | | | | | |
| Minnesota | | | Χ | Χ | Χ | Χ |
| Mississippi | | Χ | X | X | X | X |
| Missouri | | X | X | X | X | X |
| Montana | | | Λ | Λ | Λ | Χ |
| Nebraska | | | Х | Χ | Χ | Х |
| Nevada | | | X | | X | |
| | | | | X | ۸ | X |
| New Hampshire | | ., | X | X | v | X |
| New Jersey | | Χ | X | Χ | X | Χ |
| New Mexico | | | X | | | |
| New York ^d | Χ | Χ | Χ | Χ | Χ | X |
| North Carolina | Х | | Χ | Χ | Χ | Χ |
| North Dakota | | | Χ | Χ | | Χ |
| Ohio | | | Χ | Χ | Χ | Χ |
| Oklahoma | | | Χ | Χ | | Χ |
| Oregon | | | Χ | | Χ | |
| Pennsylvania | | | Χ | | | |
| Rhode Island | Χ | Χ | Χ | Χ | Χ | |
| South Carolina | | | Χ | Χ | Χ | Χ |
| South Dakota | Χ | Χ | X | X | X | X |
| Tennessee | ^ | •• | X | X | X | •• |
| Texas | Χ | | X | X | X | Χ |
| Utah | Λ | Х | ٨ | X | X | X |
| Vermont | X | ٨ | | Λ | Λ. | ٨ |
| | X | Χ | | Х | X | Χ |
| Virginia | λ | ٨ | v | | ۸ | |
| Washington | | | X | Χ | | Χ |
| West Virginia | | | X | | ., | |
| Wisconsin | | | X | X | X | Χ |
| Wyoming | id not report data on testing p | | Х | Х | | |

Note: Alaska and Illinois did not report data on testing practices while in custody.

Source: Bureau of Justice Statistics, National Prisoner Statistics Program, 2012.

 $[\]ensuremath{^{\text{a}}}\xspace$ In mates could be tested for HIV at any time during in carceration.

 $^{^{\}rm b}\text{All}$ pregnant in mates were tested for HIV.

 $^{^{\}mathrm{c}}$ Inmates were tested for HIV on request yearly and if blood exposure occurred.

 $^{{}^{}d}\text{Testing for HIV was offered on a voluntary basis when transferring between facilities and participating in the Family Reunion Program.}\\$

HIV testing practices for state and federal prisoners during discharge planning, by jurisdiction, 2012

| Jurisdiction | All inmates offered | Some inmates offered | Only on inmate request | Other | Do not provide |
|---------------------------|-------------------------------|-------------------------|---------------------------|-------|-------------------|
| Federal | | | X | | • |
| Alabama ^a | | | | Χ | |
| Arizona | | | Χ | | |
| Arkansas | | | ^ | Χ | |
| California | | Χ | | Λ | |
| Colorado | | ٨ | Χ | | |
| Connecticut | | | ^ | | Χ |
| | | V | | | ۸ |
| Delaware Florida | V | X | | | |
| | X | | | | |
| Georgia | X | | ., | | |
| lawaii | | | Χ | | |
| daho | | | | | Χ |
| ndiana | | | Χ | | |
| owa | | | | | Χ |
| Kansas | | | Χ | | |
| Kentucky | | | | | Χ |
| ouisiana | | | X | | |
| Maine | | | Χ | | |
| Maryland ^b | | | | Χ | |
| Massachusetts | | | Χ | | |
| Michigan | | | Χ | | |
| Minnesota | | | | | Χ |
| Mississippi | | | Χ | | |
| Missouri ^c | | | ^ | Χ | |
| Nebraska | Χ | | | Λ | |
| Nevada ^a | Λ | | | Χ | |
| | | | V | ۸ | |
| New Hampshire | | | X X | | |
| lew Jersey | V | | X | | |
| lew Mexico | X | V | | | |
| lew York | | X | | | |
| North Carolina | | | X | | |
| lorth Dakota | | | X | | |
| Ohio | | | Χ | | |
| Oklahoma | | | Х | | |
| Dregon | | | X | | |
| Pennsylvania | X | | | | |
| Rhode Island | | | | | Χ |
| South Carolina | | | Χ | | |
| South Dakota ^d | | | | Χ | |
| Tennessee | | | Χ | | |
| 「exas ^a | | | | Χ | |
| Jtah ^e | | | | X | |
| /ermont | | | Χ | ^ | |
| /irginia | Χ | | Λ | | |
| Vashington | ٨ | | Χ | | |
| | v | | ۸ | | |
| Vest Virginia | X | | V | | |
| Visconsin | | | X | | |
| Vyoming | ontana did not report data on | | Х | | |

^aAll inmates tested for HIV on discharge.

 $^{^{\}rm b}$ Inmates were tested for HIV on request and offered HIV testing for upcoming releases.

^cHIV testing was mandatory for all offenders not already HIV positive.

dAll inmates were offered HIV testing at Mike Durfee State Prison. At South Dakota State Prison and South Dakota Women's Prison, inmates were only tested on inmate request.

 $^{^{\}rm e}\text{U}\text{tah}$ State Health Department tested all inmates for HIV on day of parole.

Source: Bureau of Justice Statistics, National Prisoner Statistics Program, 2012.

Prevalence of a current chronic condition among state and federal prisoners and jail inmates, 2011–12

| | State and federal prisoners* | | Jail inmates | |
|----------------------------------|------------------------------|----------------|--------------|----------------|
| Current chronic condition | Percent | Standard error | Percent | Standard error |
| Total | 41.0% | 1.4% | 39.8% | 1.3% |
| Cancer | 1.1 | 0.2 | 1.5 | 0.3 |
| High blood pressure/hypertension | 23.0 | 1.3 | 20.2 | 1.0 |
| Stroke-related problems | 0.9 | 0.2 | 1.0 | 0.2 |
| Diabetes/high blood sugar | 7.4 | 0.7 | 5.3** | 0.5 |
| Heart-related problems | 5.1 | 0.7 | 6.0 | 0.5 |
| Kidney-related problems | 3.4 | 0.5 | 3.8 | 0.4 |
| Arthritis/rheumatism | 12.4 | 1.0 | 10.5 | 0.7 |
| Asthma | 11.9 | 0.8 | 15.6** | 1.0 |
| Cirrhosis of the liver | 1.3 | 0.3 | 1.3 | 0.3 |

^{*}Comparison group.

APPENDIX TABLE 8

Standard errors for table 3: Prevalence of ever having a chronic condition or infectious disease among state and federal prisoners and jail inmates, by demographic characteristics, 2011–12

| | Chronic con | dition | Infectious disease | |
|----------------------------|-----------------------------|--------------|-----------------------------|--------------|
| Demographic characteristic | State and federal prisoners | Jail inmates | State and federal prisoners | Jail inmates |
| All inmates | 1.5% | 1.3% | 1.3% | 0.7% |
| Sex | | | | |
| Male | 1.6% | 1.3% | 1.4% | 0.7% |
| Female | 2.1 | 2.7 | 2.0 | 2.4 |
| Age | | | | |
| 18-24 | 2.7% | 2.0% | 2.0% | 1.0% |
| 25-34 | 2.7 | 1.9 | 2.5 | 1.2 |
| 35-49 | 1.9 | 2.1 | 1.5 | 1.2 |
| 50 or older | 4.3 | 2.5 | 3.1 | 4.2 |
| Race/Hispanic origin | | | | |
| White | 2.1% | 1.9% | 1.8% | 1.2% |
| Black/African American | 2.9 | 1.7 | 1.5 | 1.4 |
| Hispanic/Latino | 2.8 | 2.3 | 3.4 | 1.2 |
| Other | 5.4 | 3.4 | 2.6 | 2.1 |

Source: Bureau of Justice Statistics, National Inmate Survey, 2011–12.

APPENDIX TABLE 9

Standard errors for figure 2: Rates of ever having a chronic condition among state and federal prisoners, 2004 and 2011–12

| | State and federal prisoners | | |
|----------------------------------|-----------------------------|---------|--|
| Ever had a chronic condition | 2004 | 2011–12 | |
| Chronic condition | | | |
| High blood pressure/hypertension | 0.4% | 1.2% | |
| Diabetes/high blood sugar | 0.2 | 0.8 | |
| Asthma | 0.3 | 0.9 | |
| Arthritis/rheumatism | 0.4 | 0.9 | |
| Heart-related problems | 0.3 | 1.0 | |

Source: Bureau of Justice Statistics, National Inmate Survey, 2011–12; and Survey of Inmates in State and Federal Correctional Facilities, 2004.

APPENDIX TABLE 10

Standard errors for figure 3: Rate of ever having a chronic condition among jail inmates, 2002 and 2011–12

| | Jail inmates | | |
|----------------------------------|--------------|---------|--|
| Ever had a chronic condition | 2002 | 2011-12 | |
| Chronic condition | | | |
| High blood pressure/hypertension | 0.5% | 1.1% | |
| Diabetes/high blood sugar | 0.3 | 0.6 | |
| Asthma | 0.5 | 1.0 | |
| Arthritis/rheumatism | 0.5 | 0.7 | |
| Heart-related problems | 0.4 | 0.7 | |

Source: Bureau of Justice Statistics, National Inmate Survey, 2011–12; and Survey of Inmates in Local Jails, 2002.

^{**}Difference with comparison group is significant at the 95% confidence level.

Source: Bureau of Justice Statistics, National Inmate Survey, 2011–12.

State and federal prisoners and jail inmates, by demographic characteristics, 2011–12

| | Sta | te and federal priso | prisoners* Jail inmates | | Jail inmates | |
|-----------------------------------|-----------|----------------------|-------------------------|---------|--------------|----------------|
| Demographic characteristic | Number | Percent | Standard error | Number | Percent | Standard error |
| All inmates | 1,441,800 | 100% | ~ | 720,200 | 100% | ~ |
| Sex | | | | | | |
| Male | 1,345,200 | 93.3% | 0.9% | 628,600 | 87.3%** | 0.9% |
| Female | 96,600 | 6.7 | 0.9 | 91,600 | 12.7** | 0.9 |
| Race/Hispanic origin ^a | | | | | | |
| White | 427,100 | 29.9% | 1.5% | 261,800 | 36.7%** | 1.6% |
| Black/African American | 489,900 | 34.3 | 2.3 | 222,500 | 31.2 | 1.8 |
| Hispanic/Latino | 356,100 | 24.9 | 2.6 | 146,400 | 20.5 | 1.6 |
| Other ^b | 156,000 | 10.9 | 1.0 | 82,800 | 11.6 | 0.8 |
| Age | | | | | | |
| 18–24 | 166,200 | 11.5% | 0.9% | 188,200 | 26.1%** | 1.0% |
| 25–34 | 471,700 | 32.7 | 1.4 | 255,100 | 35.4 | 1.1 |
| 35–49 | 559,500 | 38.8 | 1.5 | 210,400 | 29.2** | 1.1 |
| 50 or older | 244,500 | 17.0 | 1.0 | 66,500 | 9.2** | 0.7 |

^{*}Comparison group.

Source: Bureau of Justice Statistics, National Inmate Survey, 2011–12.

^{**}Difference with comparison group is significant at the 95% confidence level.

[~]Not applicable.

^aExcludes persons of Hispanic or Latino origin, unless specified.

^bIncludes persons identified as American Indian or Alaska Native; Asian, Native Hawaiian, or other Pacific Islander; and two or more races.



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