**Supplemental Digital Content 1**

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| **Table 1. Selected characteristics of reported syphilis cases (all stages) with neurologic, ocular, and otic manifestations stratified by HIV status — 16 states, 2019a** | | | | |
| **Characteristic** | **Syphilis cases** | **Neurologic manifestations** | **Ocular manifestations** | **Otic manifestations** |
|  | **n** | **n (%, Row)** | **n (%, Row)** | **n (%, Row)** |
| Total  Syphilis surveillance stageb  HIV-infected early syphilis  HIV-infected late syphilis  HIV-negative early syphilis  HIV-negative late syphilis  HIV status unknown early syphilis  HIV status unknown late syphilis | 41,187  9,741  2,817  12,443  6,046  4,986  5,154 | 445 (1.1)  95 (0.98)  84 (2.98)  87 (0.70)  81 (1.34)  33 (0.66)  65 (1.26) | 461 (1.1)  102 (1.05)  66 (2.34)  101 (0.81)  92 (1.52)  38 (0.76)  62 (1.20) | 166 (0.4)  31 (0.32)  20 (0.71)  53 (0.43)  29 (0.48)  14 (0.28)  19 (0.37) |
| Race/Hispanic ethnicity  HIV-infected, Black, non-Hispanic  HIV-infected, White, non-Hispanic  HIV-infected, Other, non-Hispanic  HIV-infected, Hispanic  HIV-infected, missing/unknown race/ethnicity  HIV-negative, Black, non-Hispanic  HIV-negative, White, non-Hispanic  HIV-negative, Other, non-Hispanic  HIV-negative, Hispanic  HIV-negative, missing/unknown race/ethnicity  HIV status unknown, Black, non-Hispanic  HIV status unknown, White, non-Hispanic  HIV status unknown, Other, non-Hispanic  HIV status unknown, Hispanic  HIV status unknown, missing/unknown race/ethnicity | 6,863  2,434  1,359  1,820  82  7,702  5,585  1,867  2,888  447  4,150  2,751  689  1,595  955 | 70 (1.02)  71 (2.92)  24 (1.77)  13 (0.71)  1 (1.22)  46 (0.60)  95 (1.70)  15 (0.80)  7 (0.24)  5 (1.12)  29 (0.70)  48 (1.74)  8 (1.16)  8 (0.50)  5 (0.52) | 58 (0.85)  70 (2.88)  23 (1.69)  15 (0.82)  2 (2.44)  47 (0.61)  112 (2.01)  18 (0.96)  10 (0.35)  6 (1.34)  23 (0.55)  47 (1.71)  12 (1.74)  12 (0.75)  6 (0.63) | 15 (0.22)  25 (1.03)  8 (0.59)  3 (0.16)  0 (0)  21 (0.27)  54 (0.97)  5 (0.27)  1 (0.03)  1 (0.22)  9 (0.22)  16 (0.58)  1 (0.15)  5 (0.31)  2 (0.21) |
| Injection drug use past 12 months (IDU)  HIV-infected, yes, IDU  HIV-infected, no, IDU  HIV-infected, missing/unknown IDU status  HIV-negative, yes, IDU  HIV-negative, no, IDU  HIV-negative, missing/unknown IDU status  HIV status unknown, yes, IDU  HIV status unknown, no, IDU  HIV status unknown, missing/unknown IDU status | 325  6,886  5,347  972  13,125  4,392  285  1,685  8,170 | 13 (4.00)  104 (1.51)  62 (1.16)  22 (2.26)  98 (0.75)  48 (1.09)  10 (3.51)  33 (1.96)  55 (0.67) | 16 (4.92)  104 (1.51)  48 (0.90)  23 (2.37)  129 (0.98)  41 (0.93)  14 (4.91)  34 (2.02)  52 (0.64) | 5 (1.54)  31 (0.45)  15 (0.28)  16 (1.65)  51 (0.39)  15 (0.34)  5 (1.75)  15 (0.89)  13 (0.16) |
| Sex and sex of sex partners  HIV-infected men who have sex with menc  HIV-infected men who have sex with women only  HIV-infected men with unknown sex of sex partners  HIV-infected women  HIV-infected with missing/unknown sex  HIV-negative men who have sex with men  HIV-negative men who have sex with women only  HIV-negative men with unknown sex of sex partners  HIV-negative women  HIV-negative with missing/unknown sex  HIV status unknown men who have sex with men  HIV status unknown men who have sex with women only  HIV status unknown men with unknown sex of sex partners  HIV status unknown women  HIV status unknown with missing/unknown sex | 7,277  477  4,501  301  2  5,916  4,173  2,649  5,746  5  1,833  1,113  4,714  2,474  6 | 106 (1.46)  11 (2.31)  49 (1.09)  12 (3.99)  1 (50.00)  40 (0.68)  36 (0.86)  27 (1.02)  65 (1.13)  0 (0)  12 (0.65)  13 (1.17)  44 (0.93)  29 (1.17)  0 (0) | 99 (1.36)  17 (3.56)  43 (0.96)  8 (2.66)  1 (50.00)  56 (0.95)  44 (1.05)  20 (0.76)  73 (1.27)  0 (0)  19 (1.04)  10 (0.90)  44 (0.93)  27 (1.09)  0 (0) | 35 (0.48)  1 (0.21)  7 (0.16)  8 (2.66)  0 (0)  26 (0.44)  12 (0.29)  9 (0.34)  35 (0.61)  0 (0)  6 (0.33)  5 (0.45)  7 (0.15)  15 (0.61)  0 (0) |
| aStates reporting ≥70% of syphilis cases ≥15 years old with clinical manifestation response values that were not missing or unknown in 2019 were included in the analysis. Values shown for prevalence represent the total of verified, likely, and possible neurologic, ocular, and otic clinical manifestations.  bEarly syphilis was defined as those cases assigned a syphilis surveillance stage of primary, secondary, or early non-primary non-secondary and late syphilis was defined as those cases staged as unknown duration or late.  cThe men who have sex with men category included gay, bisexual, and other men who have sex with men. | | | | |