**Appendix Table 1**. Components of high-risk sex among men who have sex with men with diagnosed HIV, overall and by selected characteristics—Medical Monitoring Project, 2015-2019 (n=4,923 persons).\*

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | **No sustained viral suppression** | **Condomless sex** | **Condomless sex and not virally suppressed** | **Sex with an HIV-negative or HIV-unknown partner** | **Sex with an HIV-negative or HIV-unknown partner not known on PrEP** | **Condomless sex with an HIV-negative or HIV-unknown partner**  | **Condomless sex with an HIV-negatie or HIV-unknown partner and not virally suppressed**  | **High-risk sex** |
|  | **weighted col % (95% CI)** | **weighted col % (95% CI)** | **weighted col % (95% CI)** | **weighted col % (95% CI)** | **weighted col % (95% CI)** | **weighted col % (95% CI)** | **weighted col % (95% CI)** | **weighted col % (95% CI)** |
| **No sustained viral suppression** | 100% | 66 (62–70) | 66 (62–70) | 71 (68–74) | 62 (59–65) | 36 (32–39) | 45 (41–48) | 30 (27–33) |
| **Condomless sex** |  | 100% | 36 (33–38) | 71 (69–73) | 61 (59–63) | 58 (56–61) | 24 (22–26) | 16 (14–18) |
| **Condomless sex and not virally suppressed** |  |  | 100% | 68 (64–71) | 58 (55–62) | 54 (50–58) | 68 (64–71) | 45 (41–49) |
| **Sex with an HIV-negative or HIV-unknown partner** |  |  |  | 100% | 88 (86–89) | 52 (50–55) | 22 (19–24) | 14 (12–16) |
| **Sex with an HIV-negative or HIV-unknown partner not known on PrEP** |  |  |  |  | 100% | 51 (48–54) | 21 (19–24) | 16 (14–18) |
| **Condomless sex with an HIV-negative or HIV-unknown partner**  |  |  |  |  |  | 100% | 33 (30–36) | 28 (24–31) |
| **Condomless sex with an HIV-negative or HIV-unknown partner and not virally suppressed**  |  |  |  |  |  |  | 100% | 67 (62–72) |
| **Condomless sex with an HIV-negative or HIV-unknown partner not known to be on PrEP and not virally suppressed** |   |   |   |   |   |   |   | 100% |

\*Categories for some variables may not sum to total due to missing values. HIV-discordant partnerships were defined as including one HIV-positive person and one HIV-negative or HIV-unknown person.

†High-risk sex was defined as the HIV-positive MMP participant: (1) not having sustained viral suppression (i.e., having ≥1 detectable viral load in the past 12 months), and (2) having condomless sex with an HIV-negative partner not known to be using PrEP or an HIV-unknown partner.

**Appendix Table 2**. High-risk sex among HIV-discordant sexual partnerships of men who have sex with men with diagnosed HIV, excluding partners with unknown HIV status, overall and by selected characteristics—Medical Monitoring Project, 2015-2019 (n=4,113 partnerships).\*

|  |  |  |
| --- | --- | --- |
|   |  | **High risk sex**† |
|   | **Yes** | **No** | **Unadjusted PR‡ (95% CI)** | ***P*** | **Adjusted PR‡ (95% CI)** | ***P*** |
|   | **n** | **Weighted row % (95% CI)** | **n** | **Weighted row % (95% CI)** |  |  |
| Total partnerships | 186 | 5.3 (4.0–6.6) | 3837 | 94.7 (93.4–96.0) |  |  |  |  |
| Age, in years |   |   |   |   |  |  |  |  |
|  18–29 | 44 | 7.8 (3.7–11.8) | 778 | 92.2 (88.2–96.3) | 1.34 (0.71-2.50) | 0.368 |  |  |
|  30–39 | 49 | 3.8 (2.6–5.0) | 1059 | 96.2 (95.0–97.4) | 0.66 (0.40-1.08) | 0.096 |  |  |
|  40–49 | 36 | 4.4 (2.6–6.3) | 976 | 95.6 (93.7–97.4) | 0.76 (0.47-1.22) | 0.252 |  |  |
|  ≥50 | 57 | 5.8 (3.6–8.0) | 1024 | 94.2 (92.0–96.4) | Reference |   |  |  |
| Race/ethnicity within partnerships§ |   |   |   |   |   |  |  |  |
| White HIV-positive person with white partner | 54 | 7.8 (4.3–11.3) | 1011 | 92.2 (88.7–95.7) | Reference |   | Reference |   |
| White HIV-positive person with non-white partner | 29 | 5.6 (3.1–8.2) | 571 | 94.4 (91.8–96.9) | 0.72 (0.39-1.35) | 0.309 | 0.73 (0.40-1.34) | 0.317 |
| Black HIV-positive person with black partner | 34 | 4.0 (2.7–5.3) | 706 | 96.0 (94.7–97.3) | 0.51 (0.31-0.84) | 0.009 | 0.44 (0.24-0.80) | 0.008 |
| Black HIV-positive person with non-black partner | 10 | 4.3 (0.2–8.5)\*\* | 279 | 95.7 (91.5–99.8) | 0.55 (0.19-1.59) | 0.267 | 0.48 (0.17-1.39) | 0.173 |
| Hispanic/Latino HIV-positive person with Hispanic/Latino partner | 24 | 5.1 (2.4–7.9) | 487 | 94.9 (92.1–97.6) | 0.66 (0.33-1.34) | 0.249 | 0.66 (0.32-1.34) | 0.246 |
| Hispanic/Latino HIV-positive person with non-Hispanic/Latino partner | 15 | 2.5 (1.0–4.1)\*\* | 442 | 97.5 (95.9–99.0) | 0.33 (0.15-0.69) | 0.003 | 0.33 (0.15-0.71) | 0.005 |
| Others | 16 | 4.7 (2.0–7.5) | 289 | 95.3 (92.5–98.0) | 0.61 (0.30-1.25) | 0.173 | 0.60 (0.28-1.26) | 0.176 |
| Race/ethnicity of HIV-positive person§ |   |   |   |   |   |  |  |  |
| White | 86 | 7.0 (4.5–9.5) | 1611 | 93.0 (90.5–95.5) | Reference |   | Reference |   |
| Black | 44 | 4.1 (2.5–5.7) | 986 | 95.9 (94.3–97.5) | 0.59 (0.36-0.96) | 0.033 | 0.59 (0.36-0.96) | 0.017 |
| Hispanic/Latino | 39 | 4.0 (2.3–5.6) | 945 | 96.0 (94.4–97.7) | 0.57 (0.33-1.00) | 0.050 | 0.57 (0.33-1.00) | 0.057 |
| Other | 17 | 5.0 (2.2–7.7) | 295 | 95.0 (92.3–97.8) | 0.71 (0.37-1.35) | 0.294 | 0.71 (0.37-1.35) | 0.294 |
| Race/ethnicity of HIV-negative/unknown partner§ |   |   |   |   |   |  |  |  |
| White | 79 | 6.5 (4.0–8.9) | 1577 | 93.5 (91.1–96.0) | Reference |   | Reference |   |
| Black | 57 | 4.4 (3.2–5.6) | 1052 | 95.6 (94.4–96.8) | 0.68 (0.45-1.02) | 0.062 | 0.68 (0.45-1.02) | 0.048 |
| Hispanic/Latino | 43 | 5.4 (3.4–7.3) | 951 | 94.6 (92.7–96.6) | 0.83 (0.49-1.39) | 0.476 | 0.83 (0.49-1.39) | 0.480 |
| Gender partnerships |   |   |   |   |   |  |  |  |
| Male/Male | 181 | 5.4 (4.1–6.8) | 3688 | 94.6 (93.2–95.9) | 2.22 (0.76-6.50) | 0.140 | 2.22 (0.75-6.56) | 0.144 |
| Male/Female | 5 | 2.5 (0.0–5.1)\*\* | 149 | 97.5 (94.9–100.0) | Reference |   | Reference |   |
| Level of commitment in partnership |   |   |   |   |   |  |  |  |
| Not committed to very committed | 125 | 4.1 (2.8–5.3) | 3217 | 95.9 (94.7–97.2) | Reference |   | Reference |   |
| Committed to above and beyond anyone else | 60 | 10.7 (7.5–14.0) | 617 | 89.3 (86.0–92.5) | 2.65 (1.81-3.87) | <0.001 | 2.72 (1.89-3.92) | <0.001 |

\*Categories for some variables may not sum to total due to missing values. HIV-discordant partnerships were defined as including one HIV-positive person and one HIV-negative or HIV-unknown person.

†High-risk sex was defined as the HIV-positive MMP participant: (1) not having sustained viral suppression (i.e., having ≥1 detectable viral load in the past 12 months), and (2) having condomless sex with an HIV-negative partner not known to be using PrEP or an HIV-unknown partner.

‡PRs were adjusted for age.

§Racial/ethnic categories are mutually exclusive. Hispanics/Latinos can be of any race.

\*\*Values with a coefficient of variation ≥0.30, an absolute confidence interval width ≥30% and values with an absolute confidence interval width of between 5% and 30% and a relative confidence interval width >130% are marked with an asterisk and should be interpreted with caution.