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| Table 2a. Association between DREAMS and HIV incidence among AGYW |
|  | Person-years | n  **HIV-positive** | Incidence rate | Unadjusted Rate Ratio (95% CI) | Age Adjusted Rate Ratio (95% CI) | Fully Adjusted Rate Ratio (95% CI) | Likelihood Ratio (LR) p-value |
|  Invited or received DREAMS in 2017/18 |   |  |   |   |   |   | 0.549  |
| No | 1054 | 29 | 2.8 | 1 | 1 | 1 |   |
| Yes | 1329 | 23 | 1.7 | 0.63 (0.36 - 1.09 ) | 0.78 (0.44 - 1.36 ) | 0.83 (0.46 - 1.52 ) |  |
| Current age |   |  |   |   |   |   | 0.449 |
| 13-17 | 1439 | 15 | 1.0 | 1 |   | 1 |   |
| 18-19 | 475 | 19 | 4.0 | 2.57 (1.23 - 5.39 ) |   | 1.74 (0.73 - 4.15 ) |   |
| 20-24 | 469 | 18 | 3.8 | 3.50 (1.81 - 6.76 ) |   | 1.40 (0.51 - 3.84 ) |  |
| Geographic area |   |  |   |   |   |   | 0.034 |
| Rural | 1528 | 25 | 1.6 | 1 | 1 | 1 |   |
| Peri-urban/urban | 830 | 27 | 3.3 | 1.99 (1.15 - 3.43 ) | 1.96 (1.14 - 3.38 ) | 1.89 (1.05 - 3.39 ) |  |
| Socio-economic status |   |  |   |   |   |   | 0.316 |
| Low | 838 | 23 | 2.7 | 1 | 1 | 1 |   |
| Middle | 811 | 16 | 2.0 | 0.72 (0.38 - 1.36 ) | 0.71 (0.37 - 1.34 ) | 0.66 (0.34 - 1.28 ) |   |
| High | 649 | 11 | 1.7 | 0.62 (0.30 - 1.27 ) | 0.63 (0.31 - 1.29 ) | 0.60 (0.28 - 1.29 ) |  |
| Age and education |   |  |   |   |   |   | 0.358 |
| 13-17 or 18-22 & In school | 1962 | 34 | 1.7 | 1 | 1 | 1 |   |
| 18-22 & Not completed secondary | 148 | 9 | 6.1 | 3.51 (1.68 - 7.32 ) | 1.96 (0.85 - 4.54 ) | 1.79 (0.73 - 4.38 ) |   |
| 18-22 & completed secondary | 272 | 9 | 3.3 | 1.91 (0.92 - 3.99 ) | 1.06 (0.45 - 2.48 ) | 0.98 (0.39 - 2.46 ) |  |
| Food insecurity |   |  |   |   |   |   | 0.674 |
| No | 1671 | 31 | 1.9 | 1 | 1 | 1 |   |
| Yes | 706 | 21 | 3.0 | 1.60 (0.92 - 2.79 ) | 1.27 (0.72 - 2.24 ) | 1.14 (0.62 - 2.11 ) |  |
| Ever had sex, ever pregnant |   |  |   |   |   |   | 0.278 |
| Never had sex | 1568 | 18 | 1.1 | 1 | 1 | 1 |   |
| Ever sex, never pregnant | 266 | 7 | 2.6 | 2.29 (0.96 - 5.48 ) | 1.68 (0.64 - 4.41 ) | 1.54 (0.58 - 4.10 ) |   |
| Ever pregnant | 537 | 24 | 4.5 | 3.89 (2.11 - 7.17 ) | 2.78 (1.26 - 6.14 ) | 2.02 (0.85 - 4.78 ) |  |
| Migrated/moved |   |  |   |   |   |   | 0.174 |
| No | 2036 | 36 | 1.8 | 1 | 1 | 1 |   |
| Yes | 347 | 16 | 4.6 | 2.61 (1.45 - 4.70 ) | 1.85 (0.99 - 3.46 ) | 1.60 (0.81 - 3.16 ) |  |
| Table 2b. Association between DREAMS and HSV-2 incidence among AGYW |
|   | Person years | n HSV**-2 positive** | Incidence rate | Unadjusted Rate Ratio (95% CI) | Age Adjusted Rate Ratio (95% CI) | Fully Adjusted Rate Ratio (95% CI) | LR p-value |
|  Invited or received DREAMS in 2017/18 |   |  |   |   |   |   | 0.759  |
| No | 741 | 139 | 18.8 | 1 | 1 | 1 |   |
| Yes | 1032 | 168 | 16.3 | 0.87 (0.69 -1.09 ) | 0.99 (0.79 -1.25 ) | 0.96 (0.76 -1.23 ) |  |
| Current age |  |  |  |   |   |   |  0.002 |
| 13-14 | 519 | 57 | 11.0 | 1 |   | 1 |   |
| 15-17 | 656 | 94 | 14.3 | 1.66 (1.09 -2.55 ) |   | 1.56 (1.02 -2.40 ) |   |
| 18-19 | 322 | 85 | 26.4 | 2.68 (1.73 -4.15 ) |   | 2.17 (1.36 -3.46 ) |   |
| 20-24 | 276 | 71 | 25.7 | 3.30 (2.16 -5.05 ) |   | 2.55 (1.53 -4.25 ) |  |
| Geographic area |  |  |  |   |   |   | 0.084  |
| Rural | 1126 | 212 | 18.8 | 1 | 1 | 1 |   |
| Peri-urban/urban | 628 | 94 | 15.0 | 0.79 (0.62 -1.01 ) | 0.79 (0.62 -1.01 ) | 0.80 (0.62 -1.03 ) |  |
| Socio-economic status |  |  |  |   |   |   |  0.751 |
| Low | 639 | 122 | 19.1 | 1 | 1 | 1 |   |
| Middle | 584 | 102 | 17.5 | 0.92 (0.70 -1.19 ) | 0.94 (0.72 -1.22 ) | 0.95 (0.73 -1.24 ) |   |
| High | 484 | 73 | 15.1 | 0.79 (0.59 -1.06 ) | 0.82 (0.61 -1.09 ) | 0.89 (0.66 -1.20 ) |  |
| Age and education |  |  |  |   |   |   | 0.505  |
| 13-17 or 18-22 & In school | 1515 | 241 | 15.9 | 1 | 1 | 1 |   |
| 18-22 & Not completed secondary | 74 | 25 | 33.7 | 2.12 (1.40 -3.20 ) | 1.24 (0.79 -1.96 ) | 1.09 (0.67 -1.76 ) |   |
| 18-22 & completed secondary | 184 | 41 | 22.3 | 1.40 (1.01 -1.95 ) | 0.82 (0.56 -1.20 ) | 0.83 (0.56 -1.23 ) |  |
| Food insecurity |  |  |  |   |   |   |  0.531 |
| No | 1256 | 193 | 15.4 | 1 | 1 | 1 |   |
| Yes | 510 | 114 | 22.4 | 1.45 (1.15 -1.83 ) | 1.23 (0.97 -1.56 ) | 1.08 (0.84 -1.39 ) |  |
| Ever had sex, ever pregnant |  |  |  |   |   |   | 0.028  |
| Never had sex | 1278 | 171 | 13.4 | 1 | 1 | 1 |   |
| Ever sex, never pregnant | 161 | 49 | 30.5 | 2.28 (1.66 -3.13 ) | 1.68 (1.18 -2.37 ) | 1.62 (1.13 -2.33 ) |   |
| Ever pregnant | 323 | 85 | 26.3 | 1.97 (1.52 -2.55 ) | 1.36 (0.98 -1.87 ) | 1.34 (0.95 -1.89 ) |  |
| Migrated/moved |  |  |  |   |   |   |  0.895 |
| No | 1546 | 257 | 16.6 | 1 | 1 | 1 |   |
| Yes | 227 | 50 | 22.0 | 1.33 (0.98 -1.80 ) | 0.98 (0.72 -1.35 ) | 1.02 (0.73 -1.43 ) |  |