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| **Supplementary Table 1**. Unadjusted and adjusted odds ratios (OR) and 95% confidence intervals (95% CI) of testing positive for gonorrhea, chlamydia, syphilis, or HIV (initial visits only), August 2015 – July 2016 (n = 9,499). |
|   | Gonorrhea |   | Chlamydia |
|   | Unadjusted OR (95% CI) | Three-Month Adjusted OR (95% CI) | Last-Partner Adjusted OR (95% CI) |   | Unadjusted OR (95% CI) | Three-Month Adjusted OR (95% CI) | Last-Partner Adjusted OR (95% CI) |
| Past Three Months |   |   |   |   |   |   |   |
| Met partners via  GSN apps | **1.22 (1.09-1.37)** | **1.15 (1.00-1.31)** | - |   | **1.23 (1.08-1.38)** | 1.13 (0.98-1.31) | - |
| Did not meet  partners via  GSN apps | 1.00 | 1.00 | - |   | 1.00 | 1.00 | - |
| Last Partner |   |   |   |   |   |   |   |
| Met via GSN app | 0.97 (0.83-1.14) | - | 0.99 (0.82-1.18) |   | 1.11 (0.94-1.31) | - | 1.14 (0.95-1.37) |
| Did not meet via  GSN app | 1.00 | - | 1.00 |   | 1.00 | - | 1.00 |
| Age Group |   |   |   |   |   |   |   |
| 18 - 24 | **2.34 (1.91-2.86)** | **2.31 (1.83-2.92)** | **2.35 (1.86-2.98)** |   | **2.03 (1.66-2.47)** | **1.78 (1.41-2.24)** | **1.80 (1.43-2.26)** |
| 25 - 29 | **2.36 (1.96-2.86)** | **2.26 (1.82-2.80)** | **2.28 (1.84-2.83)** |   | **1.54 (1.27-1.87)** | **1.35 (1.09-1.68)** | **1.36 (1.10-1.69)** |
| 30 - 39 | **1.77 (1.46-2.14)** | **1.70 (1.37-2.10)** | **1.72 (1.39-2.13)** |   | **1.32 (1.09-1.60)** | **1.28 (1.04-1.58)** | **1.29 (1.05-1.60)** |
| 40+ | 1.00 | 1.00 | 1.00 |   | 1.00 | 1.00 | 1.00 |
| Race/Ethnicity |   |   |   |   |   |   |   |
| Black or African  American | **1.60 (1.30-1.98)** | **1.57 (1.24-1.99)** | **1.56 (1.23-1.97)** |   | **1.56 (1.24-1.97)** | **1.61 (1.25-2.07)** | **1.60 (1.24-2.06)** |
| Hispanic | **1.15 (1.01-1.32)** | 1.05 (0.90-1.23) | 1.04 (0.89-1.22) |   | **1.33 (1.16-1.54)** | **1.24 (1.05-1.46)** | **1.23 (1.04-1.45)** |
| Other | 1.04 (0.87-1.24) | 0.90 (0.74-1.09) | 0.90 (0.74-1.09) |   | 1.13 (0.94-1.36) | 1.08 (0.88-1.33) | 1.08 (0.88-1.33) |
| White | 1.00 | 1.00 | 1.00 |   | 1.00 | 1.00 | 1.00 |
| Education Level |   |   |   |   |   |   |   |
| High School  Graduate or  Below | 1.00 | 1.00 | 1.00 |   | 1.00 | 1.00 | 1.00 |
| Some College | 1.01 (0.80-1.28) | 0.99 (0.78-1.26) | 0.98 (0.77-1.25) |   | 0.97 (0.76-1.23) | 0.99 (0.78-1.27) | 0.99 (0.78-1.26) |
| College Degree  or Beyond | **0.77 (0.62-0.95)** | 0.87 (0.69-1.08) | 0.87 (0.70-1.09) |   | **0.64 (0.52-0.80)** | **0.75 (0.60-0.94)** | **0.75 (0.60-0.94)** |
| Ecstasy Use |   |   |   |   |   |   |   |
| No | 1.00 | 1.00 | 1.00 |   | 1.00 | 1.00 | 1.00 |
| Yes | **1.53 (1.30-1.80)** | **1.28 (1.06-1.56)** | **1.28 (1.05-1.55)** |   | **1.33 (1.11-1.59)** | 1.13 (0.91-1.41) | 1.13 (0.91-1.41) |
| Meth Use |   |   |   |   |   |   |   |
| No | 1.00 | 1.00 | 1.00 |   | 1.00 | 1.00 | 1.00 |
| Yes | **1.97 (1.56-2.47)** | 1.62 (1.23-2.13) | **1.63 (1.24-2.15)** |   | **1.80 (1.41-2.31)** | 1.3 (0.95-1.77) | 1.30 (0.96-1.77) |
| Nitrite Use |   |   |   |   |   |   |   |
| No | 1.00 | 1.00 | 1.00 |   | 1.00 | 1.00 | 1.00 |
| Yes | **1.44 (1.25-1.66)** | 1.15 (0.96-1.37) | **1.17 (1.24-2.15)** |   | **1.30 (1.11-1.51)** | 1.13 (0.93-1.36) | 1.14 (0.94-1.38) |
| Number of Partners (past  three months) | **1.001 (1.000-1.003)** | **1.02(1.01-1.02)** | **1.02(1.01-1.03)** |   | 1.000(0.998-1.002) | **1.01(1.00-1.02)** | **1.01(1.01-1.02)** |
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| **(Supplementary Table 1.)** Unadjusted and adjusted odds ratios (OR) and 95% confidence intervals (95% CI) of testing positive for gonorrhea, chlamydia, syphilis, or HIV by demographic and behavioral factors and GSN app use (initial visits only), August 2015 – July 2016 (n = 9,499). |
|   | Syphilis |   | HIV |
|   | Unadjusted OR (95% CI) | Three-Month Adjusted OR (95% CI) | Last-Partner Adjusted OR (95% CI) |   | Unadjusted OR (95% CI) | Three-Month Adjusted OR (95% CI) | Last-Partner Adjusted OR (95% CI) |
| Past Three Months |   |   |   |   |   |   |   |
| Met partners via  GSN apps | **0.67 (0.46-0.97)** | 0.66 (0.43-1.02) | - |   | 1.04 (0.72-1.51) | 1.25 (0.76-2.06) | - |
| Did not meet  partners via  GSN apps | 1.00 | 1.00 | - |   | 1.00 | 1.00 | - |
| Last Partner |   |   |   |   |   |   |   |
| Met via GSN app | 0.84 (0.50-1.43) | - | 0.98 (0.55-1.74) |   | 1.15 (0.70-1.89) | - | 1.73 (0.95-3.15) |
| Did not meet via  GSN app | 1.00 | - | 1.00 |   | 1.00 | - | 1.00 |
| Age Group |   |   |   |   |   |   |   |
| 18 - 24 | 0.82 (0.48-1.39) | 0.90 (0.48-1.69) | 0.85 (0.45-1.59) |   | 1.73 (0.89-3.36) | 1.04 (0.43-2.54) | 1.05 (0.43-2.56) |
| 25 - 29 | 0.68 (0.41-1.13) | 0.69 (0.38-1.26) | 0.67 (0.37-1.21) |   | **2.42 (1.33-4.41)** | **2.30 (1.04-5.06)** | **2.34 (1.06-5.14)** |
| 30 - 39 | 0.73 (0.45-1.18) | 0.75 (0.43-1.31) | 0.72 (0.41-1.27) |   | 1.29 (0.67-2.45) | 1.03 (0.44-2.45) | 1.04 (0.44-2.46) |
| 40+ | 1.00 | 1.00 | 1.00 |   | 1.00 | 1.00 | 1.00 |
| Race/Ethnicity |   |   |   |   |   |   |   |
| Black or African  American | 1.73 (0.91-3.29) | **2.18 (1.08-4.39)** | **2.24 (1.11-4.51)** |   | **3.16 (1.69-5.91)** | **3.04 (1.41-6.52)** | **3.07 (1.43-6.60)** |
| Hispanic | **1.54 (1.03-2.32)** | 1.58 (0.96-2.60) | 1.63 (0.99-2.67) |   | **2.58 (1.65-4.03)** | **1.99 (1.11-3.55)** | **1.99 (1.12-3.55)** |
| Other | 0.94 (0.51-1.71) | 1.33 (0.70-2.51) | 1.33 (0.71-2.52) |   | 0.87 (0.41-1.83) | 0.72 (0.27-1.94) | 0.70 (0.26-1.90) |
| White | 1.00 | 1.00 | 1.00 |   | 1.00 | 1.00 | 1.00 |
| Education Level |   |   |   |   |   |   |   |
| High School  Graduate or  Below | 1.00 | 1.00 | 1.00 |   | 1.00 | 1.00 | 1.00 |
| Some College | 0.84 (0.44-1.62) | 0.86 (0.44-1.68) | 0.87 (0.45-1.69) |   | 1.10 (0.60-2.01) | 1.07 (0.58-2.00) | 1.08 (0.58-2.01) |
| College Degree  or Beyond | **0.53 (0.29-0.96)** | 0.64 (0.34-1.19) | 0.62 (0.34-1.16) |   | **0.21 (0.11-0.40)** | 0.25 (0.13-0.51) | **0.25 (0.13-0.50)** |
| Ecstasy Use |   |   |   |   |   |   |   |
| No | 1.00 | 1.00 | 1.00 |   | 1.00 | 1.00 | 1.00 |
| Yes | 1.08 (0.63-1.87) | 1.29 (0.68-2.45) | 1.30 (0.69-2.47) |   | **2.24 (1.43-3.51)** | 1.39 (0.70-2.77) | 1.42 (0.71-2.82) |
| Meth Use |   |   |   |   |   |   |   |
| No | 1.00 | 1.00 | 1.00 |   | 1.00 | 1.00 | 1.00 |
| Yes | **2.10 (1.12-3.94)** | **2.17 (1.04-4.50)** | **2.09 (1.01-4.34)** |   | **6.03 (3.80-9.58)** | **4.57 (2.30-9.09)** | **4.62 (2.33-9.16)** |
| Nitrite Use |  |  |  |   |   |   |   |
| No | 1.00 | 1.00 | 1.00 |   | 1.00 | 1.00 | 1.00 |
| Yes | 1.04 (0.65-1.68) | 0.9 (0.50-1.64) | 0.85 (0.47-1.54) |   | **1.77 (1.16-2.72)** | 1.10 (0.58-2.08) | 1.12 (0.59-2.11) |
| Number of Partners (past  three months) | 1.00(0.99-1.01) | **1.02(1.001-1.03)** | 1.01(0.997-1.03) |   | 1.002(0.999-1.004) | 0.94(0.88-1.01) | 0.95(0.89-1.01) |