Supplementary Table. Multivariate analysis on risk factors for syphilis incidence.

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| --- | --- | --- | --- | --- | --- | --- | --- |
| **Factors** | **Incidence cases** | **Univariate** | | **Multivariate 1** | | **Multivariate 2** | |
| **n/N\* (%)** | **HR**  **(95%CI)** | **p-value** | **Adjusted HR (95%CI)** | **p-value** | **Adjusted HR (95%CI)** | **p-value** |
| Age |  |  |  |  |  |  |  |
| 18-25 | 69/237 (29.1) | Ref. |  |  |  |  |  |
| 26-30 | 39/124 (31.5) | 1.06 (0.72 – 1.57) | 0.77 |  |  |  |  |
| 31-40 | 26/95 (27.4) | 0.94 (0.60 – 1.48) | 0.80 |  |  |  |  |
| >40 | 10/40 (25.0) | 0.78 (0.40 – 1.52) | 0.47 |  |  |  |  |
| MSM |  |  |  |  |  |  |  |
| No | 3/33 (9.1) | Ref. |  | Ref. |  |  |  |
| Yes | 141/463 (30.5) | 4.70 (1.50 – 14.77) | 0.008 | 3.80 (1.20 – 12.0) | 0.02 | 3.68 (1.16 – 11.62) | 0.03 |
| Student |  |  |  |  |  |  |  |
| No | 101/380 (26.6) | Ref. |  |  |  |  |  |
| Yes | 43/116 (37.1) | 1.38 (0.96 – 1.97) | 0.08 |  |  |  |  |
| Group sex |  |  |  |  |  |  |  |
| No | 105/404 (26.0) | Ref. |  | Ref. |  | Ref. |  |
| Yes | 39/92 (42.4) | 1.84 (1.27 – 2.66) | 0.001 | 1.20 (0.79 – 1.81) | 0.39 | 1.02 (0.66 – 1.59) | 0.93 |
| Alcohol use |  |  |  |  |  |  |  |
| No | 87/330 (26.4) | Ref. |  |  |  |  |  |
| Yes | 57/166 (34.3) | 1.26 (0.91 – 1.77) | 0.17 |  |  |  |  |
| Methamphetamine use |  |  |  |  |  |  |  |
| No | 103/412 (25.0) | Ref. |  | Ref. |  | Ref. |  |
| Yes | 41/84 (48.8) | 2.93 (2.03 – 4.22) | <0.001 | 2.51 (1.67 – 3.78) | <0.001 | 2.31 (1.51 – 3.54) | <0.001 |
| Drug injection |  |  |  |  |  |  |  |
| No | 140/490 (28.6) | Ref. |  |  |  |  |  |
| Yes | 4/6 (66.7) | 2.59 (0.96 – 7.02) | 0.06 |  |  |  |  |
| Hep C co-infection |  |  |  |  |  |  |  |
| No | 123/463 (26.6) | Ref. |  |  |  | Ref. |  |
| Yes | 21/33 (63.6) | 3.69 (2.31 – 5.89) | <0.001 |  |  | 2.63 (1.59 – 4.34) | <0.001 |
| Hep B co-infection |  |  |  |  |  |  |  |
| No | 143/494 (29.0) | Ref. |  |  |  |  |  |
| Yes | 1/2 (50.0) | 1.54 (0.21 – 11.07) | 0.67 |  |  |  |  |

\*n=incidence case, N=total N in each category. Analysis in this part excluded participants who were VDRL+ at week 0, N at risk = 496

Abbreviations: HR, hazard ratio; CI, confidence interval; MSM, men who have sex with men; Ref., reference; Hep C, hepatitis C; Hep B, hepatitis B.