|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Table S1. Predictors of latent classes of injection risk behavior (N = 10,042)** | | | | |
|  |  |  |  |  |
| **Injection Risk Classa** | **Predictor** | **OR** | **95% Conf. Int.** | |
| **Class 6: High Risk** | |  |  |  |
|  | **South** | **2.11** | **1.198** | **3.721** |
|  | Midwest | 0.60 | 0.329 | 1.103 |
|  | West | 0.79 | 0.386 | 1.595 |
|  | Puerto Rico | 0.77 | 0.388 | 1.526 |
|  | vs. Northeast |  |  |  |
|  | **Age < 30** | **2.17** | **1.414** | **3.339** |
|  | **Age 30-39** | **1.54** | **1.141** | **2.073** |
|  | Age 40-49 | 1.35 | 1.017 | 1.794 |
|  | vs. Age 50 + |  |  |  |
|  | Hispanic | 0.90 | 0.643 | 1.257 |
|  | **Black** | **0.46** | **0.326** | **0.638** |
|  | Other race | 0.66 | 0.430 | 1.022 |
|  | vs. NH White |  |  |  |
|  | **Ever male-male sex** | **2.41** | **1.589** | **3.641** |
|  | **Female vs. Male** | **1.75** | **1.441** | **2.122** |
|  | Homosexual | 0.59 | 0.241 | 1.450 |
|  | Bisexual | 1.17 | 0.669 | 2.038 |
|  | Female x Homosexual | 3.01 | 0.926 | 9.787 |
|  | Female x Bisexual | 1.82 | 1.047 | 3.149 |
|  | vs. Male Heterosexual |  |  |  |
|  | **Homeless, past 12 mo.** | **1.46** | **1.111** | **1.915** |
|  | **Homeless, current** | **1.53** | **1.163** | **2.021** |
|  | **Speedball** | **1.86** | **1.512** | **2.296** |
|  | **Methamphetamine** | **1.55** | **1.153** | **2.081** |
|  | **Inject Daily** | **2.02** | **1.599** | **2.562** |
|  | HIV positive (SR) | 0.53 | 0.313 | 0.887 |
|  | **HCV positive (SR)** | **1.45** | **1.113** | **1.889** |
|  | **Network size** | **1.01** | **1.002** | **1.009** |
|  |  |  |  |  |
| **Class 5: Moderate Risk** | |  |  |  |
|  | South | 1.66 | 0.970 | 2.837 |
|  | Midwest | 1.95 | 1.098 | 3.451 |
|  | West | 1.28 | 0.662 | 2.454 |
|  | Puerto Rico | 0.53 | 0.274 | 1.016 |
|  | vs. Northeast |  |  |  |
|  | **Age < 30** | **2.29** | **1.609** | **3.247** |
|  | Age 30-39 | 1.33 | 1.008 | 1.761 |
|  | Age 40-49 | 1.08 | 0.825 | 1.407 |
|  | vs. Age 50 + |  |  |  |
|  | Hispanic | 0.72 | 0.459 | 1.114 |
|  | **Black** | **0.45** | **0.319** | **0.647** |
|  | Other race | 0.64 | 0.396 | 1.022 |
|  | vs. NH White |  |  |  |
|  | **Ever male-male sex** | **2.11** | **1.261** | **3.517** |
|  | Female vs. Male | 0.90 | 0.697 | 1.174 |
|  | **Homosexual** | **0.18** | **0.073** | **0.427** |
|  | Bisexual | 0.67 | 0.381 | 1.191 |
|  | Female x Homosexual | 3.07 | 0.808 | 11.670 |
|  | Female x Bisexual | 2.42 | 1.052 | 5.583 |
|  | vs. Male Heterosexual |  |  |  |
|  | **Homeless, past 12 mo.** | **1.54** | 1.204 | 1.977 |
|  | **Homeless, current** | **1.54** | 1.231 | 1.915 |
|  | **Speedball** | **1.85** | 1.453 | 2.345 |
|  | Methamphetamine | 1.12 | 0.852 | 1.474 |
|  | Inject Daily | 1.27 | 0.980 | 1.633 |
|  | HIV positive (SR) | 0.63 | 0.359 | 1.096 |
|  | **HCV positive (SR)** | **1.46** | 1.208 | 1.757 |
|  | **Network size** | **1.01** | 1.003 | 1.010 |
|  |  |  |  |  |
| **Class 4: Syringe** | |  |  |  |
|  | South | 1.67 | 0.968 | 2.889 |
|  | Midwest | 1.33 | 0.551 | 3.211 |
|  | West | 1.08 | 0.546 | 2.132 |
|  | Puerto Rico | 1.15 | 0.427 | 3.094 |
|  | vs. Northeast |  |  |  |
|  | Age < 30 | 1.32 | 0.686 | 2.542 |
|  | Age 30-39 | 1.03 | 0.572 | 1.869 |
|  | Age 40-49 | 1.16 | 0.735 | 1.828 |
|  | vs. Age 50 + |  |  |  |
|  | Hispanic | 0.51 | 0.270 | 0.945 |
|  | **Black** | **0.28** | 0.171 | 0.442 |
|  | Other race | 0.38 | 0.156 | 0.937 |
|  | vs. NH White |  |  |  |
|  | Ever male-male sex | 2.53 | 0.976 | 6.547 |
|  | Female vs. Male | 1.75 | 1.096 | 2.793 |
|  | Homosexual | 0.58 | 0.147 | 2.299 |
|  | Bisexual | 0.60 | 0.228 | 1.601 |
|  | Female x Homosexual | 1.41 | 0.169 | 11.696 |
|  | Female x Bisexual | 2.93 | 0.806 | 10.624 |
|  | vs. Male Heterosexual |  |  |  |
|  | Homeless, past 12 mo. | 1.54 | 1.012 | 2.353 |
|  | Homeless, current | 1.47 | 0.962 | 2.237 |
|  | Speedball | 1.39 | 0.957 | 2.017 |
|  | **Methamphetamine** | **2.45** | 1.474 | 4.074 |
|  | Inject Daily | 1.27 | 0.864 | 1.855 |
|  | HIV positive (SR) | 0.43 | 0.184 | 1.013 |
|  | HCV positive (SR) | 1.09 | 0.738 | 1.612 |
|  | Network size | 1.00 | 0.988 | 1.006 |
|  |  |  |  |  |
| **Class 3: High equip** | |  |  |  |
|  | **South** | **2.27** | 1.438 | 3.584 |
|  | Midwest | 0.86 | 0.452 | 1.650 |
|  | West | 1.88 | 1.057 | 3.331 |
|  | Puerto Rico | 1.65 | 0.773 | 3.518 |
|  | vs. Northeast |  |  |  |
|  | Age < 30 | 1.07 | 0.583 | 1.976 |
|  | Age 30-39 | 1.24 | 0.751 | 2.051 |
|  | Age 40-49 | 1.21 | 0.847 | 1.729 |
|  | vs. Age 50 + |  |  |  |
|  | Hispanic | 0.74 | 0.538 | 1.010 |
|  | Black | 0.82 | 0.547 | 1.213 |
|  | Other race | 0.83 | 0.421 | 1.625 |
|  | vs. NH White |  |  |  |
|  | **Ever male-male sex** | **2.52** | **1.322** | **4.801** |
|  | **Female vs. Male** | **1.55** | **1.138** | **2.107** |
|  | Homosexual | 0.17 | 0.042 | 0.677 |
|  | **Bisexual** | **0.28** | **0.122** | **0.655** |
|  | Female x Homosexual | 3.28 | 0.538 | 19.964 |
|  | **Female x Bisexual** | **5.98** | **2.018** | **17.731** |
|  | vs. Male Heterosexual |  |  |  |
|  | Homeless, past 12 mo. | 0.74 | 0.549 | 1.007 |
|  | Homeless, current | 1.42 | 1.066 | 1.885 |
|  | Speedball | 1.14 | 0.882 | 1.463 |
|  | Methamphetamine | 0.90 | 0.526 | 1.534 |
|  | Inject Daily | 1.36 | 1.041 | 1.765 |
|  | HIV positive (SR) | 1.15 | 0.747 | 1.784 |
|  | **HCV positive (SR)** | **1.63** | **1.214** | **2.199** |
|  | **Network size** | **1.01** | **1.003** | **1.010** |
|  |  |  |  |  |
| **Clas 2: Low equip** | |  |  |  |
|  | South | 1.09 | 0.738 | 1.616 |
|  | Midwest | 1.08 | 0.667 | 1.736 |
|  | West | 1.41 | 0.907 | 2.199 |
|  | Puerto Rico | 1.16 | 0.427 | 3.130 |
|  | vs. Northeast |  |  |  |
|  | Age < 30 | 1.43 | 0.894 | 2.296 |
|  | Age 30-39 | 0.99 | 0.715 | 1.375 |
|  | Age 40-49 | 1.01 | 0.790 | 1.283 |
|  | vs. Age 50 + |  |  |  |
|  | Hispanic | 0.62 | 0.390 | 0.996 |
|  | Black | 0.78 | 0.588 | 1.025 |
|  | Other race | 0.70 | 0.469 | 1.038 |
|  | vs. NH White |  |  |  |
|  | Ever male-male sex | 1.51 | 0.964 | 2.373 |
|  | Female vs. Male | 0.90 | 0.694 | 1.175 |
|  | **Homosexual** | **0.25** | **0.098** | **0.630** |
|  | Bisexual | 1.13 | 0.629 | 2.020 |
|  | Female x Homosexual | 3.81 | 0.992 | 14.668 |
|  | Female x Bisexual | 1.36 | 0.634 | 2.905 |
|  | vs. Male Heterosexual |  |  |  |
|  | Homeless, past 12 mo. | 1.37 | 1.010 | 1.849 |
|  | Homeless, current | 1.03 | 0.795 | 1.323 |
|  | **Speedball** | **1.91** | **1.602** | **2.273** |
|  | Methamphetamine | 1.03 | 0.762 | 1.387 |
|  | Inject Daily | 1.36 | 1.028 | 1.790 |
|  | HIV positive (SR) | 0.73 | 0.488 | 1.079 |
|  | HCV positive (SR) | 1.25 | 1.018 | 1.536 |
|  | Network size | 1.01 | 1.000 | 1.010 |
|  |  |  |  |  |
| aInjection RiskClasses are **1: Low Risk**: very low probability of any risk behavior (reference category); **2: Low Equip**: low frequency non-syringe equipment sharing; **3: High Equip**: high frequency non-syringe equipment sharing; **4: Syringe**: syringe sharing with low probability of other equipment sharing; **5: Moderate risk**: low frequency syringe and other equipment sharing; **6: High risk**: syringe sharing with high frequency other equipment sharing. | | | | |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Table S2. Adjusteda effects of intervention exposure on likelihood of injection risk class membership (N = 10,051)** | | | | | |
|  |  |  |  |  |  |
|  |  | **Exp(B)** | **95% Conf. Int.** | | **Waldb** |
| **Indiv Talk** | High risk | 1.04 | 0.60 | 1.81 | 1.11 |
|  | Mod risk | 0.93 | 0.45 | 1.95 |  |
|  | Syr only | 0.68 | 0.19 | 2.51 |  |
|  | Equip high | 0.73 | 0.31 | 1.71 |  |
|  | Equip low | 1.01 | 0.45 | 2.29 |  |
| **Indiv Skills** | High risk | **0.49** | **0.34** | **0.71** | 17.15\*\* |
|  | Mod risk | 0.78 | 0.57 | 1.08 |  |
|  | Syr only | 0.66 | 0.34 | 1.31 |  |
|  | Equip high | 0.75 | 0.48 | 1.17 |  |
|  | Equip low | 0.89 | 0.65 | 1.24 |  |
| **Group Talk** | High risk | 1.13 | 0.46 | 2.76 | 10.85 |
|  | Mod risk | 1.02 | 0.48 | 2.18 |  |
|  | Syr only | 1.07 | 0.12 | 9.60 |  |
|  | Equip high | 1.96 | 0.88 | 4.39 |  |
|  | Equip low | 0.32 | 0.10 | 1.06 |  |
| **Group Skills** | High risk | 0.77 | 0.48 | 1.24 | 7.99 |
|  | Mod risk | 0.82 | 0.47 | 1.44 |  |
|  | Syr only | 0.46 | 0.20 | 1.09 |  |
|  | Equip high | **0.57** | **0.33** | **0.99** |  |
|  | Equip low | 0.89 | 0.59 | 1.33 |  |
|  |  |  |  |  |  |
| Note: Reference class is Low risk | | | | | |
| a adjusted for region, gender, MSM, sexual orientation, age group, race/ethnicity, homelessness, HIV status, HCV status, type of drug injected, daily injection, and network size | | | | | |
| b Wald test with 5 degrees of freedom | | | | | |
| \*\* p < 0.01 | | | | | |