Supplemental Table 1. Supplemental baseline characteristics of the intervention and control participants

|  |  |  |  |
| --- | --- | --- | --- |
| Characteristic | Control condition (N=226\*) | Intervention condition (N=216\*) | P |
| Years since HIV diagnosis, mean (SD)  Currently receiving ART, N (%)  Hazardous alcohol use (AUDIT≥8)  Ever used marijuana  Used marijuana in last 30 days  Ever used cocaine  Used cocaine in the last 30 days  Ever used heroin  Used heroin in the last 30 days  Ever used crystal methamphetamine  Used crystal methamphetamine in the last 30 days  Currently on methadone maintenance  Age at initiation of smoking, mean (SD)  Exhaled carbon monoxide (ppm)  Smokes menthol cigarettes  **Ever used an e-cigarette**  Tobacco knowledge  Past or present health conditions  Thrush  PCP  Other pneumonia  Depression  Anxiety/Panic disorder  Diabetes  Myocardial infarction  Stroke  Hypertension  High cholesterol  Asthma  COPD or emphysema  Hepatitis B  Hepatitis C  Cancer    PTSD score  Perceived discrimination score  Decisional balance score  Pro  Con  Self-efficacy score  Loneliness score  Depression score  Anxiety score  Perceived stress score  Boredom score  Distress tolerance score | 19.4 (8.2)  211 (95)  54 (24)  169 (76)  73 (33)  147 (66)  51 (23)  65 (29)  9 (4)  8 (3)  2 (1)  28 (24)  17.5 (7.0)  12.1 (8.3)  183 (81)  **34 (16)**  6.1 (1.3)  77 (35)  35 (16)  47 (22)  117 (54)  73 (34)  39 (18)  6 (3)  9 (4)  70 (32)  52 (24)  75 (34)  31 (14)  23 (11)  61 (28)  15 (7)  1.7 (1.6)  1.8 (0.6)  7.7 (2.9)  9.8 (3.1)  3.6 (0.7)  23.2 (7.6)  40.1 (11.9)  7.0 (5.8)  6.4 (2.8)  50.9 (11.0)  2.8 (0.9) | 18.4 (8.7)  181 (95)  37 (20)  143 (75)  68 (36)  131 (69)  36 (19)  50 (26)  6 (3)  14 (7)  4 (2)  17 (21)  17.2 (5.5)  11.9 (7.0)  164 (76)  **46 (24)**  6.1 (1.4)  64 (34)  27 (14)  51 (27)  117 (62)  63 (34)  24 (13)  6 (3)  7 (4)  68 (36)  47 (25)  65 (35)  17 (9)  19 (10)  38 (20)  15 (8)  1.9 (1.6)  1.9 (0.8)  7.7 (3.0)  9.5 (3.2)  3.5 (0.8)  23.3 (8.0)  39.9 (12.4)  6.4 (6.1)  6.3 (3.0)  50.3 (11.6)  2.9 (0.9) | 0.23  1.0  0.28  0.93  0.60  0.63  0.38  0.56  0.82  0.14  0.55  0.23  0.66  0.79  0.20  **0.04**  0.74  0.87  0.74  0.23  0.10  1.0  0.20  1.0  1.0  0.45  0.88  1.0  0.15  1.0  0.09  0.82  0.38  0.31  0.99  0.33  0.33  0.93  0.88  0.29  0.77  0.58  0.69 |

*Note*- SD=standard deviation, ART=antiretroviral therapy, AUDIT=Alcohol Use Disorders Identification Test, PCP-*Pneumocystis jirovecii* pneumonia, COPD=chronic obstructive pulmonary disease, PTSD=post-traumatic stress disorder.

\*Percentages are calculated using the number of completed responses as the denominator.

Supplemental Table 2. Association of baseline variables with biochemically verified 3-month and 6-month 7-day point prevalence abstinence.

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Baseline characteristic, N (%) | 3 months\* | | | 6 months\* | | |
| Abstinent | Non-abstinent | P | Abstinent | Non-abstinent | P |
| Age, Mean (SD)  Male gender  Latino  Race  Black/African American  White  Other  Married/living with partner  **Stably housed**  Employment status  Unemployed/disabled  Part-time employment  Full-time employment  Educational attainment  Less than high school  Some high school  High school graduate  Some college  College graduate  Graduated high school  Household finances  Comfortable with some extras  Enough but no extras  Have to cut back  Can’t make ends meet  HIV risk behavior  Heterosexual contact  Same sex contact  Injection drug use  Transfusion/other/unknown  Most recent CD4+ count (cells/ul), Mean (SD)  **Most recent HIV viral load<40 copies/ml**  **Daily cigarette consumption, Mean (SD)**  **Non-daily smoker**  **Uses other tobacco product in addition to cigarettes (dual user)**  **Nicotine dependence score**  **Motivation to quit**  Years since HIV diagnosis, Mean (SD)  Ever took antiretroviral medication  Hazardous alcohol use (AUDIT≥8)  Ever used marijuana  Used marijuana in last 30 days  Ever used cocaine  **Used cocaine in the last 30 days**  Ever used heroin  Used heroin in the last 30 days  Ever used crystal methamphetamine  Used crystal methamphetamine in the last 30 days  Currently on methadone maintenance  Age at initiation of smoking, Mean (SD)  **Exhaled carbon monoxide (ppm), Mean (SD)**  Smokes menthol cigarettes  Ever used an e-cigarette  Tobacco knowledge, Mean (SD)  Past or present health conditions  Thrush  PCP  Other pneumonia  Depression  Anxiety/Panic disorder  Diabetes  Myocardial infarction  Stroke  Hypertension  High cholesterol  Asthma  COPD or emphysema  Hepatitis B  Hepatitis C  Cancer  PTSD score, Mean (SD)  Perceived discrimination score, Mean (SD)  Decisional balance score  Pro  Con  Self-efficacy score, Mean (SD)  Loneliness score, Mean (SD)  Depression score, Mean (SD)  Anxiety score, Mean (SD)  Perceived stress score, Mean (SD)  Boredom score, Mean (SD)  **Distress tolerance score, Mean (SD)** | 51.5 (8.8)  20 (49)  5 (12)  33 (12)  4 (10)  5 (5)  9 (21)  **41 (98)**  36 (10)  2 (7)  3 (15)  2 (11)  9 (8)  14 (12)  12 (10)  5 (12)  31 (74)  9 (11)  16 (11)  8 (10)  9 (8)  26 (12)  10 (10)  3 (8)  3 (7)  572 (335)  **34 (83)**  **7.6 (7.3)**  **14 (21)**  6 (14)  **3.7 (2.3)**  **7.9 (1.1)**  18.7 (10.1)  41 (98)  9 (21)  33 (79)  19 (45)  27 (64)  7 (17)  11 (26)  2 (5)  5 (12)  2 (5)  4 (10)  18.1 (6.8)  **6.9 (5.7)**  35 (83)  7 (17)  6.2 (1.2)  13 (32)  5 (12)  10 (24)  23 (56)  16 (39)  8 (20)  0 (0)  1 (2)  17 (41)  14 (34)  15 (37)  5 (12)  5 (12)  7 (17)  4 (10)  1.7 (1.7)  1.9 (0.9)  7.9 (2.8)  10.3 (3.3)  3.5 (0.6)  23.1 (7.6)  38.8 (12.0)  5.8 (5.6)  5.7 (3.1)  48.1 (10.4)  2.7 (0.7) | 50.5 (9.1)  198 (55)  75 (20)  NA  NA  NA  67 (18)  **291 (78)**  NA  NA  NA  NA  NA  NA  NA  NA  245 (66)  NA  NA  NA  NA  NA  NA  NA  NA  623 (385)  **250 (65)**  **10.8 (8.0)**  **24 (7)**  57 (15)  **4.9 (2.2)**  **7.3 (1.5)**  18.9 (8.2)  351 (95)  82 (22)  279 (75)  122 (33)  251 (68)  80 (22)  104 (28)  13 (4)  17 (5)  4 (1)  42 (11)  17.2 (6.3)  **12.6 (8.2)**  312 (84)  73 (20)  6.1 (1.4)  128 (35)  57 (16)  88 (24)  211 (58)  120 33)  55 (15)  12 (3)  15 (4)  121 (33)  85 (23)  125 (34)  43 (12)  37 (10)  92 (25)  26 (7)  1.8 (1.6)  1.8 (0.7)  7.7 (3.0)  9.6 (3.1)  3.6 (0.7)  23.3 (7.8)  40.2 (12.1)  6.9 (6.0)  6.4 (2.8)  50.9 (11.4)  2.9 (0.9) | 0.41  0.39  0.38  0.08  0.62  **<0.001**  0.63  0.86  0.31  0.75  0.84  0.43  **0.02**  **0.01**  **0.002**  0.83  **0.003**  **0.008**  0.60  0.43  0.98  0.63  0.15  0.58  0.52  0.84  0.65  0.11  0.15  0.80  0.33  **<0.001**  0.82  0.43  0.54  0.68  0.92  0.96  0.65  0.46  0.37  0.34  0.60  0.32  0.14  0.79  0.80  0.69  0.31  0.58  0.47  0.52  0.73  0.19  0.44  0.90  0.47  0.30  0.11  0.14  0.18 | 49.3 (11.4)  27 (47)  9 (16)  44 (16)  6 (14)  8 (8)  9 (16)  50 (86)  49 (14)  4 (13)  3 (16)  2 (11)  10 (9)  19 (16)  19 (17)  8 (20)  **46 (79)**  9 (11)  27 (19)  10 (13)  12 (11)  30 (13)  15 (15)  6 (15)  6 (15)  680 (349)  42 (78)  **7.8 (6.9)**  **18 (33)**  **4 (7)**  **3.7 (2.1)**  7.5 (1.4)  18.1 (10.3)  56 (97)  11 (19)  45 (79)  23 (41)  34 (60)  **6 (11)**  13 (23)  0 (0)  3 (5)  1 (2)  4 (7)  18.5 (7.9)  **8.2 (6.6)**  45 (78)  8 (14)  5.9 (1.4)  19 (33)  8 (14)  13 (23)  34 (60)  24 (42)  11 (19)  1 (2)  2 (4)  20 (35)  12 (21)  22 (39)  7 (12)  5 (9)  11 (19)  3 (5)  2.0 (1.6)  1.9 (0.9)  7.3 (2.6)  9.4 (3.2)  3.4 (0.7)  22.9 (8.0)  39.7 (12.6)  6.9 (6.1)  6.4 (2.9)  49.7 (11.3)  **2.6 (0.7)** | 50.7 (8.7)  190 (55)  71 (20)  NA  NA  NA  67 (19)  280 (79)  NA  NA  NA  NA  NA  NA  NA  NA  **228 (65)**  NA  NA  NA  NA  NA  NA  NA  NA  608 (385)  240 (65)  **11.0 (8.0)**  **48 (14)**  **59 (17)**  **4.9 (2.3)**  7.3 (1.5)  19.1 (8.0)  335 (95)  80 (23)  266 (75)  118 (34)  243 (69)  **80 (23)**  102 (29)  15 (4)  19 (5)  5 (1)  42 (12)  17.1 (6.0)  **12.6 (8.2)**  300 (85)  71 (20)  6.1 (1.4)  121 (35)  54 (16)  84 (24)  198 (57)  111 (32)  51 (15)  11 (3)  14 (4)  116 (33)  86 (25)  117 (34)  40 (12)  37 (11)  88 (25)  27 (8)  1.8 (1.6)  1.8 (0.7)  7.8 (3.0)  9.7 (3.1)  3.6 (0.7)  23.2 (7.7)  40.0 (12.1)  6.7 (5.9)  6.4 (2.9)  50.7 (11.3)  **2.9 (0.9)** | 0.28  0.25  0.28  0.13  0.50  0.20  0.98  0.26  **0.03**  0.20  0.98  0.19  0.06  **0.002**  **<0.001**  **0.04**  **<0.001**  0.29  0.40  0.64  0.51  0.53  0.24  0.19  **0.03**  0.34  0.13  0.97  0.84  0.26  0.14  **<0.001**  0.17  0.24  0.31  0.83  0.77  0.80  0.72  0.14  0.38  0.54  0.85  0.80  0.54  0.45  0.85  0.66  0.32  0.48  0.39  0.26  0.23  0.50  0.13  0.78  0.91  0.71  0.94  0.54  **0.004** |

Note- SD=standard deviation, AUDIT=Alcohol Use Disorders Identification Test, ppm=parts per million, PCP-*Pneumocystis jirovecii* pneumonia, COPD=chronic obstructive pulmonary disease, PTSD=post-traumatic stress disorder.

\*For binary variables the denominator represents the number of participants who with the specified abstinence endpoint, and the numerator is the number of participants in either the abstinent or non-abstinent group having that characteristic. For categorical variables, the denominator represents the number of abstinent participants, and the numerator represents the number of abstinent participants with the specified characteristic.