**Supplemental Table S1**

*Demographic and Substance Use Characteristics of Samples Admitted Pre and Post Legalization*

|  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | Full Sample | | | |  | Used cannabis | | | | |  |
|  | Pre (*N* =1119) | | Post (*N* = 1779) | |  | Pre (*N* = 521) | | Post (*N* = 863) | |  | |
| Characteristic | *n* | % | *n* | % | *p* | *n* | % | *n* | % | *p* | |
| Sex |  |  |  |  |  |  |  |  |  |  | |
| Male | 804 | 71.8 | 1283 | 72.1 | .909 | 404 | 77.5 | 649 | 75.2 | .356 | |
| Age |  |  |  |  |  |  |  |  |  |  | |
| < 30 years | 191 | 17.1 | 285 | 16.0 | **.**043 | 146 | 28.0 | 204 | 23.6 | .126 | |
| 30 to 39 years | 304 | 27.2 | 551 | 31.0 |  | 181 | 34.7 | 315 | 36.5 |  | |
| 40 to 49 years | 291 | 26.0 | 493 | 27.7 |  | 111 | 21.3 | 220 | 25.5 |  | |
| 50 to 59 years | 252 | 22.5 | 334 | 18.8 |  | 70 | 13.4 | 96 | 11.1 |  | |
| ≥ 60 years | 81 | 7.2 | 116 | 6.5 |  | 13 | 2.5 | 28 | 3.2 |  | |
| Education |  |  |  |  |  |  |  |  |  |  | |
| Completed college/ university | 520 | 46.5 | 635 | 35.7 | < .001 | 200 | 38.4 | 262 | 30.4 | .003 | |
| Employment |  |  |  |  |  |  |  |  |  |  | |
| Employed | 849 | 75.9 | 1303 | 73.2 | .126 | 386 | 74.1 | 625 | 72.4 | .539 | |
| Marital Status |  |  |  |  |  |  |  |  |  |  | |
| Married or partnered | 479 | 42.8 | 757 | 42.6 | .923 | 170 | 32.6 | 316 | 36.6 | .148 | |
| Most frequently used substance(s) at admissiona |  |  |  |  |  |  |  |  |  |  | |
| Alcohol | 761 | 68.0 | 1140 | 64.1 | .034 | 284 | 54.5 | 476 | 55.2 | .859 | |
| Cannabis | 215 | 19.2 | 421 | 23.7 | .006 | 215 | 41.3 | 411 | 47.6 | .025 | |
| Stimulants | 219 | 19.6 | 379 | 21.3 | .282 | 131 | 25.1 | 202 | 23.4 | .504 | |
| Opioids | 132 | 11.8 | 225 | 12.6 | .535 | 72 | 13.8 | 117 | 13.6 | .955 | |
| Sedatives | 70 | 6.3 | 89 | 5.0 | .174 | 35 | 6.7 | 42 | 4.9 | .182 | |
| Other | 30 | 2.7 | 36 | 2.0 | .304 | 10 | 1.9 | 18 | 2.1 | .987 | |
| Screened positive for SUDb |  |  |  |  |  |  |  |  |  |  | |
| AUD | 888 | 79.4 | 1292 | 72.6 | < .001 | 392 | 75.2 | 612 | 70.9 | .092 | |
| CUD | 283 | 25.3 | 435 | 24.5 | .642 | 283 | 54.3 | 425 | 49.2 | .076 | |
| Other DUD (not incl.CUD) | 585 | 52.3 | 853 | 47.9 | .026 | 367 | 70.4 | 498 | 57.7 | < .001 | |
| Screened positive for SUDb |  |  |  |  |  |  |  |  |  |  | |
| AUD only | 445 | 39.8 | 687 | 38.6 | .563 | 83 | 15.9 | 188 | 21.8 | .010 | |
| DUD only (incl. CUD) | 205 | 18.3 | 406 | 22.8 | .004 | 121 | 23.2 | 224 | 26.0 | .283 | |
| Both AUD + DUD (incl. CUD) | 443 | 39.6 | 597 | 33.6 | .001 | 309 | 59.3 | 423 | 49.0 | < .001 | |

*Note.* SUD = substance use disorder; AUD = alcohol use disorder; CUD = cannabis use disorder; DUD = drug use disorder.

a Most frequently used substance was identified as the substance(s) with the highest response score(s) on a hybridized version of the NIDA Quick Screen question (NIDA, 2012) and Adapted NIDA-Modified ASSIST (APA, 2013). Groups are not necessarily mutually exclusive.

b Positive screen defined as endorsing two or more criteria on the DSM-V SUD Checklist (APA, 2013). Groups are not necessarily mutually exclusive.

**Supplemental Table S2**

# *Segmented Regression Results (using level change impact model) Examining Association Between Outcomes and Change in Reference Period*

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
|  | DW | *p* | *B* | *SE* | *t* | *p* |
| **Cannabis use** |  |  |  |  |  |  |
| Frequency of cannabis use | 2.15 | .995 |  |  |  |  |
| Intercept |  |  | 1.12 | 0.08 | 15.26 | < .001 |
| Time period |  |  | 0.02 | 0.01 | 3.55 | .002 |
| Reference change |  |  | -0.04 | 0.13 | -0.28 | .781 |
| Endorsed CUD criteria | 2.12 | .939 |  |  |  |  |
| Intercept |  |  | 3.21 | 0.26 | 12.32 | < .001 |
| Time period |  |  | 0.03 | 0.02 | 1.61 | .122 |
| Reference change |  |  | -0.84 | 0.42 | -1.99 | .058 |

*Note.* DW = Durbin-Watson test; CUD = cannabis use disorder