[Table 1](#tbl-demohtml) provides a detailed breakdown of the demographic and clinical characteristics of our sample (N = 151).

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| Table 1: Demographic and Clinical Characteristics   |  | N | % | M | SD | Range | | | --- | --- | --- | --- | --- | --- | --- | | Age |  |  | 41 | 11.9 | 21-72 | | | Sex Assigned at Birth |  |  |  |  |  | | | Female | 74 | 49.0 |  |  |  | | | Male | 77 | 51.0 |  |  |  | | | Race |  |  |  |  |  | | | American Indian/Alaska Native | 3 | 2.0 |  |  |  | | | Asian | 2 | 1.3 |  |  |  | | | Black/African American | 8 | 5.3 |  |  |  | | | White/Caucasian | 131 | 86.8 |  |  |  | | | Other/Multiracial | 7 | 4.6 |  |  |  | | | Hispanic, Latino, or Spanish origin |  |  |  |  |  | | | Yes | 4 | 2.6 |  |  |  | | | No | 147 | 97.4 |  |  |  | | | Education |  |  |  |  |  | | | Less than high school or GED degree | 1 | 0.7 |  |  |  | | | High school or GED | 14 | 9.3 |  |  |  | | | Some college | 41 | 27.2 |  |  |  | | | 2-Year degree | 14 | 9.3 |  |  |  | | | College degree | 58 | 38.4 |  |  |  | | | Advanced degree | 23 | 15.2 |  |  |  | | | Employment |  |  |  |  |  | | | Employed full-time | 72 | 47.7 |  |  |  | | | Employed part-time | 26 | 17.2 |  |  |  | | | Unemployed | 53 | 35.1 |  |  |  | | | Personal Income |  |  | $34,298 | $31,807 | $0-200,000 | | | Marital Status |  |  |  |  |  | | | Never married | 67 | 44.4 |  |  |  | | | Married | 32 | 21.2 |  |  |  | | | Divorced, separated or widowed | 52 | 34.4 |  |  |  | | | DSM-5 Alcohol Use Disorder Symptom Count |  |  | 8.9 | 1.9 | 4-11 | | | Alcohol Use Disorder Milestones | | | | | | | Age of first drink |  |  | 14.6 | 2.9 | 6-24 | | | Age of regular drinking |  |  | 19.5 | 6.6 | 11-56 | | | Age at which drinking became  problematic |  |  | 27.8 | 9.6 | 15-60 | | | Age of first quit attempt |  |  | 31.5 | 10.4 | 15-65 | | | Number of Quit Attempts\* |  |  | 5.5 | 5.8 | 0-30 | | | Lifetime History of Treatment (Can choose more than 1) | | | | | | | Long-term residential (6+ months) | 8 | 5.3 |  |  |  | | | Short-term residential (< 6 months) | 49 | 32.5 |  |  |  | | | Outpatient | 74 | 49.0 |  |  |  | | | Individual counseling | 97 | 64.2 |  |  |  | | | Group counseling | 62 | 41.1 |  |  |  | | | Alcoholics Anonymous/Narcotics  Anonymous | 93 | 61.6 |  |  |  | | | Other | 40 | 26.5 |  |  |  | | | Received Medication for Alcohol Use Disorder | | | | | | | Yes | 59 | 39.1 |  |  |  | | | No | 92 | 60.9 |  |  |  | | | Current (Past 3 Month) Drug Use | | | | | | | Tobacco products (cigarettes,  chewing tobacco, cigars, etc.) | 84 | 55.6 |  |  |  | | | Cannabis (marijuana, pot, grass,  hash, etc.) | 66 | 43.7 |  |  |  | | | Cocaine (coke, crack, etc.) | 18 | 11.9 |  |  |  | | | Amphetamine type stimulants  (speed, diet pills, ecstasy, etc.) | 15 | 9.9 |  |  |  | | | Inhalants (nitrous, glue, petrol, paint  thinner, etc.) | 3 | 2.0 |  |  |  | | | Sedatives or sleeping pills (Valium,  Serepax, Rohypnol, etc.) | 22 | 14.6 |  |  |  | | | Hallucinogens (LSD, acid,  mushrooms, PCP, Special K, etc.) | 14 | 9.3 |  |  |  | | | Opioids (heroin, morphine,  methadone, codeine, etc.) | 16 | 10.6 |  |  |  | | | Reported 1+ Lapse During Study Period |  |  |  |  |  | | | Yes | 84 | 55.6 |  |  |  | | | No | 67 | 44.4 |  |  |  | | | Number of reported lapses |  |  | 6.8 | 12 | 0-75 | | | Note: |  |  |  |  |  | | | N = 151 | | | | | | | \*Two participants reported 100 or more quit attempts. We removed these outliers prior to calculating the mean (M), standard deviation (SD), and range. | | | | | | |

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| Table 2: Median difference in auROC, 95% Bayesian credible interval (CI), and posterior probability that that the auROC difference was smaller than 0 for all baseline and adjacent lag contrasts.   | Contrast | Median | Bayesian CI | Probability | | --- | --- | --- | --- | | Baseline Contrasts |  |  |  | | 1-day vs. No lag | -0.021 | [-0.025, -0.017] | 1 | | 3-day vs. No lag | -0.03 | [-0.035, -0.025] | 1 | | 1-week vs. No lag | -0.042 | [-0.048, -0.037] | 1 | | 2-week vs. No lag | -0.062 | [-0.07, -0.056] | 1 | | Adjacent Contrasts |  |  |  | | 3-day vs. 1-day | -0.009 | [-0.013, -0.005] | 1 | | 1-week vs. 3-day | -0.012 | [-0.017, -0.008] | 1 | | 2-week vs. 1-week | -0.02 | [-0.026, -0.015] | 1 | | Median auROC differences less than 0 indicate the more lagged model, on average, performed worse than the more immediate model (e.g., 1-day lag - no lag, 3-day lag - 1-day lag). Bayesian CI represents the range of values where there is a 95% probability that the true auROC difference lies within that range. Probability indicates the posterior probability that this difference is smaller than 0 (i.e., the models are performing differently). | | | | |

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| Table 3: Median difference in auROC, 95% Bayesian credible interval (CI), and posterior probability that that the auROC difference was smaller than 0 for fairness contrasts for the no lag and 2-week lagged models.   | Contrast | Median | Bayesian CI | Probability | | --- | --- | --- | --- | | Fairness Contrasts (No Lag) |  |  |  | | female vs. male | -0.043 | [-0.059, -0.028] | 1 | | non-White and/or Hispanic vs. non-  Hispanic White | -0.131 | [-0.222, -0.057] | 0.999 | | below poverty line vs. above  poverty line | -0.012 | [-0.033, 0.007] | 0.848 | | Fairness Contrasts (2-week Lag) |  |  |  | | female vs. male | -0.098 | [-0.125, -0.073] | 1 | | non-White and/or Hispanic vs. non-  Hispanic White | -0.13 | [-0.208, -0.058] | 0.998 | | below poverty line vs. above  poverty line | -0.039 | [-0.073, -0.008] | 0.98 | | Median auROC differences less than 0 indicate the model, on average, performed worse for the disadvantaged group (female, non-White and/or Hispanic, income below poverty line) compared to the advantaged group (male, non-Hispanic White, income above poverty line). Bayesian CI represents the range of values where there is a 95% probability that the true auROC difference lies within that range. Probability indicates the posterior probability that this difference is smaller than 0 (i.e., the models are performing differently for fairness subgroups). | | | | |