

## **ANALYSIS PLAN**

**Official Title:** Daily Personalized Drinking Feedback Delivered Via Mobile Phone

**Brief Title:** Alcohol Feedback, Reflection and Morning Evaluation

**NCT number:** NCT05509218

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**Sample.** A total of 152 participants were enrolled, but 3 were withdrawn given determination of ineligibility. Analyses are conducted on the 149 participants who were eligible to participate. Participants in the two A-FRAME groups will be collapsed to compare receipt of intervention (regardless of incentives) to control.

**Primary outcome analyses.** The significance of between-group differences (both A-FRAME groups collapsed vs control) at the follow-ups will be obtained via ANCOVA models for continuous outcomes, adjusted for pre-test scores.

In future manuscripts, we will report both between-group effect sizes and within-group effect sizes. Additionally, we will conduct generalized hierarchical linear models to test group differences in our primary (drinks per week, frequency of heavy drinking, negative consequences; all specified as Gaussian outcomes based on their observed distributions) outcomes at 1-month and 4-months post-baseline. To represent change from baseline to 1-month and 4-months post-baseline, two time components (Time1M coded 0, 1, 0; Time4M coded 0, 0, 1, respectively) will be added at Level 1. Condition (0 = control, 1 = A-FRAME) will be added at Level 2 as a predictor of the intercept (i.e., covarying effect of group on the outcome at baseline) and both time effects (i.e., effect of group on the outcome at 1M and 4M). The effect of condition will be centered to facilitate interpretation (i.e., observation of change collapsing across groups plus any difference between groups in extent of change). Baseline social desirability will be controlled (Level 2, grand-mean centered). All intercept effects will be specified as random. Random slopes of time components will be tested and retained if significant. In reporting model results, we will rely on robust standard errors.