# Results

August 31, 2021

## 1 Summary Statistics

```
print(dat_summary_N)
```

```
## # A tibble: 1 x 5
##   N_not_flagged_by_01 N_not_flagged_by_02 N_not_flagged_by_03 N_not_flagged_by_~
##                 <dbl>               <dbl>               <dbl>              <dbl>
## 1                 479                 444                 428                415
## # ... with 1 more variable: N_never_flag <dbl>
```

```
print(dat_summary_p)
```

```
## # A tibble: 1 x 5
##   p_not_flagged_by_01 p_not_flagged_by_02 p_not_flagged_by_03 p_not_flagged_by_~
##                 <dbl>               <dbl>               <dbl>              <dbl>
## 1               0.845               0.783               0.755              0.732
## # ... with 1 more variable: p_never_flagged <dbl>
```

```
print(table01)
```

```
## # A tibble: 2 x 4
##   is_not_flagged_by_01 prop_male prop_white average_PBSSOverall
##                  <dbl>     <dbl>      <dbl>               <dbl>
## 1                    0     0.386      0.943                63.0
## 2                    1     0.376      0.829                65.5
```

```
print(table02)
```

```
## # A tibble: 2 x 4
##   is_not_flagged_by_02 prop_male prop_white average_PBSSOverall
##                  <dbl>     <dbl>      <dbl>               <dbl>
## 1                    0     0.374      0.935                64.2
## 2                    1     0.378      0.822                65.4
```

```
print(table03)
```

```
## # A tibble: 2 x 4
##   is_not_flagged_by_03 prop_male prop_white average_PBSSOverall
##                  <dbl>     <dbl>      <dbl>               <dbl>
## 1                    0     0.374      0.942                64.1
## 2                    1     0.379      0.815                65.4
```

```
print(table04)
```

```
## # A tibble: 2 x 4
##   is_not_flagged_by_04 prop_male prop_white average_PBSSOverall
##                  <dbl>     <dbl>      <dbl>               <dbl>
## 1                    0     0.382      0.928                63.7
## 2                    1     0.376      0.817                65.6
```

# 2 Outcome: Y=1 if NOT classified as non-responder by 1st decision point; Y=0 otherwise

```
summary(mod_not_flagged_by_01a)
```

```
##
## Call:
## glm(formula = is_not_flagged_by_01 ~ is_white + is_male + sPBSSOverall +
##     stot_days_with_any_drinks, family = "binomial", data = dat_new)
##
## Deviance Residuals:
##     Min       1Q   Median       3Q      Max
## -2.3629   0.3417   0.4230   0.5591   1.4295
##
## Coefficients:
##                            Estimate Std. Error z value Pr(>|z|)
## (Intercept)                 2.6482     0.4813   5.502 3.76e-08 ***
## is_white                   -0.8215     0.5001  -1.643   0.1004
## is_male                    -0.1100     0.2622  -0.420   0.6748
## sPBSSOverall                0.2607     0.1438   1.812   0.0699 .
## stot_days_with_any_drinks  -0.7813     0.1168  -6.690 2.24e-11 ***
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
## (Dispersion parameter for binomial family taken to be 1)
##
##     Null deviance: 473.64  on 530  degrees of freedom
## Residual deviance: 416.01  on 526  degrees of freedom
##   (36 observations deleted due to missingness)
## AIC: 426.01
##
## Number of Fisher Scoring iterations: 5
```

```
summary(mod_not_flagged_by_01b)
```

```
##
## Call:
## glm(formula = is_not_flagged_by_01 ~ is_white + is_male + sPBSSOverall +
##     stypical_num_drinks_per_day, family = "binomial", data = dat_new)
##
## Deviance Residuals:
```

```
##    Min      1Q  Median      3Q     Max
## -2.630   0.218   0.302   0.573   2.316
##
## Coefficients:
##                              Estimate Std. Error z value Pr(>|z|)
## (Intercept)                    2.7559     0.5233   5.266 1.39e-07 ***
## is_white                      -0.8237     0.5402  -1.525   0.1273
## is_male                        0.3729     0.2879   1.295   0.1952
## sPBSSOverall                   0.3262     0.1714   1.904   0.0569 .
## stypical_num_drinks_per_day   -1.2240     0.1451  -8.433  < 2e-16 ***
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
## (Dispersion parameter for binomial family taken to be 1)
##
##     Null deviance: 473.64  on 530  degrees of freedom
## Residual deviance: 368.57  on 526  degrees of freedom
##   (36 observations deleted due to missingness)
## AIC: 378.57
##
## Number of Fisher Scoring iterations: 5
```

# 3 Outcome: Y=1 if NOT classified as non-responder by 2nd decision point; Y=0 otherwise

```
summary(mod_not_flagged_by_02a)
```

```
##
## Call:
## glm(formula = is_not_flagged_by_02 ~ is_white + is_male + sPBSSOverall +
##     stot_days_with_any_drinks, family = "binomial", data = dat_new)
##
## Deviance Residuals:
##     Min       1Q   Median       3Q      Max
## -2.2431   0.3388   0.5038   0.6841   1.5717
##
## Coefficients:
##                            Estimate Std. Error z value Pr(>|z|)
## (Intercept)                 2.0577     0.3897   5.281 1.29e-07 ***
## is_white                   -0.7526     0.4083  -1.844   0.0652 .
## is_male                    -0.0425     0.2323  -0.183   0.8548
## sPBSSOverall                0.1828     0.1241   1.473   0.1407
## stot_days_with_any_drinks  -0.7446     0.1072  -6.942 3.86e-12 ***
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
## (Dispersion parameter for binomial family taken to be 1)
##
##     Null deviance: 572.40  on 530  degrees of freedom
## Residual deviance: 509.08  on 526  degrees of freedom
```

```
##   (36 observations deleted due to missingness)
## AIC: 519.08
##
## Number of Fisher Scoring iterations: 4
```

```
summary(mod_not_flagged_by_02b)
```

```
##
## Call:
## glm(formula = is_not_flagged_by_02 ~ is_white + is_male + sPBSSOverall +
##     stypical_num_drinks_per_day, family = "binomial", data = dat_new)
##
## Deviance Residuals:
##     Min       1Q   Median       3Q      Max
## -2.5047   0.2767   0.4011   0.6856   2.3801
##
## Coefficients:
##                              Estimate Std. Error z value Pr(>|z|)
## (Intercept)                    2.0654     0.4168   4.955 7.22e-07 ***
## is_white                      -0.7175     0.4363  -1.644    0.100
## is_male                        0.3209     0.2516   1.276    0.202
## sPBSSOverall                   0.2275     0.1419   1.604    0.109
## stypical_num_drinks_per_day   -1.1069     0.1250  -8.855  < 2e-16 ***
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
## (Dispersion parameter for binomial family taken to be 1)
##
##     Null deviance: 572.40  on 530  degrees of freedom
## Residual deviance: 461.76  on 526  degrees of freedom
##   (36 observations deleted due to missingness)
## AIC: 471.76
##
## Number of Fisher Scoring iterations: 5
```

# 4 Outcome: Y=1 if NOT classified as non-responder by 3rd decision point; Y=0 otherwise

```
summary(mod_not_flagged_by_03a)
```

```
##
## Call:
## glm(formula = is_not_flagged_by_03 ~ is_white + is_male + sPBSSOverall +
##     stot_days_with_any_drinks, family = "binomial", data = dat_new)
##
## Deviance Residuals:
##     Min       1Q   Median       3Q      Max
## -2.2542  -0.7434   0.5167   0.7195   1.7259
##
## Coefficients:
```

```
##                            Estimate Std. Error z value Pr(>|z|)
## (Intercept)                 2.06614    0.39110   5.283 1.27e-07 ***
## is_white                   -0.92317    0.40790  -2.263   0.0236 *
## is_male                    -0.05637    0.22686  -0.248   0.8038
## sPBSSOverall                0.20805    0.12032   1.729   0.0838 .
## stot_days_with_any_drinks -0.81781    0.10819  -7.559 4.05e-14 ***
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
## (Dispersion parameter for binomial family taken to be 1)
##
##     Null deviance: 606.36  on 530  degrees of freedom
## Residual deviance: 526.46  on 526  degrees of freedom
##   (36 observations deleted due to missingness)
## AIC: 536.46
##
## Number of Fisher Scoring iterations: 4
```

```
summary(mod_not_flagged_by_03b)
```

```
##
## Call:
## glm(formula = is_not_flagged_by_03 ~ is_white + is_male + sPBSSOverall +
##     stypical_num_drinks_per_day, family = "binomial", data = dat_new)
##
## Deviance Residuals:
##     Min       1Q   Median       3Q      Max
## -2.5178  -0.6045   0.4063   0.6150   2.5605
##
## Coefficients:
##                              Estimate Std. Error z value Pr(>|z|)
## (Intercept)                    2.0956     0.4217   4.969 6.73e-07 ***
## is_white                      -0.9265     0.4391  -2.110   0.0349 *
## is_male                        0.3074     0.2465   1.247   0.2123
## sPBSSOverall                   0.2638     0.1371   1.925   0.0543 .
## stypical_num_drinks_per_day   -1.1753     0.1253  -9.379  < 2e-16 ***
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
## (Dispersion parameter for binomial family taken to be 1)
##
##     Null deviance: 606.36  on 530  degrees of freedom
## Residual deviance: 475.92  on 526  degrees of freedom
##   (36 observations deleted due to missingness)
## AIC: 485.92
##
## Number of Fisher Scoring iterations: 5
```

# 5 Outcome: Y=1 if NOT classified as non-responder by 4th decision point; Y=0 otherwise

```
summary(mod_not_flagged_by_04a)
```

```
##
## Call:
## glm(formula = is_not_flagged_by_04 ~ is_white + is_male + sPBSSOverall +
##     stot_days_with_any_drinks, family = "binomial", data = dat_new)
##
## Deviance Residuals:
##     Min       1Q   Median       3Q      Max
## -2.1426  -0.9091   0.5259   0.7428   1.8281
##
## Coefficients:
##                            Estimate Std. Error z value Pr(>|z|)
## (Intercept)                 1.8167     0.3591   5.059 4.21e-07 ***
## is_white                   -0.7762     0.3762  -2.063   0.0391 *
## is_male                    -0.0800     0.2223  -0.360   0.7190
## sPBSSOverall                0.2344     0.1162   2.016   0.0438 *
## stot_days_with_any_drinks  -0.8586     0.1088  -7.892 2.98e-15 ***
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
## (Dispersion parameter for binomial family taken to be 1)
##
##     Null deviance: 630.32  on 530  degrees of freedom
## Residual deviance: 543.84  on 526  degrees of freedom
##   (36 observations deleted due to missingness)
## AIC: 553.84
##
## Number of Fisher Scoring iterations: 4
```

```
summary(mod_not_flagged_by_04b)
```

```
##
## Call:
## glm(formula = is_not_flagged_by_04 ~ is_white + is_male + sPBSSOverall +
##     stypical_num_drinks_per_day, family = "binomial", data = dat_new)
##
## Deviance Residuals:
##     Min       1Q   Median       3Q      Max
## -2.3910  -0.7284   0.4171   0.6542   2.6775
##
## Coefficients:
##                              Estimate Std. Error z value Pr(>|z|)
## (Intercept)                   1.8150     0.3878   4.680 2.87e-06 ***
## is_white                     -0.7546     0.4061  -1.858   0.0632 .
## is_male                       0.2690     0.2417   1.113   0.2659
## sPBSSOverall                  0.3020     0.1317   2.294   0.0218 *
## stypical_num_drinks_per_day  -1.2170     0.1255  -9.700  < 2e-16 ***
```

```
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
## (Dispersion parameter for binomial family taken to be 1)
##
##     Null deviance: 630.32  on 530  degrees of freedom
## Residual deviance: 490.31  on 526  degrees of freedom
##   (36 observations deleted due to missingness)
## AIC: 500.31
##
## Number of Fisher Scoring iterations: 5
```