

Results

September 17, 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_04 N_never_flag
##           <dbl>           <dbl>           <dbl>           <dbl>           <dbl>
## 1             479             444             428             415             415
```

```
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_04 p_never_flagged
##           <dbl>           <dbl>           <dbl>           <dbl>           <dbl>
## 1             0.845             0.783             0.755             0.732             0.732
```

```
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
```