Results

August 30, 2021

1 Summary Statistics

```
print(dat_summary_N)
```

```
## # A tibble: 1 x 5
##   N_flagged_by_01 N_flagged_by_02 N_flagged_by_03 N_flagged_by_04 N_never_flag
##             <dbl>           <dbl>           <dbl>           <dbl>        <dbl>
## 1              88             123             139             152          415
```

```
print(dat_summary_p)
```

```
## # A tibble: 1 x 5
##   p_flagged_by_01 p_flagged_by_02 p_flagged_by_03 p_flagged_by_04 p_never_flag
##             <dbl>           <dbl>           <dbl>           <dbl>        <dbl>
## 1           0.155           0.217           0.245           0.268        0.732
```

```
print(table01)
```

```
## # A tibble: 2 x 4
##   is_flagged_by_01 prop_male prop_white average_PBSSOverall
##              <dbl>     <dbl>      <dbl>               <dbl>
## 1                0     0.376      0.829                65.5
## 2                1     0.386      0.943                63.0
```

```
print(table02)
```

```
## # A tibble: 2 x 4
##   is_flagged_by_02 prop_male prop_white average_PBSSOverall
##              <dbl>     <dbl>      <dbl>               <dbl>
## 1                0     0.378      0.822                65.4
## 2                1     0.374      0.935                64.2
```

```
print(table03)
```

```
## # A tibble: 2 x 4
##   is_flagged_by_03 prop_male prop_white average_PBSSOverall
##              <dbl>     <dbl>      <dbl>               <dbl>
## 1                0     0.379      0.815                65.4
## 2                1     0.374      0.942                64.1
```

```
print(table04)
```

```
## # A tibble: 2 x 4
##   is_flagged_by_04 prop_male prop_white average_PBSSOverall
##              <dbl>     <dbl>      <dbl>               <dbl>
## 1                0     0.376      0.817                65.6
## 2                1     0.382      0.928                63.7
```

2 Outcome: Y=1 if classified as non-responder by 1st decision point; Y=0 otherwise

```
summary(mod_flagged_by_01a)
```

```
##
## Call:
## glm(formula = is_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
## -1.4295  -0.5591  -0.4230  -0.3417   2.3629
##
## 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_flagged_by_01b)
```

```
##
## Call:
## glm(formula = is_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
## -2.316  -0.573  -0.302  -0.218   2.630
##
## 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 classified as non-responder by 2nd decision point (i.e., classified as non-responder at either 1st or 2nd decision point); Y=0 otherwise

```
summary(mod_flagged_by_02a)
```

```
##
## Call:
## glm(formula = is_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
## -1.5717  -0.6841  -0.5038  -0.3388   2.2431
##
## 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_flagged_by_02b)
```

```
##
## Call:
## glm(formula = is_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
## -2.3801  -0.6856  -0.4011  -0.2767   2.5047
##
## 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 classified as non-responder by 3rd decision point (i.e., classified as non-responder at either 1st, 2nd, or 3rd decision point); Y=0 otherwise

```
summary(mod_flagged_by_03a)
```

```
##
## Call:
## glm(formula = is_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
```

```
## -1.7259  -0.7195  -0.5167   0.7434   2.2542
##
## 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_flagged_by_03b)
```

```
##
## Call:
## glm(formula = is_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
## -2.5605  -0.6150  -0.4063   0.6045   2.5178
##
## 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 classified as non-responder by 4th decision point (i.e., classified as non-responder at either 1st, 2nd, 3rd, or 4th decision point); Y=0 otherwise (i.e., never classified as non-responder throughout the study)

```
summary(mod_flagged_by_04a)
```

```
##
## Call:
## glm(formula = is_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
## -1.8281  -0.7428  -0.5259   0.9091   2.1426
##
## 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_flagged_by_04b)
```

```
##
## Call:
## glm(formula = is_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
## -2.6775  -0.6542  -0.4171   0.7284   2.3910
##
## 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
```