

Results

August 30, 2021

```
print(dat_summary)
```

```
## # A tibble: 1 x 10
##       n1      n2      n3      n4 n_never    p1      p2      p3      p4 p_never
##   <dbl> <dbl> <dbl> <dbl>   <dbl> <dbl> <dbl> <dbl> <dbl>   <dbl>
## 1     88    123    139    152     415 0.155 0.217 0.245 0.268   0.732
```

1 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
```

2 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
```

3 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
```

4 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

```