Results

October 18, 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      0.875                63.0
## 2                    1     0.376      0.747                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      0.878                64.2
## 2                    1     0.378      0.736                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      0.885                64.1
## 2                    1     0.379      0.729                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      0.862                63.7
## 2                    1     0.376      0.733                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_only + is_male +
##     sPBSSOverall + stot_days_with_any_drinks, family = "binomial",
##     data = dat_new)
##
## Deviance Residuals:
##     Min       1Q   Median       3Q      Max
## -2.3575   0.3445   0.4308   0.5599   1.4462
##
## Coefficients:
##                           Estimate Std. Error z value Pr(>|z|)
## (Intercept)                 2.3661     0.3405   6.948 3.70e-12 ***
## is_white_only              -0.5482     0.3603  -1.521   0.1281
## is_male                    -0.1261     0.2624  -0.481   0.6307
## sPBSSOverall                0.2497     0.1432   1.743   0.0813 .
## stot_days_with_any_drinks  -0.7875     0.1166  -6.755 1.43e-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: 416.69  on 526  degrees of freedom
##   (36 observations deleted due to missingness)
## AIC: 426.69
##
## Number of Fisher Scoring iterations: 5
```

```
summary(mod_not_flagged_by_01b)
```

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

```
##
## Deviance Residuals:
##     Min       1Q   Median       3Q      Max
## -2.6246   0.2141   0.3109   0.5700   2.3462
##
## Coefficients:
##                              Estimate Std. Error z value Pr(>|z|)
## (Intercept)                    2.5571     0.3734   6.848 7.49e-12 ***
## is_white_only                 -0.6546     0.3892  -1.682   0.0926 .
## is_male                        0.3759     0.2888   1.302   0.1930
## sPBSSOverall                   0.3367     0.1723   1.955   0.0506 .
## stypical_num_drinks_per_day   -1.2361     0.1456  -8.490  < 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: 368.17  on 526  degrees of freedom
##   (36 observations deleted due to missingness)
## AIC: 378.17
##
## 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_only + is_male +
##     sPBSSOverall + stot_days_with_any_drinks, family = "binomial",
##     data = dat_new)
##
## Deviance Residuals:
##     Min       1Q   Median       3Q      Max
## -2.1939   0.3541   0.5085   0.6878   1.5934
##
## Coefficients:
##                            Estimate Std. Error z value Pr(>|z|)
## (Intercept)                 1.94312    0.29560   6.574 4.91e-11 ***
## is_white_only              -0.67901    0.31460  -2.158   0.0309 *
## is_male                    -0.04603    0.23270  -0.198   0.8432
## sPBSSOverall                0.18461    0.12397   1.489   0.1365
## stot_days_with_any_drinks  -0.74553    0.10708  -6.963 3.34e-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: 507.86  on 526  degrees of freedom
##   (36 observations deleted due to missingness)
## AIC: 517.86
## 
## Number of Fisher Scoring iterations: 4
```

summary(mod_not_flagged_by_02b)

```
## 
## Call:
## glm(formula = is_not_flagged_by_02 ~ is_white_only + is_male +
##     sPBSSOverall + stypical_num_drinks_per_day, family = "binomial",
##     data = dat_new)
## 
## Deviance Residuals:
##     Min       1Q   Median       3Q      Max
## -2.4963   0.2635   0.4055   0.6416   2.4141
## 
## Coefficients:
##                             Estimate Std. Error z value Pr(>|z|)
## (Intercept)                   2.0469     0.3181   6.435 1.23e-10 ***
## is_white_only                -0.7580     0.3368  -2.251   0.0244 *
## is_male                       0.3324     0.2528   1.315   0.1886
## sPBSSOverall                  0.2474     0.1427   1.734   0.0830 .
## stypical_num_drinks_per_day  -1.1163     0.1252  -8.914  < 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: 459.25  on 526  degrees of freedom
##   (36 observations deleted due to missingness)
## AIC: 469.25
## 
## 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_only + is_male +
##     sPBSSOverall + stot_days_with_any_drinks, family = "binomial",
##     data = dat_new)
## 
```

```
## Deviance Residuals:
##     Min      1Q   Median       3Q      Max
## -2.1778  -0.7262   0.5189   0.7192   1.7499
##
## Coefficients:
##                          Estimate Std. Error z value Pr(>|z|)
## (Intercept)               1.88307    0.28994   6.495 8.32e-11 ***
## is_white_only            -0.78197    0.30776  -2.541   0.0111 *
## is_male                  -0.06195    0.22734  -0.272   0.7853
## sPBSSOverall              0.20820    0.12024   1.732   0.0833 .
## stot_days_with_any_drinks -0.82199   0.10815  -7.601 2.95e-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: 525.35  on 526  degrees of freedom
##   (36 observations deleted due to missingness)
## AIC: 535.35
##
## Number of Fisher Scoring iterations: 4
```

```
summary(mod_not_flagged_by_03b)
```

```
##
## Call:
## glm(formula = is_not_flagged_by_03 ~ is_white_only + is_male +
##     sPBSSOverall + stypical_num_drinks_per_day, family = "binomial",
##     data = dat_new)
##
## Deviance Residuals:
##     Min      1Q   Median       3Q      Max
## -2.4815  -0.5792   0.4118   0.6336   2.6019
##
## Coefficients:
##                             Estimate Std. Error z value Pr(>|z|)
## (Intercept)                   2.0017     0.3149   6.356 2.07e-10 ***
## is_white_only                -0.8923     0.3324  -2.684  0.00726 **
## is_male                       0.3155     0.2479   1.273  0.20307
## sPBSSOverall                  0.2822     0.1379   2.046  0.04078 *
## stypical_num_drinks_per_day  -1.1897     0.1257  -9.461  < 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: 473.08  on 526  degrees of freedom
##   (36 observations deleted due to missingness)
## AIC: 483.08
##
## 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_only + is_male +
##     sPBSSOverall + stot_days_with_any_drinks, family = "binomial",
##     data = dat_new)
##
## Deviance Residuals:
##     Min       1Q   Median       3Q      Max
## -2.0768  -0.8945   0.5436   0.7486   1.8460
##
## Coefficients:
##                            Estimate Std. Error z value Pr(>|z|)
## (Intercept)                 1.61868    0.26815   6.037 1.57e-09 ***
## is_white_only              -0.60320    0.28734  -2.099   0.0358 *
## is_male                    -0.08755    0.22248  -0.394   0.6939
## sPBSSOverall                0.23037    0.11600   1.986   0.0470 *
## stot_days_with_any_drinks  -0.86477    0.10868  -7.957 1.76e-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: 543.94  on 526  degrees of freedom
##   (36 observations deleted due to missingness)
## AIC: 553.94
##
## Number of Fisher Scoring iterations: 4
```

```
summary(mod_not_flagged_by_04b)
```

```
##
## Call:
## glm(formula = is_not_flagged_by_04 ~ is_white_only + is_male +
##     sPBSSOverall + stypical_num_drinks_per_day, family = "binomial",
##     data = dat_new)
##
## Deviance Residuals:
##     Min       1Q   Median       3Q      Max
## -2.3470  -0.7561   0.4252   0.6517   2.7085
##
## Coefficients:
##                            Estimate Std. Error z value Pr(>|z|)
## (Intercept)                  1.7030     0.2920   5.832 5.49e-09 ***
## is_white_only               -0.6846     0.3113  -2.199   0.0279 *
## is_male                      0.2715     0.2426   1.119   0.2629
```

```
## sPBSSOverall                    0.3119     0.1323    2.358    0.0184 *
## stypical_num_drinks_per_day   -1.2283     0.1254   -9.796  < 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: 488.98  on 526   degrees of freedom
##   (36 observations deleted due to missingness)
## AIC: 498.98
##
## Number of Fisher Scoring iterations: 5
```