Negative Affect and SM Use - SMASH Study

Melissa Dreier

3/1/2022

Negative Mood - ABCT Poster

NAf_am

-0.266 -0.064

```
## Negative mood - sumduration
NA_sm_sum <- lmer(NAf_pm ~ sum_sm + NAf_am + day_in_study + (1 + sum_sm | pid), data = day)
summary(NA_sm_sum)
## Linear mixed model fit by REML. t-tests use Satterthwaite's method [
## lmerModLmerTest]
## Formula: NAf_pm ~ sum_sm + NAf_am + day_in_study + (1 + sum_sm | pid)
## REML criterion at convergence: 8787.3
##
## Scaled residuals:
##
      Min
               1Q Median
                              3Q
                                     Max
## -2.5145 -0.4502 -0.1220 0.0586 4.3126
##
## Random effects:
## Groups
            Name
                        Variance Std.Dev. Corr
            (Intercept) 2.156e+04 146.8397
##
            sum_sm
                        5.716e-01
                                   0.7561 1.00
                        2.063e+05 454.1533
## Residual
## Number of obs: 581, groups: pid, 19
## Fixed effects:
                 Estimate Std. Error
                                            df t value Pr(>|t|)
## (Intercept) 198.032243 60.097732 67.871321 3.295 0.001566 **
## sum_sm
                 1.076 0.304337
## NAf am
                 0.140122
                           0.039872 554.546919
                                                 3.514 0.000477 ***
## day_in_study -0.001461 2.053268 567.032108 -0.001 0.999432
## Signif. codes: 0 '*** 0.001 '** 0.01 '* 0.05 '.' 0.1 ' 1
## Correlation of Fixed Effects:
              (Intr) sum sm NAf am
              -0.102
## sum_sm
```

```
## day_in_stdy -0.607 0.062 0.163
## optimizer (nloptwrap) convergence code: 0 (OK)
## boundary (singular) fit: see ?isSingular
## Negative mood - counts
NA_sm_count <- lmer(NAf_pm ~ count_sm + NAf_am + day_in_study + (1 + count_sm | pid), data = day)
summary(NA sm count)
## Linear mixed model fit by REML. t-tests use Satterthwaite's method [
## lmerModLmerTest]
## Formula: NAf_pm ~ count_sm + NAf_am + day_in_study + (1 + count_sm | pid)
##
     Data: day
## REML criterion at convergence: 8772.6
## Scaled residuals:
      Min
          1Q Median
                          3Q
                                   Max
## -2.7286 -0.4367 -0.1127 0.0422 4.2738
## Random effects:
## Groups Name
                      Variance Std.Dev. Corr
           (Intercept) 2.138e+04 146.2132
           count_sm
                     5.620e-01
                                0.7497 1.00
                      2.000e+05 447.2214
## Residual
## Number of obs: 581, groups: pid, 19
##
## Fixed effects:
             Estimate Std. Error
                                      df t value Pr(>|t|)
## (Intercept) 119.09439 63.80821 25.21503 1.866 0.07365 .
## count_sm
              ## NAf_am
                ## day_in_study 0.19735 2.03802 561.18092 0.097 0.92289
## ---
## Signif. codes: 0 '*** 0.001 '** 0.01 '* 0.05 '.' 0.1 ' ' 1
## Correlation of Fixed Effects:
            (Intr) cnt_sm NAf_am
## count_sm
             -0.213
             -0.242 -0.044
## NAf am
## day_in_stdy -0.603 0.108 0.170
## optimizer (nloptwrap) convergence code: 0 (OK)
```

ABCT Symposium Analyses

boundary (singular) fit: see ?isSingular

Negative Affect on SM - Within-Day Models

#-----Pos affect & same day SM------

```
## Negative affect & minutes of SM
PA_on_SM_day <- lmer(sum_sm ~ SM_Pos + PA_sm_average + day_in_study + (1 + SM_Pos | pid), data = day)
summary(PA_on_SM_day)
## Linear mixed model fit by REML. t-tests use Satterthwaite's method [
## lmerModLmerTest]
## Formula: sum sm ~ SM Pos + PA sm average + day in study + (1 + SM Pos |
##
      pid)
##
     Data: day
##
## REML criterion at convergence: 4892.5
##
## Scaled residuals:
##
      Min
               1Q Median
                                3Q
                                       Max
## -3.1408 -0.3324 -0.0899 0.2363 4.0781
##
## Random effects:
## Groups
            Name
                        Variance Std.Dev. Corr
## pid
             (Intercept) 3.526e+03 59.3787
##
            SM_Pos
                        5.551e-02
                                     0.2356 1.00
## Residual
                         1.012e+04 100.6008
## Number of obs: 403, groups: pid, 19
##
## Fixed effects:
                                          df t value Pr(>|t|)
##
                Estimate Std. Error
## (Intercept)
                 89.2830
                          38.2243 12.4057
                                                2.336
                                                         0.037 *
                  0.2313
                             0.2920 150.9341
                                               0.792
                                                         0.430
## SM_Pos
                  0.1783
                             0.7329 21.5794
                                                         0.810
## PA sm average
                                                0.243
                             0.6096 396.0845 -0.329
                                                         0.742
## day_in_study
                 -0.2004
## Signif. codes: 0 '***' 0.001 '**' 0.05 '.' 0.1 ' ' 1
## Correlation of Fixed Effects:
##
               (Intr) SM_Pos PA_sm_
## SM Pos
               0.043
## PA_sm_averg -0.799 -0.421
## day_in_stdy -0.265 0.270 -0.069
## optimizer (nloptwrap) convergence code: 0 (OK)
## boundary (singular) fit: see ?isSingular
## Negative affect & SM checks
PA_on_SM_count_day <- lmer(count_sm ~ SM_Pos + PA_sm_average + day_in_study + (1 + SM_Pos | pid), data
summary(PA_on_SM_count_day)
## Linear mixed model fit by REML. t-tests use Satterthwaite's method [
## lmerModLmerTest]
## Formula: count_sm ~ SM_Pos + PA_sm_average + day_in_study + (1 + SM_Pos |
##
      pid)
```

##

Data: day

```
## REML criterion at convergence: 4601.1
## Scaled residuals:
      Min
             1Q Median
                             3Q
## -3.6971 -0.5490 -0.0870 0.3843 4.5542
## Random effects:
          Name
## Groups
                      Variance Std.Dev. Corr
## pid
            (Intercept) 7178.146 84.7239
            SM_Pos
                         0.298 0.5459 1.00
                      4548.666 67.4438
## Residual
## Number of obs: 403, groups: pid, 19
##
## Fixed effects:
##
               Estimate Std. Error
                                        df t value Pr(>|t|)
## (Intercept) 157.0737 48.7237 11.2835 3.224 0.00786 **
## SM Pos
                0.7491
                          0.2316 31.9808
                                           3.234 0.00283 **
## PA_sm_average -1.0250
                           0.9199 15.4224 -1.114 0.28225
## day_in_study -0.0460
                           0.4142 388.4018 -0.111 0.91162
## ---
## Signif. codes: 0 '*** 0.001 '** 0.01 '* 0.05 '.' 0.1 ' 1
## Correlation of Fixed Effects:
##
            (Intr) SM_Pos PA_sm_
## SM Pos
              0.286
## PA_sm_averg -0.879 -0.280
## day_in_stdy -0.204 0.230 0.033
## optimizer (nloptwrap) convergence code: 0 (OK)
## boundary (singular) fit: see ?isSingular
#-----SM & same day Negative affect------
## Negative affect & minutes of SM
PA_on_SM_day_reverse <- lmer(SM_Pos ~ sum_sm + sm_average + day_in_study + (1 + sum_sm | pid), data = d
summary(PA_on_SM_day_reverse)
## Linear mixed model fit by REML. t-tests use Satterthwaite's method [
## lmerModLmerTest]
## Formula: SM_Pos ~ sum_sm + sm_average + day_in_study + (1 + sum_sm | pid)
##
     Data: day
## REML criterion at convergence: 3545.8
## Scaled residuals:
      Min 1Q Median
                             3Q
## -3.7024 -0.5914 0.0213 0.6081 3.8917
## Random effects:
## Groups Name
                       Variance Std.Dev. Corr
          (Intercept) 6.822e+02 26.11819
## pid
```

```
2.590e-04 0.01609 -1.00
            sum_sm
                        3.245e+02 18.01301
## Residual
## Number of obs: 403, groups: pid, 19
## Fixed effects:
                                           df t value Pr(>|t|)
##
                Estimate Std. Error
## (Intercept)
                51.94552 9.91918 19.22826
                                              5.237 4.52e-05 ***
## sum sm
                 0.01938
                            0.01242
                                     5.03097
                                               1.561
                                                         0.179
## sm_average
                 0.06619
                            0.08071 17.62044
                                              0.820
                                                         0.423
## day_in_study -0.56982
                            0.10655 385.49188 -5.348 1.53e-07 ***
## Signif. codes: 0 '*** 0.001 '** 0.01 '* 0.05 '.' 0.1 ' 1
## Correlation of Fixed Effects:
              (Intr) sum_sm sm_vrg
##
## sum_sm
               0.279
## sm_average -0.769 -0.683
## day_in_stdy -0.099 0.059 -0.068
## optimizer (nloptwrap) convergence code: 0 (OK)
## boundary (singular) fit: see ?isSingular
## Negative affect & SM checks
PA_on_SM_count_day_reverse <- lmer(SM_Pos ~ count_sm + count_average + day_in_study + (1 + count_sm | p
summary(PA_on_SM_count_day_reverse)
## Linear mixed model fit by REML. t-tests use Satterthwaite's method [
## lmerModLmerTest]
## Formula: SM_Pos ~ count_sm + count_average + day_in_study + (1 + count_sm |
##
      pid)
##
     Data: day
##
## REML criterion at convergence: 3534.6
##
## Scaled residuals:
##
      Min
               1Q Median
                               3Q
                                      Max
## -3.7345 -0.5795 0.0376 0.6005 4.0210
##
## Random effects:
## Groups
                        Variance Std.Dev.
             (Intercept) 6.648e+02 25.783787
                        8.052e-05 0.008973 -1.00
##
            count_sm
## Residual
                        3.147e+02 17.739659
## Number of obs: 403, groups: pid, 19
## Fixed effects:
##
                 Estimate Std. Error
                                            df t value Pr(>|t|)
## (Intercept)
                 59.19256 8.75487 24.36693 6.761 5.00e-07 ***
## count_sm
                 0.05102
                             0.01336 172.94795
                                                3.818 0.000187 ***
## count_average -0.04176
                             0.04541 19.97786 -0.920 0.368751
## day_in_study -0.54243
                             0.10482 384.97599 -5.175 3.67e-07 ***
## ---
## Signif. codes: 0 '***' 0.001 '**' 0.05 '.' 0.1 ' ' 1
```

Negative Affect on SM - Within-Day Models

day_in_stdy -0.242 0.125 -0.088

```
#-----Neg affect & same day SM-----
## Negative affect & minutes of SM
NA_on_SM_day <- lmer(sum_sm ~ SM_Neg + NA_sm_average + day_in_study + (1 + SM_Neg | pid), data = day)
summary(NA_on_SM_day)
## Linear mixed model fit by REML. t-tests use Satterthwaite's method [
## lmerModLmerTest]
## Formula: sum_sm ~ SM_Neg + NA_sm_average + day_in_study + (1 + SM_Neg |
##
      pid)
##
     Data: day
##
## REML criterion at convergence: 3353
##
## Scaled residuals:
      Min 1Q Median
                           3Q
                                   Max
## -2.8792 -0.4671 -0.1161 0.3793 6.8861
##
## Random effects:
                    Variance Std.Dev. Corr
## Groups Name
## pid
           (Intercept) 4960.9923 70.434
##
           SM_Neg
                         0.1529 0.391
                                      -1.00
## Residual
                     4709.9550 68.629
## Number of obs: 294, groups: pid, 18
##
## Fixed effects:
                Estimate Std. Error
                                          df t value Pr(>|t|)
             114.753767 25.218027 19.492142 4.550 0.000206 ***
## (Intercept)
## SM_Neg
            ## NA_sm_average 0.009843
                         1.358969 15.054490
                                             0.007 0.994316
## day_in_study -0.912261 0.491314 281.818181 -1.857 0.064386 .
## Signif. codes: 0 '*** 0.001 '** 0.01 '* 0.05 '.' 0.1 ' 1
## Correlation of Fixed Effects:
##
             (Intr) SM_Neg NA_sm_
            -0.010
## SM_Neg
## NA_sm_averg -0.641 -0.517
```

```
## optimizer (nloptwrap) convergence code: 0 (OK)
## boundary (singular) fit: see ?isSingular
## Negative affect & SM checks
NA_on_SM_count_day <- lmer(count_sm ~ SM_Neg + NA_sm_average + day_in_study + (1 + SM_Neg | pid), data
summary(NA_on_SM_count_day)
## Linear mixed model fit by REML. t-tests use Satterthwaite's method [
## lmerModLmerTest]
## Formula: count_sm ~ SM_Neg + NA_sm_average + day_in_study + (1 + SM_Neg |
##
      pid)
##
     Data: day
## REML criterion at convergence: 3374.5
##
## Scaled residuals:
      Min 1Q Median
                              3Q
                                     Max
## -2.5237 -0.6307 -0.1094 0.4294 4.4378
##
## Random effects:
## Groups
            Name
                       Variance Std.Dev. Corr
##
            (Intercept) 1.835e+04 135.4799
##
            SM_Neg
                       2.045e-01
                                  0.4523 1.00
## Residual
                       4.685e+03 68.4472
## Number of obs: 294, groups: pid, 18
## Fixed effects:
               Estimate Std. Error
                                        df t value Pr(>|t|)
## (Intercept)
               207.1813 47.1815 15.3546 4.391 0.000499 ***
                          0.3101 5.6842 1.057 0.333365
## SM Neg
                 0.3277
## NA_sm_average -3.8785
                           2.6110 11.1201 -1.485 0.165211
## day_in_study -0.7489
                           0.4933 274.5579 -1.518 0.130139
## ---
## Signif. codes: 0 '*** 0.001 '** 0.01 '* 0.05 '.' 0.1 ' 1
## Correlation of Fixed Effects:
##
              (Intr) SM_Neg NA_sm_
## SM_Neg
              -0.053
## NA_sm_averg -0.704 0.285
## day_in_stdy -0.156 0.158 -0.013
## optimizer (nloptwrap) convergence code: 0 (OK)
## boundary (singular) fit: see ?isSingular
#-----SM & same day Negative affect------
## Negative affect & minutes of SM
NA_on_SM_day_reverse <- lmer(SM_Neg ~ sum_sm + sm_average + day_in_study + (1 + sum_sm | pid), data = d
summary(NA_on_SM_day_reverse)
```

```
## Linear mixed model fit by REML. t-tests use Satterthwaite's method [
## lmerModLmerTest]
## Formula: SM_Neg ~ sum_sm + sm_average + day_in_study + (1 + sum_sm | pid)
##
     Data: day
## REML criterion at convergence: 2494.3
## Scaled residuals:
      Min
             1Q Median
                               30
                                      Max
## -2.6151 -0.4527 -0.0980 0.1991 4.5713
## Random effects:
## Groups Name
                        Variance Std.Dev. Corr
             (Intercept) 2.913e+02 17.06780
## pid
##
                        7.295e-04 0.02701 1.00
            sum_sm
## Residual
                        2.308e+02 15.19296
## Number of obs: 294, groups: pid, 18
## Fixed effects:
##
                 Estimate Std. Error
                                             df t value Pr(>|t|)
## (Intercept)
              10.036045 7.931171
                                       1.537024
                                                1.265
                                                         0.3642
## sum_sm
                0.009463 0.016083
                                       8.791879
                                                  0.588
                                                          0.5711
## sm_average 0.058679 0.059458
                                                  0.987
                                       1.469223
                                                          0.4581
## day_in_study -0.268930 0.108275 280.701527 -2.484
                                                         0.0136 *
## ---
## Signif. codes: 0 '***' 0.001 '**' 0.05 '.' 0.1 ' ' 1
## Correlation of Fixed Effects:
              (Intr) sum_sm sm_vrg
##
## sum_sm
              -0.172
## sm_average -0.800 0.245
## day_in_stdy -0.229 0.120 0.009
## optimizer (nloptwrap) convergence code: 0 (OK)
## boundary (singular) fit: see ?isSingular
## Negative affect & SM checks
NA_on_SM_count_day_reverse <- lmer(SM_Neg ~ count_sm + count_average + day_in_study + (1 + count_sm | p
summary(NA_on_SM_count_day_reverse)
## Linear mixed model fit by REML. t-tests use Satterthwaite's method [
## lmerModLmerTest]
## Formula: SM_Neg ~ count_sm + count_average + day_in_study + (1 + count_sm |
##
      pid)
##
     Data: day
## REML criterion at convergence: 2488.2
## Scaled residuals:
      Min
               1Q Median
                               3Q
```

-2.5332 -0.4538 -0.1126 0.2159 4.7512

Random effects:

```
## Groups
            Name Variance Std.Dev. Corr
## pid
            (Intercept) 1.462e+02 12.09155
##
            count sm 4.554e-04 0.02134 1.00
                       2.318e+02 15.22598
## Residual
## Number of obs: 294, groups: pid, 18
##
## Fixed effects:
                Estimate Std. Error
##
                                      df t value Pr(>|t|)
              18.33354 5.68239
                                    9.87653 3.226 0.00922 **
## (Intercept)
## count_sm
                0.01614 0.01452 31.58628
                                             1.111 0.27483
## count_average -0.02595 0.03589 13.98373 -0.723 0.48154
## day_in_study -0.26071 0.10781 279.79783 -2.418 0.01623 *
## Signif. codes: 0 '*** 0.001 '** 0.01 '* 0.05 '.' 0.1 ' 1
##
## Correlation of Fixed Effects:
##
             (Intr) cnt_sm cnt_vr
## count sm
              0.018
## count_averg -0.719 -0.205
## day_in_stdy -0.244 0.120 -0.093
## optimizer (nloptwrap) convergence code: 0 (OK)
## Model failed to converge with max|grad| = 4.44534 (tol = 0.002, component 1)
## Model is nearly unidentifiable: very large eigenvalue
## - Rescale variables?
```

Negative Affect on SM - Lagged Models

```
#-----Neg affect predicting next day SM------
## Negative affect & minutes of SM
NA_on_SM <- lmer(sum_sm ~ SM_Neg_lag + NA_sm_average + day_in_study + (1 + SM_Neg_lag | pid), data = da
summary(NA_on_SM)
## Linear mixed model fit by REML. t-tests use Satterthwaite's method [
## lmerModLmerTest]
## Formula:
## sum_sm ~ SM_Neg_lag + NA_sm_average + day_in_study + (1 + SM_Neg_lag |
##
     pid)
##
     Data: day
##
## REML criterion at convergence: 3367.2
## Scaled residuals:
                           3Q
##
            1Q Median
      Min
## -3.7767 -0.4339 -0.0651 0.3165 5.8492
##
## Random effects:
## Groups Name
                      Variance Std.Dev. Corr
           (Intercept) 5.230e+03 72.32078
           SM_Neg_lag 3.939e-03 0.06276 -1.00
##
```

```
4.918e+03 70.12611
## Number of obs: 294, groups: pid, 18
## Fixed effects:
                Estimate Std. Error
                                          df t value Pr(>|t|)
                                              4.700 0.000172 ***
## (Intercept)
                129.3437
                         27.5220 18.2738
                            0.2725 139.2044 -0.620 0.536330
## SM_Neg_lag
                 -0.1689
                             1.5247 15.8796
## NA_sm_average
                 0.2980
                                             0.195 0.847511
## day_in_study
                 -1.5168
                             0.5027 281.3905 -3.017 0.002782 **
## ---
## Signif. codes: 0 '*** 0.001 '** 0.01 '* 0.05 '.' 0.1 ' ' 1
##
## Correlation of Fixed Effects:
              (Intr) SM_Ng_ NA_sm_
##
## SM_Neg_lag -0.031
## NA_sm_averg -0.683 -0.245
## day_in_stdy -0.263 0.155 -0.059
## optimizer (nloptwrap) convergence code: 0 (OK)
## boundary (singular) fit: see ?isSingular
## Negative affect & SM checks
NA_on_SM_count <- lmer(count_sm ~ SM_Neg_lag + NA_sm_average + day_in_study + (1 + SM_Neg_lag | pid), d
summary(NA_on_SM_count)
## Linear mixed model fit by REML. t-tests use Satterthwaite's method [
## lmerModLmerTest]
## Formula:
## count_sm ~ SM_Neg_lag + NA_sm_average + day_in_study + (1 + SM_Neg_lag |
##
      pid)
##
     Data: day
##
## REML criterion at convergence: 3390.2
##
## Scaled residuals:
##
      Min
               1Q Median
                               3Q
                                      Max
## -2.8371 -0.5907 -0.1106 0.4494 3.7609
##
## Random effects:
## Groups
                        Variance Std.Dev. Corr
##
             (Intercept) 44930.318 211.968
##
            SM_Neg_lag
                            1.227
                                    1.108 -0.29
## Residual
                         4613.356 67.922
## Number of obs: 294, groups: pid, 18
##
## Fixed effects:
##
                Estimate Std. Error
                                          df t value Pr(>|t|)
## (Intercept)
                249.6557 73.2784 15.6266
                                             3.407 0.003711 **
## SM_Neg_lag
                 -0.3065
                            0.4651
                                     9.4848 -0.659 0.525494
## NA_sm_average -3.8494
                             4.1850 13.8719 -0.920 0.373395
## day_in_study -1.7532
                            0.4945 272.4695 -3.545 0.000462 ***
## ---
## Signif. codes: 0 '***' 0.001 '**' 0.05 '.' 0.1 ' ' 1
```

```
##
## Correlation of Fixed Effects:
              (Intr) SM_Ng_ NA_sm_
## SM_Neg_lag -0.049
## NA_sm_averg -0.717 -0.152
## day_in_stdy -0.093 0.112 -0.026
## optimizer (nloptwrap) convergence code: 0 (OK)
## Model failed to converge with max|grad| = 0.0021609 (tol = 0.002, component 1)
#-----SM predicting next day Negative affect-----
## Negative affect & minutes of SM
NA_on_SM_lag <- lmer(SM_Neg ~ sum_sm_lag + sm_average + day_in_study + (1 + sum_sm_lag | pid), data = d
summary(NA_on_SM_lag)
## Linear mixed model fit by REML. t-tests use Satterthwaite's method [
## lmerModLmerTest]
## Formula: SM_Neg ~ sum_sm_lag + sm_average + day_in_study + (1 + sum_sm_lag |
##
      pid)
##
     Data: day
##
## REML criterion at convergence: 2492.8
##
## Scaled residuals:
      Min
           1Q Median
                          3Q
## -2.7626 -0.4427 -0.1177 0.1870 4.7252
##
## Random effects:
## Groups Name
                       Variance Std.Dev. Corr
            (Intercept) 1.900e+02 13.785
## pid
            sum_sm_lag 1.024e-03 0.032
                       2.360e+02 15.362
## Residual
## Number of obs: 294, groups: pid, 18
##
## Fixed effects:
                Estimate Std. Error
                                         df t value Pr(>|t|)
## (Intercept) 1.477e+01 6.512e+00 1.194e+01 2.268 0.0427 *
## sum_sm_lag 4.477e-04 1.758e-02 9.391e+00 0.025
                                                      0.9802
## sm_average 2.469e-02 5.136e-02 1.193e+01 0.481
                                                       0.6394
## day_in_study -2.700e-01 1.103e-01 2.784e+02 -2.449
                                                      0.0149 *
## Signif. codes: 0 '*** 0.001 '** 0.01 '* 0.05 '.' 0.1 ' 1
## Correlation of Fixed Effects:
             (Intr) sm_sm_ sm_vrg
## sum_sm_lag -0.129
## sm_average -0.768 -0.158
## day_in_stdy -0.232 0.095 -0.052
## optimizer (nloptwrap) convergence code: 0 (OK)
## Model failed to converge with max|grad| = 2.0971 (tol = 0.002, component 1)
```

Model is nearly unidentifiable: very large eigenvalue

- Rescale variables?

```
## Negative affect & SM checks
NA_on_SM_count_lag <- lmer(SM_Neg ~ count_sm_lag + count_average + day_in_study + (1 + count_sm_lag | p
summary(NA_on_SM_count_lag)
## Linear mixed model fit by REML. t-tests use Satterthwaite's method [
## lmerModLmerTest]
## Formula:
## SM_Neg ~ count_sm_lag + count_average + day_in_study + (1 + count_sm_lag |
##
      pid)
     Data: day
##
## REML criterion at convergence: 2492.6
##
## Scaled residuals:
      Min
              1Q Median
                               30
                                      Max
## -2.9037 -0.4406 -0.1349 0.2359 4.6237
##
## Random effects:
## Groups
                         Variance Std.Dev. Corr
##
             (Intercept) 1.087e+02 10.42730
##
            count_sm_lag 2.188e-04 0.01479 1.00
## Residual
                         2.402e+02 15.49735
## Number of obs: 294, groups: pid, 18
## Fixed effects:
                  Estimate Std. Error
                                              df t value Pr(>|t|)
                1.871e+01 5.043e+00 1.993e+01
                                                   3.710 0.00139 **
## (Intercept)
## count_sm_lag -9.309e-03 1.403e-02 6.832e+01 -0.663 0.50928
## count_average -3.257e-04 3.252e-02 2.782e+01 -0.010 0.99208
## day_in_study -2.677e-01 1.106e-01 2.810e+02 -2.421 0.01611 *
## ---
## Signif. codes: 0 '*** 0.001 '** 0.01 '* 0.05 '.' 0.1 ' ' 1
##
## Correlation of Fixed Effects:
##
              (Intr) cnt_s_ cnt_vr
## count_sm_lg 0.010
## count_averg -0.678 -0.345
## day_in_stdy -0.292 0.195 -0.122
## optimizer (nloptwrap) convergence code: 0 (OK)
## boundary (singular) fit: see ?isSingular
```