Supplement B

Reward sensitivity and internalizing symptoms during the transition to puberty: An examination of 9- and 10-year-olds in the ABCD Study.

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	Males	
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1.1 Model: CBCL internalizing factor $\sim PDS$

Females

Family: gaussian

```
## Link function: identity
##
## Formula:
## cbcl_scr_syn_internal_r ~ PDS_score + race.ethnicity.5level +
##
      interview_age + demo_race_hispanic
##
## Parametric coefficients:
                             Estimate Std. Error t value Pr(>|t|)
##
## (Intercept)
                              1.00435 1.81456
                                                 0.553
                                                          0.5800
                                                  4.931 8.69e-07 ***
## PDS_score
                              0.78180
                                        0.15854
## race.ethnicity.5levelBlack -0.25319
                                        0.71823 -0.353
                                                          0.7245
## race.ethnicity.5levelMixed 1.22839
                                                 1.709
                                        0.71864
                                                          0.0875
## race.ethnicity.5levelOther 0.39856
                                        0.82932
                                                 0.481
                                                          0.6309
## race.ethnicity.5levelWhite 0.99113
                                                 1.488
                                                          0.1370
                                        0.66629
## interview_age
                              0.01562
                                        0.01471
                                                  1.062
                                                          0.2885
## demo_race_hispanic1
                              0.25310
                                         0.32178
                                                 0.787
                                                          0.4316
## Signif. codes: 0 '***' 0.001 '**' 0.05 '.' 0.1 ' ' 1
##
##
## R-sq.(adj) = 0.0128
## lmer.REML = 16187 Scale est. = 17.323
Males
##
## Family: gaussian
## Link function: identity
##
## Formula:
## cbcl_scr_syn_internal_r ~ PDS_score + race.ethnicity.5level +
##
      interview_age + demo_race_hispanic
##
## Parametric coefficients:
##
                              Estimate Std. Error t value Pr(>|t|)
## (Intercept)
                              2.916514
                                        1.836811 1.588 0.112440
## PDS_score
                              0.668998
                                        0.198120
                                                  3.377 0.000743 ***
## race.ethnicity.5levelBlack -0.774862
                                       0.788636 -0.983 0.325920
## race.ethnicity.5levelMixed 0.474852 0.785132
                                                  0.605 0.545356
## race.ethnicity.5levelOther -0.839169
                                        0.884062 -0.949 0.342590
## race.ethnicity.5levelWhite -0.009381
                                         0.734578 -0.013 0.989812
## interview_age
                              0.010284
                                         0.014072
                                                   0.731 0.464926
                                         0.322318
                                                   1.910 0.056296 .
## demo_race_hispanic1
                              0.615472
## Signif. codes: 0 '***' 0.001 '**' 0.05 '.' 0.1 ' ' 1
##
##
## R-sq.(adj) = 0.00513
## lmer.REML = 17791 Scale est. = 15.892
1.2 Model: CBCL Anxious-Depressed ~ PDS
```

Females

##

```
## Family: gaussian
## Link function: identity
##
## Formula:
## cbcl_scr_syn_anxdep_r ~ PDS_score + race.ethnicity.5level + interview_age +
      demo race hispanic
##
## Parametric coefficients:
                           Estimate Std. Error t value Pr(>|t|)
## (Intercept)
                           ## PDS_score
                           1.901 0.057470 .
## race.ethnicity.5levelMixed 0.756457 0.398018
## race.ethnicity.5levelOther 0.204912 0.459613
                                             0.446 0.655753
## race.ethnicity.5levelWhite 0.584367
                                    0.368865
                                             1.584 0.113262
## interview_age
                           0.003237
                                     0.008208
                                              0.394 0.693331
                           0.074772
## demo_race_hispanic1
                                    0.177107 0.422 0.672924
## Signif. codes: 0 '***' 0.001 '**' 0.05 '.' 0.1 ' ' 1
##
## R-sq.(adj) = 0.0128
## lmer.REML = 13136 Scale est. = 6.6266
                                        n = 2620
Males
##
## Family: gaussian
## Link function: identity
##
## Formula:
## cbcl_scr_syn_anxdep_r ~ PDS_score + race.ethnicity.5level + interview_age +
##
      demo_race_hispanic
##
## Parametric coefficients:
                           Estimate Std. Error t value Pr(>|t|)
## (Intercept)
                           2.599640 1.022995 2.541 0.01110 *
                                             2.591 0.00963 **
## PDS_score
                           0.285806 0.110323
## race.ethnicity.5levelBlack -0.321560 0.433851 -0.741 0.45865
## race.ethnicity.5levelMixed 0.392497 0.432187
                                              0.908 0.36387
                                    0.488335 -0.377 0.70645
## race.ethnicity.5levelOther -0.183938
## race.ethnicity.5levelWhite 0.287702
                                    0.404120
                                             0.712 0.47657
## interview_age
                          -0.005896
                                    0.007862 -0.750 0.45336
## demo_race_hispanic1
                           0.258338
                                    0.177288 1.457 0.14518
## ---
## Signif. codes: 0 '***' 0.001 '**' 0.05 '.' 0.1 ' ' 1
##
##
## R-sq.(adj) = 0.00484
## lmer.REML = 14479 Scale est. = 6.5927
                                        n = 2845
```

1.3 Model: CBCL Withdrawn-Depressed ~ PDS

```
##
## Family: gaussian
## Link function: identity
##
## Formula:
## cbcl_scr_syn_withdep_r ~ PDS_score + race.ethnicity.5level +
      interview_age + demo_race_hispanic
##
## Parametric coefficients:
##
                             Estimate Std. Error t value Pr(>|t|)
## (Intercept)
                             0.264236   0.542461   0.487
                                                           0.626
## PDS_score
                             ## race.ethnicity.5levelBlack -0.192139   0.212400   -0.905
                                                           0.366
## race.ethnicity.5levelMixed -0.016699 0.212612 -0.079
                                                          0.937
## race.ethnicity.5levelOther -0.052069
                                       0.245382 -0.212
                                                        0.832
                                                         0.597
## race.ethnicity.5levelWhite -0.104268
                                       0.197265 -0.529
## interview_age
                             0.003147
                                       0.004407
                                                 0.714 0.475
## demo_race_hispanic1
                             0.155883
                                       0.094464
                                                 1.650
                                                        0.099 .
## Signif. codes: 0 '***' 0.001 '**' 0.05 '.' 0.1 ' ' 1
##
##
## R-sq.(adj) =
                0.01
## lmer.REML = 9892.2 Scale est. = 2.4029
Males
##
## Family: gaussian
## Link function: identity
##
## Formula:
## cbcl_scr_syn_withdep_r ~ PDS_score + race.ethnicity.5level +
##
      interview_age + demo_race_hispanic
##
## Parametric coefficients:
##
                             Estimate Std. Error t value Pr(>|t|)
## (Intercept)
                            -0.116765 0.604252 -0.193 0.84679
## PDS_score
                             0.186099 0.065327
                                                  2.849 0.00442 **
## race.ethnicity.5levelBlack -0.163704   0.258403   -0.634   0.52644
## race.ethnicity.5levelMixed 0.003069 0.257628
                                                 0.012 0.99050
## race.ethnicity.5levelOther -0.193555 0.290579 -0.666 0.50540
## race.ethnicity.5levelWhite -0.219280 0.240916 -0.910 0.36280
## interview_age
                             0.009619
                                       0.004640
                                                 2.073 0.03826 *
                                                 1.265 0.20581
## demo_race_hispanic1
                             0.131680
                                       0.104057
## Signif. codes: 0 '***' 0.001 '**' 0.05 '.' 0.1 ' ' 1
##
##
## R-sq.(adj) = 0.0035
## lmer.REML = 11496 Scale est. = 1.9084
```

1.4 Model: CBCL Depressed DSM-5 \sim PDS

```
##
## Family: gaussian
## Link function: identity
##
## Formula:
## cbcl_scr_dsm5_depress_r ~ PDS_score + race.ethnicity.5level +
      interview_age + demo_race_hispanic
##
## Parametric coefficients:
##
                             Estimate Std. Error t value Pr(>|t|)
## (Intercept)
                             ## PDS_score
                             0.192397
                                       0.055287
                                                3.480 0.00051 ***
## race.ethnicity.5levelBlack -0.076952  0.249336  -0.309  0.75763
## race.ethnicity.5levelMixed 0.219642 0.249929 0.879 0.37958
## race.ethnicity.5levelOther 0.024488
                                       0.288648
                                                0.085 0.93240
## race.ethnicity.5levelWhite 0.128716
                                       0.231475
                                                0.556 0.57821
## interview_age
                            -0.001469
                                      0.005136 -0.286 0.77490
## demo_race_hispanic1
                             0.126429
                                       0.111105
                                                1.138 0.25525
## Signif. codes: 0 '***' 0.001 '**' 0.05 '.' 0.1 ' ' 1
##
##
## R-sq.(adj) = 0.0042
## lmer.REML = 10689 Scale est. = 2.2893
Males
##
## Family: gaussian
## Link function: identity
##
## cbcl_scr_dsm5_depress_r ~ PDS_score + race.ethnicity.5level +
##
      interview_age + demo_race_hispanic
##
## Parametric coefficients:
##
                             Estimate Std. Error t value Pr(>|t|)
## (Intercept)
                             0.233652 0.701046 0.333 0.7389
                                                2.056
## PDS_score
                             0.155703 0.075749
                                                         0.0399 *
## race.ethnicity.5levelBlack -0.032645
                                       0.300786 -0.109
                                                         0.9136
## race.ethnicity.5levelMixed 0.201438 0.299714
                                                 0.672
                                                         0.5016
## race.ethnicity.5levelOther -0.250785 0.337693 -0.743
                                                         0.4578
## race.ethnicity.5levelWhite -0.022856 0.280336 -0.082 0.9350
## interview_age
                             0.007708
                                       0.005377
                                                1.433
                                                         0.1519
## demo_race_hispanic1
                             0.145907
                                       0.121775
                                                 1.198
                                                         0.2310
## Signif. codes: 0 '***' 0.001 '**' 0.05 '.' 0.1 ' ' 1
##
##
## R-sq.(adj) = 0.00214
## lmer.REML = 12335 Scale est. = 2.3675
```

1.5 Model: CBCL internalizing factor ~ Pubertal category

```
##
## Family: gaussian
## Link function: identity
##
## Formula:
## cbcl_scr_syn_internal_r ~ pds_p_ss_category + race.ethnicity.5level +
      interview_age + demo_race_hispanic
##
## Parametric coefficients:
##
                           Estimate Std. Error t value Pr(>|t|)
## (Intercept)
                            1.29818 1.86143 0.697 0.485610
                                     0.28987 1.040 0.298645
## pds_p_ss_categoryEarly
                            0.30134
                            ## pds_p_ss_categoryLate
## pds_p_ss_categoryMid
                            ## race.ethnicity.5levelBlack -0.12030 0.71934 -0.167 0.867198
## race.ethnicity.5levelMixed 1.25918 0.72006
                                              1.749 0.080456
## race.ethnicity.5levelOther 0.42346 0.83096
                                              0.510 0.610371
## race.ethnicity.5levelWhite 1.00589 0.66757 1.507 0.131986
## interview_age
                            0.01957
                                      0.01499 1.305 0.191958
## demo race hispanic1
                            0.19558
                                      0.32298
                                              0.606 0.544867
## Signif. codes: 0 '***' 0.001 '**' 0.05 '.' 0.1 ' ' 1
##
## R-sq.(adj) = 0.0091
## lmer.REML = 16196 Scale est. = 17.558
Males
##
## Family: gaussian
## Link function: identity
##
## Formula:
## cbcl_scr_syn_internal_r ~ pds_p_ss_category + race.ethnicity.5level +
##
      interview_age + demo_race_hispanic
##
## Parametric coefficients:
##
                           Estimate Std. Error t value Pr(>|t|)
## (Intercept)
                           3.17467 1.84243 1.723 0.0850
                                               2.121 0.0340 *
                            0.54530
## pds_p_ss_categoryEarly
                                      0.25715
                            0.13229 1.51040 0.088 0.9302
## pds_p_ss_categoryLate
## pds_p_ss_categoryMid
                            1.15880 0.47474
                                              2.441 0.0147 *
## race.ethnicity.5levelBlack -0.67208 0.78857 -0.852 0.3941
                                              0.697 0.4857
## race.ethnicity.5levelMixed 0.54813
                                      0.78620
## race.ethnicity.5levelOther -0.80966
                                      0.88486 -0.915 0.3603
## race.ethnicity.5levelWhite 0.08372
                                      0.73582 0.114 0.9094
## interview_age
                            0.01334
                                      0.01401
                                               0.952 0.3410
## demo_race_hispanic1
                            0.59163
                                      0.32336
                                              1.830 0.0674 .
## ---
## Signif. codes: 0 '***' 0.001 '**' 0.05 '.' 0.1 ' ' 1
```

```
##
## R-sq.(adj) = 0.00371
## lmer.REML = 17790 Scale est. = 15.869 n = 2845
```

1.6 Model: CBCL Anxious-Depressed ~ Pubertal category

```
Females
##
## Family: gaussian
## Link function: identity
##
## Formula:
## cbcl_scr_syn_anxdep_r ~ pds_p_ss_category + race.ethnicity.5level +
      interview_age + demo_race_hispanic
##
## Parametric coefficients:
                              Estimate Std. Error t value Pr(>|t|)
##
## (Intercept)
                              1.119072 1.035379 1.081 0.27987
                             0.197344 0.161806
                                                  1.220 0.22272
## pds_p_ss_categoryEarly
## pds_p_ss_categoryLate
                              0.160095 0.387250
                                                  0.413 0.67934
## pds_p_ss_categoryMid
                              0.389693 0.149135
                                                  2.613 0.00903 **
## race.ethnicity.5levelBlack -0.212867
                                        0.397768 -0.535 0.59259
## race.ethnicity.5levelMixed 0.774922
                                       0.398616
                                                  1.944 0.05200
## race.ethnicity.5levelOther 0.218712 0.460309
                                                  0.475 0.63473
## race.ethnicity.5levelWhite 0.592456
                                        0.369390
                                                  1.604 0.10886
                                                  0.692 0.48925
## interview_age
                              0.005779
                                        0.008357
## demo_race_hispanic1
                              0.054532
                                        0.177675
                                                  0.307 0.75893
## ---
## Signif. codes: 0 '***' 0.001 '**' 0.05 '.' 0.1 ' ' 1
##
## R-sq.(adj) = 0.0101
## lmer.REML = 13144 Scale est. = 6.6835
                                            n = 2620
Males
## Family: gaussian
## Link function: identity
##
## Formula:
## cbcl_scr_syn_anxdep_r ~ pds_p_ss_category + race.ethnicity.5level +
##
      interview_age + demo_race_hispanic
##
## Parametric coefficients:
##
                              Estimate Std. Error t value Pr(>|t|)
## (Intercept)
                             2.687409
                                       1.026074
                                                  2.619 0.00886 **
                                                  1.355 0.17551
## pds_p_ss_categoryEarly
                             0.194061
                                        0.143214
## pds_p_ss_categoryLate
                             -0.138855
                                       0.837828 -0.166 0.86838
## pds p ss categoryMid
                              0.443593 0.264477
                                                  1.677 0.09361 .
## race.ethnicity.5levelBlack -0.263727
                                        0.433894 -0.608 0.54336
## race.ethnicity.5levelMixed 0.421136
                                        0.432782
                                                  0.973 0.33059
```

race.ethnicity.5levelOther -0.170960

0.488787 -0.350 0.72654

```
## race.ethnicity.5levelWhite 0.322229 0.404845 0.796 0.42614
## interview_age -0.004282 0.007828 -0.547 0.58446
## demo_race_hispanic1 0.252704 0.177898 1.420 0.15557
## ---
## Signif. codes: 0 '***' 0.001 '**' 0.05 '.' 0.1 ' ' 1
##
##
##
## R-sq.(adj) = 0.00332
## lmer.REML = 14480 Scale est. = 6.5953 n = 2845
```

1.7 Model: CBCL Withdrawn-Depressed ~ Pubertal category

Females

pds_p_ss_categoryEarly

```
##
## Family: gaussian
## Link function: identity
## Formula:
## cbcl_scr_syn_withdep_r ~ pds_p_ss_category + race.ethnicity.5level +
##
     interview_age + demo_race_hispanic
##
## Parametric coefficients:
##
                        Estimate Std. Error t value Pr(>|t|)
## (Intercept)
                        0.418975 0.555757 0.754 0.450988
## pds_p_ss_categoryEarly
                        ## pds_p_ss_categoryLate
                        ## pds_p_ss_categoryMid
                        ## race.ethnicity.5levelMixed -0.008629 0.212914 -0.041 0.967677
## race.ethnicity.5levelWhite -0.098009 0.197526 -0.496 0.619808
                        0.003771 0.004484 0.841 0.400526
## interview age
## demo_race_hispanic1
                        0.136455 0.094750 1.440 0.149941
## Signif. codes: 0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
##
## R-sq.(adj) = 0.0074
## lmer.REML = 9902.1 Scale est. = 2.4201
                                     n = 2620
Males
##
## Family: gaussian
## Link function: identity
##
## Formula:
## cbcl_scr_syn_withdep_r ~ pds_p_ss_category + race.ethnicity.5level +
##
     interview_age + demo_race_hispanic
##
## Parametric coefficients:
##
                        Estimate Std. Error t value Pr(>|t|)
## (Intercept)
                        -0.049942   0.605632   -0.082   0.9343
```

```
## pds_p_ss_categoryLate
                           -0.239646 0.496766 -0.482
                                                         0.6296
                            0.423045 0.156482 2.703
                                                        0.0069 **
## pds_p_ss_categoryMid
## race.ethnicity.5levelBlack -0.135176 0.258114 -0.524
                                                        0.6005
## race.ethnicity.5levelMixed 0.030948 0.257723
                                               0.120
                                                        0.9044
## race.ethnicity.5levelOther -0.182826  0.290590  -0.629
                                                        0.5293
## race.ethnicity.5levelWhite -0.186501 0.241083 -0.774
                                                        0.4392
                                                        0.0234 *
## interview age
                            0.010469 0.004617 2.267
## demo_race_hispanic1
                            0.122082 0.104223
                                                1.171
                                                        0.2416
## Signif. codes: 0 '***' 0.001 '**' 0.05 '.' 0.1 ' ' 1
##
## R-sq.(adj) = 0.00376
## lmer.REML = 11496 Scale est. = 1.9188
                                          n = 2845
```

1.8 Model: CBCL Depressed DSM-5 ~ Pubertal category

```
## Family: gaussian
## Link function: identity
##
## Formula:
## cbcl_scr_dsm5_depress_r ~ pds_p_ss_category + race.ethnicity.5level +
##
      interview_age + demo_race_hispanic
##
## Parametric coefficients:
##
                              Estimate Std. Error t value Pr(>|t|)
                             0.9682718  0.6476525  1.495  0.1350
## (Intercept)
## pds_p_ss_categoryEarly
                             0.0097474 0.1012280 0.096
                                                          0.9233
                             0.3158399 0.2422368 1.304
                                                          0.1924
## pds_p_ss_categoryLate
## pds_p_ss_categoryMid
                             0.2210179 0.0934547 2.365
                                                           0.0181 *
## race.ethnicity.5levelBlack -0.0494567 0.2494354 -0.198
                                                          0.8428
## race.ethnicity.5levelMixed 0.2280100 0.2501254 0.912
                                                          0.3621
## race.ethnicity.5levelOther 0.0302076 0.2888797
                                                    0.105
                                                            0.9167
## race.ethnicity.5levelWhite 0.1336232 0.2316532 0.577
                                                            0.5641
## interview_age
                            -0.0004703 0.0052282 -0.090
                                                          0.9283
## demo_race_hispanic1
                             0.1124883 0.1114040 1.010 0.3127
## ---
## Signif. codes: 0 '***' 0.001 '**' 0.05 '.' 0.1 ' ' 1
##
##
## R-sq.(adj) = 0.00221
## lmer.REML = 10696 Scale est. = 2.3302
                                            n = 2620
Males
## Family: gaussian
## Link function: identity
##
## Formula:
## cbcl_scr_dsm5_depress_r ~ pds_p_ss_category + race.ethnicity.5level +
##
      interview_age + demo_race_hispanic
```

```
##
## Parametric coefficients:
##
                            Estimate Std. Error t value Pr(>|t|)
                           0.321584 0.702747 0.458
                                                       0.6473
## (Intercept)
## pds_p_ss_categoryEarly
                            0.204077
                                     0.098249
                                               2.077
                                                       0.0379 *
## pds_p_ss_categoryLate
                            ## pds_p_ss_categoryMid
                            0.224454 0.181432 1.237
                                                       0.2161
## race.ethnicity.5levelBlack -0.015673  0.300551 -0.052
                                                       0.9584
                                               0.709
## race.ethnicity.5levelMixed 0.212696 0.299914
                                                       0.4783
## race.ethnicity.5levelOther -0.245720
                                      0.337777 -0.727
                                                       0.4670
## race.ethnicity.5levelWhite -0.001727
                                      0.280616 -0.006
                                                       0.9951
## interview_age
                            0.008072
                                      0.005351
                                               1.508
                                                       0.1316
## demo_race_hispanic1
                            0.140084
                                      0.122081
                                               1.147
                                                       0.2513
## Signif. codes: 0 '***' 0.001 '**' 0.05 '.' 0.1 ' ' 1
##
##
## R-sq.(adi) = 0.00154
## lmer.REML = 12334 Scale est. = 2.3659
                                         n = 2845
```

1.9 Model: CBCL internalizing factor ~ Testosterone

```
## Family: gaussian
## Link function: identity
##
## Formula:
## cbcl_scr_syn_internal_r ~ hormone_scr_ert_mean + race.ethnicity.5level +
      interview age + demo race hispanic
##
## Parametric coefficients:
##
                             Estimate Std. Error t value Pr(>|t|)
## (Intercept)
                            -0.855385 1.866170 -0.458 0.64673
                             0.006203 0.007005
                                                  0.886 0.37597
## hormone_scr_ert_mean
## race.ethnicity.5levelBlack 0.064913 0.725607
                                                  0.089 0.92872
## race.ethnicity.5levelMixed 1.367192 0.731022
                                                 1.870 0.06157 .
## race.ethnicity.5levelOther 0.392609
                                        0.848930 0.462 0.64378
                                                 1.595 0.11078
## race.ethnicity.5levelWhite 1.077302
                                       0.675310
                             0.039194
                                      0.015051
                                                 2.604 0.00927 **
## interview_age
## demo_race_hispanic1
                             0.175791
                                        0.333089
                                                 0.528 0.59771
## ---
## Signif. codes: 0 '***' 0.001 '**' 0.05 '.' 0.1 ' ' 1
##
##
## R-sq.(adj) = 0.0054
## lmer.REML = 14907 Scale est. = 17.56
                                        n = 2409
Males
##
```

```
##
## Family: gaussian
## Link function: identity
##
```

```
## Formula:
## cbcl_scr_syn_internal_r ~ hormone_scr_ert_mean + race.ethnicity.5level +
      interview age + demo race hispanic
##
## Parametric coefficients:
##
                            Estimate Std. Error t value Pr(>|t|)
## (Intercept)
                            3.497010 1.870733 1.869 0.0617 .
## hormone_scr_ert_mean
                            0.011693 0.007561 1.546
                                                        0.1221
## race.ethnicity.5levelBlack -0.566671 0.807140 -0.702
                                                        0.4827
## race.ethnicity.5levelMixed 0.336170 0.806112 0.417
                                                        0.6767
## race.ethnicity.5levelOther -0.691495
                                      0.905567 -0.764
                                                        0.4452
## race.ethnicity.5levelWhite 0.031784 0.753966 0.042
                                                        0.9664
                                                0.681
## interview_age
                            0.009765
                                     0.014342
                                                        0.4960
## demo_race_hispanic1
                            0.489737
                                      0.331109 1.479
                                                        0.1392
## ---
## Signif. codes: 0 '***' 0.001 '**' 0.05 '.' 0.1 ' ' 1
##
##
## R-sq.(adj) = 0.000425
## lmer.REML = 16473 Scale est. = 14.451
                                          n = 2641
1.10 Model: CBCL Anxious-Depressed ~ Testosterone
Females
```

Family: gaussian

Link function: identity

```
##
## Family: gaussian
## Link function: identity
##
## Formula:
## cbcl scr syn anxdep r ~ hormone scr ert mean + race.ethnicity.5level +
##
      interview_age + demo_race_hispanic
## Parametric coefficients:
##
                             Estimate Std. Error t value Pr(>|t|)
## (Intercept)
                             0.174384 1.042465 0.167 0.8672
## hormone_scr_ert_mean
                             0.001262 0.003915 0.322
                                                          0.7473
## race.ethnicity.5levelBlack -0.114074  0.402044 -0.284
                                                         0.7766
## race.ethnicity.5levelMixed 0.830810
                                       0.405722 2.048
                                                          0.0407 *
                                       0.471554 0.479
## race.ethnicity.5levelOther 0.225983
                                                          0.6318
                                                 1.620
## race.ethnicity.5levelWhite 0.606919 0.374555
                                                          0.1053
## interview_age
                             0.014736
                                       0.008431
                                                 1.748
                                                          0.0806 .
                             0.043874
                                       0.183674 0.239
                                                          0.8112
## demo_race_hispanic1
## ---
## Signif. codes: 0 '***' 0.001 '**' 0.05 '.' 0.1 ' ' 1
##
##
## R-sq.(adj) = 0.00894
## lmer.REML = 12117 Scale est. = 6.9666
                                           n = 2409
Males
```

```
##
## Formula:
## cbcl_scr_syn_anxdep_r ~ hormone_scr_ert_mean + race.ethnicity.5level +
##
      interview_age + demo_race_hispanic
## Parametric coefficients:
                           Estimate Std. Error t value Pr(>|t|)
                           2.938380 1.041999 2.820 0.00484 **
## (Intercept)
                       0.005993 0.004206
## hormone_scr_ert_mean
                                              1.425 0.15428
## race.ethnicity.5levelBlack -0.251594 0.444704 -0.566 0.57161
## race.ethnicity.5levelMixed 0.301570 0.444474
                                              0.678 0.49752
## race.ethnicity.5levelOther -0.102131 0.500944 -0.204 0.83846
                                               0.776 0.43770
## race.ethnicity.5levelWhite 0.322479 0.415462
## interview_age
                           -0.007270 0.008017 -0.907 0.36457
                           ## demo_race_hispanic1
## ---
## Signif. codes: 0 '***' 0.001 '**' 0.05 '.' 0.1 ' ' 1
##
##
## R-sq.(adj) = 0.00303
## lmer.REML = 13394 Scale est. = 5.9318
                                         n = 2641
```

1.11 Model: CBCL Withdrawn-Depressed ~ Testosterone

Females

```
##
## Family: gaussian
## Link function: identity
##
## Formula:
## cbcl_scr_syn_withdep_r ~ hormone_scr_ert_mean + race.ethnicity.5level +
      interview_age + demo_race_hispanic
##
## Parametric coefficients:
                            Estimate Std. Error t value Pr(>|t|)
##
## (Intercept)
                            -0.049692 0.560922 -0.089
                                                          0.9294
                             0.004957 0.002102 2.358
## hormone_scr_ert_mean
                                                          0.0184 *
## race.ethnicity.5levelBlack -0.124909 0.215595 -0.579
                                                          0.5624
## race.ethnicity.5levelMixed 0.034579 0.217293
                                                 0.159
                                                          0.8736
## race.ethnicity.5levelOther -0.058102   0.252429   -0.230   0.8180
## race.ethnicity.5levelWhite -0.055997 0.200812 -0.279
                                                          0.7804
## interview_age
                             0.007040
                                        0.004534 1.553
                                                          0.1207
## demo_race_hispanic1
                             0.159992
                                        0.098448
                                                 1.625
                                                          0.1043
## ---
## Signif. codes: 0 '***' 0.001 '**' 0.05 '.' 0.1 ' ' 1
##
## R-sq.(adj) = 0.00293
## lmer.REML = 9138.4 Scale est. = 2.3918
                                           n = 2409
Males
```

##
Family: gaussian

```
## Link function: identity
##
## Formula:
## cbcl_scr_syn_withdep_r ~ hormone_scr_ert_mean + race.ethnicity.5level +
      interview_age + demo_race_hispanic
##
## Parametric coefficients:
                             Estimate Std. Error t value Pr(>|t|)
##
## (Intercept)
                             -0.123559 0.621293 -0.199
                                                          0.8424
                             0.005209 0.002507 2.078
                                                          0.0378 *
## hormone_scr_ert_mean
## race.ethnicity.5levelBlack -0.119226  0.266151 -0.448
                                                          0.6542
## race.ethnicity.5levelMixed -0.005024 0.266320 -0.019
                                                          0.9850
## race.ethnicity.5levelOther -0.127196 0.299928 -0.424
                                                          0.6715
## race.ethnicity.5levelWhite -0.197090 0.248907 -0.792
                                                          0.4285
## interview_age
                             0.010391
                                        0.004781
                                                 2.173
                                                          0.0298 *
## demo_race_hispanic1
                             0.071573
                                        0.107510
                                                 0.666
                                                          0.5056
## Signif. codes: 0 '***' 0.001 '**' 0.05 '.' 0.1 ' ' 1
##
##
## R-sq.(adj) = 0.00152
## lmer.REML = 10679 Scale est. = 1.9215
1.12 Model: CBCL Depressed DSM-5 \sim Testosterone
Females
##
## Family: gaussian
## Link function: identity
##
## Formula:
## cbcl_scr_dsm5_depress_r ~ hormone_scr_ert_mean + race.ethnicity.5level +
##
      interview_age + demo_race_hispanic
##
## Parametric coefficients:
                             Estimate Std. Error t value Pr(>|t|)
## (Intercept)
                                                0.560
                             0.365180 0.652083
                                                          0.576
## hormone_scr_ert_mean
                             0.001599 0.002453
                                                  0.652
                                                          0.514
## race.ethnicity.5levelBlack 0.049492 0.252355
                                                0.196
                                                          0.845
## race.ethnicity.5levelMixed 0.266956 0.254911
                                                  1.047
                                                          0.295
## race.ethnicity.5levelOther 0.068762 0.296312 0.232
                                                          0.817
## race.ethnicity.5levelWhite 0.187339
                                     0.235156 0.797
                                                          0.426
## interview age
                             0.004566
                                      0.005274
                                                  0.866
                                                          0.387
## demo_race_hispanic1
                             0.105591
                                       0.115240
                                                  0.916
                                                          0.360
##
```

Males

##

##
Family: gaussian
Link function: identity

R-sq.(adj) = -0.000791

lmer.REML = 9868.9 Scale est. = 2.3706

n = 2409

```
##
## Formula:
## cbcl_scr_dsm5_depress_r ~ hormone_scr_ert_mean + race.ethnicity.5level +
      interview_age + demo_race_hispanic
##
## Parametric coefficients:
                             Estimate Std. Error t value Pr(>|t|)
                                                  0.733
## (Intercept)
                             0.523536 0.713803
                                                           0.463
                                                 1.372
## hormone_scr_ert_mean
                             0.003956 0.002884
                                                           0.170
                                                0.004
## race.ethnicity.5levelBlack 0.001248 0.307496
                                                         0.997
## race.ethnicity.5levelMixed 0.137961
                                        0.307427
                                                  0.449
                                                         0.654
## race.ethnicity.5levelOther -0.193303
                                       0.345621 -0.559
                                                          0.576
## race.ethnicity.5levelWhite -0.029246 0.287443 -0.102 0.919
                             0.006097
                                       0.005482
## interview_age
                                                 1.112 0.266
                             0.097970 0.124996 0.784 0.433
## demo_race_hispanic1
##
##
## R-sq.(adj) = -0.000291
## lmer.REML = 11406 Scale est. = 2.2006
                                           n = 2641
```

1.13 Model: CBCL internalizing factor ~ Testosterone + PDS

Females

Family: gaussian

Link function: identity

```
## Family: gaussian
## Link function: identity
## Formula:
## cbcl_scr_syn_internal_r ~ hormone_scr_ert_mean + PDS_score +
      race.ethnicity.5level + interview_age + demo_race_hispanic
## Parametric coefficients:
                            Estimate Std. Error t value Pr(>|t|)
##
## (Intercept)
                            0.342413 1.871973 0.183
                                                        0.855
## hormone_scr_ert_mean
                           -0.001808 0.007142 -0.253
                                                        0.800
## PDS_score
                            ## race.ethnicity.5levelBlack -0.448141
                                      0.728585 -0.615
                                                      0.539
                                      0.727651
## race.ethnicity.5levelMixed 1.191085
                                               1.637
                                                      0.102
## race.ethnicity.5levelOther
                           0.282552
                                      0.844386
                                               0.335
                                                       0.738
                                               1.481
                                                      0.139
## race.ethnicity.5levelWhite 0.995086
                                     0.671704
## interview_age
                            0.020778
                                      0.015411
                                               1.348
                                                      0.178
                                      0.331259 0.492
                                                      0.623
## demo_race_hispanic1
                            0.163060
## Signif. codes: 0 '***' 0.001 '**' 0.05 '.' 0.1 ' ' 1
##
##
## R-sq.(adj) = 0.0147
## lmer.REML = 14884 Scale est. = 17.835
                                          n = 2409
Males
```

```
##
## Formula:
## cbcl_scr_syn_internal_r ~ hormone_scr_ert_mean + PDS_score +
      race.ethnicity.5level + interview_age + demo_race_hispanic
##
## Parametric coefficients:
                              Estimate Std. Error t value Pr(>|t|)
                              3.451178 1.866662
## (Intercept)
                                                  1.849 0.064592 .
## hormone_scr_ert_mean
                              0.008712 0.007594
                                                  1.147 0.251378
## PDS_score
                              0.720533 0.207643
                                                  3.470 0.000529 ***
## race.ethnicity.5levelBlack -0.870505
                                        0.810331 -1.074 0.282806
                                                  0.385 0.700099
## race.ethnicity.5levelMixed 0.309933
                                        0.804542
## race.ethnicity.5levelOther -0.725556 0.903798 -0.803 0.422171
## race.ethnicity.5levelWhite 0.036561
                                        0.752452
                                                 0.049 0.961250
                              0.003236
                                        0.014435
                                                 0.224 0.822623
## interview_age
## demo_race_hispanic1
                              0.450071
                                        0.330475
                                                  1.362 0.173349
## Signif. codes: 0 '***' 0.001 '**' 0.05 '.' 0.1 ' ' 1
##
##
## R-sq.(adj) = 0.00371
## lmer.REML = 16462 Scale est. = 14.337
```

1.14 Model: CBCL internalizing factor ~ Testosterone + Pubertal category

```
##
## Family: gaussian
## Link function: identity
##
## Formula:
## cbcl_scr_syn_internal_r ~ hormone_scr_ert_mean + pds_p_ss_category +
      race.ethnicity.5level + interview_age + demo_race_hispanic
##
##
## Parametric coefficients:
##
                               Estimate Std. Error t value Pr(>|t|)
## (Intercept)
                              0.8557681 1.9228693 0.445
                                                            0.6563
## hormone_scr_ert_mean
                              0.0003425 0.0071332
                                                    0.048
                                                            0.9617
## pds_p_ss_categoryEarly
                              0.3933989 0.3005232
                                                    1.309
                                                            0.1906
## pds_p_ss_categoryLate
                              0.8687929 0.7326478 1.186
                                                            0.2358
## pds_p_ss_categoryMid
                              1.1166251 0.2832008 3.943 8.28e-05 ***
## race.ethnicity.5levelBlack -0.3133195 0.7296392 -0.429
                                                            0.6677
## race.ethnicity.5levelMixed 1.2366700 0.7289531
                                                    1.697
                                                            0.0899 .
## race.ethnicity.5levelOther 0.3206729 0.8459695
                                                    0.379
                                                            0.7047
## race.ethnicity.5levelWhite 1.0239192 0.6728981
                                                    1.522
                                                            0.1282
## interview_age
                              0.0225179 0.0157527
                                                    1.429
                                                            0.1530
                                                    0.305
                                                           0.7601
## demo race hispanic1
                              0.1015637 0.3326217
## ---
## Signif. codes: 0 '***' 0.001 '**' 0.05 '.' 0.1 ' ' 1
##
##
## R-sq.(adj) = 0.0109
## lmer.REML = 14892 Scale est. = 18.205
                                            n = 2409
```

Males

```
##
## Family: gaussian
## Link function: identity
##
## Formula:
## cbcl_scr_syn_internal_r ~ hormone_scr_ert_mean + pds_p_ss_category +
##
      race.ethnicity.5level + interview_age + demo_race_hispanic
##
## Parametric coefficients:
##
                              Estimate Std. Error t value Pr(>|t|)
## (Intercept)
                              3.795727 1.871851
                                                  2.028
                                                           0.0427 *
## hormone_scr_ert_mean
                              0.009975
                                        0.007577
                                                  1.316
                                                           0.1882
## pds_p_ss_categoryEarly
                              0.583489
                                        0.266090
                                                  2.193
                                                           0.0284 *
## pds_p_ss_categoryLate
                              1.747408
                                         1.765071
                                                   0.990
                                                           0.3223
## pds_p_ss_categoryMid
                                       0.487741
                                                  2.234
                                                           0.0256 *
                              1.089616
## race.ethnicity.5levelBlack -0.795951
                                         0.810672 -0.982
                                                           0.3263
## race.ethnicity.5levelMixed 0.375724
                                                  0.466
                                        0.805812
                                                           0.6411
## race.ethnicity.5levelOther -0.702173
                                         0.904864 - 0.776
                                                           0.4378
                                                           0.8709
## race.ethnicity.5levelWhite 0.122598
                                         0.754067
                                                    0.163
## interview_age
                              0.005787
                                         0.014398
                                                    0.402
                                                           0.6878
                                                  1.295
## demo_race_hispanic1
                              0.429175
                                         0.331409
                                                           0.1954
## Signif. codes: 0 '***' 0.001 '**' 0.05 '.' 0.1 ' ' 1
##
##
## R-sq.(adj) = 0.00197
## lmer.REML = 16461 Scale est. = 14.342
                                             n = 2641
```

1.15 Model: CBCL Anxious-Depressed ~ Testosterone + PDS

```
##
## Family: gaussian
## Link function: identity
##
## Formula:
## cbcl_scr_syn_anxdep_r ~ hormone_scr_ert_mean + PDS_score + race.ethnicity.5level +
##
      interview_age + demo_race_hispanic
##
## Parametric coefficients:
##
                             Estimate Std. Error t value Pr(>|t|)
## (Intercept)
                             0.676640 1.047992 0.646 0.518566
## hormone_scr_ert_mean
                            ## PDS_score
                                                 3.827 0.000133 ***
                             0.362799 0.094795
## race.ethnicity.5levelBlack -0.330779
                                        0.404838 -0.817 0.413973
## race.ethnicity.5levelMixed 0.756457
                                        0.404897
                                                 1.868 0.061846 .
## race.ethnicity.5levelOther
                            0.179155
                                        0.470212
                                                 0.381 0.703230
## race.ethnicity.5levelWhite 0.571167
                                        0.373553
                                                  1.529 0.126393
## interview_age
                             0.007008
                                        0.008648
                                                  0.810 0.417827
                             0.037785
                                                 0.206 0.836600
## demo_race_hispanic1
                                        0.183185
## Signif. codes: 0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
```

```
##
##
## R-sq.(adj) = 0.0135
## lmer.REML = 12105 Scale est. = 7.04
                                          n = 2409
Males
##
## Family: gaussian
## Link function: identity
##
## Formula:
## cbcl_scr_syn_anxdep_r ~ hormone_scr_ert_mean + PDS_score + race.ethnicity.5level +
##
      interview_age + demo_race_hispanic
##
## Parametric coefficients:
                            Estimate Std. Error t value Pr(>|t|)
                            ## (Intercept)
                                       0.004227
                                                1.109 0.26764
## hormone_scr_ert_mean
                            0.004687
                                                2.748 0.00603 **
## PDS_score
                            0.318151 0.115770
## race.ethnicity.5levelBlack -0.382221   0.446820   -0.855   0.39239
                                                0.661 0.50893
## race.ethnicity.5levelMixed 0.293315 0.444019
## race.ethnicity.5levelOther -0.114117 0.500420 -0.228 0.81963
## race.ethnicity.5levelWhite 0.327767 0.415026
                                                0.790 0.42974
## interview_age
                            -0.010149
                                      0.008075 -1.257 0.20892
## demo_race_hispanic1
                            0.178208 0.181776
                                                0.980 0.32699
## Signif. codes: 0 '***' 0.001 '**' 0.05 '.' 0.1 ' ' 1
##
## R-sq.(adj) = 0.00501
## lmer.REML = 13389 Scale est. = 5.8896
                                          n = 2641
```

1.16 Model: CBCL Anxious-Depressed ~ Testosterone + Pubertal category

```
##
## Family: gaussian
## Link function: identity
##
## Formula:
## cbcl_scr_syn_anxdep_r ~ hormone_scr_ert_mean + pds_p_ss_category +
      race.ethnicity.5level + interview_age + demo_race_hispanic
##
## Parametric coefficients:
##
                               Estimate Std. Error t value Pr(>|t|)
## (Intercept)
                              0.7791112 1.0755659 0.724
                                                            0.4689
                             -0.0008758 0.0039961 -0.219
                                                            0.8266
## hormone_scr_ert_mean
                              0.2297358 0.1685985
## pds_p_ss_categoryEarly
                                                   1.363
                                                           0.1731
## pds_p_ss_categoryLate
                              0.1807508 0.4105624 0.440
                                                           0.6598
## pds p ss categoryMid
                             0.4386130 0.1584967 2.767
                                                           0.0057 **
## race.ethnicity.5levelBlack -0.2448288 0.4053385 -0.604
                                                           0.5459
## race.ethnicity.5levelMixed 0.7824490 0.4055146
                                                    1.930
                                                            0.0538 .
## race.ethnicity.5levelOther 0.1977192 0.4709500 0.420
                                                            0.6746
```

```
## race.ethnicity.5levelWhite 0.5875329 0.3741000
                                          1.571
                                                 0.1164
                        0.0085612 0.0088298 0.970
                                                0.3324
## interview_age
                                               0.9219
## demo race hispanic1
                        0.0180341 0.1839019 0.098
## ---
## Signif. codes: 0 '***' 0.001 '**' 0.05 '.' 0.1 ' ' 1
##
##
## R-sq.(adj) = 0.0106
## lmer.REML = 12113 Scale est. = 7.0992
                                    n = 2409
Males
##
## Family: gaussian
## Link function: identity
##
## Formula:
## cbcl_scr_syn_anxdep_r ~ hormone_scr_ert_mean + pds_p_ss_category +
     race.ethnicity.5level + interview_age + demo_race_hispanic
##
## Parametric coefficients:
                        Estimate Std. Error t value Pr(>|t|)
##
## (Intercept)
                        3.048043 1.043566 2.921 0.00352 **
## hormone_scr_ert_mean
                        ## pds_p_ss_categoryEarly
                        0.531286  0.979546  0.542  0.58760
## pds_p_ss_categoryLate
## pds_p_ss_categoryMid
                        ## race.ethnicity.5levelBlack -0.335280 0.447098 -0.750 0.45338
## race.ethnicity.5levelMixed 0.318909 0.444745 0.717 0.47340
0.863 0.38797
## race.ethnicity.5levelWhite 0.359172 0.415972
## interview_age
                       ## demo_race_hispanic1
## ---
## Signif. codes: 0 '***' 0.001 '**' 0.05 '.' 0.1 ' ' 1
##
## R-sq.(adj) = 0.00305
## lmer.REML = 13391 Scale est. = 5.8989
                                    n = 2641
```

1.17 Model: CBCL Withdrawn-Depressed ~ Testosterone + PDS

```
## hormone_scr_ert_mean
                          0.002833 0.002147 1.320
                                                     0.187
                          ## PDS score
## race.ethnicity.5levelMixed -0.008861 0.216562 -0.041
                                                    0.967
## race.ethnicity.5levelOther -0.085080 0.251403 -0.338
                                                    0.735
## race.ethnicity.5levelWhite -0.076689 0.199982 -0.383 0.701
## interview age
                          0.002215 0.004646 0.477 0.634
                                           1.608 0.108
## demo_race_hispanic1
                          0.157482 0.097957
## Signif. codes: 0 '***' 0.001 '**' 0.05 '.' 0.1 ' ' 1
##
## R-sq.(adj) = 0.0106
## lmer.REML = 9123 Scale est. = 2.4126 n = 2409
Males
##
## Family: gaussian
## Link function: identity
## Formula:
## cbcl_scr_syn_withdep_r ~ hormone_scr_ert_mean + PDS_score + race.ethnicity.5level +
     interview_age + demo_race_hispanic
## Parametric coefficients:
##
                          Estimate Std. Error t value Pr(>|t|)
## (Intercept)
                         -0.137632 0.620641 -0.222 0.8245
## hormone_scr_ert_mean
                                   0.002520 1.785 0.0744 .
                         0.004497
## PDS score
                          ## race.ethnicity.5levelBlack -0.191478 0.267557 -0.716 0.4743
## race.ethnicity.5levelMixed -0.010882 0.266133 -0.041 0.9674
## race.ethnicity.5levelOther -0.134493   0.299702   -0.449
                                                    0.6536
## race.ethnicity.5levelWhite -0.195478
                                   0.248720 -0.786
                                                    0.4320
                                   0.004816 1.837
## interview_age
                          0.008849
                                                    0.0663
                          0.061630
                                   0.107403 0.574
## demo_race_hispanic1
                                                    0.5661
## Signif. codes: 0 '***' 0.001 '**' 0.05 '.' 0.1 ' ' 1
##
## R-sq.(adj) = 0.00284
## lmer.REML = 10676 Scale est. = 1.9035
```

1.18 Model: CBCL Withdrawn-Depressed ~ Testosterone + Pubertal category

```
##
## Family: gaussian
## Link function: identity
##
## Formula:
## cbcl_scr_syn_withdep_r ~ hormone_scr_ert_mean + pds_p_ss_category +
## race.ethnicity.5level + interview_age + demo_race_hispanic
##
```

```
## Parametric coefficients:
##
                           Estimate Std. Error t value Pr(>|t|)
## (Intercept)
                          0.003353 0.002144 1.564 0.11788
## hormone_scr_ert_mean
## pds_p_ss_categoryEarly
                           0.047294 0.090456 0.523 0.60113
## pds_p_ss_categoryLate
                           0.402736  0.219935  1.831  0.06720 .
## pds p ss categoryMid
                           0.275000 0.084897 3.239 0.00122 **
## race.ethnicity.5levelBlack -0.231080 0.216989 -1.065 0.28701
## race.ethnicity.5levelMixed 0.003088 0.216906
                                              0.014 0.98864
## race.ethnicity.5levelWhite -0.067910 0.200279 -0.339 0.73458
                                              0.531 0.59564
## interview age
                            0.002517
                                     0.004742
## demo_race_hispanic1
                           0.138990
                                     0.098341
                                              1.413 0.15768
## ---
## Signif. codes: 0 '***' 0.001 '**' 0.05 '.' 0.1 ' ' 1
##
##
## R-sq.(adi) = 0.00763
## lmer.REML = 9133 Scale est. = 2.4228
                                         n = 2409
Males
## Family: gaussian
## Link function: identity
##
## Formula:
## cbcl scr syn withdep r ~ hormone scr ert mean + pds p ss category +
      race.ethnicity.5level + interview_age + demo_race_hispanic
## Parametric coefficients:
##
                            Estimate Std. Error t value Pr(>|t|)
## (Intercept)
                           -0.055526 0.621889 -0.089
                                                       0.9289
## hormone_scr_ert_mean
                           0.004801
                                     0.002513
                                               1.910
                                                       0.0562 .
                                              1.437
## pds_p_ss_categoryEarly
                                     0.088604
                           0.127347
                                                       0.1508
## pds_p_ss_categoryLate
                           0.116890 0.585942 0.199
                                                       0.8419
## pds_p_ss_categoryMid
                           0.370977
                                     0.162537
                                              2.282
                                                       0.0225 *
## race.ethnicity.5levelBlack -0.177132  0.267450 -0.662
                                                       0.5078
## race.ethnicity.5levelMixed 0.012386 0.266325
                                              0.047
                                                      0.9629
## race.ethnicity.5levelOther -0.124521 0.299825 -0.415
                                                       0.6779
## race.ethnicity.5levelWhite -0.167256
                                     0.249048 -0.672
                                                       0.5019
## interview_age
                           0.009404
                                     0.004801
                                              1.959
                                                       0.0503 .
                           0.052396
                                              0.487
## demo_race_hispanic1
                                     0.107585
                                                       0.6263
## Signif. codes: 0 '***' 0.001 '**' 0.05 '.' 0.1 ' ' 1
##
##
## R-sq.(adj) = 0.00264
## lmer.REML = 10677 Scale est. = 1.9113
```

1.19 Model: CBCL Depressed DSM-5 \sim Testosterone + PDS

Females

##

```
## Family: gaussian
## Link function: identity
##
## Formula:
## cbcl_scr_dsm5_depress_r ~ hormone_scr_ert_mean + PDS_score +
      race.ethnicity.5level + interview_age + demo_race_hispanic
##
## Parametric coefficients:
##
                              Estimate Std. Error t value Pr(>|t|)
## (Intercept)
                             ## hormone_scr_ert_mean
                            -0.0002827 0.0025083 -0.113 0.910280
## PDS score
                             0.2031579 0.0595351
                                                   3.412 0.000655 ***
## race.ethnicity.5levelBlack -0.0729058 0.2543140 -0.287 0.774385
## race.ethnicity.5levelMixed 0.2254904 0.2546070 0.886 0.375900
                                                   0.142 0.886986
## race.ethnicity.5levelOther 0.0420331 0.2957283
## race.ethnicity.5levelWhite 0.1675795 0.2346831
                                                   0.714 0.475255
## interview_age
                             0.0002325 0.0054138
                                                   0.043 0.965748
## demo_race_hispanic1
                             0.1023451 0.1149749 0.890 0.373474
## Signif. codes: 0 '***' 0.001 '**' 0.05 '.' 0.1 ' ' 1
##
##
## R-sq.(adj) = 0.00332
## lmer.REML = 9861.1 Scale est. = 2.3708
Males
##
## Family: gaussian
## Link function: identity
##
## Formula:
## cbcl_scr_dsm5_depress_r ~ hormone_scr_ert_mean + PDS_score +
##
      race.ethnicity.5level + interview_age + demo_race_hispanic
##
## Parametric coefficients:
##
                             Estimate Std. Error t value Pr(>|t|)
## (Intercept)
                             0.510692 0.713187
                                                0.716
                                                          0.4740
                             0.003236 0.002900
                                                 1.116
                                                          0.2645
## hormone_scr_ert_mean
## PDS score
                             0.174851
                                       0.079476
                                                 2.200
                                                          0.0279 *
## race.ethnicity.5levelBlack -0.071884
                                       0.309169 -0.233
                                                          0.8162
## race.ethnicity.5levelMixed 0.131821
                                       0.307265
                                                 0.429
                                                          0.6679
## race.ethnicity.5levelOther -0.201359 0.345431 -0.583
                                                          0.5600
## race.ethnicity.5levelWhite -0.027948
                                       0.287272 -0.097
                                                          0.9225
## interview age
                             0.004526
                                       0.005524
                                                 0.819
                                                          0.4127
## demo_race_hispanic1
                             0.088193 0.124879 0.706
                                                          0.4801
## Signif. codes: 0 '***' 0.001 '**' 0.05 '.' 0.1 ' ' 1
##
##
## R-sq.(adi) = 0.000741
## lmer.REML = 11404 Scale est. = 2.1834
                                           n = 2641
```

1.20 Model: CBCL Depressed DSM-5 \sim Testosterone + Pubertal category

```
##
## Family: gaussian
## Link function: identity
##
## Formula:
## cbcl_scr_dsm5_depress_r ~ hormone_scr_ert_mean + pds_p_ss_category +
      race.ethnicity.5level + interview_age + demo_race_hispanic
##
## Parametric coefficients:
##
                              Estimate Std. Error t value Pr(>|t|)
## (Intercept)
                             0.0001381 0.0025021 0.055 0.95599
## hormone_scr_ert_mean
                            0.0492938 0.1055779 0.467 0.64062
## pds_p_ss_categoryEarly
                            0.3461948 0.2572564 1.346 0.17852
## pds_p_ss_categoryLate
## pds_p_ss_categoryMid
                            0.2601191 0.0993877 2.617 0.00892 **
## race.ethnicity.5levelBlack -0.0509616 0.2543593 -0.200 0.84122
## race.ethnicity.5levelMixed 0.2358067 0.2547330 0.926 0.35469
## race.ethnicity.5levelOther 0.0506706 0.2958991 0.171 0.86405
## race.ethnicity.5levelWhite 0.1747582 0.2347990
                                                  0.744 0.45677
                             0.0003926 0.0055252
## interview age
                                                  0.071 0.94335
                            0.0859678 0.1153212 0.745 0.45606
## demo_race_hispanic1
## ---
## Signif. codes: 0 '***' 0.001 '**' 0.05 '.' 0.1 ' ' 1
##
## R-sq.(adj) = 0.00162
## lmer.REML = 9867.4 Scale est. = 2.4144
                                           n = 2409
Males
##
## Family: gaussian
## Link function: identity
##
## Formula:
## cbcl_scr_dsm5_depress_r ~ hormone_scr_ert_mean + pds_p_ss_category +
##
      race.ethnicity.5level + interview_age + demo_race_hispanic
##
## Parametric coefficients:
                             Estimate Std. Error t value Pr(>|t|)
                            0.628650 0.714496 0.880 0.3790
## (Intercept)
                                                1.166
## hormone scr ert mean
                            0.003371
                                     0.002891
                                                         0.2437
## pds_p_ss_categoryEarly
                            0.238266  0.101734  2.342  0.0193 *
## pds_p_ss_categoryLate
                            0.712302 0.674447 1.056
                                                         0.2910
                                       0.186544 0.900
## pds_p_ss_categoryMid
                            0.167840
                                                         0.3683
## race.ethnicity.5levelBlack -0.060758 0.309027 -0.197
                                                         0.8441
## race.ethnicity.5levelMixed 0.138569 0.307469 0.451
                                                         0.6523
## race.ethnicity.5levelOther -0.200015  0.345522 -0.579
                                                         0.5627
## race.ethnicity.5levelWhite -0.009879 0.287631 -0.034
                                                         0.9726
## interview_age
                            0.004783 0.005505
                                                0.869 0.3850
## demo_race_hispanic1
                            0.084709
                                       0.125147 0.677
                                                         0.4985
```

2—Reward~Puberty—

2.1 Model: BIS-BAS-RR \sim PDS

```
## Family: gaussian
## Link function: identity
## Formula:
## bisbas_ss_basm_rr_z ~ PDS_score + interview_age
## Parametric coefficients:
              Estimate Std. Error t value Pr(>|t|)
## (Intercept)
              ## PDS_score
             ## interview_age -0.005045  0.002713 -1.859  0.06310 .
## Signif. codes: 0 '***' 0.001 '**' 0.05 '.' 0.1 ' ' 1
##
##
## R-sq.(adj) = 0.00417
## lmer.REML = 7604.2 Scale est. = 0.75362 n = 2683
Males
##
## Family: gaussian
## Link function: identity
## Formula:
## bisbas_ss_basm_rr_z ~ PDS_score + interview_age
## Parametric coefficients:
##
              Estimate Std. Error t value Pr(>|t|)
## (Intercept)
              ## PDS score
               0.069481 0.032804 2.118 0.0343 *
## interview_age -0.001230  0.002423 -0.508  0.6118
## Signif. codes: 0 '***' 0.001 '**' 0.05 '.' 0.1 ' ' 1
##
##
## R-sq.(adj) = 0.00131
## lmer.REML = 8047.3 Scale est. = 0.7764
                                      n = 2906
```

2.2 Model: Reaction Time ~ PDS

```
##
## Family: gaussian
## Link function: identity
##
## Formula:
## rt_diff_large_neutral_z ~ PDS_score + interview_age
## Parametric coefficients:
                Estimate Std. Error t value Pr(>|t|)
## (Intercept) -0.698797 0.318038 -2.197 0.0281 *
## PDS_score
            0.019366 0.028585 0.678 0.4982
## interview_age 0.005860 0.002754 2.128 0.0335 *
## Signif. codes: 0 '***' 0.001 '**' 0.05 '.' 0.1 ' ' 1
##
## R-sq.(adj) = 0.00183
## lmer.REML = 6057.3 Scale est. = 0.75998 n = 2242
## Family: gaussian
## Link function: identity
## Formula:
## rt_diff_large_small_z ~ PDS_score + interview_age
## Parametric coefficients:
                Estimate Std. Error t value Pr(>|t|)
## (Intercept) -0.5555040 0.3317065 -1.675 0.0941 .
## PDS_score
            0.0009986 0.0298834 0.033
                                            0.9733
## interview_age 0.0047315 0.0028702 1.648 0.0994 .
## Signif. codes: 0 '***' 0.001 '**' 0.05 '.' 0.1 ' ' 1
##
##
## R-sq.(adj) = 0.000456
## lmer.REML = 6221.6 Scale est. = 0.83787 n = 2242
Males
## Family: gaussian
## Link function: identity
##
## Formula:
## rt_diff_large_neutral_z ~ PDS_score + interview_age
##
## Parametric coefficients:
               Estimate Std. Error t value Pr(>|t|)
##
## (Intercept)
               -0.581559 0.302387 -1.923 0.0546.
## PDS_score -0.057182 0.035722 -1.601
                                             0.1096
## interview_age 0.005337 0.002557 2.087 0.0370 *
```

```
## ---
## Signif. codes: 0 '***' 0.001 '**' 0.05 '.' 0.1 ' ' 1
##
## R-sq.(adj) = 0.00226
## lmer.REML = 6209.9 Scale est. = 0.75935 n = 2318
## Family: gaussian
## Link function: identity
##
## Formula:
## rt_diff_large_small_z ~ PDS_score + interview_age
## Parametric coefficients:
                  Estimate Std. Error t value Pr(>|t|)
                 0.0319121 0.2986180 0.107 0.915
## (Intercept)
## PDS_score
             -0.0126889 0.0351299 -0.361
                                                0.718
## interview_age -0.0002895 0.0025251 -0.115
                                                0.909
##
## R-sq.(adj) = -0.000795
## lmer.REML = 6161.9 Scale est. = 0.8291
                                           n = 2318
2.3 Model: Caudate Anticipation ~ PDS
Females
## Family: gaussian
## Link function: identity
##
## Formula:
## caudate_rvsn_ant_z ~ PDS_score + interview_age
## Parametric coefficients:
               Estimate Std. Error t value Pr(>|t|)
## (Intercept) -0.354322 0.315627 -1.123 0.262
## PDS_score
              -0.027115 0.028254 -0.960
                                               0.337
## interview_age 0.003233 0.002729
                                     1.185
                                              0.236
##
##
## R-sq.(adj) = 0.000154
## lmer.REML = 5413.7 Scale est. = 0.73298 n = 2071
Males
##
## Family: gaussian
## Link function: identity
##
## Formula:
## caudate_rvsn_ant_z ~ PDS_score + interview_age
```

Parametric coefficients:

```
## Estimate Std. Error t value Pr(>|t|)
## (Intercept) -0.51255   0.32285 -1.588   0.113
## PDS_score   0.03469   0.03908   0.887   0.375
## interview_age   0.00392   0.00272   1.441   0.150
##
##
##
## R-sq.(adj) =  0.00028
## lmer.REML = 5534.9   Scale est. = 0.81709   n = 2059
```

2.4 Model B: Putamen Anticipation ~ PDS

Females

```
## Family: gaussian
## Link function: identity
##
## Formula:
## putamen_rvsn_ant_z ~ PDS_score + interview_age
## Parametric coefficients:
##
                Estimate Std. Error t value Pr(>|t|)
## (Intercept) -0.492088 0.313014 -1.572
## PDS_score
             -0.010024 0.027981 -0.358
                                               0.720
## interview_age 0.004141 0.002706
                                     1.531
                                               0.126
##
##
## R-sq.(adj) = 0.000294
## lmer.REML = 5384.4 Scale est. = 0.70432 n = 2071
Males
##
## Family: gaussian
## Link function: identity
##
## Formula:
## putamen_rvsn_ant_z ~ PDS_score + interview_age
## Parametric coefficients:
                Estimate Std. Error t value Pr(>|t|)
## (Intercept) -0.359661 0.313801 -1.146
                                               0.252
## PDS_score
               -0.004214 0.038041 -0.111
                                               0.912
## interview_age 0.003216 0.002644 1.217
                                               0.224
##
##
## R-sq.(adj) = -0.000355
```

2.5 Model: Accumbens Anticipation ~ PDS

lmer.REML = 5430 Scale est. = 0.65183 n = 2064

```
##
## Family: gaussian
```

```
## Link function: identity
##
## Formula:
## accumbens_rvsn_ant_z ~ PDS_score + interview_age
## Parametric coefficients:
                Estimate Std. Error t value Pr(>|t|)
              0.1374282 0.2480263 0.554
## (Intercept)
               -0.0319156 0.0221177 -1.443
## PDS score
                                                0.149
## interview_age -0.0006455 0.0021450 -0.301
                                             0.763
##
##
## R-sq.(adj) = 0.000265
## lmer.REML = 4425.7 Scale est. = 0.48435 n = 2066
Males
##
## Family: gaussian
## Link function: identity
## Formula:
## accumbens_rvsn_ant_z ~ PDS_score + interview_age
## Parametric coefficients:
##
                 Estimate Std. Error t value Pr(>|t|)
## (Intercept)
                0.164387 0.253649 0.648
                                               0.517
## PDS score
               0.021930 0.030516 0.719
                                               0.472
## interview_age -0.001572  0.002137 -0.736
                                               0.462
##
##
## R-sq.(adj) = -0.000251
## lmer.REML = 4549.1 Scale est. = 0.43644 n = 2060
2.6 Model: Caudate Feedback ~ PDS
Females
## Family: gaussian
## Link function: identity
##
## Formula:
## caudate_posvsneg_feedback_z ~ PDS_score + interview_age
## Parametric coefficients:
##
                Estimate Std. Error t value Pr(>|t|)
## (Intercept)
               -0.010955 0.309581 -0.035
                                               0.972
## PDS_score
                0.037116 0.027726
                                     1.339
                                               0.181
## interview_age -0.000575  0.002675  -0.215
                                               0.830
##
##
## R-sq.(adj) = -0.000269
## lmer.REML = 5311.2 Scale est. = 0.61773 n = 2067
```

```
Males
```

```
##
## Family: gaussian
## Link function: identity
##
## caudate_posvsneg_feedback_z ~ PDS_score + interview_age
## Parametric coefficients:
                  Estimate Std. Error t value Pr(>|t|)
                -0.0084907 0.3152619 -0.027
## (Intercept)
                                                0.979
## PDS score
                -0.0055288 0.0379833 -0.146
                                                 0.884
## interview_age 0.0002172 0.0026587 0.082
                                                0.935
##
##
## R-sq.(adj) = -0.00096
## lmer.REML = 5454.9 Scale est. = 0.82148 n = 2058
```

2.7 Model: Putamen Feedback ~ PDS

Females

```
## Family: gaussian
## Link function: identity
##
## Formula:
## putamen_posvsneg_feedback_z ~ PDS_score + interview_age
## Parametric coefficients:
                 Estimate Std. Error t value Pr(>|t|)
##
## (Intercept)
                 0.126483 0.305477 0.414
                                                0.679
## PDS_score
                 0.035447
                            0.027397
                                      1.294
                                                0.196
## interview_age -0.001628
                            0.002635 -0.618
                                                0.537
##
## R-sq.(adj) = -0.000225
## lmer.REML = 5245.6 Scale est. = 0.6817
```

Males

accumbens_posvsneg_feedback_z ~ PDS_score + interview_age

Formula:

Link function: identity

Parametric coefficients:

Estimate Std. Error t value Pr(>|t|)
(Intercept) -0.370594 0.241795 -1.533 0.126
PDS_score 0.011952 0.021694 0.551 0.582
interview_age 0.002769 0.002090 1.325 0.185
##
##
##
R-sq.(adj) = 0.000574

lmer.REML = 4288.8 Scale est. = 0.43394 n = 2066

Males

```
## Family: gaussian
## Link function: identity
##
## Formula:
## accumbens_posvsneg_feedback_z ~ PDS_score + interview_age
## Parametric coefficients:
                 Estimate Std. Error t value Pr(>|t|)
## (Intercept) 0.0020213 0.2569941 0.008 0.994
## PDS_score
             -0.0309742 0.0310057 -0.999
                                                0.318
## interview_age 0.0004582 0.0021641 0.212
                                                0.832
##
##
## R-sq.(adj) = -0.000175
## lmer.REML = 4590.2 Scale est. = 0.39554 n = 2063
```

2.9 Model: OFC Anticipation ~ PDS

```
##
## Family: gaussian
## Link function: identity
##
## Formula:
## 10FC_rvsn_ant_z ~ PDS_score + interview_age
##
```

```
## Parametric coefficients:
##
               Estimate Std. Error t value Pr(>|t|)
## (Intercept) 0.0801892 0.2006050 0.400 0.689
## PDS_score
            -0.0171588 0.0180734 -0.949
                                              0.343
## interview_age -0.0004233 0.0017341 -0.244 0.807
##
##
## R-sq.(adj) = -0.000415
## lmer.REML = 3499.7 Scale est. = 0.31577 n = 2058
##
## Family: gaussian
## Link function: identity
##
## Formula:
## mOFC_rvsn_ant_z ~ PDS_score + interview_age
## Parametric coefficients:
                Estimate Std. Error t value Pr(>|t|)
               0.203967 0.231252 0.882 0.3779
## (Intercept)
## PDS score
               ## interview_age -0.001062  0.001998 -0.531  0.5952
## Signif. codes: 0 '***' 0.001 '**' 0.05 '.' 0.1 ' ' 1
##
##
## R-sq.(adj) = 0.00257
## lmer.REML = 4086.2 Scale est. = 0.41983 n = 2059
Males
##
## Family: gaussian
## Link function: identity
## Formula:
## 10FC_rvsn_ant_z ~ PDS_score + interview_age
## Parametric coefficients:
               Estimate Std. Error t value Pr(>|t|)
## (Intercept) -0.430299 0.218848 -1.966 0.0494 *
## PDS score
               0.028632
                          0.026701
                                   1.072
                                          0.2837
## interview_age 0.003009 0.001844
                                   1.632 0.1028
## Signif. codes: 0 '***' 0.001 '**' 0.05 '.' 0.1 ' ' 1
##
##
## R-sq.(adj) = 0.0015
## lmer.REML = 3904.8 Scale est. = 0.3435
                                          n = 2050
##
## Family: gaussian
## Link function: identity
## Formula:
```

```
## mOFC_rvsn_ant_z ~ PDS_score + interview_age
##
## Parametric coefficients:
               Estimate Std. Error t value Pr(>|t|)
## (Intercept) -0.182563 0.248071 -0.736
## PDS score
            0.061647
                          0.030155 2.044
                                             0.041 *
## interview_age 0.000624
                          0.002093
                                    0.298
                                             0.766
## ---
## Signif. codes: 0 '***' 0.001 '**' 0.05 '.' 0.1 ' ' 1
##
##
## R-sq.(adj) = 0.00218
## lmer.REML = 4452.2 Scale est. = 0.44504 n = 2056
```

2.10 Model: OFC Feedback ~ PDS

Females

```
##
## Family: gaussian
## Link function: identity
##
## Formula:
## 10FC_posvsneg_feedback_z ~ PDS_score + interview_age
## Parametric coefficients:
                  Estimate Std. Error t value Pr(>|t|)
                 0.0625161 0.1799161 0.347
                                                0.728
## (Intercept)
                                      0.526
## PDS score
                 0.0085022 0.0161609
                                                0.599
## interview_age -0.0009009 0.0015555 -0.579
                                              0.563
##
##
## R-sq.(adj) = -0.000829
## lmer.REML = 3071.4 Scale est. = 0.25421 n = 2067
## Family: gaussian
## Link function: identity
## Formula:
## mOFC_posvsneg_feedback_z ~ PDS_score + interview_age
##
## Parametric coefficients:
                  Estimate Std. Error t value Pr(>|t|)
## (Intercept) -0.0059040 0.2119441 -0.028 0.978
## PDS_score
              0.0043212 0.0190101
                                      0.227
                                                0.820
## interview_age -0.0002242 0.0018349 -0.122 0.903
##
##
## R-sq.(adj) = -0.000935
## lmer.REML = 3789.9 Scale est. = 0.33159 n = 2071
```

Males

##

```
## Family: gaussian
## Link function: identity
## Formula:
## 10FC_posvsneg_feedback_z ~ PDS_score + interview_age
## Parametric coefficients:
                Estimate Std. Error t value Pr(>|t|)
##
## (Intercept)
               -0.143264 0.190247 -0.753 0.452
## PDS_score -0.018364 0.023129 -0.794
                                              0.427
## interview_age 0.001470 0.001604 0.917 0.359
##
##
## R-sq.(adj) = -0.000382
## lmer.REML = 3342.5 Scale est. = 0.22175 n = 2049
## Family: gaussian
## Link function: identity
##
## Formula:
## mOFC_posvsneg_feedback_z ~ PDS_score + interview_age
## Parametric coefficients:
                 Estimate Std. Error t value Pr(>|t|)
## (Intercept) -0.0474262 0.2248786 -0.211 0.833
## PDS_score -0.0212195 0.0274023 -0.774 0.439
## interview_age 0.0008927 0.0018959 0.471
                                               0.638
##
##
## R-sq.(adj) = -0.000619
## lmer.REML = 4058.1 Scale est. = 0.32892 n = 2058
```

2.11 Model: Caudate Anticipation ~ Testosterone

```
Males
```

```
##
## Family: gaussian
## Link function: identity
##
## caudate_rvsn_ant_z ~ hormone_scr_ert_mean + interview_age
## Parametric coefficients:
                      Estimate Std. Error t value Pr(>|t|)
## (Intercept)
                      -0.265880 0.329964 -0.806
## hormone_scr_ert_mean -0.001295  0.001466 -0.883
                                                    0.377
## interview_age 0.002638 0.002788 0.946 0.344
##
##
## R-sq.(adj) = -0.000405
## lmer.REML = 5139.7 Scale est. = 0.7996
                                          n = 1917
```

2.12 Model B: Putamen Anticipation ~ Testosterone

```
## Family: gaussian
## Link function: identity
## Formula:
## putamen_rvsn_ant_z ~ hormone_scr_ert_mean + interview_age
## Parametric coefficients:
##
                       Estimate Std. Error t value Pr(>|t|)
## (Intercept)
                       -0.381268 0.321834 -1.185 0.236
## hormone_scr_ert_mean -0.000192  0.001245 -0.154
                                                      0.877
## interview_age
                        0.003094
                                  0.002751 1.125
                                                      0.261
##
## R-sq.(adj) = -0.000274
## lmer.REML = 4931.4 Scale est. = 0.67821 n = 1905
Males
```

```
## Family: gaussian
## Link function: identity
## Formula:
## putamen_rvsn_ant_z ~ hormone_scr_ert_mean + interview_age
## Parametric coefficients:
                       Estimate Std. Error t value Pr(>|t|)
## (Intercept)
                      -0.328190 0.324440 -1.012 0.312
## hormone_scr_ert_mean -0.002314  0.001445 -1.601  0.110
                       0.003511 0.002741 1.281 0.200
## interview_age
##
```

```
##
## R-sq.(adj) = 0.000406
## lmer.REML = 5069.1 Scale est. = 0.59871 n = 1917
```

2.13 Model: Accumbens Anticipation \sim Testosterone

Females

```
## Family: gaussian
## Link function: identity
## Formula:
## accumbens_rvsn_ant_z ~ hormone_scr_ert_mean + interview_age
## Parametric coefficients:
##
                       Estimate Std. Error t value Pr(>|t|)
## (Intercept)
                      0.0999811 0.2558527 0.391 0.696
## hormone scr ert mean -0.0004158 0.0009888 -0.421 0.674
                      -0.0006720 0.0021883 -0.307 0.759
## interview_age
##
##
## R-sq.(adj) = -0.000894
## lmer.REML = 4060.6 Scale est. = 0.4233 n = 1901
Males
## Family: gaussian
## Link function: identity
##
## Formula:
## accumbens_rvsn_ant_z ~ hormone_scr_ert_mean + interview_age
## Parametric coefficients:
##
                       Estimate Std. Error t value Pr(>|t|)
## (Intercept) 0.2111383 0.2607896 0.810 0.418
## hormone_scr_ert_mean -0.0004254 0.0011640 -0.365
                                                     0.715
## interview_age -0.0015779 0.0022026 -0.716
                                                     0.474
##
## R-sq.(adj) = -0.000889
## lmer.REML = 4223.1 Scale est. = 0.43027 n = 1911
```

2.14 Model: Caudate Feedback ~ Testosterone

```
##
## Family: gaussian
## Link function: identity
##
## Formula:
## caudate_posvsneg_feedback_z ~ hormone_scr_ert_mean + interview_age
##
```

```
## Parametric coefficients:
##
                       Estimate Std. Error t value Pr(>|t|)
## Estimate Std. Error t value Pro
## (Intercept) -0.0884340 0.3173849 -0.279
## hormone_scr_ert_mean 0.0003856 0.0012260 0.315
                                                     0.753
## interview_age
                       0.0004997 0.0027122 0.184
                                                     0.854
##
##
## R-sq.(adj) = -0.000963
## lmer.REML = 4849 Scale est. = 0.59772 n = 1901
Males
##
## Family: gaussian
## Link function: identity
##
## Formula:
## caudate_posvsneg_feedback_z ~ hormone_scr_ert_mean + interview_age
## Parametric coefficients:
                       Estimate Std. Error t value Pr(>|t|)
                      -0.057344 0.325006 -0.176 0.860
## (Intercept)
## hormone_scr_ert_mean -0.002196  0.001429 -1.537
                                                    0.124
## interview_age 0.001097 0.002750 0.399
                                                    0.690
##
##
## R-sq.(adj) = 0.000205
## lmer.REML = 5077.2 Scale est. = 0.82507 n = 1910
2.15 Model: Putamen Feedback ~ Testosterone
Females
## Family: gaussian
## Link function: identity
## Formula:
## putamen_posvsneg_feedback_z ~ hormone_scr_ert_mean + interview_age
##
## Parametric coefficients:
##
                       Estimate Std. Error t value Pr(>|t|)
## (Intercept)
                       ## hormone_scr_ert_mean 0.000457 0.001207 0.379
                                                    0.705
                      -0.001756 0.002664 -0.659
## interview_age
                                                    0.510
##
##
## R-sq.(adj) = -0.00103
## lmer.REML = 4789.3 Scale est. = 0.65976 n = 1904
Males
## Family: gaussian
## Link function: identity
```

```
##
## Formula:
## putamen_posvsneg_feedback_z ~ hormone_scr_ert_mean + interview_age
## Parametric coefficients:
##
                     Estimate Std. Error t value Pr(>|t|)
## (Intercept)
                  0.261878 0.322810 0.811 0.4173
-0.001233 0.002719 -0.454 0.6502
## interview_age
## Signif. codes: 0 '***' 0.001 '**' 0.05 '.' 0.1 ' ' 1
##
##
## R-sq.(adj) = 0.000965
## lmer.REML = 5030.8 Scale est. = 0.76058 n = 1915
2.16 Model: Accumbens Feedback ~ Testosterone
Females
##
## Family: gaussian
## Link function: identity
##
## Formula:
## accumbens_posvsneg_feedback_z ~ hormone_scr_ert_mean + interview_age
## Parametric coefficients:
##
                       Estimate Std. Error t value Pr(>|t|)
                     -3.609e-01 2.501e-01 -1.443 0.149
## (Intercept)
## hormone_scr_ert_mean 8.766e-06 9.658e-04 0.009
                                                   0.993
                     2.914e-03 2.136e-03 1.365
## interview_age
                                                   0.173
##
## R-sq.(adj) = 0.000316
## lmer.REML = 3943.2 Scale est. = 0.42807 n = 1900
Males
##
## Family: gaussian
## Link function: identity
## Formula:
## accumbens_posvsneg_feedback_z ~ hormone_scr_ert_mean + interview_age
## Parametric coefficients:
##
                      Estimate Std. Error t value Pr(>|t|)
## (Intercept)
                     0.0113639 0.2639875 0.043
                                                   0.966
## hormone_scr_ert_mean -0.0014010 0.0011774 -1.190
                                                   0.234
## interview_age
                     0.0003557 0.0022244 0.160
                                                   0.873
##
##
## R-sq.(adj) = 0.000143
## lmer.REML = 4259.2 Scale est. = 0.44133 n = 1917
```

2.17 Model: OFC Anticipation ~ Testosterone

```
##
## Family: gaussian
## Link function: identity
##
## Formula:
## 10FC_rvsn_ant_z ~ hormone_scr_ert_mean + interview_age
## Parametric coefficients:
                       Estimate Std. Error t value Pr(>|t|)
## (Intercept) 0.1368392 0.2063384 0.663 0.5073
## hormone_scr_ert_mean 0.0015863 0.0007966 1.991 0.0466 *
## interview_age -0.0015929 0.0017624 -0.904 0.3662
## ---
## Signif. codes: 0 '***' 0.001 '**' 0.05 '.' 0.1 ' ' 1
##
## R-sq.(adj) = 0.00096
## lmer.REML = 3200.9 Scale est. = 0.31099 n = 1894
## Family: gaussian
## Link function: identity
## Formula:
## mOFC_rvsn_ant_z ~ hormone_scr_ert_mean + interview_age
## Parametric coefficients:
                      Estimate Std. Error t value Pr(>|t|)
## (Intercept) 0.3449714 0.2392035 1.442 0.149
## hormone_scr_ert_mean 0.0012793 0.0009213 1.389
                                                    0.165
## interview_age -0.0033111 0.0020421 -1.621
                                                    0.105
##
##
## R-sq.(adj) = 0.000847
## lmer.REML = 3751.8 Scale est. = 0.41513 n = 1895
Males
## Family: gaussian
## Link function: identity
##
## Formula:
## 10FC_rvsn_ant_z ~ hormone_scr_ert_mean + interview_age
## Parametric coefficients:
##
                      Estimate Std. Error t value Pr(>|t|)
## (Intercept) -0.3826899 0.2248618 -1.702 0.0889 .
## hormone_scr_ert_mean -0.0015432  0.0009996  -1.544  0.1228
## interview_age 0.0033213 0.0018982 1.750 0.0803 .
## ---
## Signif. codes: 0 '***' 0.001 '**' 0.05 '.' 0.1 ' ' 1
```

```
##
##
## R-sq.(adj) = 0.000365
## lmer.REML = 3627.8 Scale est. = 0.33829 n = 1904
##
## Family: gaussian
## Link function: identity
## Formula:
## mOFC_rvsn_ant_z ~ hormone_scr_ert_mean + interview_age
## Parametric coefficients:
##
                         Estimate Std. Error t value Pr(>|t|)
## (Intercept)
                       -0.0728577 0.2544480 -0.286
## hormone_scr_ert_mean -0.0001526  0.0011250  -0.136
                                                        0.892
                        0.0004157 0.0021526 0.193
## interview_age
                                                        0.847
##
##
## R-sq.(adj) = -0.00112
## lmer.REML = 4121.9 Scale est. = 0.43941 n = 1908
```

2.18 Model: OFC Feedback ~ Testosterone

```
##
## Family: gaussian
## Link function: identity
## Formula:
## 10FC_posvsneg_feedback_z ~ hormone_scr_ert_mean + interview_age
## Parametric coefficients:
                        Estimate Std. Error t value Pr(>|t|)
##
## (Intercept)
                        0.0322220 0.1817395 0.177 0.8593
## hormone_scr_ert_mean 0.0015346 0.0007027
                                                    0.0291 *
                                              2.184
## interview_age
                      -0.0009299 0.0015530 -0.599 0.5494
## Signif. codes: 0 '***' 0.001 '**' 0.05 '.' 0.1 ' ' 1
##
##
## R-sq.(adj) = 0.0016
## lmer.REML = 2743.8 Scale est. = 0.24369 n = 1900
##
## Family: gaussian
## Link function: identity
##
## Formula:
## mOFC_posvsneg_feedback_z ~ hormone_scr_ert_mean + interview_age
## Parametric coefficients:
##
                        Estimate Std. Error t value Pr(>|t|)
## (Intercept)
                       -0.0399194 0.2172604 -0.184
## hormone_scr_ert_mean 0.0013479 0.0008409 1.603
                                                       0.109
```

```
## interview_age
                      -0.0002294 0.0018584 -0.123
                                                      0.902
##
##
## R-sq.(adj) = 0.000333
## lmer.REML = 3456 Scale est. = 0.34165 n = 1905
Males
##
## Family: gaussian
## Link function: identity
## Formula:
## 10FC_posvsneg_feedback_z ~ hormone_scr_ert_mean + interview_age
## Parametric coefficients:
##
                        Estimate Std. Error t value Pr(>|t|)
                      -0.1116692 0.1963288 -0.569
## (Intercept)
                                                     0.570
## hormone_scr_ert_mean -0.0002585 0.0008706 -0.297
                                                      0.767
## interview_age 0.0010542 0.0016611
                                             0.635
                                                      0.526
##
## R-sq.(adj) = -0.000795
## lmer.REML = 3122.1 Scale est. = 0.22577 n = 1902
## Family: gaussian
## Link function: identity
##
## Formula:
## mOFC_posvsneg_feedback_z ~ hormone_scr_ert_mean + interview_age
## Parametric coefficients:
##
                        Estimate Std. Error t value Pr(>|t|)
## (Intercept)
                      -0.0222175 0.2304648 -0.096 0.923
## hormone_scr_ert_mean -0.0006656 0.0010204 -0.652
                                                      0.514
## interview_age
                    0.0005767 0.0019502 0.296
                                                      0.767
##
##
## R-sq.(adj) = -0.000841
## lmer.REML = 3753.5 Scale est. = 0.34369 n = 1908
2.19 Model: MID Reaction Time ~ Testosterone
Females
## Family: gaussian
## Link function: identity
```

rt_diff_large_neutral_z ~ hormone_scr_ert_mean + interview_age

##

Formula:

Parametric coefficients:

Estimate Std. Error t value Pr(>|t|)

```
0.330741 -2.255
## (Intercept)
                      -0.745679
                                                   0.0243 *
## hormone_scr_ert_mean -0.001240  0.001287 -0.963  0.3356
                                 0.002830 2.428 0.0153 *
## interview age 0.006871
## ---
## Signif. codes: 0 '***' 0.001 '**' 0.05 '.' 0.1 ' ' 1
##
##
## R-sq.(adj) = 0.00207
## lmer.REML = 5624.2 Scale est. = 0.7694
                                          n = 2069
##
## Family: gaussian
## Link function: identity
##
## Formula:
## rt_diff_large_small_z ~ hormone_scr_ert_mean + interview_age
## Parametric coefficients:
                      Estimate Std. Error t value Pr(>|t|)
                     ## (Intercept)
## hormone_scr_ert_mean -0.001082  0.001339  -0.808
                                                 0.4190
## interview_age
                      0.004932 0.002942 1.677 0.0938 .
## Signif. codes: 0 '***' 0.001 '**' 0.05 '.' 0.1 ' ' 1
##
##
## R-sq.(adj) = 0.000468
## lmer.REML = 5768.8 Scale est. = 0.86809 n = 2069
Males
##
## Family: gaussian
## Link function: identity
## Formula:
## rt_diff_large_neutral_z ~ hormone_scr_ert_mean + interview_age
## Parametric coefficients:
##
                      Estimate Std. Error t value Pr(>|t|)
## (Intercept)
                      -0.531773   0.311599   -1.707   0.0880 .
## hormone_scr_ert_mean -0.001336
                                0.001371 -0.974
                                                   0.3301
                                0.002638
## interview_age
                      0.004643
                                          1.760
                                                 0.0785 .
## Signif. codes: 0 '***' 0.001 '**' 0.05 '.' 0.1 ' ' 1
##
##
## R-sq.(adj) = 0.00114
## lmer.REML = 5800.8 Scale est. = 0.74475 n = 2162
##
## Family: gaussian
## Link function: identity
## Formula:
```

```
## rt_diff_large_small_z ~ hormone_scr_ert_mean + interview_age
##
## Parametric coefficients:
##
                        Estimate Std. Error t value Pr(>|t|)
## (Intercept)
                      -0.0460410 0.3083255 -0.149 0.881
## hormone_scr_ert_mean -0.0013774  0.0013440 -1.025
                                                      0.306
## interview age
                       0.0005507 0.0026125 0.211
                                                      0.833
##
##
## R-sq.(adj) = -0.000438
## lmer.REML = 5771.3 Scale est. = 0.83547 n = 2162
2.20 Model: BIS-BAS-RR \sim Testosterone
Females
##
## Family: gaussian
## Link function: identity
##
## Formula:
## bisbas_ss_basm_rr_z ~ hormone_scr_ert_mean + interview_age
## Parametric coefficients:
##
                        Estimate Std. Error t value Pr(>|t|)
## (Intercept)
                       0.3730767 0.3251233 1.147 0.251
## hormone_scr_ert_mean 0.0006881 0.0012723 0.541
                                                      0.589
                      -0.0037271 0.0027748 -1.343
                                                      0.179
## interview_age
##
##
## R-sq.(adj) = 0.000906
## lmer.REML = 6993.2 Scale est. = 0.78969 n = 2467
Males
##
## Family: gaussian
## Link function: identity
## Formula:
## bisbas_ss_basm_rr_z ~ hormone_scr_ert_mean + interview_age
## Parametric coefficients:
##
                       Estimate Std. Error t value Pr(>|t|)
## (Intercept)
                       0.017894 0.296012 0.060 0.9518
                                  0.001296 -1.883 0.0598 .
## hormone_scr_ert_mean -0.002440
## interview_age
                       0.001111
                                0.002498 0.445 0.6564
## Signif. codes: 0 '***' 0.001 '**' 0.05 '.' 0.1 ' ' 1
##
```

R-sq.(adj) = -0.000323

lmer.REML = 7480.4 Scale est. = 0.78536 n = 2699

3—Internalizing~Reward—

3.1 Model: CBCL internalizing factor ~ Nucleus Accumbens activity (anticipation stage)

```
Females
```

```
## Family: gaussian
## Link function: identity
## Formula:
## cbcl_scr_syn_internal_r ~ accumbens_rvsn_ant_z + interview_age
## Parametric coefficients:
##
                    Estimate Std. Error t value Pr(>|t|)
## (Intercept)
                    0.93807 1.89253 0.496 0.6202
## interview_age
                     0.03348
                             0.01579 2.120 0.0341 *
## ---
## Signif. codes: 0 '***' 0.001 '**' 0.05 '.' 0.1 ' ' 1
##
## R-sq.(adj) = 0.000946
## lmer.REML = 12780 Scale est. = 15.797 n = 2065
Males
## Family: gaussian
## Link function: identity
##
## Formula:
## cbcl_scr_syn_internal_r ~ accumbens_rvsn_ant_z + interview_age
## Parametric coefficients:
                   Estimate Std. Error t value Pr(>|t|)
## (Intercept)
                 2.66112 1.91239 1.392 0.164
## accumbens_rvsn_ant_z 0.02731 0.16422 0.166
                                                0.868
## interview_age
                     0.01940 0.01592 1.219
                                              0.223
##
##
## R-sq.(adj) = -0.00141
## lmer.REML = 12866 Scale est. = 13.349
                                        n = 2060
```

3.2 Model: CBCL internalizing factor ~ Caudate activity (anticipation stage)

```
##
## Family: gaussian
## Link function: identity
##
## Formula:
## cbcl_scr_syn_internal_r ~ caudate_rvsn_ant_z + interview_age
##
```

```
## Parametric coefficients:
##
                   Estimate Std. Error t value Pr(>|t|)
                    1.23747 1.89544 0.653 0.5139
## (Intercept)
## caudate_rvsn_ant_z 0.03828
                               0.13153 0.291
                                                 0.7710
## interview_age
                    0.03104
                              0.01581 1.963 0.0498 *
## ---
## Signif. codes: 0 '***' 0.001 '**' 0.05 '.' 0.1 ' ' 1
##
##
## R-sq.(adj) = -0.000229
## lmer.REML = 12819 Scale est. = 16.059
                                           n = 2069
Males
##
## Family: gaussian
## Link function: identity
##
## Formula:
## cbcl_scr_syn_internal_r ~ caudate_rvsn_ant_z + interview_age
## Parametric coefficients:
                    Estimate Std. Error t value Pr(>|t|)
                    2.65338 1.91171 1.388 0.165
## (Intercept)
## caudate_rvsn_ant_z 0.15740
                               0.12910 1.219
                                                  0.223
## interview_age
                     0.01980
                               0.01593 1.243
                                                  0.214
##
##
## R-sq.(adj) = -0.000981
## lmer.REML = 12905 Scale est. = 12.492
                                           n = 2065
3.3 Model: CBCL internalizing factor ~ Putamen activity (anticipation stage)
Females
##
## Family: gaussian
## Link function: identity
## Formula:
## cbcl_scr_syn_internal_r ~ putamen_rvsn_ant_z + interview_age
## Parametric coefficients:
                   Estimate Std. Error t value Pr(>|t|)
## (Intercept)
                   1.055560
                             1.894179 0.557 0.5774
                                        0.022
## putamen_rvsn_ant_z 0.002893
                               0.132368
                                                 0.9826
## interview_age
                    0.032556
                              0.015806
                                        2.060 0.0395 *
## Signif. codes: 0 '***' 0.001 '**' 0.05 '.' 0.1 ' ' 1
##
## R-sq.(adj) = -0.000189
## lmer.REML = 12818 Scale est. = 15.798
```

```
Males
##
## Family: gaussian
## Link function: identity
##
## cbcl_scr_syn_internal_r ~ putamen_rvsn_ant_z + interview_age
## Parametric coefficients:
                      Estimate Std. Error t value Pr(>|t|)
## (Intercept)
                      2.826785
                                1.915110
                                            1.476
## putamen_rvsn_ant_z -0.008676
                                 0.133533 -0.065
                                                     0.948
                                                     0.252
## interview_age
                      0.018274
                                0.015955
                                            1.145
##
##
## R-sq.(adj) = -0.00137
## lmer.REML = 12899 Scale est. = 12.555
                                             n = 2064
3.4 Model: CBCL internalizing factor ~ Accumbens activity (feedback stage)
Females
##
## Family: gaussian
## Link function: identity
##
## Formula:
## cbcl_scr_syn_internal_r ~ accumbens_posvsneg_feedback_z + interview_age
## Parametric coefficients:
                                Estimate Std. Error t value Pr(>|t|)
##
## (Intercept)
                                 0.99988
                                            1.89645
                                                      0.527
                                                              0.5981
## accumbens_posvsneg_feedback_z 0.19684
                                            0.17181
                                                      1.146
                                                              0.2521
                                 0.03298
                                            0.01582
                                                      2.085
                                                              0.0372 *
## interview_age
## Signif. codes: 0 '***' 0.001 '**' 0.05 '.' 0.1 ' ' 1
##
## R-sq.(adj) = 0.00028
## lmer.REML = 12781 Scale est. = 15.798
                                             n = 2064
Males
## Family: gaussian
## Link function: identity
##
## Formula:
## cbcl_scr_syn_internal_r ~ accumbens_posvsneg_feedback_z + interview_age
```

3.22030

Estimate Std. Error t value Pr(>|t|)

0.16484 -1.305

1.677

0.0937

0.1920

1.92031

Parametric coefficients:

accumbens_posvsneg_feedback_z -0.21511

(Intercept)

```
## interview_age
                              0.01519 0.01600 0.950 0.3424
## ---
## Signif. codes: 0 '***' 0.001 '**' 0.05 '.' 0.1 ' ' 1
##
## R-sq.(adj) = -0.00061
## lmer.REML = 12898 Scale est. = 13.209
                                         n = 2063
3.5 Model: CBCL internalizing factor ~ Caudate activity (feedback stage)
Females
```

R-sq.(adj) = -0.000312

lmer.REML = 12877 Scale est. = 13.985

```
##
## Family: gaussian
## Link function: identity
## Formula:
## cbcl_scr_syn_internal_r ~ caudate_posvsneg_feedback_z + interview_age
## Parametric coefficients:
##
                              Estimate Std. Error t value Pr(>|t|)
## (Intercept)
                               0.99119
                                       1.89617
                                                  0.523
                                                           0.6012
                                         0.13461 -0.272
## caudate_posvsneg_feedback_z -0.03668
                                                           0.7853
## interview_age
                               0.03312
                                         0.01582
                                                  2.094
                                                           0.0364 *
## Signif. codes: 0 '***' 0.001 '**' 0.05 '.' 0.1 ' ' 1
##
##
## R-sq.(adj) = -0.000154
## lmer.REML = 12789 Scale est. = 15.852
                                            n = 2065
Males
## Family: gaussian
## Link function: identity
## Formula:
## cbcl_scr_syn_internal_r ~ caudate_posvsneg_feedback_z + interview_age
##
## Parametric coefficients:
##
                              Estimate Std. Error t value Pr(>|t|)
## (Intercept)
                               3.24793
                                       1.92088
                                                  1.691
                                                         0.091 .
## caudate_posvsneg_feedback_z -0.15368
                                         0.13267 -1.158
                                                            0.247
                               0.01478
                                                  0.923
## interview_age
                                         0.01601
                                                            0.356
## Signif. codes: 0 '***' 0.001 '**' 0.05 '.' 0.1 ' ' 1
##
##
```

n = 2058

3.6 Model: CBCL internalizing factor ~ Putamen activity (feedback stage)

Females

```
##
## Family: gaussian
## Link function: identity
##
## Formula:
## cbcl_scr_syn_internal_r ~ putamen_posvsneg_feedback_z + interview_age
## Parametric coefficients:
                          Estimate Std. Error t value Pr(>|t|)
## (Intercept)
                           ## interview_age
                           0.03186
                                   0.01582 2.014 0.0442 *
## ---
## Signif. codes: 0 '***' 0.001 '**' 0.05 '.' 0.1 ' ' 1
##
## R-sq.(adj) = 0.000199
## lmer.REML = 12792 Scale est. = 16.215
                                     n = 2065
Males
##
## Family: gaussian
## Link function: identity
## Formula:
## cbcl_scr_syn_internal_r ~ putamen_posvsneg_feedback_z + interview_age
## Parametric coefficients:
                          Estimate Std. Error t value Pr(>|t|)
##
## (Intercept)
                           3.16383 1.91978 1.648 0.0995 .
## putamen_posvsneg_feedback_z -0.03829
                                   0.13449 -0.285
                                                    0.7759
## interview_age
                           0.01554
                                   0.01600 0.972
                                                    0.3313
## Signif. codes: 0 '***' 0.001 '**' 0.05 '.' 0.1 ' ' 1
##
##
## R-sq.(adj) = -0.00122
## lmer.REML = 12912 Scale est. = 14.196
                                       n = 2063
```

3.7 Model: CBCL internalizing factor ~ OFC activity (anticipation stage)

```
##
## Family: gaussian
## Link function: identity
##
## Formula:
## cbcl_scr_syn_internal_r ~ 10FC_rvsn_ant_z + interview_age
##
## Parametric coefficients:
```

```
##
                  Estimate Std. Error t value Pr(>|t|)
## (Intercept)
                   1.00430
                            1.90118 0.528 0.5974
## 10FC rvsn ant z 0.05371
                                     0.258 0.7962
                             0.20796
                  0.03302
                             0.01586
                                     2.082 0.0374 *
## interview_age
## Signif. codes: 0 '***' 0.001 '**' 0.05 '.' 0.1 ' ' 1
##
##
## R-sq.(adj) = -8.98e-05
## lmer.REML = 12736 Scale est. = 15.567
                                          n = 2056
## Family: gaussian
## Link function: identity
##
## Formula:
## cbcl_scr_syn_internal_r ~ mOFC_rvsn_ant_z + interview_age
##
## Parametric coefficients:
                  Estimate Std. Error t value Pr(>|t|)
##
## (Intercept)
                   0.82010
                             1.90148 0.431
                                              0.6663
## mOFC_rvsn_ant_z 0.17691
                             0.17881
                                     0.989 0.3226
## interview_age
                0.03454
                             0.01587 2.177 0.0296 *
## ---
## Signif. codes: 0 '***' 0.001 '**' 0.05 '.' 0.1 ' ' 1
##
##
## R-sq.(adj) = 0.000336
## lmer.REML = 12741 Scale est. = 15.138
                                            n = 2057
Males
##
## Family: gaussian
## Link function: identity
##
## Formula:
## cbcl_scr_syn_internal_r ~ 10FC_rvsn_ant_z + interview_age
##
## Parametric coefficients:
##
                  Estimate Std. Error t value Pr(>|t|)
## (Intercept)
                   2.45026 1.90224 1.288 0.198
## 10FC_rvsn_ant_z -0.12564
                             0.18771 -0.669
                                                0.503
## interview_age
                 0.02112
                             0.01583 1.334
                                                0.182
##
## R-sq.(adj) = -0.00104
## lmer.REML = 12770 Scale est. = 12.306
                                           n = 2050
## Family: gaussian
## Link function: identity
## Formula:
## cbcl_scr_syn_internal_r ~ mOFC_rvsn_ant_z + interview_age
```

```
##
## Parametric coefficients:
##
                  Estimate Std. Error t value Pr(>|t|)
## (Intercept)
                   2.34538
                              1.91032
                                       1.228
                                                 0.220
## mOFC_rvsn_ant_z -0.14308
                              0.16520 -0.866
                                                 0.387
## interview age
                   0.02204
                              0.01591 1.386
                                                 0.166
##
##
## R-sq.(adj) = -0.000983
## lmer.REML = 12829 Scale est. = 12.283
                                             n = 2056
```

3.8 Model: CBCL internalizing factor ~ OFC activity (feedback stage)

```
##
## Family: gaussian
## Link function: identity
##
## Formula:
## cbcl_scr_syn_internal_r ~ 10FC_posvsneg_feedback_z + interview_age
##
## Parametric coefficients:
##
                           Estimate Std. Error t value Pr(>|t|)
## (Intercept)
                            0.98560
                                       1.89246
                                                0.521
                                                         0.6026
## 10FC_posvsneg_feedback_z -0.04673
                                       0.23076 -0.203
                                                         0.8395
## interview_age
                            0.03302
                                       0.01579
                                                 2.091
                                                         0.0366 *
## ---
## Signif. codes: 0 '***' 0.001 '**' 0.05 '.' 0.1 ' ' 1
##
##
## R-sq.(adj) = -0.000146
## lmer.REML = 12779 Scale est. = 16.099
                                             n = 2065
##
## Family: gaussian
## Link function: identity
##
## Formula:
## cbcl_scr_syn_internal_r ~ mOFC_posvsneg_feedback_z + interview_age
## Parametric coefficients:
                           Estimate Std. Error t value Pr(>|t|)
## (Intercept)
                            0.92801
                                       1.89200
                                                0.490
                                                         0.6238
## mOFC_posvsneg_feedback_z 0.20371
                                       0.19485
                                                 1.046
                                                         0.2959
                                       0.01578
                                                 2.129
                                                         0.0334 *
## interview_age
                            0.03360
## ---
## Signif. codes: 0 '***' 0.001 '**' 0.05 '.' 0.1 ' ' 1
##
##
## R-sq.(adj) = 0.000549
## lmer.REML = 12810 Scale est. = 15.903
```

Males

```
##
## Family: gaussian
## Link function: identity
##
## Formula:
## cbcl_scr_syn_internal_r ~ 10FC_posvsneg_feedback_z + interview_age
## Parametric coefficients:
                           Estimate Std. Error t value Pr(>|t|)
##
                                               1.543
## (Intercept)
                            2.96298
                                      1.91995
                                                         0.123
## 10FC_posvsneg_feedback_z 0.15402
                                      0.22167
                                                0.695
                                                         0.487
                            0.01726 0.01599 1.080
                                                         0.280
## interview_age
##
##
## R-sq.(adj) = -0.00137
## lmer.REML = 12794 Scale est. = 13.396
## Family: gaussian
## Link function: identity
## Formula:
## cbcl_scr_syn_internal_r ~ mOFC_posvsneg_feedback_z + interview_age
## Parametric coefficients:
                           Estimate Std. Error t value Pr(>|t|)
##
                            2.91983 1.91198 1.527 0.127
## (Intercept)
## mOFC_posvsneg_feedback_z 0.05625 0.18611 0.302
                                                         0.763
## interview_age
                            0.01763 0.01593 1.107 0.269
##
##
## R-sq.(adj) = -0.00132
## lmer.REML = 12845 Scale est. = 13.43
                                            n = 2058
```

3.9 Model: CBCL internalizing factor ~ BIS-BAS-RR

```
##
## Family: gaussian
## Link function: identity
##
## Formula:
## cbcl_scr_syn_internal_r ~ bisbas_ss_basm_rr + interview_age
## Parametric coefficients:
                    Estimate Std. Error t value Pr(>|t|)
                    1.21645 1.72886 0.704 0.4817
## (Intercept)
## bisbas_ss_basm_rr -0.02712
                               0.04321 -0.628
                                                0.5303
## interview_age
                    0.03358
                               0.01401
                                       2.398 0.0166 *
## ---
## Signif. codes: 0 '***' 0.001 '**' 0.05 '.' 0.1 ' ' 1
##
```

```
##
## R-sq.(adj) = -0.000264
## lmer.REML = 16599 Scale est. = 17.025
                                           n = 2681
Males
##
## Family: gaussian
## Link function: identity
##
## Formula:
## cbcl_scr_syn_internal_r ~ bisbas_ss_basm_rr + interview_age
## Parametric coefficients:
                   Estimate Std. Error t value Pr(>|t|)
## (Intercept)
                     3.03467 1.68960 1.796 0.0726 .
## bisbas_ss_basm_rr -0.06792
                               0.04399 - 1.544
                                                0.1227
## interview_age
                    0.02210
                               0.01370
                                        1.613 0.1068
## Signif. codes: 0 '***' 0.001 '**' 0.05 '.' 0.1 ' ' 1
##
## R-sq.(adj) = -0.000626
## lmer.REML = 18169 Scale est. = 15.591
                                            n = 2906
```

3.10 Model: CBCL internalizing factor ~ MID Reaction Time

```
## Family: gaussian
## Link function: identity
##
## Formula:
## cbcl_scr_syn_internal_r ~ rt_diff_large_neutral_z + interview_age
## Parametric coefficients:
                          Estimate Std. Error t value Pr(>|t|)
##
## (Intercept)
                           0.63889
                                   1.83997 0.347 0.7285
## rt_diff_large_neutral_z 0.10524
                                     0.12066
                                             0.872
                                                       0.3832
## interview age
                           0.03612
                                     0.01535
                                              2.354 0.0187 *
## ---
## Signif. codes: 0 '***' 0.001 '**' 0.05 '.' 0.1 ' ' 1
##
##
## R-sq.(adj) = 0.000301
## lmer.REML = 13881 Scale est. = 16.789
                                            n = 2240
##
## Family: gaussian
## Link function: identity
##
## Formula:
## cbcl_scr_syn_internal_r ~ rt_diff_large_small_z + interview_age
```

```
## Parametric coefficients:
##
                     Estimate Std. Error t value Pr(>|t|)
                      0.64472 1.83859 0.351 0.7259
## (Intercept)
## rt_diff_large_small_z 0.15141 0.11655 1.299 0.1941
## interview_age
                       0.03610
                               0.01533 2.355 0.0186 *
## ---
## Signif. codes: 0 '***' 0.001 '**' 0.05 '.' 0.1 ' ' 1
##
##
## R-sq.(adj) = 0.0007
## lmer.REML = 13880 Scale est. = 16.808 n = 2240
Males
##
## Family: gaussian
## Link function: identity
##
## Formula:
## cbcl_scr_syn_internal_r ~ rt_diff_large_neutral_z + interview_age
## Parametric coefficients:
##
                        Estimate Std. Error t value Pr(>|t|)
                        2.13544 1.80453 1.183
                                                    0.237
## (Intercept)
0.442
                                  0.01503 1.599
## interview_age
                         0.02404
                                                    0.110
##
##
## R-sq.(adj) = -0.00104
## lmer.REML = 14471 Scale est. = 12.033 n = 2318
## Family: gaussian
## Link function: identity
## Formula:
## cbcl_scr_syn_internal_r ~ rt_diff_large_small_z + interview_age
## Parametric coefficients:
##
                      Estimate Std. Error t value Pr(>|t|)
                      2.17720 1.80291 1.208 0.227
## (Intercept)
## rt_diff_large_small_z -0.12580
                                 0.12219 -1.029
                                                  0.303
## interview_age
                       0.02369
                               0.01502 1.577 0.115
##
##
## R-sq.(adj) = -0.000768
## lmer.REML = 14470 Scale est. = 11.987 n = 2318
```

4—Internalizing~Puberty x Reward—

4.1 Model: CBCL internalizing factor \sim PDS x Accumbens activity (anticipation stage)

```
## Family: gaussian
## Link function: identity
## Formula:
## cbcl_scr_syn_internal_r ~ PDS_score * accumbens_rvsn_ant_z +
      race.ethnicity.5level + demo_race_hispanic + interview_age
##
## Parametric coefficients:
##
                               Estimate Std. Error t value Pr(>|t|)
## (Intercept)
                                0.77200
                                          2.04095 0.378
                                                            0.705
## PDS score
                                0.93801
                                          0.17923 5.234 1.84e-07 ***
## accumbens_rvsn_ant_z
                                        0.41196 0.331
                                                          0.740
                                0.13655
## race.ethnicity.5levelBlack
                                          0.79209 -0.393
                                                            0.695
                               -0.31095
## race.ethnicity.5levelMixed
                                                  1.274
                                                          0.203
                               0.99979
                                          0.78464
## race.ethnicity.5levelOther
                                0.31596
                                          0.92933
                                                  0.340
                                                            0.734
## race.ethnicity.5levelWhite
                                          0.72391
                                                  1.579 0.115
                                1.14295
                                          0.35665 0.300 0.764
## demo_race_hispanic1
                                0.10693
## interview_age
                                          0.01658 0.864
                                                            0.388
                                0.01433
## PDS_score:accumbens_rvsn_ant_z -0.21652
                                          0.22244 - 0.973
                                                          0.330
## Signif. codes: 0 '***' 0.001 '**' 0.05 '.' 0.1 ' ' 1
##
##
## R-sq.(adj) = 0.0181
## lmer.REML = 12381 Scale est. = 15.847
                                          n = 2010
Males
## Family: gaussian
## Link function: identity
##
## Formula:
## cbcl_scr_syn_internal_r ~ PDS_score * accumbens_rvsn_ant_z +
      race.ethnicity.5level + demo_race_hispanic + interview_age
##
##
## Parametric coefficients:
##
                                Estimate Std. Error t value Pr(>|t|)
## (Intercept)
                                2.455518 2.163755 1.135 0.256578
                                0.889234 0.243100
## PDS_score
                                                    3.658 0.000261 ***
## accumbens_rvsn_ant_z
                                ## race.ethnicity.5levelBlack
                               -0.384489 0.998857 -0.385 0.700331
## race.ethnicity.5levelMixed
                                0.598120 0.989122 0.605 0.545448
                               -0.775711 1.104137 -0.703 0.482418
## race.ethnicity.5levelOther
## race.ethnicity.5levelWhite
                                0.225982 0.929938 0.243 0.808025
                                ## demo_race_hispanic1
                                0.008367 0.016274 0.514 0.607236
## interview_age
```

```
## Signif. codes: 0 '***' 0.001 '**' 0.05 '.' 0.1 ' ' 1
##
## R-sq.(adj) = 0.00677
## lmer.REML = 12560 Scale est. = 13.505
                                     n = 2014
4.2 Model: CBCL internalizing factor ~ PDS x Caudate activity (anticipation
stage)
Females
##
## Family: gaussian
## Link function: identity
## Formula:
## cbcl_scr_syn_internal_r ~ PDS_score * caudate_rvsn_ant_z + race.ethnicity.5level +
##
     demo_race_hispanic + interview_age
##
## Parametric coefficients:
##
                          Estimate Std. Error t value Pr(>|t|)
                           0.95469 2.03804 0.468 0.6395
## (Intercept)
## PDS score
                          ## caudate_rvsn_ant_z
                          0.79297 -0.310 0.7564
## race.ethnicity.5levelBlack -0.24603
## race.ethnicity.5levelMixed 1.03899 0.78470 1.324 0.1856
## race.ethnicity.5levelOther 0.36634 0.93107 0.393 0.6940
## race.ethnicity.5levelWhite 1.21556 0.72461 1.678 0.0936
## demo_race_hispanic1
                                    0.35622 0.284
                                                  0.7762
                           0.10129
                           0.01267 0.01657 0.765
                                                  0.4444
## interview_age
## PDS_score:caudate_rvsn_ant_z -0.44212
                                  0.18304 -2.415
                                                  0.0158 *
## ---
## Signif. codes: 0 '***' 0.001 '**' 0.05 '.' 0.1 ' ' 1
##
##
## R-sq.(adj) = 0.0188
## lmer.REML = 12417 Scale est. = 16.384 n = 2014
Males
##
## Family: gaussian
## Link function: identity
##
```

```
## race.ethnicity.5levelBlack -0.281789
                                         1.001168 -0.281 0.778386
                                                  0.689 0.491126
## race.ethnicity.5levelMixed 0.683120 0.991977
## race.ethnicity.5levelOther -0.859636 1.106710 -0.777 0.437398
## race.ethnicity.5levelWhite
                              0.294290 0.933555
                                                  0.315 0.752616
## demo_race_hispanic1
                               0.986004
                                        0.380766
                                                   2.590 0.009680 **
## interview age
                               0.009087 0.016287
                                                   0.558 0.576943
## PDS_score:caudate_rvsn_ant_z 0.173998
                                        0.245695
                                                  0.708 0.478913
## ---
## Signif. codes: 0 '***' 0.001 '**' 0.05 '.' 0.1 ' ' 1
##
##
## R-sq.(adj) = 0.00741
## lmer.REML = 12592 Scale est. = 12.577
                                           n = 2018
```

4.3 Model: CBCL internalizing factor ~ PDS x Putamen activity (anticipation stage)

```
## Family: gaussian
## Link function: identity
##
## Formula:
## cbcl_scr_syn_internal_r ~ PDS_score * putamen_rvsn_ant_z + race.ethnicity.5level +
      demo_race_hispanic + interview_age
##
## Parametric coefficients:
##
                               Estimate Std. Error t value Pr(>|t|)
## (Intercept)
                                          2.03719 0.420 0.6745
                                0.85569
## PDS_score
                                          0.17910 5.170 2.57e-07 ***
                                0.92594
## putamen_rvsn_ant_z
                                                   1.525
                                0.51517
                                          0.33779
                                                           0.1274
## race.ethnicity.5levelBlack
                              -0.27463
                                          0.79368 -0.346
                                                           0.7294
## race.ethnicity.5levelMixed
                                1.01544
                                          0.78561
                                                   1.293
                                                           0.1963
## race.ethnicity.5levelOther
                                0.31711
                                          0.93009
                                                    0.341
                                                            0.7332
                                                    1.672
## race.ethnicity.5levelWhite
                                1.21262
                                        0.72506
                                                           0.0946 .
## demo_race_hispanic1
                                0.09662
                                        0.35647
                                                    0.271
                                                           0.7864
## interview_age
                                0.01346
                                          0.01656
                                                    0.813
                                                            0.4164
## PDS_score:putamen_rvsn_ant_z -0.33513
                                          0.18396 -1.822
                                                           0.0686 .
## Signif. codes: 0 '***' 0.001 '**' 0.05 '.' 0.1 ' ' 1
##
##
## R-sq.(adj) = 0.018
## lmer.REML = 12418 Scale est. = 16.013
                                            n = 2014
Males
## Family: gaussian
## Link function: identity
##
## Formula:
## cbcl_scr_syn_internal_r ~ PDS_score * putamen_rvsn_ant_z + race.ethnicity.5level +
      demo_race_hispanic + interview_age
```

```
##
## Parametric coefficients:
##
                              Estimate Std. Error t value Pr(>|t|)
## (Intercept)
                               2.53921
                                          2.16562 1.173 0.241133
## PDS score
                               0.92368
                                          0.24530
                                                    3.765 0.000171 ***
## putamen rvsn ant z
                               0.28357
                                        0.36927 0.768 0.442633
## race.ethnicity.5levelBlack
                              -0.36352
                                        1.00110 -0.363 0.716553
## race.ethnicity.5levelMixed
                               0.67823
                                          0.99153
                                                   0.684 0.494037
## race.ethnicity.5levelOther
                              -0.79158
                                          1.10784 -0.715 0.474986
## race.ethnicity.5levelWhite
                               0.28345
                                          0.93340 0.304 0.761410
## demo_race_hispanic1
                               0.92766
                                          0.37746
                                                    2.458 0.014071 *
## interview_age
                               0.00711
                                          0.01630
                                                    0.436 0.662637
## PDS_score:putamen_rvsn_ant_z -0.23069
                                          0.25278 -0.913 0.361574
## Signif. codes: 0 '***' 0.001 '**' 0.05 '.' 0.1 ' ' 1
##
##
## R-sq.(adi) = 0.0075
## lmer.REML = 12585 Scale est. = 12.574
                                            n = 2017
```

4.4 Model: CBCL internalizing factor ~ PDS x Lateral OFC activity (anticipation stage)

Females

```
## Family: gaussian
## Link function: identity
##
## Formula:
## cbcl_scr_syn_internal_r ~ PDS_score * 10FC_rvsn_ant_z + race.ethnicity.5level +
##
      demo_race_hispanic + interview_age
##
## Parametric coefficients:
##
                             Estimate Std. Error t value Pr(>|t|)
## (Intercept)
                                         2.05077
                                                   0.264
                                                           0.7921
                              0.54072
## PDS score
                              0.88175
                                         0.18133
                                                   4.863 1.25e-06 ***
## 10FC_rvsn_ant_z
                              0.62047
                                         0.49823
                                                   1.245
                                                          0.2132
## race.ethnicity.5levelBlack 0.03954
                                         0.80302
                                                   0.049
                                                           0.9607
## race.ethnicity.5levelMixed 1.30077
                                         0.79355
                                                   1.639 0.1013
## race.ethnicity.5levelOther 0.67842
                                         0.93727
                                                 0.724 0.4693
## race.ethnicity.5levelWhite 1.46816
                                                   2.002
                                                           0.0454 *
                                         0.73318
## demo_race_hispanic1
                              0.08453
                                         0.35856
                                                   0.236
                                                           0.8136
## interview_age
                              0.01455
                                         0.01665
                                                   0.874
                                                           0.3822
## PDS_score:10FC_rvsn_ant_z -0.36763
                                         0.27263 -1.348
                                                           0.1777
## Signif. codes: 0 '***' 0.001 '**' 0.05 '.' 0.1 ' ' 1
##
##
## R-sq.(adj) = 0.0157
## lmer.REML = 12340 Scale est. = 15.727
                                             n = 2001
```

Males

##

```
## Family: gaussian
## Link function: identity
##
## Formula:
## cbcl_scr_syn_internal_r ~ PDS_score * 10FC_rvsn_ant_z + race.ethnicity.5level +
      demo_race_hispanic + interview_age
##
## Parametric coefficients:
##
                          Estimate Std. Error t value Pr(>|t|)
## (Intercept)
                           2.19443 2.15958 1.016 0.30969
## PDS_score
                           0.78739
                                     0.24505
                                             3.213 0.00133 **
                          -0.06796
## 10FC_rvsn_ant_z
                                     0.51328 -0.132 0.89468
## race.ethnicity.5levelMixed 0.67177 0.99634
                                             0.674 0.50024
## race.ethnicity.5levelOther -0.87011 1.10587 -0.787 0.43149
## race.ethnicity.5levelWhite 0.22466
                                     0.93808
                                              0.239 0.81075
## demo_race_hispanic1
                           0.93966
                                     0.37871
                                              2.481 0.01318 *
## interview age
                           0.01162
                                     0.01619
                                              0.718 0.47293
## PDS_score:10FC_rvsn_ant_z -0.05944
                                     0.35126 -0.169 0.86565
## Signif. codes: 0 '***' 0.001 '**' 0.05 '.' 0.1 ' ' 1
##
##
## R-sq.(adj) = 0.00605
## lmer.REML = 12460 Scale est. = 12.451
                                         n = 2003
```

4.5 Model: CBCL internalizing factor \sim PDS x Medial OFC activity (anticipation stage)

```
## Family: gaussian
## Link function: identity
## Formula:
  cbcl_scr_syn_internal_r ~ PDS_score * m0FC_rvsn_ant_z + race.ethnicity.5level +
##
      demo_race_hispanic + interview_age
##
## Parametric coefficients:
                            Estimate Std. Error t value Pr(>|t|)
## (Intercept)
                                       2.04914 0.206 0.8371
                             0.42146
## PDS score
                             0.88874
                                        0.18142 4.899 1.04e-06 ***
## mOFC_rvsn_ant_z
                             0.71722
                                       0.43302 1.656 0.0978
## race.ethnicity.5levelBlack 0.04807
                                       0.80239 0.060 0.9522
## race.ethnicity.5levelMixed 1.30840
                                       0.79473
                                                 1.646 0.0999
                                                 0.741 0.4588
## race.ethnicity.5levelOther 0.69313
                                       0.93547
## race.ethnicity.5levelWhite 1.52006
                                        0.73372 2.072 0.0384 *
                                        0.35818 0.220
## demo_race_hispanic1
                             0.07873
                                                         0.8260
## interview_age
                             0.01508
                                        0.01662
                                                0.907
                                                         0.3645
                                                         0.2212
## PDS_score:mOFC_rvsn_ant_z -0.28976
                                        0.23681 -1.224
## Signif. codes: 0 '***' 0.001 '**' 0.05 '.' 0.1 ' ' 1
```

```
##
## R-sq.(adj) = 0.0171
## lmer.REML = 12345 Scale est. = 15.852
                                         n = 2002
Males
##
## Family: gaussian
## Link function: identity
##
## Formula:
## cbcl_scr_syn_internal_r ~ PDS_score * mOFC_rvsn_ant_z + race.ethnicity.5level +
      demo_race_hispanic + interview_age
##
## Parametric coefficients:
##
                           Estimate Std. Error t value Pr(>|t|)
## (Intercept)
                            2.17056 2.16561
                                              1.002 0.316327
                            0.88367
                                      0.24506 3.606 0.000319 ***
## PDS_score
## mOFC_rvsn_ant_z
                            0.57277
                                      0.42423
                                              1.350 0.177124
## race.ethnicity.5levelBlack -0.35509 1.00926 -0.352 0.725000
## race.ethnicity.5levelMixed 0.60786 0.99944
                                              0.608 0.543123
## race.ethnicity.5levelOther -0.85975 1.11024 -0.774 0.438800
## race.ethnicity.5levelWhite 0.18778 0.94161
                                              0.199 0.841951
## demo_race_hispanic1
                            ## interview_age
                            0.01110 0.01625 0.683 0.494435
## PDS_score:mOFC_rvsn_ant_z -0.56612 0.29454 -1.922 0.054742 .
## Signif. codes: 0 '***' 0.001 '**' 0.05 '.' 0.1 ' ' 1
##
## R-sq.(adj) = 0.0097
## lmer.REML = 12520 Scale est. = 12.473
                                          n = 2010
4.6 Model: CBCL internalizing factor ~ PDS x Accumbens activity (feedback)
Females
##
```

```
## Family: gaussian
## Link function: identity
##
## Formula:
## cbcl_scr_syn_internal_r ~ PDS_score * accumbens_posvsneg_feedback_z +
##
      race.ethnicity.5level + demo_race_hispanic + interview_age
## Parametric coefficients:
##
                                         Estimate Std. Error t value Pr(>|t|)
## (Intercept)
                                         0.732221 2.043733 0.358 0.7202
## PDS_score
                                         0.897986
                                                  0.180161 4.984 6.75e-07
## accumbens_posvsneg_feedback_z
                                         0.258370
                                                   0.434089 0.595 0.5518
## race.ethnicity.5levelBlack
                                       -0.009524 0.801237 -0.012 0.9905
## race.ethnicity.5levelMixed
                                        1.305136 0.792490 1.647
                                                                     0.0997
## race.ethnicity.5levelOther
                                        0.607052 0.933486 0.650 0.5156
                                        1.434905 0.731666 1.961
## race.ethnicity.5levelWhite
                                                                     0.0500
                                         0.086535 0.358899 0.241 0.8095
## demo_race_hispanic1
```

```
## interview age
                                           0.012923
                                                     0.016589
                                                                0.779
                                                                        0.4361
                                                     0.235193 -0.148
## PDS_score:accumbens_posvsneg_feedback_z -0.034845
                                                                        0.8822
## (Intercept)
## PDS score
## accumbens_posvsneg_feedback_z
## race.ethnicity.5levelBlack
## race.ethnicity.5levelMixed
## race.ethnicity.5levelOther
## race.ethnicity.5levelWhite
## demo_race_hispanic1
## interview_age
## PDS_score:accumbens_posvsneg_feedback_z
## Signif. codes: 0 '***' 0.001 '**' 0.05 '.' 0.1 ' ' 1
##
##
## R-sq.(adj) = 0.0162
## lmer.REML = 12385 Scale est. = 15.95
                                            n = 2009
Males
## Family: gaussian
## Link function: identity
##
## Formula:
## cbcl scr syn internal r ~ PDS score * accumbens posvsneg feedback z +
      race.ethnicity.5level + demo_race_hispanic + interview_age
## Parametric coefficients:
##
                                           Estimate Std. Error t value Pr(>|t|)
## (Intercept)
                                                     2.177441 1.322 0.186292
                                          2.878751
                                                     0.244066 3.735 0.000193
## PDS_score
                                          0.911640
## accumbens_posvsneg_feedback_z
                                          0.264996
                                                     0.468717 0.565 0.571888
## race.ethnicity.5levelBlack
                                                     1.012377 -0.432 0.665621
                                         -0.437580
## race.ethnicity.5levelMixed
                                          0.677955
                                                     1.003409
                                                              0.676 0.499340
                                                     1.116987 -0.762 0.446224
## race.ethnicity.5levelOther
                                         -0.851006
## race.ethnicity.5levelWhite
                                          0.273046 0.945801 0.289 0.772846
                                          0.908780 0.377558 2.407 0.016174
## demo_race_hispanic1
                                          ## interview_age
## PDS_score:accumbens_posvsneg_feedback_z -0.369607
                                                     0.335512 -1.102 0.270759
##
## (Intercept)
## PDS score
                                          ***
## accumbens_posvsneg_feedback_z
## race.ethnicity.5levelBlack
## race.ethnicity.5levelMixed
## race.ethnicity.5levelOther
## race.ethnicity.5levelWhite
## demo_race_hispanic1
## interview_age
## PDS_score:accumbens_posvsneg_feedback_z
## ---
```

4.7 Model: CBCL internalizing factor ~ PDS x Caudate activity (feedback)

```
##
## Family: gaussian
## Link function: identity
## Formula:
## cbcl_scr_syn_internal_r ~ PDS_score * caudate_posvsneg_feedback_z +
      race.ethnicity.5level + demo_race_hispanic + interview_age
##
## Parametric coefficients:
##
                                      Estimate Std. Error t value Pr(>|t|)
## (Intercept)
                                       0.79441
                                                  2.04022 0.389
                                                                   0.6970
## PDS_score
                                       0.90585
                                                  0.17932 5.052 4.78e-07 ***
## caudate_posvsneg_feedback_z
                                      -0.56189
                                                  0.33878 -1.659 0.0974
                                      -0.08439
## race.ethnicity.5levelBlack
                                                  0.80103 -0.105 0.9161
## race.ethnicity.5levelMixed
                                       1.21615
                                                  0.79183
                                                          1.536
                                                                  0.1247
## race.ethnicity.5levelOther
                                       0.73161 1.956 0.0506 .
## race.ethnicity.5levelWhite
                                       1.43132
                                       0.15113
                                                  0.35791 0.422
## demo_race_hispanic1
                                                                   0.6729
                                                  0.01655 0.751
                                       0.01242
                                                                   0.4529
## interview_age
                                                 0.18504 1.618 0.1059
## PDS_score:caudate_posvsneg_feedback_z 0.29937
## Signif. codes: 0 '***' 0.001 '**' 0.05 '.' 0.1 ' ' 1
##
## R-sq.(adj) = 0.0173
## lmer.REML = 12390 Scale est. = 15.498
                                           n = 2010
Males
##
## Family: gaussian
## Link function: identity
## Formula:
## cbcl_scr_syn_internal_r ~ PDS_score * caudate_posvsneg_feedback_z +
##
      race.ethnicity.5level + demo_race_hispanic + interview_age
##
## Parametric coefficients:
                                       Estimate Std. Error t value Pr(>|t|)
## (Intercept)
                                       2.976186 2.175613 1.368 0.171473
## PDS_score
                                       0.880627
                                                 0.244980 3.595 0.000333 ***
## caudate posvsneg feedback z
                                       0.228050 0.381493 0.598 0.550053
                                      -0.386586 1.002390 -0.386 0.699786
## race.ethnicity.5levelBlack
                                       0.667064 0.991895
## race.ethnicity.5levelMixed
                                                            0.673 0.501334
## race.ethnicity.5levelOther
                                     -0.864330 1.106582 -0.781 0.434847
```

```
## race.ethnicity.5levelWhite
                                 0.243423 0.934196
                                                  0.261 0.794451
                                 0.911520 0.376542 2.421 0.015576 *
## demo_race_hispanic1
## interview age
                                 0.004248 0.016378
                                                  0.259 0.795363
## Signif. codes: 0 '***' 0.001 '**' 0.05 '.' 0.1 ' ' 1
##
## R-sq.(adj) = 0.00699
## lmer.REML = 12559 Scale est. = 13.907
                                    n = 2010
4.8 Model: CBCL internalizing factor ~ PDS x Putamen activity (feedback)
Females
##
## Family: gaussian
## Link function: identity
```

```
## Formula:
## cbcl_scr_syn_internal_r ~ PDS_score * putamen_posvsneg_feedback_z +
##
      race.ethnicity.5level + demo_race_hispanic + interview_age
##
## Parametric coefficients:
                                   Estimate Std. Error t value Pr(>|t|)
                                             2.03565 0.574
                                                              0.566
## (Intercept)
                                   1.16888
## PDS_score
                                   0.34726 -1.634
## putamen_posvsneg_feedback_z
                                  -0.56731
                                                              0.102
## race.ethnicity.5levelBlack
                                  -0.32326
                                             0.79406 -0.407
                                                              0.684
## race.ethnicity.5levelMixed
                                   1.04020 0.78627 1.323
                                                            0.186
## race.ethnicity.5levelOther
                                  0.28592 0.93012 0.307 0.759
                                   1.21883 0.72519 1.681
## race.ethnicity.5levelWhite
                                                              0.093
## demo_race_hispanic1
                                    0.11739 0.35894 0.327
                                                              0.744
                                    ## interview_age
## PDS_score:putamen_posvsneg_feedback_z 0.28452 0.18772 1.516
                                                              0.130
## ---
## Signif. codes: 0 '***' 0.001 '**' 0.05 '.' 0.1 ' ' 1
##
##
## R-sq.(adj) = 0.0176
## lmer.REML = 12393 Scale est. = 15.793 n = 2010
Males
```

```
## Family: gaussian
## Link function: identity
##
## Formula:
## cbcl_scr_syn_internal_r ~ PDS_score * putamen_posvsneg_feedback_z +
      race.ethnicity.5level + demo_race_hispanic + interview_age
##
## Parametric coefficients:
##
                                          Estimate Std. Error t value Pr(>|t|)
                                          2.938805 2.176406 1.350 0.17707
## (Intercept)
```

```
## PDS score
                               ## putamen_posvsneg_feedback_z
                               ## race.ethnicity.5levelBlack
                              -0.327828 1.003221 -0.327 0.74387
## race.ethnicity.5levelMixed
                              0.695975 0.992645
                                               0.701 0.48330
## race.ethnicity.5levelOther
                              -0.837104
                                      1.107351 -0.756 0.44977
## race.ethnicity.5levelWhite
                               0.273448 0.934434
                                               0.293 0.76983
## demo_race_hispanic1
                               0.857657 0.377115
                                               2.274 0.02306 *
                               0.004621 0.016382
                                               0.282 0.77794
## interview age
## Signif. codes: 0 '***' 0.001 '**' 0.05 '.' 0.1 ' ' 1
##
##
## R-sq.(adj) = 0.00649
## lmer.REML = 12596 Scale est. = 14.374
                                  n = 2015
```

4.9 Model: CBCL internalizing factor ~ PDS x Lateral OFC activity (feedback stage)

```
##
## Family: gaussian
## Link function: identity
##
## Formula:
## cbcl_scr_syn_internal_r ~ PDS_score * 10FC_posvsneg_feedback_z +
      race.ethnicity.5level + demo_race_hispanic + interview_age
##
## Parametric coefficients:
                                     Estimate Std. Error t value Pr(>|t|)
## (Intercept)
                                      0.92701 2.03846 0.455
                                                                    0.649
## PDS_score
                                      0.86852
                                                 0.18074 4.805 1.66e-06 ***
## 10FC_posvsneg_feedback_z
                                     -0.31213
                                                 0.56443 -0.553
                                                                    0.580
## race.ethnicity.5levelBlack
                                     -0.19693
                                                 0.79360 -0.248
                                                                    0.804
## race.ethnicity.5levelMixed
                                                 0.78500 1.260
                                      0.98903
                                                                    0.208
## race.ethnicity.5levelOther
                                      0.28542
                                                 0.92850 0.307
                                                                    0.759
## race.ethnicity.5levelWhite
                                      1.18368
                                                 0.72395 1.635
                                                                    0.102
## demo_race_hispanic1
                                      0.12639
                                                 0.35805 0.353
                                                                    0.724
## interview_age
                                      0.01364
                                                 0.01659 0.822
                                                                   0.411
                                                                   0.566
## PDS_score:10FC_posvsneg_feedback_z 0.17292
                                                 0.30096 0.575
## Signif. codes: 0 '***' 0.001 '**' 0.05 '.' 0.1 ' ' 1
##
##
## R-sq.(adj) = 0.0137
## lmer.REML = 12386 Scale est. = 16.122
                                             n = 2010
Males
## Family: gaussian
## Link function: identity
##
## Formula:
```

```
## cbcl_scr_syn_internal_r ~ PDS_score * 10FC_posvsneg_feedback_z +
##
      race.ethnicity.5level + demo_race_hispanic + interview_age
##
## Parametric coefficients:
##
                                      Estimate Std. Error t value Pr(>|t|)
                                                 2.173804
                                                           1.279 0.200921
## (Intercept)
                                      2.781066
## PDS score
                                                            3.401 0.000684 ***
                                      0.836270 0.245885
## 10FC_posvsneg_feedback_z
                                     -0.033326
                                                 0.566396 -0.059 0.953087
## race.ethnicity.5levelBlack
                                     -0.392572
                                                1.011038 -0.388 0.697846
## race.ethnicity.5levelMixed
                                      0.644283
                                                1.000982
                                                            0.644 0.519876
## race.ethnicity.5levelOther
                                     -0.900011
                                                1.112141 -0.809 0.418462
                                                 0.941656
## race.ethnicity.5levelWhite
                                      0.249360
                                                            0.265 0.791184
## demo_race_hispanic1
                                      0.913767
                                               0.379284
                                                            2.409 0.016078 *
## interview_age
                                                 0.016337
                                      0.006473
                                                            0.396 0.692002
                                                 0.381253
                                                            0.442 0.658580
## PDS_score:10FC_posvsneg_feedback_z 0.168492
## ---
## Signif. codes: 0 '***' 0.001 '**' 0.05 '.' 0.1 ' ' 1
##
##
## R-sq.(adj) = 0.00623
## lmer.REML = 12489 Scale est. = 13.559
                                             n = 2003
```

4.10 Model: CBCL internalizing factor \sim PDS x Medial OFC activity (feedback stage)

```
##
## Family: gaussian
## Link function: identity
## Formula:
## cbcl_scr_syn_internal_r ~ PDS_score * m0FC_posvsneg_feedback_z +
##
      race.ethnicity.5level + demo_race_hispanic + interview_age
##
## Parametric coefficients:
                                     Estimate Std. Error t value Pr(>|t|)
                                                          0.364
## (Intercept)
                                      0.74223
                                                 2.03903
                                                                   0.7159
## PDS_score
                                      0.89080
                                                 0.18011
                                                          4.946 8.21e-07 ***
## mOFC_posvsneg_feedback_z
                                     -0.49262
                                                 0.48540 -1.015
                                                                   0.3103
## race.ethnicity.5levelBlack
                                                 0.80109 0.064
                                      0.05135
                                                                   0.9489
                                                 0.79211 1.613
## race.ethnicity.5levelMixed
                                      1.27777
                                                                   0.1069
## race.ethnicity.5levelOther
                                      0.52956
                                                 0.93373 0.567
                                                                   0.5707
## race.ethnicity.5levelWhite
                                      1.44839
                                                 0.73158 1.980
                                                                   0.0479 *
## demo_race_hispanic1
                                                 0.35804
                                                           0.269
                                                                   0.7882
                                      0.09621
## interview age
                                      0.01285
                                                 0.01655
                                                           0.776
                                                                   0.4377
## PDS_score:mOFC_posvsneg_feedback_z 0.44003
                                                                   0.0890 .
                                                 0.25859
                                                           1.702
## Signif. codes: 0 '***' 0.001 '**' 0.05 '.' 0.1 ' ' 1
##
##
## R-sq.(adj) = 0.0172
## lmer.REML = 12411 Scale est. = 15.619
                                             n = 2014
```

Males

```
##
## Family: gaussian
## Link function: identity
##
## Formula:
## cbcl_scr_syn_internal_r ~ PDS_score * m0FC_posvsneg_feedback_z +
      race.ethnicity.5level + demo_race_hispanic + interview_age
##
## Parametric coefficients:
##
                                     Estimate Std. Error t value Pr(>|t|)
## (Intercept)
                                     2.720835 2.167351
                                                        1.255 0.209490
## PDS score
                                    0.840753 0.244719
                                                         3.436 0.000603 ***
## mOFC_posvsneg_feedback_z
                                   ## race.ethnicity.5levelBlack
                                   -0.413100
                                              1.008785 -0.410 0.682214
## race.ethnicity.5levelMixed
                                    0.683753 0.998355
                                                        0.685 0.493499
## race.ethnicity.5levelOther
                                   -0.865858 1.109137 -0.781 0.435095
## race.ethnicity.5levelWhite
                                                         0.274 0.783884
                                    0.257823 0.939937
## demo_race_hispanic1
                                    0.907199
                                               0.376347
                                                         2.411 0.016019 *
## interview_age
                                                         0.421 0.673917
                                    0.006855
                                               0.016289
## PDS_score:mOFC_posvsneg_feedback_z 0.113739
                                               0.334080
                                                         0.340 0.733549
## Signif. codes: 0 '***' 0.001 '**' 0.05 '.' 0.1 ' ' 1
##
##
## R-sq.(adj) = 0.00642
## lmer.REML = 12540 Scale est. = 13.606
```

4.11 Model: CBCL internalizing factor ~ PDS x BIS-BAS

```
##
## Family: gaussian
## Link function: identity
## Formula:
## cbcl_scr_syn_internal_r ~ PDS_score * bisbas_ss_basm_rr + race.ethnicity.5level +
##
      demo_race_hispanic + interview_age
##
## Parametric coefficients:
##
                              Estimate Std. Error t value Pr(>|t|)
## (Intercept)
                              -0.82007
                                         2.00463 -0.409 0.68251
## PDS_score
                               2.07922
                                          0.54268
                                                  3.831 0.00013 ***
## bisbas_ss_basm_rr
                                          0.10746
                                                  2.092 0.03653 *
                               0.22482
## race.ethnicity.5levelBlack -0.20759
                                          0.71808 -0.289 0.77253
## race.ethnicity.5levelMixed
                              1.23262
                                          0.71707
                                                   1.719 0.08574 .
## race.ethnicity.5levelOther
                               0.33424
                                          0.82728
                                                   0.404 0.68623
## race.ethnicity.5levelWhite
                               0.98373
                                          0.66399
                                                   1.482 0.13858
## demo_race_hispanic1
                               0.25986
                                          0.32109
                                                    0.809 0.41842
                                                    0.953 0.34071
## interview_age
                               0.01402
                                          0.01471
## PDS_score:bisbas_ss_basm_rr -0.14543
                                          0.05856 -2.484 0.01307 *
## Signif. codes: 0 '***' 0.001 '**' 0.05 '.' 0.1 ' ' 1
```

```
##
##
## R-sq.(adj) = 0.0143
## lmer.REML = 16130 Scale est. = 17.079
                                           n = 2613
Males
##
## Family: gaussian
## Link function: identity
##
## Formula:
## cbcl_scr_syn_internal_r ~ PDS_score * bisbas_ss_basm_rr + race.ethnicity.5level +
##
      demo_race_hispanic + interview_age
##
## Parametric coefficients:
                             Estimate Std. Error t value Pr(>|t|)
                              2.48400 2.11797 1.173
## (Intercept)
                                                          0.2410
## PDS_score
                                        0.78208
                                                 1.688
                              1.32053
                                                          0.0914 .
## bisbas_ss_basm_rr
                             0.02346
                                      0.11928
                                                0.197
                                                          0.8441
## race.ethnicity.5levelBlack -0.84910
                                        0.78892 -1.076
                                                          0.2819
## race.ethnicity.5levelMixed
                             0.46370
                                         0.78388
                                                 0.592
                                                          0.5542
## race.ethnicity.5levelOther -0.83182
                                        0.88259 -0.942
                                                          0.3460
                                        0.73341 -0.021 0.9835
## race.ethnicity.5levelWhite -0.01519
## demo_race_hispanic1
                              0.56831
                                        0.32398
                                                 1.754
                                                          0.0795 .
## interview_age
                              0.01157
                                         0.01408
                                                 0.822
                                                          0.4112
## PDS_score:bisbas_ss_basm_rr -0.06676
                                        0.08247 -0.809
                                                          0.4183
## Signif. codes: 0 '***' 0.001 '**' 0.05 '.' 0.1 ' ' 1
##
##
## R-sq.(adj) = 0.00511
## lmer.REML = 17691 Scale est. = 15.855
                                           n = 2830
```

4.12 Model: CBCL internalizing factor \sim PDS x MID reaction time (large reward vs. neutral)

```
## Family: gaussian
## Link function: identity
##
## Formula:
## cbcl_scr_syn_internal_r ~ PDS_score * rt_diff_large_neutral_z +
      race.ethnicity.5level + demo_race_hispanic + interview_age
##
##
## Parametric coefficients:
                                   Estimate Std. Error t value Pr(>|t|)
## (Intercept)
                                    0.95157
                                             1.97175 0.483
                                                                  0.629
                                               0.17495 5.709 1.3e-08 ***
## PDS score
                                    0.99869
                                               0.31251
                                                       0.390
## rt_diff_large_neutral_z
                                    0.12193
                                                                 0.696
                                               0.76669 -0.557
## race.ethnicity.5levelBlack
                                    -0.42743
                                                                  0.577
## race.ethnicity.5levelMixed
                                   0.79385
                                               0.76032 1.044
                                                               0.297
## race.ethnicity.5levelOther
                                   0.29260
                                               0.87738 0.333 0.739
```

```
## race.ethnicity.5levelWhite
                                    0.94302
                                               0.70264
                                                        1.342
                                                                 0.180
## demo_race_hispanic1
                                                                 0.463
                                    0.25469
                                               0.34704
                                                        0.734
                                               0.01609
                                                        0.839
## interview age
                                    0.01350
                                                                 0.402
## PDS_score:rt_diff_large_neutral_z -0.02866
                                                                 0.867
                                               0.17136 -0.167
## Signif. codes: 0 '***' 0.001 '**' 0.05 '.' 0.1 ' ' 1
##
## R-sq.(adj) = 0.0171
                                           n = 2179
## lmer.REML = 13448 Scale est. = 17.055
Males
##
## Family: gaussian
## Link function: identity
## Formula:
## cbcl_scr_syn_internal_r ~ PDS_score * rt_diff_large_neutral_z +
##
      race.ethnicity.5level + demo_race_hispanic + interview_age
## Parametric coefficients:
##
                                   Estimate Std. Error t value Pr(>|t|)
## (Intercept)
                                    2.83647 2.05292 1.382 0.167209
## PDS_score
                                    0.86126
                                               0.22493 3.829 0.000132 ***
                                                       2.372 0.017780 *
## rt_diff_large_neutral_z
                                    0.76378
                                               0.32201
## race.ethnicity.5levelBlack
                                              0.94030 -1.195 0.232250
                                   -1.12357
## race.ethnicity.5levelMixed
                                   -0.12755
                                              0.93527 -0.136 0.891532
## race.ethnicity.5levelOther
                                   -1.39170
                                              1.03455 -1.345 0.178690
## race.ethnicity.5levelWhite
                                   -0.40754
                                               0.87819 -0.464 0.642644
## demo_race_hispanic1
                                    0.70001
                                            0.35802 1.955 0.050681
## interview_age
                                    0.01138
                                               0.01541
                                                       0.738 0.460374
                                               0.22296 -2.819 0.004861 **
## PDS_score:rt_diff_large_neutral_z -0.62851
## Signif. codes: 0 '***' 0.001 '**' 0.05 '.' 0.1 ' ' 1
##
## R-sq.(adj) = 0.00595
## lmer.REML = 14098 Scale est. = 12.135
                                            n = 2262
```

4.13 Model: CBCL internalizing factor \sim PDS x MID reaction time (large vs. small reward)

```
##
## Family: gaussian
## Link function: identity
##
## Formula:
## cbcl_scr_syn_internal_r ~ PDS_score * rt_diff_large_small_z +
## race.ethnicity.5level + demo_race_hispanic + interview_age
##
## Parametric coefficients:
##
Estimate Std. Error t value Pr(>|t|)
```

```
## (Intercept)
                              0.948396
                                       1.969550
                                                0.482
                                                        0.630
## PDS_score
                              0.453
## rt_diff_large_small_z
                              0.131991 0.291413
                                                        0.651
## race.ethnicity.5levelBlack
                             -0.398080 0.766670 -0.519
                                                        0.604
## race.ethnicity.5levelMixed
                              0.822991
                                      0.760405
                                                1.082
                                                        0.279
## race.ethnicity.5levelOther
                              0.318006 0.877059
                                                0.363
                                                        0.717
## race.ethnicity.5levelWhite
                              0.967847 0.702348
                                               1.378
                                                        0.168
## demo_race_hispanic1
                              0.251364
                                      0.346794
                                                0.725
                                                        0.469
## interview age
                              0.013342
                                       0.016080
                                                0.830
                                                        0.407
## PDS_score:rt_diff_large_small_z 0.004203 0.159261
                                                0.026
                                                        0.979
## Signif. codes: 0 '***' 0.001 '**' 0.05 '.' 0.1 ' ' 1
##
## R-sq.(adj) = 0.0176
## lmer.REML = 13448 Scale est. = 17.019
Males
##
## Family: gaussian
## Link function: identity
##
## Formula:
## cbcl_scr_syn_internal_r ~ PDS_score * rt_diff_large_small_z +
     race.ethnicity.5level + demo_race_hispanic + interview_age
##
## Parametric coefficients:
                              Estimate Std. Error t value Pr(>|t|)
##
## (Intercept)
                              3.046734 2.052414 1.484 0.137826
## PDS_score
                              ## rt_diff_large_small_z
                              -1.088601 0.941799 -1.156 0.247855
## race.ethnicity.5levelBlack
## race.ethnicity.5levelMixed
                             -0.155016 0.935945 -0.166 0.868467
## race.ethnicity.5levelOther
                             -1.386062 1.035551 -1.338 0.180876
                             ## race.ethnicity.5levelWhite
## demo_race_hispanic1
                              0.723235 0.358872
                                               2.015 0.043992 *
## interview_age
                              0.009806 0.015408
                                                0.636 0.524558
## Signif. codes: 0 '***' 0.001 '**' 0.05 '.' 0.1 ' ' 1
##
##
## R-sq.(adj) = 0.00522
## lmer.REML = 14102 Scale est. = 12.133
                                      n = 2262
4.14 Model: CBCL internalizing factor ~ Testosterone x Accumbens activity
(anticipation stage) + PDS
Females
##
## Family: gaussian
## Link function: identity
```

##

```
## Formula:
## cbcl_scr_syn_internal_r ~ PDS_score + hormone_scr_ert_mean *
      accumbens_rvsn_ant_z + race.ethnicity.5level + demo_race_hispanic +
##
      interview_age
##
## Parametric coefficients:
                                       Estimate Std. Error t value Pr(>|t|)
                                      -0.181291 2.081064 -0.087 0.93059
## (Intercept)
                                                         5.410 7.13e-08
## PDS score
                                       1.028257
                                                 0.190070
                                      ## hormone_scr_ert_mean
## accumbens_rvsn_ant_z
                                       0.748352  0.395459  1.892  0.05860
                                      -0.489731 0.799326 -0.613 0.54016
## race.ethnicity.5levelBlack
                                                         1.140 0.25441
                                       0.901860 0.791070
## race.ethnicity.5levelMixed
                                       ## race.ethnicity.5levelOther
## race.ethnicity.5levelWhite
                                       1.193196 0.725804 1.644 0.10035
                                       0.059304 0.364861 0.163 0.87090
## demo_race_hispanic1
                                       ## interview_age
## (Intercept)
## PDS_score
                                      ***
## hormone_scr_ert_mean
## accumbens_rvsn_ant_z
## race.ethnicity.5levelBlack
## race.ethnicity.5levelMixed
## race.ethnicity.5levelOther
## race.ethnicity.5levelWhite
## demo_race_hispanic1
## interview_age
## hormone_scr_ert_mean:accumbens_rvsn_ant_z **
## Signif. codes: 0 '***' 0.001 '**' 0.05 '.' 0.1 ' ' 1
##
##
## R-sq.(adj) = 0.0241
## lmer.REML = 11374 Scale est. = 15.52
                                       n = 1850
Males
##
## Family: gaussian
## Link function: identity
##
## Formula:
## cbcl_scr_syn_internal_r ~ PDS_score + hormone_scr_ert_mean *
##
      accumbens_rvsn_ant_z + race.ethnicity.5level + demo_race_hispanic +
##
      interview_age
##
## Parametric coefficients:
##
                                       Estimate Std. Error t value Pr(>|t|)
## (Intercept)
                                       2.731558 2.218974 1.231 0.218479
                                       0.941556 0.257207
                                                          3.661 0.000259
## PDS_score
## hormone_scr_ert_mean
                                       0.011798 0.009054
                                                         1.303 0.192752
                                       ## accumbens_rvsn_ant_z
```

```
## race.ethnicity.5levelBlack
                                           -0.501684 1.041845 -0.482 0.630194
                                            0.431402 1.029140 0.419 0.675128
## race.ethnicity.5levelMixed
## race.ethnicity.5levelOther
                                           -0.752323 1.145798 -0.657 0.511524
                                            0.279589 0.967968 0.289 0.772735
## race.ethnicity.5levelWhite
## demo_race_hispanic1
                                            0.745713 0.391612
                                                                 1.904 0.057037
## interview age
                                            0.003260 0.016842 0.194 0.846545
## hormone_scr_ert_mean:accumbens_rvsn_ant_z -0.006021
                                                       0.012170 -0.495 0.620844
## (Intercept)
## PDS_score
                                            ***
## hormone_scr_ert_mean
## accumbens_rvsn_ant_z
## race.ethnicity.5levelBlack
## race.ethnicity.5levelMixed
## race.ethnicity.5levelOther
## race.ethnicity.5levelWhite
## demo_race_hispanic1
## interview age
## hormone_scr_ert_mean:accumbens_rvsn_ant_z
## Signif. codes: 0 '***' 0.001 '**' 0.05 '.' 0.1 ' ' 1
##
##
## R-sq.(adj) = 0.0058
## lmer.REML = 11641 Scale est. = 12.616
                                            n = 1867
```

4.15 Model: CBCL internalizing factor \sim Testosterone x Caudate activity (anticipation stage) + PDS

```
## Family: gaussian
## Link function: identity
## Formula:
  cbcl_scr_syn_internal_r ~ PDS_score + hormone_scr_ert_mean *
      caudate_rvsn_ant_z + race.ethnicity.5level + demo_race_hispanic +
##
##
      interview_age
##
## Parametric coefficients:
                                          Estimate Std. Error t value Pr(>|t|)
##
## (Intercept)
                                          0.165775 2.091116 0.079 0.9368
## PDS_score
                                         0.995050 0.190494 5.224 1.95e-07
## hormone_scr_ert_mean
                                         -0.002227 0.007845 -0.284 0.7765
                                                   0.306118 1.238 0.2159
## caudate rvsn ant z
                                         0.378963
## race.ethnicity.5levelBlack
                                        -0.474215 0.802532 -0.591 0.5547
## race.ethnicity.5levelMixed
                                         0.913794 0.793343 1.152 0.2495
                                                   0.947244 0.070
## race.ethnicity.5levelOther
                                         0.066373
                                                                      0.9441
## race.ethnicity.5levelWhite
                                          1.221957
                                                    0.728462 1.677
                                                                      0.0936
                                                    0.365429 0.065
## demo_race_hispanic1
                                          0.023850
                                                                      0.9480
## interview age
                                          0.019016
                                                    0.017253 1.102
                                                                      0.2705
## hormone_scr_ert_mean:caudate_rvsn_ant_z -0.009497
                                                    0.007717 -1.231 0.2186
```

```
## (Intercept)
## PDS_score
                                          ***
## hormone_scr_ert_mean
## caudate_rvsn_ant_z
## race.ethnicity.5levelBlack
## race.ethnicity.5levelMixed
## race.ethnicity.5levelOther
## race.ethnicity.5levelWhite
## demo_race_hispanic1
## interview_age
## hormone_scr_ert_mean:caudate_rvsn_ant_z
## Signif. codes: 0 '***' 0.001 '**' 0.05 '.' 0.1 ' ' 1
##
##
## R-sq.(adj) = 0.0196
## lmer.REML = 11425 Scale est. = 16.042
                                            n = 1855
Males
##
## Family: gaussian
## Link function: identity
## Formula:
## cbcl_scr_syn_internal_r ~ PDS_score + hormone_scr_ert_mean *
##
      caudate_rvsn_ant_z + race.ethnicity.5level + demo_race_hispanic +
##
      interview age
##
## Parametric coefficients:
                                          Estimate Std. Error t value Pr(>|t|)
## (Intercept)
                                           2.683096 2.223564 1.207 0.227715
## PDS_score
                                                     0.259708 3.691 0.000229
                                          0.958701
                                                     0.009062 1.306 0.191751
## hormone_scr_ert_mean
                                          0.011834
## caudate_rvsn_ant_z
                                          0.379173
                                                     0.318703 1.190 0.234302
## race.ethnicity.5levelBlack
                                                     1.042708 -0.417 0.676396
                                         -0.435280
## race.ethnicity.5levelMixed
                                          0.504033
                                                     1.029705 0.489 0.624551
                                                     1.145976 -0.705 0.480944
## race.ethnicity.5levelOther
                                         -0.807830
## race.ethnicity.5levelWhite
                                          0.342370 0.969902 0.353 0.724133
                                          ## demo_race_hispanic1
                                          0.003252
## interview age
                                                     0.016889
                                                              0.193 0.847332
## hormone_scr_ert_mean:caudate_rvsn_ant_z -0.008757
                                                     0.009119 -0.960 0.337000
##
## (Intercept)
## PDS score
                                          ***
## hormone_scr_ert_mean
## caudate rvsn ant z
## race.ethnicity.5levelBlack
## race.ethnicity.5levelMixed
## race.ethnicity.5levelOther
## race.ethnicity.5levelWhite
## demo_race_hispanic1
## interview_age
## hormone_scr_ert_mean:caudate_rvsn_ant_z
```

4.16 Model: CBCL internalizing factor \sim Testosterone x Putamen activity (anticipation stage) + PDS

```
##
## Family: gaussian
## Link function: identity
## Formula:
## cbcl_scr_syn_internal_r ~ PDS_score + hormone_scr_ert_mean *
      putamen_rvsn_ant_z + race.ethnicity.5level + demo_race_hispanic +
##
##
      interview_age
##
## Parametric coefficients:
##
                                         Estimate Std. Error t value Pr(>|t|)
## (Intercept)
                                         0.138727 2.090567 0.066 0.9471
## PDS_score
                                        1.010336 0.190694 5.298 1.31e-07
                                       -0.002053 0.007858 -0.261 0.7939
## hormone_scr_ert_mean
                                        0.229449 0.311016 0.738 0.4608
## putamen_rvsn_ant_z
## race.ethnicity.5levelBlack
                                       -0.520634   0.802461   -0.649   0.5166
                                        0.899355 0.793768 1.133 0.2574
## race.ethnicity.5levelMixed
## race.ethnicity.5levelOther
                                        0.009675 0.945429 0.010 0.9918
                                         1.227171 0.728365 1.685 0.0922
## race.ethnicity.5levelWhite
## demo_race_hispanic1
                                         0.017266 0.365130 0.047 0.9623
## interview_age
                                         ## hormone_scr_ert_mean:putamen_rvsn_ant_z -0.006497
                                                   0.007955 -0.817
                                                                     0.4142
## (Intercept)
## PDS_score
## hormone_scr_ert_mean
## putamen_rvsn_ant_z
## race.ethnicity.5levelBlack
## race.ethnicity.5levelMixed
## race.ethnicity.5levelOther
## race.ethnicity.5levelWhite
## demo_race_hispanic1
## interview_age
## hormone scr ert mean:putamen rvsn ant z
## Signif. codes: 0 '***' 0.001 '**' 0.05 '.' 0.1 ' ' 1
##
##
## R-sq.(adj) = 0.0202
## lmer.REML = 11414 Scale est. = 16.009
                                           n = 1853
```

Males

```
##
## Family: gaussian
## Link function: identity
##
## cbcl_scr_syn_internal_r ~ PDS_score + hormone_scr_ert_mean *
     putamen_rvsn_ant_z + race.ethnicity.5level + demo_race_hispanic +
##
     interview_age
##
## Parametric coefficients:
                                   Estimate Std. Error t value Pr(>|t|)
## (Intercept)
                                   2.822472 2.224804 1.269 0.204729
## PDS_score
                                   0.970709 0.260034 3.733 0.000195
                                   0.010804 0.009047 1.194 0.232522
## hormone_scr_ert_mean
## putamen_rvsn_ant_z
                                   ## race.ethnicity.5levelBlack
                                  -0.518482 1.042955 -0.497 0.619158
## race.ethnicity.5levelMixed
                                  0.479308 1.030214 0.465 0.641806
                                   ## race.ethnicity.5levelOther
                                   ## race.ethnicity.5levelWhite
## demo_race_hispanic1
                                   0.002391 0.016902 0.141 0.887499
## interview_age
## (Intercept)
## PDS_score
                                   ***
## hormone_scr_ert_mean
## putamen_rvsn_ant_z
## race.ethnicity.5levelBlack
## race.ethnicity.5levelMixed
## race.ethnicity.5levelOther
## race.ethnicity.5levelWhite
## demo_race_hispanic1
## interview age
## hormone_scr_ert_mean:putamen_rvsn_ant_z
## Signif. codes: 0 '***' 0.001 '**' 0.05 '.' 0.1 ' ' 1
##
##
## R-sq.(adi) = 0.00626
## lmer.REML = 11681 Scale est. = 12.707 n = 1872
```

4.17 Model: CBCL internalizing factor \sim Testosterone x Accumbens activity (feedback stage) + PDS

```
##
## Family: gaussian
## Link function: identity
##
## Formula:
## cbcl_scr_syn_internal_r ~ PDS_score + hormone_scr_ert_mean *
## accumbens_posvsneg_feedback_z + race.ethnicity.5level + demo_race_hispanic +
```

```
##
      interview_age
##
## Parametric coefficients:
                                                     Estimate Std. Error t value
##
## (Intercept)
                                                     -0.190478 2.096649 -0.091
## PDS score
                                                      0.960917 0.191780 5.011
## hormone scr ert mean
                                                     -0.001236 0.007857 -0.157
                                                                          0.397
## accumbens_posvsneg_feedback_z
                                                     0.168432 0.424783
                                                     -0.222052 0.810009 -0.274
## race.ethnicity.5levelBlack
## race.ethnicity.5levelMixed
                                                     1.183490 0.799554
                                                                          1.480
## race.ethnicity.5levelOther
                                                      0.317332 0.947940
                                                                          0.335
                                                      1.453078 0.734562
## race.ethnicity.5levelWhite
                                                                           1.978
## demo_race_hispanic1
                                                      0.014620 0.368046 0.040
                                                      0.020263 0.017274
## interview_age
                                                                           1.173
## hormone_scr_ert_mean:accumbens_posvsneg_feedback_z 0.001104
                                                                 0.010674 0.103
##
                                                     Pr(>|t|)
## (Intercept)
                                                       0.9276
## PDS score
                                                     5.95e-07 ***
## hormone_scr_ert_mean
                                                       0.8750
## accumbens posvsneg feedback z
                                                       0.6918
## race.ethnicity.5levelBlack
                                                       0.7840
## race.ethnicity.5levelMixed
                                                       0.1390
## race.ethnicity.5levelOther
                                                       0.7378
## race.ethnicity.5levelWhite
                                                       0.0481 *
                                                       0.9683
## demo race hispanic1
## interview age
                                                       0.2409
## hormone_scr_ert_mean:accumbens_posvsneg_feedback_z
                                                       0.9177
## Signif. codes: 0 '***' 0.001 '**' 0.05 '.' 0.1 ' ' 1
##
##
## R-sq.(adj) = 0.0194
## lmer.REML = 11378 Scale est. = 16.001
                                           n = 1848
Males
## Family: gaussian
## Link function: identity
## Formula:
## cbcl_scr_syn_internal_r ~ PDS_score + hormone_scr_ert_mean *
      accumbens_posvsneg_feedback_z + race.ethnicity.5level + demo_race_hispanic +
##
##
      interview_age
##
## Parametric coefficients:
                                                       Estimate Std. Error
## (Intercept)
                                                      3.2093646 2.2321742
                                                      0.9702666 0.2581040
## PDS_score
                                                      0.0097531 0.0090674
## hormone_scr_ert_mean
## accumbens_posvsneg_feedback_z
                                                     -0.3649853 0.4096384
                                                     -0.5738801 1.0575576
## race.ethnicity.5levelBlack
## race.ethnicity.5levelMixed
                                                      0.4784749 1.0451087
## race.ethnicity.5levelOther
                                                     -0.9241075 1.1587736
```

```
0.2600827 0.9856752
## race.ethnicity.5levelWhite
## demo_race_hispanic1
                                                      0.7865190 0.3919504
## interview age
                                                      0.0000917 0.0169152
## hormone_scr_ert_mean:accumbens_posvsneg_feedback_z 0.0056884 0.0120614
                                                     t value Pr(>|t|)
## (Intercept)
                                                       1.438 0.150666
## PDS score
                                                       3.759 0.000176 ***
## hormone_scr_ert_mean
                                                       1.076 0.282233
## accumbens posvsneg feedback z
                                                      -0.891 0.373048
## race.ethnicity.5levelBlack
                                                      -0.543 0.587438
## race.ethnicity.5levelMixed
                                                      0.458 0.647133
## race.ethnicity.5levelOther
                                                      -0.797 0.425270
## race.ethnicity.5levelWhite
                                                       0.264 0.791915
## demo_race_hispanic1
                                                       2.007 0.044928 *
## interview_age
                                                       0.005 0.995675
## hormone_scr_ert_mean:accumbens_posvsneg_feedback_z 0.472 0.637251
## Signif. codes: 0 '***' 0.001 '**' 0.05 '.' 0.1 ' ' 1
##
##
## R-sq.(adj) = 0.00633
## lmer.REML = 11692 Scale est. = 12.536
```

4.18 Model: CBCL internalizing factor \sim Testosterone x Caudate activity (Feedback stage) + PDS

```
##
## Family: gaussian
## Link function: identity
##
## Formula:
## cbcl_scr_syn_internal_r ~ PDS_score + hormone_scr_ert_mean *
##
      caudate_posvsneg_feedback_z + race.ethnicity.5level + demo_race_hispanic +
##
      interview_age
##
## Parametric coefficients:
                                                  Estimate Std. Error t value
## (Intercept)
                                                -0.2182413 2.0973786 -0.104
## PDS score
                                                 0.9674477 0.1909243 5.067
## hormone_scr_ert_mean
                                                -0.0004754 0.0078346 -0.061
## caudate_posvsneg_feedback_z
                                                ## race.ethnicity.5levelBlack
                                                ## race.ethnicity.5levelMixed
                                                 1.1277284 0.8007884 1.408
                                                 0.2609206 0.9475744 0.275
## race.ethnicity.5levelOther
## race.ethnicity.5levelWhite
                                                 1.4575625 0.7357842 1.981
## demo_race_hispanic1
                                                 0.0668360 0.3667756 0.182
## interview_age
                                                 0.0202858 0.0172731
                                                                      1.174
## hormone_scr_ert_mean:caudate_posvsneg_feedback_z 0.0013410 0.0084975
                                                                      0.158
##
                                                Pr(>|t|)
## (Intercept)
                                                  0.9171
                                                4.44e-07 ***
## PDS_score
## hormone_scr_ert_mean
                                                  0.9516
```

```
## caudate_posvsneg_feedback_z
                                                    0.6734
## race.ethnicity.5levelBlack
                                                    0.7184
                                                    0.1592
## race.ethnicity.5levelMixed
## race.ethnicity.5levelOther
                                                    0.7831
## race.ethnicity.5levelWhite
                                                     0.0477 *
## demo race hispanic1
                                                    0.8554
                                                     0.2404
## interview age
## hormone_scr_ert_mean:caudate_posvsneg_feedback_z
                                                    0.8746
## Signif. codes: 0 '***' 0.001 '**' 0.05 '.' 0.1 ' ' 1
##
## R-sq.(adj) = 0.0196
## lmer.REML = 11385 Scale est. = 16.086
                                            n = 1849
Males
##
## Family: gaussian
## Link function: identity
## Formula:
## cbcl_scr_syn_internal_r ~ PDS_score + hormone_scr_ert_mean *
      caudate_posvsneg_feedback_z + race.ethnicity.5level + demo_race_hispanic +
##
      interview_age
##
## Parametric coefficients:
##
                                                    Estimate Std. Error t value
## (Intercept)
                                                    3.2734218 2.2345926 1.465
## PDS score
                                                    0.9313613 0.2593189
                                                                          3.592
## hormone_scr_ert_mean
                                                   0.0096474 0.0091153
                                                                         1.058
## caudate_posvsneg_feedback_z
                                                  -0.5006432 1.0460636 -0.479
## race.ethnicity.5levelBlack
## race.ethnicity.5levelMixed
                                                   0.5112134 1.0319437
                                                                         0.495
## race.ethnicity.5levelOther
                                                  -0.8595012 1.1485001 -0.748
## race.ethnicity.5levelWhite
                                                   0.2885792 0.9725685
                                                                         0.297
## demo_race_hispanic1
                                                    0.7714012 0.3912138
                                                                         1.972
## interview_age
                                                   -0.0004641 0.0169756 -0.027
## hormone_scr_ert_mean:caudate_posvsneg_feedback_z 0.0045107 0.0094310
                                                                          0.478
                                                   Pr(>|t|)
## (Intercept)
                                                   0.143122
## PDS score
                                                   0.000337 ***
## hormone_scr_ert_mean
                                                   0.290024
## caudate_posvsneg_feedback_z
                                                  0.559916
## race.ethnicity.5levelBlack
                                                  0.632282
## race.ethnicity.5levelMixed
                                                  0.620384
## race.ethnicity.5levelOther
                                                   0.454333
## race.ethnicity.5levelWhite
                                                   0.766715
## demo_race_hispanic1
                                                   0.048779 *
                                                   0.978191
## interview_age
## hormone_scr_ert_mean:caudate_posvsneg_feedback_z 0.632502
## Signif. codes: 0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
```

```
## ## R-sq.(adj) = 0.00561
## lmer.REML = 11649 Scale est. = 13.19 n = 1864
```

4.19 Model: CBCL internalizing factor \sim Testosterone x Putamen activity (Feedback stage) + PDS

```
##
## Family: gaussian
## Link function: identity
##
## Formula:
## cbcl_scr_syn_internal_r ~ PDS_score + hormone_scr_ert_mean *
##
      putamen_posvsneg_feedback_z + race.ethnicity.5level + demo_race_hispanic +
##
      interview_age
##
## Parametric coefficients:
                                                    Estimate Std. Error t value
                                                    0.118158 2.089886 0.057
## (Intercept)
## PDS_score
                                                               0.191144 5.361
                                                    1.024707
                                                   -0.002045 0.007853 -0.260
## hormone_scr_ert_mean
## putamen_posvsneg_feedback_z
                                                   0.083296 0.337089 0.247
## race.ethnicity.5levelBlack
                                                  -0.486371 0.803308 -0.605
## race.ethnicity.5levelMixed
                                                   0.913244 0.793817 1.150
                                                   -0.045591
## race.ethnicity.5levelOther
                                                               0.944110 -0.048
## race.ethnicity.5levelWhite
                                                    1.224540
                                                               0.728436 1.681
## demo race hispanic1
                                                    0.100062
                                                               0.366661 0.273
                                                               0.017236 1.096
## interview_age
                                                    0.018886
## hormone_scr_ert_mean:putamen_posvsneg_feedback_z -0.005448
                                                               0.008453 - 0.645
                                                   Pr(>|t|)
## (Intercept)
                                                     0.9549
## PDS_score
                                                   9.32e-08 ***
## hormone_scr_ert_mean
                                                     0.7946
## putamen_posvsneg_feedback_z
                                                     0.8049
## race.ethnicity.5levelBlack
                                                     0.5449
## race.ethnicity.5levelMixed
                                                     0.2501
## race.ethnicity.5levelOther
                                                     0.9615
## race.ethnicity.5levelWhite
                                                     0.0929
## demo_race_hispanic1
                                                     0.7850
                                                     0.2734
## interview age
## hormone_scr_ert_mean:putamen_posvsneg_feedback_z 0.5193
## Signif. codes: 0 '***' 0.001 '**' 0.05 '.' 0.1 ' ' 1
##
##
## R-sq.(adj) = 0.0207
## lmer.REML = 11406 Scale est. = 16.487 n = 1852
Males
## Family: gaussian
## Link function: identity
```

```
##
## Formula:
## cbcl scr syn internal r ~ PDS score + hormone scr ert mean *
      putamen_posvsneg_feedback_z + race.ethnicity.5level + demo_race_hispanic +
##
      interview age
##
## Parametric coefficients:
                                                     Estimate Std. Error t value
##
## (Intercept)
                                                    3.222e+00 2.233e+00 1.443
                                                    9.077e-01 2.588e-01
                                                                           3.507
## PDS_score
## hormone_scr_ert_mean
                                                    9.898e-03 9.102e-03 1.087
                                                    6.944e-02 3.307e-01 0.210
## putamen_posvsneg_feedback_z
## race.ethnicity.5levelBlack
                                                   -4.320e-01 1.047e+00 -0.413
## race.ethnicity.5levelMixed
                                                    5.610e-01 1.033e+00 0.543
## race.ethnicity.5levelOther
                                                   -8.051e-01 1.149e+00 -0.700
## race.ethnicity.5levelWhite
                                                    3.285e-01 9.728e-01
                                                                           0.338
                                                    7.186e-01 3.918e-01
                                                                          1.834
## demo_race_hispanic1
## interview age
                                                   -9.080e-05 1.697e-02 -0.005
## hormone_scr_ert_mean:putamen_posvsneg_feedback_z -7.763e-05 9.786e-03 -0.008
                                                   Pr(>|t|)
## (Intercept)
                                                   0.149262
## PDS score
                                                   0.000463 ***
                                                   0.276976
## hormone_scr_ert_mean
## putamen_posvsneg_feedback_z
                                                   0.833722
## race.ethnicity.5levelBlack
                                                   0.679916
## race.ethnicity.5levelMixed
                                                   0.587093
## race.ethnicity.5levelOther
                                                   0.483756
## race.ethnicity.5levelWhite
                                                   0.735609
## demo_race_hispanic1
                                                   0.066837 .
## interview_age
                                                   0.995732
## hormone_scr_ert_mean:putamen_posvsneg_feedback_z 0.993671
## Signif. codes: 0 '***' 0.001 '**' 0.05 '.' 0.1 ' ' 1
##
## R-sq.(adj) = 0.00537
## lmer.REML = 11684 Scale est. = 13.524
                                             n = 1869
```

4.20 Model: CBCL internalizing factor \sim Testosterone x Lateral OFC activity (anticipation stage) + PDS

```
##
## Family: gaussian
## Link function: identity
##
## Formula:
## cbcl_scr_syn_internal_r ~ PDS_score + hormone_scr_ert_mean *
## 10FC_rvsn_ant_z + race.ethnicity.5level + demo_race_hispanic +
## interview_age
##
## Parametric coefficients:
## Estimate Std. Error t value Pr(>|t|)
```

```
## (Intercept)
                                 -0.268446
                                          2.100526 -0.128
                                                          0.8983
## PDS_score
                                 -0.001902 0.007873 -0.242 0.8091
## hormone scr ert mean
                                 0.501329  0.495476  1.012  0.3118
## 10FC_rvsn_ant_z
## race.ethnicity.5levelBlack
                                ## race.ethnicity.5levelMixed
                                          0.801185 1.492 0.1358
                                1.195701
## race.ethnicity.5levelOther
                                0.403243 0.951844 0.424 0.6719
                                 1.486237
                                          0.735959 2.019
## race.ethnicity.5levelWhite
                                                          0.0436 *
                                          0.367034 0.007
## demo_race_hispanic1
                                 0.002524
                                                          0.9945
## interview_age
                                 0.021066
                                          0.017312 1.217
                                                          0.2238
## hormone_scr_ert_mean:10FC_rvsn_ant_z -0.009990 0.012957 -0.771 0.4408
## Signif. codes: 0 '***' 0.001 '**' 0.05 '.' 0.1 ' ' 1
##
##
## R-sq.(adj) = 0.0189
## lmer.REML = 11345 Scale est. = 15.991
                                   n = 1842
Males
## Family: gaussian
## Link function: identity
## Formula:
## cbcl_scr_syn_internal_r ~ PDS_score + hormone_scr_ert_mean *
     10FC rvsn ant z + race.ethnicity.5level + demo race hispanic +
##
     interview age
##
## Parametric coefficients:
                                 Estimate Std. Error t value Pr(>|t|)
## (Intercept)
                                 2.661574 2.215272 1.201 0.22972
## PDS_score
                                 0.010894 0.009006 1.210 0.22658
## hormone_scr_ert_mean
## 10FC_rvsn_ant_z
                                -0.609689 1.048009 -0.582 0.56080
## race.ethnicity.5levelBlack
## race.ethnicity.5levelMixed
                                 0.455567 1.034061 0.441 0.65958
                                -0.861293 1.144960 -0.752 0.45200
## race.ethnicity.5levelOther
## race.ethnicity.5levelWhite
                                 0.241569 0.974216 0.248 0.80419
## demo_race_hispanic1
                                 0.755810 0.391691
                                                  1.930 0.05381
                                 0.005425
## interview_age
                                          0.016777 0.323 0.74645
## Signif. codes: 0 '***' 0.001 '**' 0.05 '.' 0.1 ' ' 1
##
##
## R-sq.(adj) = 0.00604
## lmer.REML = 11561 Scale est. = 12.61 n = 1859
```

4.21 Model: CBCL internalizing factor \sim Testosterone x Medial OFC activity (anticipation stage) + PDS

Females

##

```
## Family: gaussian
## Link function: identity
##
## Formula:
##
  cbcl_scr_syn_internal_r ~ PDS_score + hormone_scr_ert_mean *
      mOFC_rvsn_ant_z + race.ethnicity.5level + demo_race_hispanic +
##
##
      interview age
##
## Parametric coefficients:
##
                                        Estimate Std. Error t value Pr(>|t|)
## (Intercept)
                                       -0.335356
                                                   2.103623 -0.159
                                                   0.192757
                                                            4.944 8.34e-07 ***
## PDS_score
                                        0.953065
                                       -0.001117
                                                   0.007860 -0.142
                                                                      0.887
## hormone_scr_ert_mean
                                                  0.424412
## mOFC_rvsn_ant_z
                                       0.415906
                                                            0.980
                                                                      0.327
                                                   0.811137 -0.217
## race.ethnicity.5levelBlack
                                       -0.176200
                                                                      0.828
## race.ethnicity.5levelMixed
                                       1.170896
                                                   0.801983
                                                             1.460
                                                                      0.144
## race.ethnicity.5levelOther
                                                   0.949882
                                                             0.387
                                                                      0.699
                                       0.367373
## race.ethnicity.5levelWhite
                                       1.498526
                                                   0.736273
                                                            2.035
                                                                      0.042 *
                                                  0.367034 -0.012
                                                                      0.990
## demo_race_hispanic1
                                       -0.004546
## interview age
                                        0.021341
                                                   0.017329
                                                             1.232
                                                                      0.218
## hormone_scr_ert_mean:mOFC_rvsn_ant_z -0.006879
                                                  0.010767 -0.639
                                                                      0.523
## Signif. codes: 0 '***' 0.001 '**' 0.05 '.' 0.1 ' ' 1
##
##
## R-sq.(adj) = 0.019
## lmer.REML = 11351 Scale est. = 15.87
                                             n = 1843
Males
##
## Family: gaussian
## Link function: identity
##
## Formula:
  cbcl_scr_syn_internal_r ~ PDS_score + hormone_scr_ert_mean *
##
      mOFC_rvsn_ant_z + race.ethnicity.5level + demo_race_hispanic +
##
      interview_age
##
## Parametric coefficients:
##
                                        Estimate Std. Error t value Pr(>|t|)
## (Intercept)
                                        2.496560 2.227316 1.121 0.262483
## PDS_score
                                       0.918440 0.260289 3.529 0.000428 ***
## hormone_scr_ert_mean
                                       0.010672 0.009070 1.177 0.239497
## mOFC rvsn ant z
                                       -0.091310 0.403846 -0.226 0.821148
                                       -0.420739 1.053129 -0.400 0.689561
## race.ethnicity.5levelBlack
## race.ethnicity.5levelMixed
                                       0.490566 1.039464 0.472 0.637024
## race.ethnicity.5levelOther
                                                   1.152608 -0.686 0.492817
                                       -0.790655
## race.ethnicity.5levelWhite
                                        0.278907
                                                   0.980399
                                                            0.284 0.776072
## demo_race_hispanic1
                                                   0.392943 1.813 0.070020
                                        0.712338
## interview_age
                                                   0.016873
                                                            0.338 0.735450
                                        0.005702
## hormone_scr_ert_mean:mOFC_rvsn_ant_z -0.002681
                                                   0.011440 -0.234 0.814748
## Signif. codes: 0 '***' 0.001 '**' 0.05 '.' 0.1 ' ' 1
```

```
##
## R-sq.(adj) = 0.00519
## lmer.REML = 11615 Scale est. = 12.518 n = 1864
```

4.22 Model: CBCL internalizing factor \sim Testosterone x Lateral OFC activity (feedback stage) + PDS

```
##
## Family: gaussian
## Link function: identity
##
## Formula:
##
  cbcl_scr_syn_internal_r ~ PDS_score + hormone_scr_ert_mean *
      10FC_posvsneg_feedback_z + race.ethnicity.5level + demo_race_hispanic +
##
##
      interview_age
##
## Parametric coefficients:
##
                                                 Estimate Std. Error t value
## (Intercept)
                                                -0.044937 2.092752 -0.021
                                                 0.925586 0.192200
## PDS score
                                                                      4.816
                                                -0.001409 0.007855 -0.179
## hormone_scr_ert_mean
## 10FC_posvsneg_feedback_z
                                                0.007051 0.551494 0.013
## race.ethnicity.5levelBlack
                                                -0.395454   0.802080   -0.493
## race.ethnicity.5levelMixed
                                                                      1.119
                                                0.886869
                                                            0.792606
## race.ethnicity.5levelOther
                                                -0.015041
                                                            0.943164 -0.016
## race.ethnicity.5levelWhite
                                                 1.204774
                                                            0.726589 1.658
## demo_race_hispanic1
                                                            0.366832 0.170
                                                 0.062441
## interview_age
                                                 0.021466
                                                            0.017291
                                                                      1.241
## hormone_scr_ert_mean:10FC_posvsneg_feedback_z -0.002902
                                                            0.014645 -0.198
                                                Pr(>|t|)
## (Intercept)
                                                  0.9829
## PDS_score
                                                1.59e-06 ***
## hormone_scr_ert_mean
                                                  0.8576
## 10FC_posvsneg_feedback_z
                                                  0.9898
## race.ethnicity.5levelBlack
                                                  0.6220
## race.ethnicity.5levelMixed
                                                  0.2633
## race.ethnicity.5levelOther
                                                  0.9873
## race.ethnicity.5levelWhite
                                                  0.0975 .
## demo_race_hispanic1
                                                  0.8649
## interview_age
                                                  0.2146
## hormone_scr_ert_mean:10FC_posvsneg_feedback_z
                                                  0.8430
## Signif. codes: 0 '***' 0.001 '**' 0.05 '.' 0.1 ' ' 1
##
##
## R-sq.(adj) = 0.0166
## lmer.REML = 11373 Scale est. = 16.334
                                             n = 1848
Males
##
## Family: gaussian
```

```
## Link function: identity
##
## Formula:
## cbcl_scr_syn_internal_r ~ PDS_score + hormone_scr_ert_mean *
##
      10FC_posvsneg_feedback_z + race.ethnicity.5level + demo_race_hispanic +
##
      interview age
## Parametric coefficients:
##
                                                 Estimate Std. Error t value
## (Intercept)
                                                 3.132598
                                                           2.228475 1.406
## PDS_score
                                                 0.902886
                                                           0.260047 3.472
                                                           0.009038 1.216
## hormone_scr_ert_mean
                                                 0.010987
                                                                     0.143
## 10FC_posvsneg_feedback_z
                                                 0.075070
                                                          0.526484
## race.ethnicity.5levelBlack
                                               -0.575538 1.057172 -0.544
## race.ethnicity.5levelMixed
                                                0.469622 1.042176
                                                                     0.451
## race.ethnicity.5levelOther
                                                -0.895749
                                                           1.154674 -0.776
## race.ethnicity.5levelWhite
                                                 0.271549
                                                           0.981503 0.277
## demo_race_hispanic1
                                                 0.763738
                                                           0.393804 1.939
                                                           0.016891 0.061
## interview_age
                                                 0.001034
## hormone_scr_ert_mean:10FC_posvsneg_feedback_z 0.005022
                                                           0.014863 0.338
##
                                                Pr(>|t|)
## (Intercept)
                                                0.159977
## PDS_score
                                                0.000528 ***
## hormone scr ert mean
                                                0.224303
## 10FC_posvsneg_feedback_z
                                                0.886631
## race.ethnicity.5levelBlack
                                                0.586223
## race.ethnicity.5levelMixed
                                                0.652318
## race.ethnicity.5levelOther
                                                0.437990
## race.ethnicity.5levelWhite
                                                0.782067
## demo_race_hispanic1
                                                0.052606 .
## interview_age
                                                0.951180
## hormone_scr_ert_mean:10FC_posvsneg_feedback_z 0.735490
## Signif. codes: 0 '***' 0.001 '**' 0.05 '.' 0.1 ' ' 1
##
##
## R-sq.(adj) = 0.00464
## lmer.REML = 11580 Scale est. = 12.527 n = 1858
```

4.23 Model: CBCL internalizing factor \sim Testosterone x Medial OFC activity (feedback stage) + PDS

```
##
## Family: gaussian
## Link function: identity
##
## Formula:
## cbcl_scr_syn_internal_r ~ PDS_score + hormone_scr_ert_mean *
## mOFC_posvsneg_feedback_z + race.ethnicity.5level + demo_race_hispanic +
## interview_age
##
## Parametric coefficients:
```

```
##
                                                 Estimate Std. Error t value
## (Intercept)
                                                -0.314760
                                                            2.093249 -0.150
## PDS score
                                                 0.954451
                                                            0.191597 4.982
## hormone_scr_ert_mean
                                                -0.001444
                                                            0.007850 -0.184
## mOFC_posvsneg_feedback_z
                                                0.425476
                                                            0.479556
                                                                      0.887
## race.ethnicity.5levelBlack
                                                            0.809952 -0.179
                                               -0.145210
## race.ethnicity.5levelMixed
                                                            0.799258 1.534
                                                1.225959
## race.ethnicity.5levelOther
                                                                     0.237
                                                0.225314
                                                            0.948784
## race.ethnicity.5levelWhite
                                                 1.475471
                                                            0.734587
                                                                      2.009
                                                                     0.099
## demo_race_hispanic1
                                                 0.036169
                                                            0.366841
## interview_age
                                                 0.021263
                                                            0.017250
                                                                      1.233
## hormone_scr_ert_mean:mOFC_posvsneg_feedback_z -0.006730
                                                            0.012439 -0.541
                                                Pr(>|t|)
## (Intercept)
                                                  0.8805
## PDS_score
                                                 6.9e-07 ***
## hormone_scr_ert_mean
                                                  0.8540
## mOFC_posvsneg_feedback_z
                                                  0.3751
## race.ethnicity.5levelBlack
                                                 0.8577
## race.ethnicity.5levelMixed
                                                  0.1252
## race.ethnicity.5levelOther
                                                  0.8123
## race.ethnicity.5levelWhite
                                                  0.0447 *
## demo_race_hispanic1
                                                  0.9215
                                                  0.2179
## interview age
## hormone_scr_ert_mean:mOFC_posvsneg_feedback_z
                                                  0.5886
## ---
## Signif. codes: 0 '***' 0.001 '**' 0.05 '.' 0.1 ' ' 1
##
## R-sq.(adj) = 0.019
## lmer.REML = 11407 Scale est. = 16.118 n = 1853
Males
##
## Family: gaussian
## Link function: identity
##
## Formula:
## cbcl_scr_syn_internal_r ~ PDS_score + hormone_scr_ert_mean *
      mOFC posvsneg feedback z + race.ethnicity.5level + demo race hispanic +
##
      interview_age
## Parametric coefficients:
##
                                                 Estimate Std. Error t value
## (Intercept)
                                                 2.999888 2.221616 1.350
                                                                     3.514
                                                 0.911077 0.259259
## PDS score
## hormone scr ert mean
                                                 0.012363
                                                            0.009020
                                                                     1.371
## mOFC_posvsneg_feedback_z
                                                -0.464001
                                                            0.437954 -1.059
## race.ethnicity.5levelBlack
                                                -0.655102
                                                            1.053972 -0.622
## race.ethnicity.5levelMixed
                                                0.480853
                                                            1.039058
                                                                     0.463
## race.ethnicity.5levelOther
                                                -0.893475
                                                            1.151337 -0.776
## race.ethnicity.5levelWhite
                                                 0.254733
                                                            0.979137
                                                                     0.260
## demo_race_hispanic1
                                                 0.766724
                                                            0.390613
                                                                      1.963
## interview_age
                                                 0.001901
                                                            0.016837
                                                                      0.113
```

```
## hormone_scr_ert_mean:mOFC_posvsneg_feedback_z 0.018415
                                                             0.012444
##
                                                 Pr(>|t|)
## (Intercept)
                                                 0.177079
## PDS_score
                                                 0.000452 ***
## hormone_scr_ert_mean
                                                 0.170648
## mOFC_posvsneg_feedback_z
                                                 0.289522
## race.ethnicity.5levelBlack
                                                 0.534311
## race.ethnicity.5levelMixed
                                                 0.643578
## race.ethnicity.5levelOther
                                                 0.437829
## race.ethnicity.5levelWhite
                                                 0.794769
## demo_race_hispanic1
                                                 0.049810 *
## interview_age
                                                 0.910138
## hormone_scr_ert_mean:mOFC_posvsneg_feedback_z 0.139086
## Signif. codes: 0 '***' 0.001 '**' 0.05 '.' 0.1 ' ' 1
##
##
## R-sq.(adi) = 0.00579
## lmer.REML = 11612 Scale est. = 12.558
                                             n = 1864
```

4.24 Model: CBCL internalizing factor \sim Testosterone x BIS-BAS RR + PDS

```
##
## Family: gaussian
## Link function: identity
##
## Formula:
## cbcl_scr_syn_internal_r ~ PDS_score + hormone_scr_ert_mean *
      bisbas_ss_basm_rr + race.ethnicity.5level + demo_race_hispanic +
##
      interview_age
##
## Parametric coefficients:
                                         Estimate Std. Error t value Pr(>|t|)
## (Intercept)
                                        -0.530598
                                                    2.090056 -0.254
                                                                        0.800
                                         0.864135 0.169223
## PDS score
                                                             5.106 3.54e-07
                                         0.026192 0.025996 1.008
## hormone_scr_ert_mean
                                                                       0.314
## bisbas_ss_basm_rr
                                         0.091454 0.107910 0.848
                                                                        0.397
## race.ethnicity.5levelBlack
                                        -0.424060 0.728587 -0.582
                                                                       0.561
                                                                      0.109
## race.ethnicity.5levelMixed
                                         1.164004 0.726406 1.602
## race.ethnicity.5levelOther
                                         0.225036 0.843315 0.267
                                                                     0.790
## race.ethnicity.5levelWhite
                                         0.991807 0.669711 1.481
                                                                       0.139
                                         0.175401
                                                    0.330640 0.530
## demo_race_hispanic1
                                                                       0.596
                                         0.021104
                                                    0.015400 1.370
## interview_age
                                                                        0.171
## hormone_scr_ert_mean:bisbas_ss_basm_rr -0.003168
                                                    0.002824 -1.122
                                                                        0.262
## (Intercept)
## PDS_score
                                         ***
## hormone_scr_ert_mean
## bisbas_ss_basm_rr
## race.ethnicity.5levelBlack
## race.ethnicity.5levelMixed
## race.ethnicity.5levelOther
## race.ethnicity.5levelWhite
```

```
## demo_race_hispanic1
## interview_age
## hormone_scr_ert_mean:bisbas_ss_basm_rr
## Signif. codes: 0 '***' 0.001 '**' 0.05 '.' 0.1 ' ' 1
##
##
## R-sq.(adj) = 0.0149
## lmer.REML = 14837 Scale est. = 17.701
                                          n = 2402
Males
##
## Family: gaussian
## Link function: identity
##
## Formula:
## cbcl_scr_syn_internal_r ~ PDS_score + hormone_scr_ert_mean *
      bisbas_ss_basm_rr + race.ethnicity.5level + demo_race_hispanic +
##
      interview_age
## Parametric coefficients:
                                       Estimate Std. Error t value Pr(>|t|)
## (Intercept)
                                       3.348717 2.120258 1.579 0.11437
## PDS_score
                                       0.768346 0.207688 3.700 0.00022
                                       0.020069 0.028073 0.715 0.47473
## hormone_scr_ert_mean
## bisbas ss basm rr
                                      -0.023059 0.107484 -0.215 0.83014
## race.ethnicity.5levelBlack
                                     -0.948772  0.811286  -1.169  0.24232
## race.ethnicity.5levelMixed
                                       -0.683594 0.902876 -0.757 0.44904
## race.ethnicity.5levelOther
## race.ethnicity.5levelWhite
                                       0.041298 0.751295 0.055 0.95617
## demo_race_hispanic1
                                       0.005281 0.014439
                                                           0.366 0.71460
## interview_age
## hormone_scr_ert_mean:bisbas_ss_basm_rr -0.001311
                                                  0.003061 -0.428 0.66839
##
## (Intercept)
## PDS_score
                                       ***
## hormone_scr_ert_mean
## bisbas_ss_basm_rr
## race.ethnicity.5levelBlack
## race.ethnicity.5levelMixed
## race.ethnicity.5levelOther
## race.ethnicity.5levelWhite
## demo_race_hispanic1
## interview age
## hormone_scr_ert_mean:bisbas_ss_basm_rr
## Signif. codes: 0 '***' 0.001 '**' 0.05 '.' 0.1 ' ' 1
##
##
## R-sq.(adj) = 0.00346
## lmer.REML = 16373 Scale est. = 14.305
                                          n = 2627
```

4.25 Model: CBCL internalizing factor ~ Testosterone x MID Reaction Time + PDS (large reward vs. neutral)

```
## Family: gaussian
## Link function: identity
##
## Formula:
## cbcl_scr_syn_internal_r ~ PDS_score + hormone_scr_ert_mean *
      rt_diff_large_neutral_z + race.ethnicity.5level + demo_race_hispanic +
##
      interview_age
##
## Parametric coefficients:
##
                                                Estimate Std. Error t value
## (Intercept)
                                                0.039314 2.026226 0.019
## PDS_score
                                                1.063347 0.186331 5.707
## hormone_scr_ert_mean
                                               -0.002558 0.007693 -0.333
## rt_diff_large_neutral_z
                                               -0.282272 0.292040 -0.967
## race.ethnicity.5levelBlack
                                               -0.664826 0.776886 -0.856
                                               0.645403 0.769617 0.839
## race.ethnicity.5levelMixed
## race.ethnicity.5levelOther
                                               0.057359 0.891157 0.064
## race.ethnicity.5levelWhite
                                                0.922120 0.707218 1.304
## demo_race_hispanic1
                                                0.202435 0.355969 0.569
                                                0.021392 0.016782 1.275
## interview_age
## hormone_scr_ert_mean:rt_diff_large_neutral_z 0.012999 0.007525 1.728
                                               Pr(>|t|)
## (Intercept)
                                                 0.9845
## PDS_score
                                               1.32e-08 ***
## hormone_scr_ert_mean
                                                 0.7395
## rt_diff_large_neutral_z
                                                 0.3339
## race.ethnicity.5levelBlack
                                                 0.3922
## race.ethnicity.5levelMixed
                                                 0.4018
## race.ethnicity.5levelOther
                                                 0.9487
## race.ethnicity.5levelWhite
                                                 0.1924
## demo_race_hispanic1
                                                 0.5696
## interview_age
                                                 0.2026
## hormone_scr_ert_mean:rt_diff_large_neutral_z 0.0842 .
## Signif. codes: 0 '***' 0.001 '**' 0.05 '.' 0.1 ' ' 1
##
##
## R-sq.(adj) = 0.0215
## lmer.REML = 12403 Scale est. = 16.792
                                            n = 2011
Males
##
## Family: gaussian
## Link function: identity
## Formula:
## cbcl_scr_syn_internal_r ~ PDS_score + hormone_scr_ert_mean *
      rt_diff_large_neutral_z + race.ethnicity.5level + demo_race_hispanic +
```

```
##
      interview_age
##
## Parametric coefficients:
                                               Estimate Std. Error t value
## (Intercept)
                                                3.198511 2.092217
## PDS score
                                               0.930405 0.236663 3.931
## hormone_scr_ert_mean
                                               0.014041 0.008397 1.672
                                              -0.005543 0.296296 -0.019
## rt_diff_large_neutral_z
## race.ethnicity.5levelBlack
                                              -1.162362 0.979840 -1.186
## race.ethnicity.5levelMixed
                                              -0.178371 0.972383 -0.183
## race.ethnicity.5levelOther
                                              -1.268748 1.071979 -1.184
                                              -0.379270 0.915079 -0.414
## race.ethnicity.5levelWhite
                                                                    1.464
## demo_race_hispanic1
                                               0.538766 0.367909
## interview_age
                                                0.004539 0.015822 0.287
## hormone_scr_ert_mean:rt_diff_large_neutral_z -0.001282
                                                          0.008319 -0.154
##
                                               Pr(>|t|)
## (Intercept)
                                                 0.1265
## PDS score
                                               8.72e-05 ***
## hormone_scr_ert_mean
                                                0.0947 .
## rt_diff_large_neutral_z
                                                 0.9851
## race.ethnicity.5levelBlack
                                                 0.2356
## race.ethnicity.5levelMixed
                                                 0.8545
## race.ethnicity.5levelOther
                                                 0.2367
## race.ethnicity.5levelWhite
                                                 0.6786
## demo_race_hispanic1
                                                0.1432
## interview_age
                                                 0.7742
## hormone_scr_ert_mean:rt_diff_large_neutral_z
                                                 0.8775
## Signif. codes: 0 '***' 0.001 '**' 0.05 '.' 0.1 ' ' 1
##
##
## R-sq.(adj) = 0.00301
## lmer.REML = 13114 Scale est. = 11.135
                                            n = 2108
```

4.26 Model: CBCL internalizing factor \sim Testosterone x MID Reaction Time + PDS (large vs. small reward)

```
##
## Family: gaussian
## Link function: identity
##
## Formula:
## cbcl_scr_syn_internal_r ~ PDS_score + hormone_scr_ert_mean *
       rt diff large small z + race.ethnicity.5level + demo race hispanic +
##
##
       interview_age
##
## Parametric coefficients:
                                               Estimate Std. Error t value
## (Intercept)
                                                         2.023009 -0.035
                                              -0.070043
## PDS score
                                              1.065072
                                                          0.186270
                                                                    5.718
                                                         0.007682 -0.223
## hormone_scr_ert_mean
                                              -0.001710
                                                          0.276745 -0.052
## rt_diff_large_small_z
                                              -0.014365
```

```
## race.ethnicity.5levelBlack
                                            -0.615144
                                                        0.776967 -0.792
## race.ethnicity.5levelMixed
                                                        0.770018
                                                                 0.893
                                            0.687679
## race.ethnicity.5levelOther
                                            0.088308
                                                        0.891011
                                                                   0.099
## race.ethnicity.5levelWhite
                                             0.958944
                                                        0.707178 1.356
## demo_race_hispanic1
                                             0.178810
                                                        0.355703
                                                                 0.503
## interview age
                                                        0.016768 1.299
                                             0.021788
## hormone_scr_ert_mean:rt_diff_large_small_z 0.008134
                                                        0.007337 1.109
                                            Pr(>|t|)
## (Intercept)
                                               0.972
                                            1.24e-08 ***
## PDS_score
## hormone_scr_ert_mean
                                               0.824
                                               0.959
## rt_diff_large_small_z
## race.ethnicity.5levelBlack
                                               0.429
## race.ethnicity.5levelMixed
                                               0.372
## race.ethnicity.5levelOther
                                               0.921
## race.ethnicity.5levelWhite
                                               0.175
## demo_race_hispanic1
                                               0.615
## interview age
                                               0.194
## hormone_scr_ert_mean:rt_diff_large_small_z
                                               0.268
## Signif. codes: 0 '***' 0.001 '**' 0.05 '.' 0.1 ' ' 1
##
##
## R-sq.(adj) = 0.0226
## lmer.REML = 12402 Scale est. = 16.838
                                            n = 2011
Males
##
## Family: gaussian
## Link function: identity
##
## Formula:
## cbcl_scr_syn_internal_r ~ PDS_score + hormone_scr_ert_mean *
##
      rt_diff_large_small_z + race.ethnicity.5level + demo_race_hispanic +
##
      interview_age
##
## Parametric coefficients:
                                             Estimate Std. Error t value
## (Intercept)
                                             3.165433 2.090264 1.514
                                             0.939039 0.236898 3.964
## PDS score
## hormone_scr_ert_mean
                                            0.013675
                                                       0.008398 1.628
## rt_diff_large_small_z
                                            ## race.ethnicity.5levelBlack
                                            -1.147194
                                                        0.979330 -1.171
## race.ethnicity.5levelMixed
                                            -0.192253
                                                        0.971665 -0.198
## race.ethnicity.5levelOther
                                            -1.265398 1.070963 -1.182
## race.ethnicity.5levelWhite
                                            -0.384432
                                                        0.914220 -0.421
## demo_race_hispanic1
                                             0.543519
                                                        0.368173
                                                                 1.476
## interview_age
                                             0.004821
                                                        0.015803
                                                                  0.305
## hormone_scr_ert_mean:rt_diff_large_small_z -0.007747
                                                        0.008768 -0.884
##
                                            Pr(>|t|)
## (Intercept)
                                               0.130
## PDS_score
                                            7.62e-05 ***
## hormone_scr_ert_mean
                                               0.104
```

```
## rt_diff_large_small_z
                                               0.609
## race.ethnicity.5levelBlack
                                               0.242
## race.ethnicity.5levelMixed
                                               0.843
## race.ethnicity.5levelOther
                                               0.238
## race.ethnicity.5levelWhite
                                               0.674
## demo_race_hispanic1
                                               0.140
## interview_age
                                               0.760
## hormone_scr_ert_mean:rt_diff_large_small_z
                                               0.377
## Signif. codes: 0 '***' 0.001 '**' 0.05 '.' 0.1 ' ' 1
##
## R-sq.(adj) = 0.00349
## lmer.REML = 13113 Scale est. = 11.048 n = 2108
```

5— Correlation Matrix —

x1	x2	N	corr	p
bmi	interview_age	2661	0.0697979271	0.000314298098
PDS_score	interview_age	2691	0.2677278740	0.0000000000000
PDS_score	bmi	2661	0.2664128834	0.000000000000
hormone_scr_ert_mean_z	interview_age	2478	0.2047640705	0.000000000000
hormone_scr_ert_mean_z	bmi	2449	0.2012793974	0.000000000000
hormone_scr_ert_mean_z	PDS_score	2478	0.3093491991	0.000000000000
bisbas_ss_basm_rr_z	interview_age	2683	-0.0350871908	0.069194488613
bisbas_ss_basm_rr_z	bmi	2653	0.0877629223	0.000005981667
bisbas_ss_basm_rr_z	PDS_score	2683	0.0509531725	0.008296938217
$bisbas_ss_basm_rr_z$	$hormone_scr_ert_mean_z$	2470	0.0122127956	0.544063120481
$rt_diff_large_neutral_z$	interview_age	2261	0.0472807273	0.024562711898
$rt_diff_large_neutral_z$	bmi	2239	0.0043940959	0.835381194609
$rt_diff_large_neutral_z$	PDS_score	2261	0.0268122235	0.202505893118
$rt_diff_large_neutral_z$	$hormone_scr_ert_mean_z$	2088	-0.0118282851	0.589069834934
$rt_diff_large_neutral_z$	$bisbas_ss_basm_rr_z$	2255	-0.0106596021	0.612909630741
$rt_diff_large_small_z$	interview_age	2671	0.0193106014	0.318458362677
$rt_diff_large_small_z$	bmi	2641	0.0174724764	0.369417222501
$rt_diff_large_small_z$	PDS_score	2671	0.0215976432	0.264503058525
$rt_diff_large_small_z$	$hormone_scr_ert_mean_z$	2461	-0.0045576737	0.821212687813
$rt_diff_large_small_z$	$bisbas_ss_basm_rr_z$	2663	-0.0091450752	0.637131540304
$rt_diff_large_small_z$	$rt_diff_large_neutral_z$	2242	0.4155393366	0.000000000000
$cbcl_scr_syn_internal_r$	interview_age	2689	0.0280218610	0.146307300053
$cbcl_scr_syn_internal_r$	bmi	2659	0.0167186288	0.388820050048
$cbcl_scr_syn_internal_r$	PDS_score	2689	0.0792744882	0.000038652507
cbcl_scr_syn_internal_r	$hormone_scr_ert_mean_z$	2476	0.0043682310	0.828012020633
cbcl_scr_syn_internal_r	$bisbas_ss_basm_rr_z$	2681	-0.0076173230	0.693408003127
$cbcl_scr_syn_internal_r$	$rt_diff_large_neutral_z$	2259	0.0171882573	0.414186908144
cbcl_scr_syn_internal_r	$rt_diff_large_small_z$	2669	0.0239834709	0.215478635656
accumbens_rvsn_ant_z	interview_age	2256	-0.0176046681	0.403280509753
$accumbens_rvsn_ant_z$	bmi	2233	-0.0344483546	0.103648829348
accumbens_rvsn_ant_z	PDS_score	2256	-0.0297940098	0.157166213595
accumbens_rvsn_ant_z	$hormone_scr_ert_mean_z$	2082	-0.0078304345	0.721027940906
$accumbens_rvsn_ant_z$	$bisbas_ss_basm_rr_z$	2249	0.0250223855	0.235551943639

x1	x2	N	corr	р
accumbens_rvsn_ant_z	$rt_diff_large_neutral_z$	2121	0.0045421134	0.834400081003
$accumbens_rvsn_ant_z$	$rt_diff_large_small_z$	2238	0.0254756628	0.228314410114
$accumbens_rvsn_ant_z$	$cbcl_scr_syn_internal_r$	2255	-0.0297104272	0.158426512633
$caudate_rvsn_ant_z$	$interview_age$	2265	0.0303692292	0.148494896103
$caudate_rvsn_ant_z$	bmi	2242	-0.0298576697	0.157573349804
$caudate_rvsn_ant_z$	PDS_score	2265	-0.0107774820	0.608193482802
$caudate_rvsn_ant_z$	$hormone_scr_ert_mean_z$	2091	-0.0199724271	0.361330294647
$caudate_rvsn_ant_z$	bisbas_ss_basm_rr_z	2258	0.0065029299	0.757442405558
caudate_rvsn_ant_z	rt_diff_large_neutral_z	2129	-0.0041659965	0.847654824712
caudate_rvsn_ant_z	$rt_diff_large_small_z$	2246	-0.0019492960	0.926436122005
caudate_rvsn_ant_z	cbcl_scr_syn_internal_r	2263	0.0135449263	0.519562969018
caudate_rvsn_ant_z	accumbens_rvsn_ant_z	2244	0.5145685384	0.0000000000000
putamen_rvsn_ant_z	interview_age	2266	0.0392854181	0.061515089681
putamen_rvsn_ant_z	bmi	2243	-0.0339508622	0.107946742297
putamen_rvsn_ant_z	PDS score	2266	0.0030381797	0.885069694363
putamen_rvsn_ant_z	hormone_scr_ert_mean_z	2090	0.0045604841	0.834943351642
putamen_rvsn_ant_z	bisbas_ss_basm_rr_z	2259	-0.0058706069	0.780343301389
putamen_rvsn_ant_z	rt_diff_large_neutral_z	2130	-0.0120496234	0.578342785746
putamen_rvsn_ant_z	rt_diff_large_small_z	2249	0.0032680055	0.876904163941
putamen_rvsn_ant_z	cbcl_scr_syn_internal_r	2264	0.0053204885	0.800253643605
putamen_rvsn_ant_z	accumbens_rvsn_ant_z	2244	0.4849346824	0.0000000000000
putamen_rvsn_ant_z	caudate_rvsn_ant_z	2254	0.8097813004	0.000000000000
mOFC_rvsn_ant_z	interview_age	2252	-0.0334969122	0.112022589898
mOFC_rvsn_ant_z	bmi	2229	-0.0175205729	0.408358498865
mOFC_rvsn_ant_z	PDS score	2252	-0.0525472587	0.012631914351
mOFC_rvsn_ant_z	hormone_scr_ert_mean_z	2078	0.0082874971	0.705753451720
mOFC_rvsn_ant_z	bisbas_ss_basm_rr_z	2245	-0.0078649036	0.709558870238
mOFC_rvsn_ant_z	rt_diff_large_neutral_z	2116	-0.0250250607	0.249875113895
mOFC_rvsn_ant_z	rt_diff_large_small_z	2235	0.0037440260	0.859584288917
mOFC_rvsn_ant_z	cbcl_scr_syn_internal_r	2250	0.0120433394	0.568020656753
mOFC_rvsn_ant_z	accumbens rvsn ant z	2234	0.3797452127	0.0000000000000
mOFC_rvsn_ant_z	caudate_rvsn_ant_z	2241	0.3102151425	0.000000000000
mOFC rvsn ant z	putamen rvsn ant z	2241 2242	0.2891538747	0.000000000000
lOFC rvsn ant z	interview_age	2242	-0.0160139514	0.447813042526
lOFC rvsn ant z	bmi	2249 2226	-0.0100133314	0.573959150888
lOFC_rvsn_ant_z	PDS_score	$\frac{2220}{2249}$	-0.0119228354	0.291449389629
lOFC_rvsn_ant_z	hormone scr ert mean z	2075	0.0222348031 0.0299293639	0.231443363625 0.172935723486
lOFC_rvsn_ant_z	bisbas_ss_basm_rr_z	$\frac{2013}{2242}$	0.0045464870	0.829645588247
lOFC_rvsn_ant_z	rt_diff_large_neutral_z	$\frac{2242}{2115}$	-0.0252563993	0.245634442726
lOFC_rvsn_ant_z	rt_diff_large_small_z	$\frac{2113}{2232}$	-0.0252505995	0.416698868170
lOFC_rvsn_ant_z	cbcl_scr_syn_internal_r	$\frac{2232}{2247}$	0.0012681317	0.952092531950
lOFC_rvsn_ant_z	accumbens_rvsn_ant_z	$\frac{2247}{2232}$	0.4248318733	0.0000000000000
lOFC_rvsn_ant_z				0.0000000000000000000000000000000000000
	caudate_rvsn_ant_z	2239	0.4743813951 0.4165942818	
lOFC_rvsn_ant_z	putamen_rvsn_ant_z	2240		0.000000000000
lOFC_rvsn_ant_z	mOFC_rvsn_ant_z	2242	0.6925371811	0.000000000000
accumbens_posvsneg_feedba	_	2257	0.0343638617	0.102651612493
accumbens_posvsneg_feedba		2235	0.0075050325	0.722879669049
accumbens_posvsneg_feedba		2257	0.0149119327	0.478894689219
	ck_hzrmone_scr_ert_mean_z	2082	0.0027594483	0.899862282305
accumbens_posvsneg_feedba		2250	0.0061966612	0.768931420189
accumbens_posvsneg_feedba		2123	-0.0021614159	0.920716744390
accumbens_posvsneg_feedba	ck_rtz_diff_large_small_z	2238	0.0049986395	0.813166890248

accumbens_posvsneg_feedback_gerLombens_rvsn_ant_z	x1 x2	N	corr	p
accumbens_posvsneg_feedback_gandate_rvsn_ant_z	accumbens posvsneg feedback cbcl_scr_syn_internal_r	2255	0.0116099485	0.581611291891
accumbens_posvsneg_feedback_gandate_rvsn_ant_z		2242	0.0089619417	0.671479993564
accumbens_posvsneg_feedback_pdFC_rvsn_ant_z		2243	-0.0048259996	0.819308228178
accumbens_posvsneg_feedback_IoFC_rvsn_ant_z		2243		
caudate_posvsneg_feedback_z interview_age 2261 0.0029821318 0.8789994636111 caudate_posvsneg_feedback_z bml 2261 0.0053771202 0.799998637811 caudate_posvsneg_feedback_z bromone_scr_ert_mean_z 2261 0.0003467373 0.987372444926 caudate_posvsneg_feedback_z bisbas_ss_basm_rn_z 2126 0.0003467373 0.987372444926 caudate_posvsneg_feedback_z rt_diff_large_neutral 2126 0.00107885720 0.016874597849 caudate_posvsneg_feedback_z rt_diff_large_mall_z 2243 0.004914553 0.81605145089 caudate_posvsneg_feedback_z cacumbens_rvsn_ant_z 2237 0.0045533418 0.82958032037 caudate_posvsneg_feedback_z caudate_posvsneg_feedback_z DFC_rvsn_ant_z 2236 0.002966045 0.68257677773 caudate_posvsneg_feedback_z DFC_rvsn_ant_z 2232 0.0299660415 0.1569851429 caudate_posvsneg_feedback_z DFC_rvsn_ant_z 2232 0.0299660415 0.1569851429 caudate_posvsneg_feedback_z zinterview_age 2261 0.003687603 0.82256613575	accumbens posvsneg feedback nzOFC rvsn ant z	2232	-0.0075138873	0.722744973205
caudate_posvsneg_feedback_z interview_age 2261 0.0029821318 0.8789994636111 caudate_posvsneg_feedback_z bml 2261 0.0053771202 0.799998637811 caudate_posvsneg_feedback_z bromone_scr_ert_mean_z 2261 0.0003467373 0.987372444926 caudate_posvsneg_feedback_z bisbas_ss_basm_rn_z 2126 0.0003467373 0.987372444926 caudate_posvsneg_feedback_z rt_diff_large_neutral 2126 0.00107885720 0.016874597849 caudate_posvsneg_feedback_z rt_diff_large_mall_z 2243 0.004914553 0.81605145089 caudate_posvsneg_feedback_z cacumbens_rvsn_ant_z 2237 0.0045533418 0.82958032037 caudate_posvsneg_feedback_z caudate_posvsneg_feedback_z DFC_rvsn_ant_z 2236 0.002966045 0.68257677773 caudate_posvsneg_feedback_z DFC_rvsn_ant_z 2232 0.0299660415 0.1569851429 caudate_posvsneg_feedback_z DFC_rvsn_ant_z 2232 0.0299660415 0.1569851429 caudate_posvsneg_feedback_z zinterview_age 2261 0.003687603 0.82256613575	 	2229	-0.0131584900	0.534651731652
caudate_posvsneg_feedback_z PDS_score 2261 0.0156764203 0.456243340898 caudate_posvsneg_feedback_z bromone_scr_ert_mean_z 2086 -0.0003467373 0.98737244926 caudate_posvsneg_feedback_z bromone_scr_ert_mean_z 2254 -0.00288765617 0.170337774885 caudate_posvsneg_feedback_z r_t_diff_large_small_z 2126 0.00167367590 0.618745975490 caudate_posvsneg_feedback_z r_t_diff_large_small_z 2233 0.0049145536 0.816051450836 caudate_posvsneg_feedback_z r_t_diff_large_small_z 2237 0.004533418 0.82958032037 caudate_posvsneg_feedback_z r_t_aut_r_v_s_ant_z 2237 0.004553418 0.82958032037 caudate_posvsneg_feedback_z r_t_t_t_r_s_ant_z 2236 0.0209566159 0.320732897943 caudate_posvsneg_feedback_z r_t_t_t_r_s_ant_z 2232 0.0209566159 0.330732887943 caudate_posvsneg_feedback_z r_t_t_t_r_s_ant_z 2232 0.0209574322 0.330288640921 caudate_posvsneg_feedback_z r_t_t_t_r_s_ant_z 2232 0.0209574322 0.730777777 caudate_posvsneg_feedback_z r_t_t_t_t_r_s_ant_z 2261 0.0030635833 0.0000000000 putamen_posvsneg	caudate_posvsneg_feedback_z interview_age	2261	-0.0029821318	0.887299445611
caudate_posvsneg_feedback_z z hormone_scr_ert_mean_z 2056 -0.003467373 0.987372444926 caudate_posvsneg_feedback_z z bisbas_ss_basm_rr_z 2254 -0.0288765617 0.170537774885 caudate_posvsneg_feedback_z rt_diff_large_small_z 2243 0.0049145536 0.81605145036 caudate_posvsneg_feedback_z cbcl_scr_syn_internal_r 2259 -0.0123236471 0.561169909466 caudate_posvsneg_feedback_z caudate_nosvsneg_feedback_z 200086356548 0.829580320237 caudate_posvsneg_feedback_z z caudate_rvsn_ant_z 2245 -0.0086356548 0.829580320237 caudate_posvsneg_feedback_z z putamen_rvsn_ant_z 2247 -0.009566159 0.32073289794 caudate_posvsneg_feedback_z z OFC_rvsn_ant_z 2236 0.020696615 0.156985141294 caudate_posvsneg_feedback_z z OFC_rvsn_ant_z 2232 0.009966915 0.156985141294 caudate_posvsneg_feedback_z z OFC_rvsn_ant_z 2239 0.0036687603 0.862256613575 putamen_posvsneg_feedback_z z DFS_score 2261 0.0107020479 0.119274930 putamen_	caudate_posvsneg_feedback_z bmi	2239	0.0053571202	0.799998637811
caudate_posveneg_feedback_z_r_diif_large_neutral_z	caudate_posvsneg_feedback_z PDS_score	2261	0.0156764203	0.456243340898
caudate posvsneg feedback z rt_diif large_nutral z 2126 0.0107985729 0.618745975490 caudate posvsneg feedback z rt_diif large_small z 2243 0.0049145536 0.816051450836 caudate posvsneg feedback z cles cr_syn_internal r 2257 0.004553418 0.829580320237 caudate posvsneg feedback z caudate_rvsn_ant_z 2245 -0.0086356548 0.829576077747 caudate posvsneg feedback z mOFC_rvsn_ant_z 2236 0.020596159 0.320732897943 caudate posvsneg feedback z mOFC_rvsn_ant_z 2232 0.0205966915 0.15695141294 caudate posvsneg feedback z mOFC_rvsn_ant_z 2232 0.0205966915 0.156968141294 caudate posvsneg feedback z mOFC_rvsn_ant_z 2232 0.0205974322 0.330286840921 caudate posvsneg feedback z more 2261 -0.0073977705 0.72515770780 putamen_posvsneg feedback z more 2261 -0.0073977770 0.72515770780 putamen_posvsneg feedback z more 2261 -0.0073977770 0.72515770780 putamen_posvsneg feedback z more 2261 -0.0073977770 0.72515770780 putamen_posvsneg feedback z more 2261 -0.017		2086	-0.0003467373	0.987372444926
caudate_posvsneg_feedback_z rt_diif_large_small_z 2243 0.0049145536 0.816051450836 caudate_posvsneg_feedback_z cbcl_scr_syn_internal_r 2259 -0.0122326471 0.51619909466 caudate_posvsneg_feedback_z cuuthens_rvsn_ant_z 2237 -0.0086356548 0.682576777777 caudate_posvsneg_feedback_z cuuthens_rvsn_ant_z 2245 -0.0086356548 0.682576777777 caudate_posvsneg_feedback_z moFC_rvsn_ant_z 2230 0.029966915 0.156985141294 caudate_posvsneg_feedback_z noFC_rvsn_ant_z 2232 0.0299669415 0.156985141294 caudate_posvsneg_feedback_z noFC_rvsn_ant_z 2230 0.0299669415 0.156985141294 caudate_posvsneg_feedback_z normone_scr_ert_man_z 2261 -0.0073977705 0.725157707980 putamen_posvsneg_feedback_z normone_scr_ert_mean_z 2261 -0.0170204790 0.1926872 0.929864361852 putamen_posvsneg_feedback_zrt_diif_large_neutral_z 2128 -0.0017926872 0.929864361852 putamen_posvsneg_feedback_zrt_diif_large_neutral_z 2218 -0.0173047949 0.419274939815 putamen_posvsneg_feedback_zracumbens_rvsn_ant_z 2230 -0.017261790 0.419274939815	caudate_posvsneg_feedback_z bisbas_ss_basm_rr_z	2254	-0.0288765617	0.170537774885
caudate_posvsneg_feedback_z rt_diif_large_small_z 2243 0.0049145536 0.816051450836 caudate_posvsneg_feedback_z cbcl_scr_syn_internal_r 2259 -0.0122326471 0.51619909466 caudate_posvsneg_feedback_z cuuthens_rvsn_ant_z 2237 -0.0086356548 0.682576777777 caudate_posvsneg_feedback_z cuuthens_rvsn_ant_z 2245 -0.0086356548 0.682576777777 caudate_posvsneg_feedback_z moFC_rvsn_ant_z 2230 0.029966915 0.156985141294 caudate_posvsneg_feedback_z noFC_rvsn_ant_z 2232 0.0299669415 0.156985141294 caudate_posvsneg_feedback_z noFC_rvsn_ant_z 2230 0.0299669415 0.156985141294 caudate_posvsneg_feedback_z normone_scr_ert_man_z 2261 -0.0073977705 0.725157707980 putamen_posvsneg_feedback_z normone_scr_ert_mean_z 2261 -0.0170204790 0.1926872 0.929864361852 putamen_posvsneg_feedback_zrt_diif_large_neutral_z 2128 -0.0017926872 0.929864361852 putamen_posvsneg_feedback_zrt_diif_large_neutral_z 2218 -0.0173047949 0.419274939815 putamen_posvsneg_feedback_zracumbens_rvsn_ant_z 2230 -0.017261790 0.419274939815		2126	0.0107985729	0.618745975490
caudate_posvsneg_feedback_z cbcl_scr_syn_internal_r 225 0.01232364T 0.56116990466 caudate_posvsneg_feedback_z z accumbens_rvsn_ant_z 2237 0.0045533418 0.829580320237 caudate_posvsneg_feedback_z z outate_rvsn_ant_z 2247 0.0005566159 0.320732897943 caudate_posvsneg_feedback_z z mOFC_rvsn_ant_z 2236 0.0205674322 0.320732897943 caudate_posvsneg_feedback_z z mOFC_rvsn_ant_z 2236 0.0205674322 0.320732897943 caudate_posvsneg_feedback_z z more receptable 2261 0.029066915 0.156985141294 caudate_posvsneg_feedback_z z outate_posvsneg_feedback_z 2007 0.0073977705 0.72517707980 putamen_posvsneg_feedback_z z pDS_score 2261 0.0130635838 0.534694340282 putamen_posvsneg_feedback_z bisbas_s_s_basm_rr_z 2254 0.0170204790 0.02966431855 putamen_posvsneg_feedback_zr_diff_large_small_z 2128 0.0085020630 0.695073777712 putamen_posvsneg_feedback_zr_diff_large_small_z 2212 0.00343428 0.558876705766 putamen_posvsneg_feedback_zr_diff_large_smal		2243	0.0049145536	0.816051450836
caudate_posvsneg_feedback_z acuumbens_rvsn_ant_z 2237 0.0045533418 0.829580320237 caudate_posvsneg_feedback_z audate_rvsn_ant_z 2245 -0.0086356548 0.320732887943 caudate_posvsneg_feedback_z rubren_rvsn_ant_z 2236 0.0205974322 0.330286840921 caudate_posvsneg_feedback_z rUFC_rvsn_ant_z 2232 0.0209669415 0.156985141294 caudate_posvsneg_feedback_z accumbens_posvsneg_feedback_z 2261 -0.0073977705 0.725157707980 putamen_posvsneg_feedback_zbrin age 2261 -0.0073977705 0.725157707980 putamen_posvsneg_feedback_zbrin age 2261 -0.003687603 0.62256613575 putamen_posvsneg_feedback_zbromone_scr_ert_mean_z 2089 0.0019268572 0.929864361852 putamen_posvsneg_feedback_zt-diff_large_neutral_z 2128 0.0085020630 0.69507377775 putamen_posvsneg_feedback_zclder_scr_syn_internal_r 2259 -0.012304428 0.655887605766 putamen_posvsneg_feedback_zclder_scr_syn_internal_r 2239 0.0095088955 0.652925680519 putamen_posvsneg_feedback_zcldedback_zclder_scr_syn_internal_r </td <td></td> <td>2259</td> <td>-0.0122326471</td> <td>0.561169909466</td>		2259	-0.0122326471	0.561169909466
caudate_posvsneg_feedback_z putamen_rvsn_ant_z 2247 0.0209566159 0.320732897943 caudate_posvsneg_feedback_z nOFC_rvsn_ant_z 2236 0.020966151 0.156985141294 caudate_posvsneg_feedback_z lOFC_rvsn_ant_z 2232 0.0299660415 0.156985141294 caudate_posvsneg_feedback_z accumbens_posvsneg_feedback_z241 0.580059933 0.0000000000 putamen_posvsneg_feedback_zbmi 2261 -0.0073977705 0.725157707980 putamen_posvsneg_feedback_zbmi 2261 0.0130635838 0.534691340282 putamen_posvsneg_feedback_zbmi 2261 0.01070204790 0.19274398155 putamen_posvsneg_feedback_zrt_diff_large_neutral_z 2128 0.00850630 0.69577377712 putamen_posvsneg_feedback_zrt_diff_large_small_z 2124 -0.0343094623 0.104350830599 putamen_posvsneg_feedback_zccumbens_rvsn_ant_z 2259 -0.0123043248 0.558876705766 putamen_posvsneg_feedback_zccumbens_rvsn_ant_z 2249 -0.0080184668 0.70390128593 putamen_posvsneg_feedback_zcaudate_rvsn_ant_z 2249 -0.0080184668 0.70390128593 putamen_posvsneg_feedback_zcaudate_rvsn_ant_z 2249		2237	0.0045533418	0.829580320237
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x1	x2	N	corr	p
lOFC_posvsneg_feedback_z	bmi	2237	0.0049682173	0.814323949581
$lOFC_posvsneg_feedback_z$	PDS_score	2259	0.0012942124	0.950978120757
$lOFC_posvsneg_feedback_z$	$hormone_scr_ert_mean_z$	2083	0.0459256088	0.036092158446
$lOFC_posvsneg_feedback_z$	$bisbas_ss_basm_rr_z$	2252	-0.0119157804	0.571956537020
$lOFC_posvsneg_feedback_z$	$rt_diff_large_neutral_z$	2125	0.0042629481	0.844299080466
$lOFC_posvsneg_feedback_z$	$rt_diff_large_small_z$	2241	0.0025625947	0.903498011085
$lOFC_posvsneg_feedback_z$	$cbcl_scr_syn_internal_r$	2257	-0.0120998965	0.565600286343
$lOFC_posvsneg_feedback_z$	$accumbens_rvsn_ant_z$	2237	0.0093897719	0.657137309959
$lOFC_posvsneg_feedback_z$	$caudate_rvsn_ant_z$	2246	-0.0201125706	0.340721650078
$lOFC_posvsneg_feedback_z$	$putamen_rvsn_ant_z$	2247	0.0028936748	0.890958492773
$lOFC_posvsneg_feedback_z$	$mOFC_rvsn_ant_z$	2236	0.0321743499	0.128272144745
$lOFC_posvsneg_feedback_z$	$lOFC_rvsn_ant_z$	2235	0.0298396860	0.158474892725
$lOFC_posvsneg_feedback_z$	accumbens_posvsneg_feedbac	ck_2 2 42	0.4374011548	0.0000000000000
$lOFC_posvsneg_feedback_z$	$caudate_posvsneg_feedback_$	z 2242	0.5030177996	0.0000000000000
$lOFC_posvsneg_feedback_z$	putamen_posvsneg_feedback_		0.4093071009	0.0000000000000
$lOFC_posvsneg_feedback_z$	$mOFC_posvsneg_feedback_z$	2252	0.7353025060	0.0000000000000

Males

x1	x2	N	corr	p
bmi	interview_age	3006	0.09901807134	0.00000005328691288220
PDS_score	interview_age	3033	0.14179694234	0.00000000000000444089
PDS_score	bmi	3006	0.21893123996	0.0000000000000000000000000000000000000
hormone_scr_ert_mean_z	interview_age	2826	0.14676432362	0.00000000000000444089
hormone_scr_ert_mean_z	bmi	2799	0.17501149364	0.0000000000000000000000000000000000000
hormone_scr_ert_mean_z	PDS_score	2826	0.22501636634	0.0000000000000000000000000000000000000
bisbas_ss_basm_rr_z	interview_age	3018	-	0.69610354693418563520
	Ţ.		0.00711264449	
bisbas_ss_basm_rr_z	bmi	2992	0.01234488559	0.49967662800618528606
bisbas ss basm rr z	PDS score	3018	0.04156684036	0.02239678731609107131
bisbas ss basm rr z	hormone scr ert mean z	2812	-	0.00311071263200446424
			0.05573620783	
rt diff large neutral z	interview age	2449	0.02942860483	0.14541580906027107289
rt diff large neutral z	bmi	2429	-	0.06735753940858302257
0			0.03712278322	
rt diff large neutral z	PDS score	2449	_	0.00000444267820931543
	<u> </u>		0.09258922322	
rt_diff_large_neutral_z	hormone scr ert mean z	2292	_	0.00000000014240875145
			0.13343296903	
rt_diff_large_neutral_z	bisbas ss basm rr z	2440	0.08074422076	0.00006525707437976535
rt diff large small z	interview age	3008	-	0.30537633725773982718
		0000	0.01869458104	
rt diff large small z	bmi	2982	0.02145298845	0.24154178998817821266
rt diff large small z	PDS score	3008	0.00588371427	0.74702669553511502620
rt diff large small z	hormone scr ert mean z	2804	-	0.05862533733517727441
ro_diii_laige_biilaii_z		2001	0.03571543384	0.00002000100011121111
rt diff large small z	bisbas ss basm rr z	2993	0.06601788795	0.00030132066886157105
rt diff large small z	rt diff large neutral z	2430	0.43250892828	0.0000010200000101100
cbcl_scr_syn_internal_r	interview_age	3033	0.49230032020 0.00573279218	0.75231169846117262878
cbcl_scr_syn_internal_r	bmi	3006	0.00575279218 0.03620027847	0.04719148125285821393
cbcl_scr_syn_internal_r	PDS score	3033	0.03020027847 0.02172795021	0.23159340138303630141
coci_sci_syii_internai_f	I Db_score	9099	0.02172793021	0.25159540156505050141

<u>x1</u>	x2	N	corr	p
cbcl_scr_syn_internal_r	hormone_scr_ert_mean_z	2826	- 0.02461338528	0.190849508118435373660
cbcl_scr_syn_internal_r	bisbas_ss_basm_rr_z	3018	-	0.203366760762150100561
	1.00	0.1.10	0.02316089276	0 1 00 101 000 000 01 000 00 1
cbcl_scr_syn_internal_r cbcl_scr_syn_internal_r	rt_diff_large_neutral_z rt_diff_large_small_z	$\frac{2449}{3008}$	0.02837198444	0.160431833537241663734 0.386281640975641549218
coci_sci_syn_internal_i	rt_diii_iarge_siiiaii_z	3000	0.01580240127	0.300201040973041349210
accumbens rvsn ant z	interview age	2432	-	0.966826475335313961779
	_ 0		0.00084375858	
$accumbens_rvsn_ant_z$	bmi	2413	0.03494566382	0.086117033422123734354
$accumbens_rvsn_ant_z$	PDS_score	2432	0.09349996430	0.000003860956267143223
$accumbens_rvsn_ant_z$	$hormone_scr_ert_mean_z$	2272	0.06348981340	0.002464526208553863285
$accumbens_rvsn_ant_z$	$bisbas_ss_basm_rr_z$	2422	0.07123926020	0.000450464160367314292
$accumbens_rvsn_ant_z$	$rt_diff_large_neutral_z$	2262	-	0.666056079716124127543
			0.00907889919	
$accumbens_rvsn_ant_z$	$rt_diff_large_small_z$	2415	0.05553112830	0.006340347119055067537
$accumbens_rvsn_ant_z$	$cbcl_scr_syn_internal_r$	2432	-	0.002122505509326799711
			0.06227536670	
caudate_rvsn_ant_z	$interview_age$	2443	0.02975993276	0.141424072144402668272
$caudate_rvsn_ant_z$	bmi	2423	-	0.516665465794564182644
			0.01318058163	
$caudate_rvsn_ant_z$	PDS_score	2443	0.04011023540	0.047445653555861166950
$caudate_rvsn_ant_z$	hormone_scr_ert_mean_z	2284	-	0.606519125480552201424
			0.01078264395	
caudate_rvsn_ant_z	bisbas_ss_basm_rr_z	2433	0.06594087372	0.001136184985245147772
$caudate_rvsn_ant_z$	$rt_diff_large_neutral_z$	2274	0.04182043679	0.046147126631919999085
$caudate_rvsn_ant_z$	$rt_diff_large_small_z$	2424	0.02662542670	0.190048384698160433004
$caudate_rvsn_ant_z$	$cbcl_scr_syn_internal_r$	2443	-	0.404008984462626674627
			0.01689067442	
caudate_rvsn_ant_z	$accumbens_rvsn_ant_z$	2409	0.62713172383	0.0000000000000000000000000000000000000
putamen_rvsn_ant_z	$interview_age$	2436	0.02661835161	0.189071848825972388397
$putamen_rvsn_ant_z$	bmi	2416	-	0.695377955822406690345
			0.00797032184	
putamen_rvsn_ant_z	PDS_score	2436	0.02823487235	0.163583924174724337774
$putamen_rvsn_ant_z$	$hormone_scr_ert_mean_z$	2280	-	0.662237983022925913446
			0.00915312893	
putamen_rvsn_ant_z	bisbas_ss_basm_rr_z	2426	0.01096520825	0.589319042011408722459
putamen_rvsn_ant_z	rt_diff_large_neutral_z	2268	0.03129504198	0.136244361762121846127
putamen_rvsn_ant_z	rt_diff_large_small_z	2417	0.01784322370	0.380572288308834938420
putamen_rvsn_ant_z	cbcl_scr_syn_internal_r	2436	-	0.259594231344143500095
			0.02285002389	
putamen_rvsn_ant_z	accumbens_rvsn_ant_z	2402	0.56800319434	0.0000000000000000000000000000000000000
putamen_rvsn_ant_z	caudate_rvsn_ant_z	2419	0.79874635823	0.0000000000000000000000000000000000000
mOFC_rvsn_ant_z	interview_age	2430	0.01440214017	0.477936435446448149023
mOFC_rvsn_ant_z	bmi	2411	0.05350017593	0.008601948515116308869
mOFC_rvsn_ant_z	PDS_score	2430	0.13214927647	0.0000000000061663119055
mOFC_rvsn_ant_z	hormone_scr_ert_mean_z	2271	0.08709888959	0.000032342359700621159
mOFC_rvsn_ant_z	bisbas_ss_basm_rr_z	2420	0.06955791549	0.000616664579573544813
mOFC_rvsn_ant_z	rt_diff_large_neutral_z	2262	-	0.014256513134866644066
0.776	1.00	a	0.05152304302	0 -0 00 1-000 1-1-1-1-1
mOFC_rvsn_ant_z	$rt_diff_large_small_z$	2412	0.00686720049	0.736047623103460058047

0.07809027945 mOFC_rvsn_ant_z accumbens_rvsn_ant_z 2402 0.51172058771 0.0000000000000000000000000000000000	x1 2	x2	N	corr	p
MOFC_rvsn_ant_z accumbens_rvsn_ant_z 2402 0.51172058771 0.0000000000000000000000000000000000	mOFC rvsn ant z	cbcl scr syn internal r	2430	-	0.000116504432584374484
MOFC rvsn ant z				0.07809027945	
MOFC rvsn_ant z caudate_rvsn_ant z 2404 0.40706857542 0.0000000000000000000000000000000000	mOFC rvsn ant z	accumbens rvsn ant z	2402	0.51172058771	0.0000000000000000000000000000000000000
MOFC rvsn_ant z putamen_rvsn_ant z 2398 0.34221664046 0.0000000000000000000000000000000000			2404		0.0000000000000000000000000000000000000
IOFC			2398		0.0000000000000000000000000000000000000
OFC rvsn ant z bmi 2401 0.4067463653 0.04627853165514062000 OFC rvsn ant z hormone scr ert mean z 2203 0.05447634656 0.009542331440759439322000 OFC rvsn ant z bisbas ss basm r z 2410 0.11490301248 0.0000001543944483375 0.01544670923 0.01544670923 0.01544670923 0.01544670923 0.01544670923 0.01544670923 0.01544670923 0.01544670923 0.01544670923 0.01544670923 0.01544670923 0.01544670923 0.01544670923 0.01544670923 0.01544670923 0.01544670923 0.01544670923 0.0000000000000000000000000000000000					0.12506601527238236926
10FC_rvsn_ant_z		_	2401		0.04627853165514062006
10FC		PDS score			0.00000000824293922008
OFC_rvsn_ant_z		_			0.009542331440759443950
OFC_rvsn_ant_z					
10FC_rvsn_ant_z				-	
OFC_rvsn_ant_z				0.01544670923	
OFC_rvsn_ant_z	lOFC rvsn ant z	rt diff large small z	2403		0.48815212713102384967
0.08300084935 0.5665853016 0.0000000000000000000000000000000000				_	
OFC_rvsn_ant_z				0.08300084935	
OFC_rvsn_ant_z	lOFC rvsn ant z	accumbens rvsn ant z	2397		0.0000000000000000000000000000000000000
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OFC_rvsn_ant_z					
accumbens_posvsneg_feedbacktorview_age accumbens_posvsneg_feedbacktmiz 2414 0.01734329105 0.39435757616663336122 accumbens_posvsneg_feedbacktDS_score 2434 - 0.04003535161 accumbens_posvsneg_feedbacktDS_score 2434 - 0.04003535161 accumbens_posvsneg_feedbacktDS_score 2434 - 0.04003535161 accumbens_posvsneg_feedbackt_dist_dist_as_ss_basm_rr_z 2424 - 0.03783381903965121750 accumbens_posvsneg_feedbackt_xliff_large_neutral_z 2424 - 0.04218206657 accumbens_posvsneg_feedbackt_xliff_large_small_z 2415 - 0.17250843635679524725 accumbens_posvsneg_feedbackt_xliff_large_small_z 2415 - 0.17250843635679524725 accumbens_posvsneg_feedbackt_xliff_large_small_z 2415 - 0.02776877842 accumbens_posvsneg_feedbackt_xliff_large_small_z 2445 - 0.96711783641968018798 accumbens_posvsneg_feedbackt_xliff_large_neutral_z 2406 - 0.03700613104 accumbens_posvsneg_feedbackt_xliff_large_neutral_z 2409 - 0.34906036003235518805 accumbens_posvsneg_feedbackt_xlift_large_neutral_z 2409 - 0.0382375503 0.85142060357290261225 accumbens_posvsneg_feedbackt_xlift_large_neutral_z 2400 - 0.00314023457289391845 0.06026804789 accumbens_posvsneg_feedback_bini 2357 0.00481609269 0.81522290333456237654 caudate_posvsneg_feedback_kormone_scr_ert_mean_z 2407 0.00481609269 0.81522290333456237654 caudate_posvsneg_feedback_kormone_scr_ert_mean_z 2408 0.00697389740 0.00943675608 caudate_posvsneg_feedback_bisbas_ss_basm_rr_z 2408 0.03678218426 0.08399229406590613678 c					
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accumbens_posvsneg_feedbackt_zdiff_large_neutral_z 2424 - 0.04218206657 accumbens_posvsneg_feedbackt_zdiff_large_neutral_z 2415 - 0.17250843635679524723 accumbens_posvsneg_feedbackt_sdiff_large_small_z 2415 - 0.02776877842 accumbens_posvsneg_feedbackd_scr_syn_internal_r 2434 - 0.06008359965 accumbens_posvsneg_feedbackd_scr_syn_internal_r 2434 - 0.06954452890152129640 accumbens_posvsneg_feedbackd_scr_syn_ant_z 2406 - 0.03700613104 accumbens_posvsneg_feedbackd_scr_syn_ant_z 2409 - 0.34906036003235518805 accumbens_posvsneg_feedbackd_scr_syn_ant_z 2400 - 0.00382375503 0.85142060357290261229 accumbens_posvsneg_feedbackd_scr_rysn_ant_z 2400 - 0.00382375503 0.85142060357290261229 accumbens_posvsneg_feedbackd_scr_rysn_ant_z 2400 - 0.003467304719 accumbens_posvsneg_feedbackd_scr_rysn_ant_z 2400 - 0.003467304719 accumbens_posvsneg_feedback_scr_rysn_ant_z 2400 - 0.0048609269 0.81522290333456237654 accumbens_posvsneg_feedback_scr_rysn_ant_z 2400 - 0.00481609269 0.81522290333456237654 accumbens_posvsneg_feedback_scr_rysn_ant_z 2400 - 0.00943675608 accumbens_posvsneg_feedback_scr_rysn_ant_z 2400 - 0.00907389740 accumbens_posvsneg_feedback_scr_rysn_ant_z 2400 - 0.00907389740 accumbens_posvsneg_feedback_scr_rysn_ant_z 2400 - 0.03678218426 0.08399229406590613678 accumbens_posvsneg_feedback_scr_rysn_ant_z 2400 - 0.03678218426 0.08399	accumbens posysneg feedbad	kormone scr ert mean z	2277	-	0.09895918175001505723
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accumbens_posvsneg_feedbackt_zdiff_large_neutral_z	accumbens_posvsneg_recubaci	<u>ui_5_2ct5555ct5111112</u>	2121	0.04218206657	0.001000010000001211000
accumbens_posvsneg_feedbackt_zliff_large_small_z	accumbens posysner feedback	kt diff large neutral z	2264		0.48844009959703216239
0.02776877842 0.96711783641968018798 0.00083599965 0.00083599965 0.00083599965 0.00083599965 0.006954452890152129640 0.03700613104 0.03700613104 0.03700613104 0.034906036003235518805 0.01908688863 0.01908688863 0.01908688863 0.01908688863 0.00382375503 0.85142060357290261229 0.00382375503 0.85142060357290261229 0.00382375503 0.85142060357290261229 0.006026804789 0.06026804789 0.06026804789 0.06026804789 0.003467304719 0.008992941570110035698 0.03467304719 0.00943675608 0.00481609269 0.81522290333456237654 0.00943675608 0.00943675608 0.00943675608 0.00943675608 0.00943675608 0.00943675608 0.00943675608 0.00907389740 0.00907389740 0.00907389740 0.00907389740 0.00907389740 0.00907389740 0.08399229406590613678 0.03678218426 0.08399229406590613678 0.084762668691257722741 0.089073229 0.081762668691257722741 0.089073229 0.081762668691257722741 0.089073229 0.08399229406590613678 0.00907389740 0.0090738974				-	
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0.06026804789 0.08992941570110035698 0.03467304719 0.003467304719 0.00006108203 0.99762513491160609291 0.00481609269 0.81522290333456237654 0.00943675608				0.00362313303	
accumbens_posvsneg_feedbadloecc_rvsn_ant_z	accumbens_posvsneg_reedbad	maiozr C_ivsii_aiit_z	2400	0.06026904790	0.00314023437269391649
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<u> </u>				0.03678218426	
0.00474928558	caudate_posvsneg_feedback_r	zt_diff_large_small_z	2360	-	0.81762668691257722741
				0.00474928558	

x1	x2	N	corr	p
caudate_posvsne	g_feedback_øbcl_scr_syn_internal_r	2377	- 0.02996828687	0.144112075235352854463
caudate_posvsne	g_feedback_ z ccumbens_rvsn_ant_z	2341	-	0.561888003836056748597
caudate posvsne	g_feedback_zaudate_rvsn_ant_z	2350	0.01199425370 0.04043208349	0.050021919351130872400
	g_feedback_putamen_rvsn_ant_z	2344	0.02213305434	0.284111587194208814466
	g_feedback_mOFC_rvsn_ant_z	2336	0.01481136222	0.474286815717435139561
caudata nosvena	g_feedback_kOFC_rvsn_ant_z	2328	0.03033803970	0.143373979798064876690
	g_feedback_zccumbens_posvsneg_feedback		0.58899369286	0.0000000000000000000000000000000000000
	eg_feedback_ <u>in</u> terview_age	2383	0.00273729438	0.893755378282142576296
putamen_posvsn	og foodback byni	2363	0.00273729438	0.515139440116939351100
	eg_feedback_bbn eg_feedback_PbS_score	2383	0.01333303670	0.845969768641449348934
putamen_posvsn	eg_leedback_1zb5_score	2303	0.00398157413	0.040909100041449340934
nutaman naguan	or foodbaak harmona can out maan z	2224	0.00390137413	0.004338924756839723784
putamen_posvsn	eg_feedback_hørmone_scr_ert_mean_z	2224	0.06046319246	0.004556924150659125164
nutamen nosvsn	eg_feedback_b z sbas_ss_basm_rr_z	2374	-	0.837269421559390991661
paramen_posvsn	cs_recuback_babbab_bb_babiii_ii_2	2011	0.00421755166	0.0012001210000000001001
nutamen nosven	eg_feedback <u>rtz_diff_large_neutral_z</u>	2213	0.06339714257	0.002848055238067637163
	eg_feedback <u>rtz_diff_large_small_z</u>	2365	0.01063571426	0.605177483100072910460
	eg_feedback_tk_din_farge_sman_z eg_feedback_cbcl_scr_syn_internal_r	2383	0.00783654827	0.702198844105519359715
	eg_feedback_accumbens_rvsn_ant_z	2346	0.00103034021	0.509707197566256597909
putamen_posvsii	eg_leedback_abcumbens_ivsn_ant_z	2040	0.01361840648	0.909101191900290991908
nutaman naguan	or foodbaak arudata wan ant z	2355	0.01301340048	0.127723235598041107153
	eg_feedback_czudate_rvsn_ant_z eg_feedback_pztamen_rvsn_ant_z		0.03139337333	
	eg_feedback_nzOFC_rvsn_ant_z	2349	0.03130169410	0.129353343579055479751
putamen_posvsn	eg_leedback_morC_rvsn_ant_z	2343	0.01835094683	0.374610692444822257485
nutamon nogyen	eg_feedback_l@FC_rvsn_ant_z	2334	0.00776312375	0.707769938297894363188
	eg_feedback_wrC_fvsn_ant_z eg_feedback_avcumbens_posvsneg_feedb		0.52461122409	0.0000000000000000000000000000000000000
	eg_feedback_aøcumbens_posvsneg_feedback eg_feedback_cæudate_posvsneg_feedback		0.80040436905	0.00000000000000000000000000000000000
-	eg_leedback_zinterview_age _feedback_zinterview_age	_ z 308	0.01562230752	0.441352458907005917865
mOFC_posvsneg			0.01660300859	0.415144871737123555278
		2411	0.01000500659	
mOrC_posvsneg	_feedback_zPDS_score	2431	0.00454404692	0.822811038423835627853
mOFC posysneg	feedback zhormone scr ert mean z	2270	-	0.757382444398246201800
more_periones		22.0	0.00648735538	0.101002111000210201000
mOFC posysneg	feedback zbisbas ss basm rr z	2421	0.05443269000	0.007386655993865787195
~	feedback zrt diff large neutral z	2264	-	0.774316104406563177065
more_posysnes		2201	0.00602943673	0.171010101100000117000
mOFC posysneg	feedback zrt_diff_large_small_z	2412	0.01590365520	0.434975040317294059378
	feedback zcbcl scr syn internal r	2431	-	0.881229635422520196641
more_posysticg	iccdbackzcbciscisyiiinternaii	2491	0.00303187575	0.001223030422320130041
mOFC posyenog	feedback_zaccumbens_rvsn_ant_z	2404	0.04188007933	0.040049463891809855554
	ieedback_zaccumbens_ivsn_ant_z _feedback_zcaudate_rvsn_ant_z	2404 2403	0.04188007933	0.327476474137658346564
	reedback_zcaudate_rvsn_ant_z _feedback_zputamen_rvsn_ant_z	2403 2397	0.01998395261	
	ieedback_zputamen_rvsn_ant_z _feedback_zmOFC_rvsn_ant_z	2402	0.04659451273	0.022391628355140191786
		2396		
	_feedback_zlOFC_rvsn_ant_z		0.05338257790	0.008961449727728609815
	_feedback_zaccumbens_posvsneg_feedb		0.41319572902	
	feedbackzcaudateposvsnegfeedback		0.36670321807	
	_feedback_zputamen_posvsneg_feedbac feedback_z interview_age			0.0000000000000000000000000000000000000
	teedback 7 interview are	2422	0.01411819958	0.487377193525776908345

x1 x2	N	corr	p
lOFC_posvsneg_feedback_z bmi	2402	0.02558697547	0.209996400457910681325
lOFC_posvsneg_feedback_z PDS_score	2422	0.01321626623	0.515617576864819460170
lOFC_posvsneg_feedback_z hormone_scr_ert_mean_r	z 2264	0.00787856319	0.707903889264451358088
lOFC_posvsneg_feedback_z bisbas_ss_basm_rr_z	2412	0.04385553220	0.031259175508701719792
lOFC_posvsneg_feedback_z rt_diff_large_neutral_z	2254	0.01194555678	0.570825212162784145775
lOFC_posvsneg_feedback_z rt_diff_large_small_z	2405	0.02515424100	0.217524326397522393961
lOFC_posvsneg_feedback_z cbcl_scr_syn_internal_r	2422	-	0.829560005193368255050
		0.00437633305	
lOFC_posvsneg_feedback_z accumbens_rvsn_ant_z	2396	0.03670423250	0.072446584029092209178
lOFC_posvsneg_feedback_z caudate_rvsn_ant_z	2394	0.03348496100	0.101427283265459911021
lOFC_posvsneg_feedback_z putamen_rvsn_ant_z	2389	0.03889287836	0.057340413080358754172
lOFC_posvsneg_feedback_z mOFC_rvsn_ant_z	2394	0.06502538799	0.001456048624377315193
lOFC_posvsneg_feedback_z lOFC_rvsn_ant_z	2389	0.08237445186	0.000055541551306603765
lOFC_posvsneg_feedback_z accumbens_posvsneg_feed	lbad 2 39 9	0.42266226996	0.0000000000000000000000000000000000000
lOFC_posvsneg_feedback_z caudate_posvsneg_feedback	0.49190510904	0.0000000000000000000000000000000000000	
lOFC_posvsneg_feedback_z putamen_posvsneg_feedback	ack <u>2</u> 339	0.41713448174	0.0000000000000000000000000000000000000
lOFC_posvsneg_feedback_z mOFC_posvsneg_feedback	k_z2416	0.74526572267	0.00000000000000000000000000000000000