

The relationship between a translational cognitive measure of negative bias and self-reported psychiatric symptoms in a large online sample

Background

This study builds on prior work developing a measure of negative affective bias as indexed by proportion of mid tones interpreted as high reward ('p(mid as high)') in A) a rat pharmacological model of mood and anxiety disorders (Hales et al., 2016) and B) humans with mood and anxiety disorders relative to healthy controls (Aylward et al., 2019).

Task details

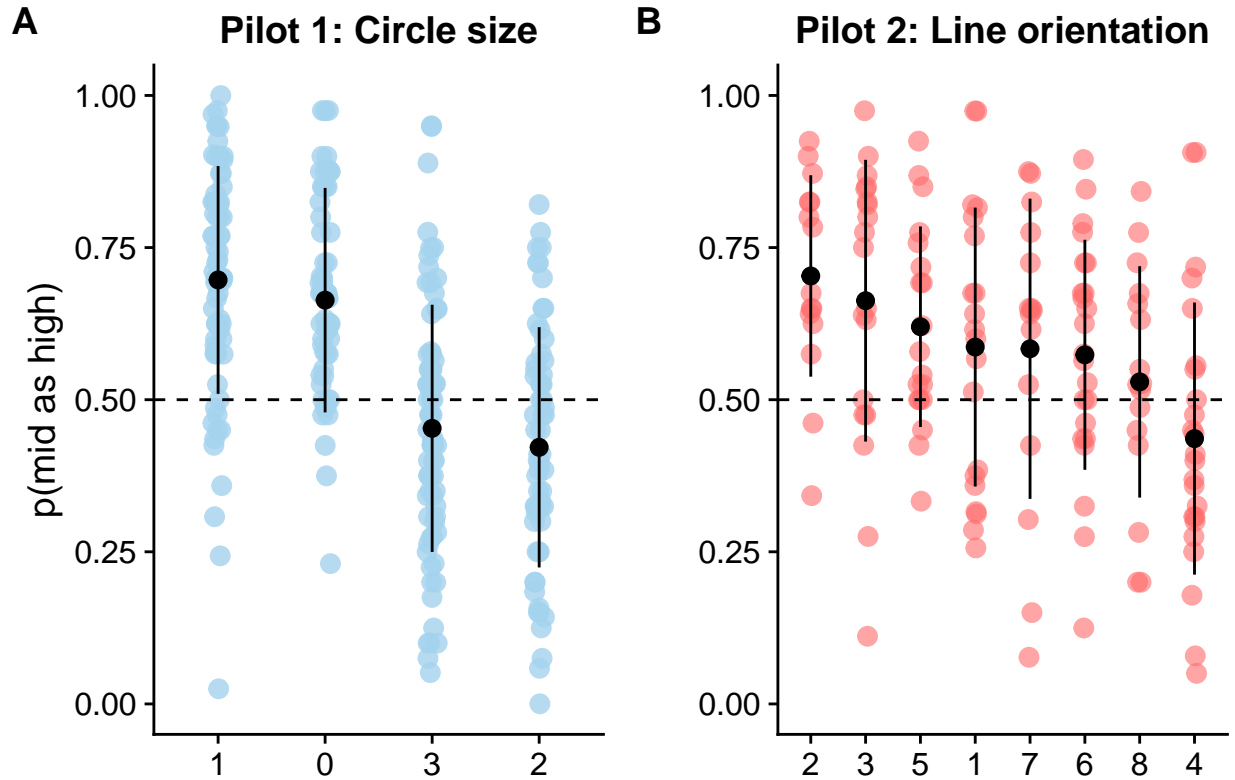
In both cases, the 2-alternative-forced-choice task involved training participants to press a button/lever (left or right) when they heard a tone (high or low) to receive a reward (1 or 3 £/rat pellets). The stimulus-response-outcome contingencies were 100% (but counterbalanced across individuals). Following training, participants were then also played tones of a frequency exactly equidistant between the high and low tones. The primary outcome of interest is the proportion of times the participant pressed the button/lever associated with the high reward outcome for the ambiguous mid tone (referred to as 'p(mid as high)'). Of note, the rat study is a within-subject anxiogenic manipulation, whereas the human study is a case control design. Both A) symptomatic ('Symptom') rats and B) humans both demonstrate significantly increased negative affective bias (i.e. reduced prediction that ambiguous outcomes will lead to higher rewards: 'p(mid as high)') relative to non-symptomatic controls ('HC').

Next steps

This prior work suggests that this cognitive measure is sensitive to pathological symptoms. We have three objectives for the present study. Firstly we wanted to explore and remove sources of between-subject bias within the task so as to maximise our chances of measuring individual differences in task performance. Secondly, we wanted to explore factors which contribute to individual differences in task performance in a large cross-sectional sample. Specifically, we are interested in which specific psychiatric-relevant symptoms/traits contribute to task performance. Finally, once we identify relevant traits, can we re-capitulate the effect of clinical screening in a large unscreened online sample?

1: Piloting to explore sources of between-subject bias

To speed up data collection and facilitate the collection of larger samples we adapted the task for online use. To this end, we decided to switch the task from the auditory domain (which would require us to check/trust that remote participants could hear the stimuli) to the visual domain. In the first pilot A) we tested N=264 participants in a version of the task which substituted high and low frequency tones of large and small area circles. This led to four counterbalancing versions (labelled 1-4 below; sorted by level of bias). Following discovery of clear between-subject bias we next tested B) N=158 individuals on a task that involved orientation of a line. Instead of high/low we had vertical/horizontal. The intermediate stimuli were either 45 or 135 degrees, which lead to 8 counterbalancing versions (labelled 1-8 below; sorted by level of bias).



```
##           Df Sum Sq Mean Sq F value Pr(>F)
## group      3  3.964  1.3215  35.28 <2e-16 ***
## Residuals 260  9.739  0.0375
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1

##           eta.sq eta.sq.part
## group 0.2893019  0.2893019

##           Df Sum Sq Mean Sq F value Pr(>F)
## group      7  0.929  0.13267  3.077 0.00475 **
## Residuals 143  6.165  0.04311
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1

##           eta.sq eta.sq.part
## group 0.1309089  0.1309089

## Tukey multiple comparisons of means
## 95% family-wise confidence level
##
## Fit: aov(formula = Pmid ~ group, data = pilot1cb)
##
## $group
##           diff           lwr           upr           p adj
```

```

## 1-0  0.03319086 -0.05510565  0.1214874 0.7655217
## 2-0 -0.24185068 -0.33400241 -0.1496990 0.0000000
## 3-0 -0.21067170 -0.29843425 -0.1229092 0.0000000
## 2-1 -0.27504154 -0.36251921 -0.1875639 0.0000000
## 3-1 -0.24386256 -0.32670376 -0.1610213 0.0000000
## 3-2  0.03117898 -0.05575969  0.1181177 0.7902342

## Tukey multiple comparisons of means
## 95% family-wise confidence level
##
## Fit: aov(formula = Pmid ~ group, data = pilot2cb)
##
## $group
##          diff          lwr          upr          p adj
## 2-1  0.116847213 -0.10133355  0.33502797 0.7205659
## 3-1  0.076216643 -0.12842007  0.28085336 0.9453463
## 4-1 -0.150419157 -0.34381573  0.04297742 0.2529895
## 5-1  0.033392280 -0.17124444  0.23802900 0.9996371
## 6-1 -0.012709407 -0.20800766  0.18258885 0.9999993
## 7-1 -0.002821500 -0.22100226  0.21535926 1.0000000
## 8-1 -0.057236747 -0.27148600  0.15701251 0.9916272
## 3-2 -0.040630570 -0.26125829  0.17999715 0.9991964
## 4-2 -0.267266370 -0.47751061 -0.05702213 0.0034682
## 5-2 -0.083454933 -0.30408266  0.13717279 0.9407917
## 6-2 -0.129556620 -0.34155147  0.08243823 0.5668175
## 7-2 -0.119668713 -0.35291376  0.11357633 0.7624254
## 8-2 -0.174083960 -0.40365562  0.05548770 0.2834033
## 4-3 -0.226635800 -0.42278876 -0.03048284 0.0117584
## 5-3 -0.042824363 -0.25006802  0.16441930 0.9983082
## 6-3 -0.088926050 -0.28695422  0.10910212 0.8642912
## 7-3 -0.079038143 -0.29966587  0.14158958 0.9554490
## 8-3 -0.133453390 -0.35019400  0.08328722 0.5571819
## 5-4  0.183811438 -0.01234152  0.37996440 0.0838114
## 6-4  0.137709750 -0.04868018  0.32409968 0.3158952
## 7-4  0.147597657 -0.06264658  0.35784190 0.3824994
## 8-4  0.093182411 -0.11297903  0.29934385 0.8602737
## 6-5 -0.046101687 -0.24412986  0.15192649 0.9964027
## 7-5 -0.036213780 -0.25684150  0.18441394 0.9996228
## 8-5 -0.090629027 -0.30736963  0.12611158 0.9025639
## 7-6  0.009887907 -0.20210694  0.22188275 0.9999999
## 8-6 -0.044527340 -0.25247376  0.16341908 0.9978766
## 8-7 -0.054415247 -0.28398691  0.17515642 0.9959758

```

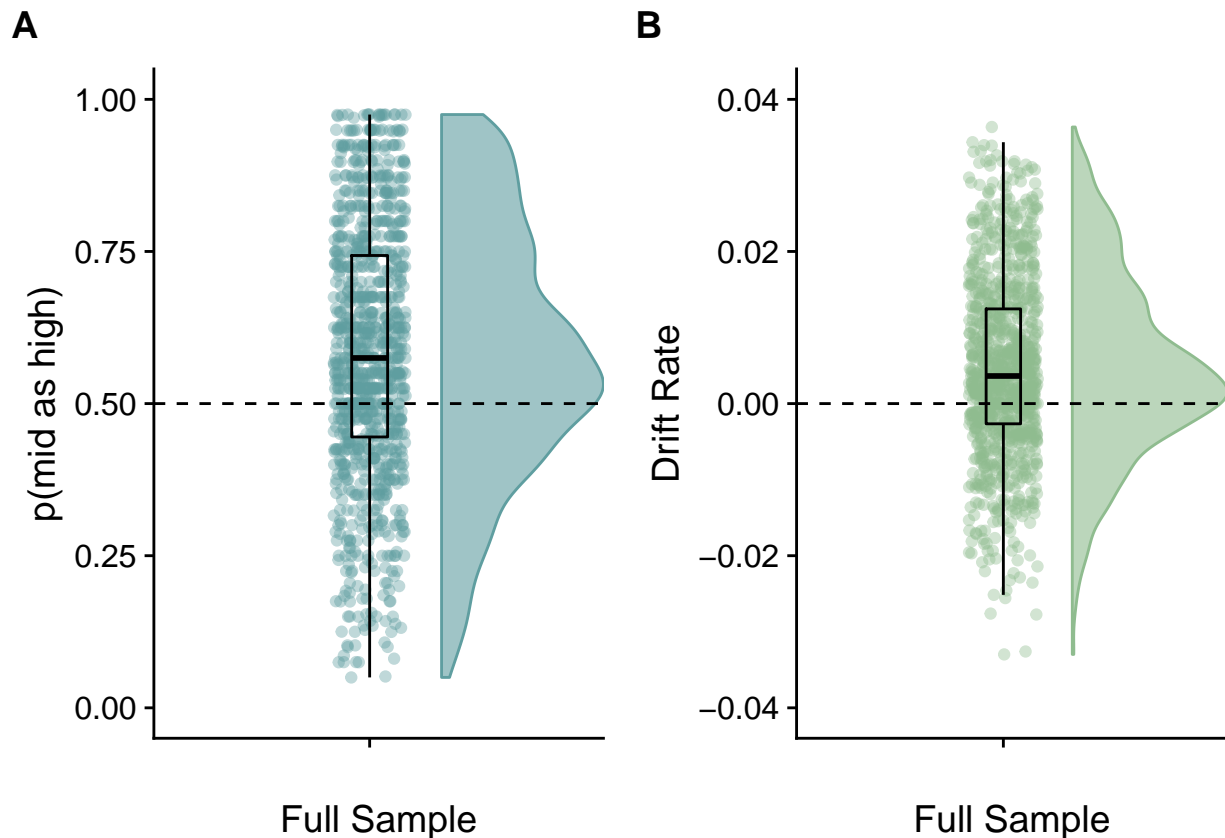
Interpretation

Both tasks demonstrate clear sources of between-subject bias. In short, individuals demonstrated ‘higher’ bias when large (or vertical) stimuli were paired with large rewards on the right hand side. These reflect pre-potent biases (e.g. bigger things usually cost more and in latin languages we read from left to right etc.). Smaller biases were observed when the stimulus-response-outcome contingencies were incongruent with these pre-potent biases. These biases add to the noise in within-subject or case-control designs, but effects can still be observed over and above these effects. Unfortunately if we care about within-subject differences in a cross-sectional design we have to remove this. We decided to restrict further testing to the intermediate bias scores on pilot 2 (counterbalancing 1 and 7). Thus we would need to control for counterbalancing but would only have two groups (rather than 8). Of note, we chose pilot 2 design rather than pilot 1 because a

circle has both area and diameter that a participant may attend to, whereas there is only one interpretation of line orientation.

2: Exploring contributors to bias in cross-sectional data

We next collected data from N=1066 using counterbalancing 1 and 7 from pilot 2. As in the pilot the full sample demonstrate a) affective bias (p(mid) as high) and d) drift rate that are significantly biased towards highest reward (see results of one sample t-tests below figure). Drift rate is a parameter from a ‘drift diffusion model’ of decision making that we discussed in Aylward et al. 2019. The effects are strongly correlated with p(mid as high), but presented for completeness. Since the internal reliability of a measure puts an upper limit on relationship between that measure and other measures we also determined the split-half reliability (for 100000 random splits) of individual’s responses to the 40 ambiguous trials.



```
##
## One Sample t-test
##
## data: combineditemdata$propmedhigh
## t = 12.089, df = 993, p-value < 2.2e-16
## alternative hypothesis: true mean is not equal to 0.5
## 95 percent confidence interval:
## 0.5671525 0.5931778
## sample estimates:
## mean of x
## 0.5801652
```

```
##
## One Sample t-test
##
## data: combineditemdata$driftrate
## t = 12.113, df = 993, p-value < 2.2e-16
## alternative hypothesis: true mean is not equal to 0
## 95 percent confidence interval:
## 0.003843921 0.005330160
## sample estimates:
## mean of x
## 0.00458704
```

	mean	std	lower range	upper range
Age	34	10	18	76
Ravens	4	3	0	12
OCIR	42	18	18	90
SZ	16	9	0	51
BDI	15	12	0	56
STAI	45	12	20	78

```
## Split half reliabilities
## Call: splitHalf(r = dataforsh, raw = T, brute = FALSE, n.sample = 1e+05,
## covar = FALSE, check.keys = TRUE, key = NULL, ci = 0.05,
## use = "pairwise")
##
## Maximum split half reliability (lambda 4) = 0.94
## Guttman lambda 6 = 0.92
## Average split half reliability = 0.91
## Guttman lambda 3 (alpha) = 0.91
## Minimum split half reliability (beta) = 0.85
## Average interitem r = 0.21 with median = 0.21
## 2.5% 50% 97.5%
## Quantiles of split half reliability = 0.9 0.92 0.93
```

Simple Linear Regression of measures

To explore the impact of trait/demographic measures on task performance we next ran a linear regression (using Robust ML estimator for consistency with SEM below) to predict p(mid as high)('propmedhigh' variable). The variables we included are:

- Spreadsheet (categorical): represents the counterbalancing condition
- Ravens (continuous): IQ measure (visual matrices)
- Age (continuous): years old
- BDI (continuous): Beck depression inventory (suicide question removed)
- STAI2 (continuous): Spielberger Trait Anxiety
- OCIR (continuous): Obsessive-Compulsive Inventory (Revised)
- SZ (continuous): Schizotypal short scale
- GenderMF (categorical): Self-reported gender

```

NegBiasmodel.1 <- 'propmedhigh ~ GenderMF + Age + Ravens + spreadsheet +BDI + STAI2 + SZ + OCIR'
NegBiasmodel.2 <- 'driftrate ~ GenderMF + Age + Ravens + spreadsheet +BDI + STAI2 + SZ + OCIR'

fit1 <- sem(NegBiasmodel.1, data=combineditemdata, meanstructure=TRUE, estimator = "MLR")
fit2 <- sem(NegBiasmodel.2, data=combineditemdata, meanstructure=TRUE, estimator = "MLR")
fit1miss <- sem(NegBiasmodel.1, data=combineditemdata, meanstructure=TRUE, estimator = "MLR", missing = "FIM")
fit2miss <- sem(NegBiasmodel.2, data=combineditemdata, meanstructure=TRUE, estimator = "MLR", missing = "FIM")

summary(fit1, standardized=TRUE, rsquare=T, fit.measures=F) #listwise delete missing

```

```

## lavaan 0.6-3 ended normally after 59 iterations
##
##      Optimization method                NLMINB
##      Number of free parameters          10
##
##                                     Used      Total
##      Number of observations             990      1066
##
##      Estimator                         ML      Robust
##      Model Fit Test Statistic           0.000      0.000
##      Degrees of freedom                  0         0
##      Minimum Function Value             0.0000000000000
##      Scaling correction factor           NA
##      for the Yuan-Bentler correction (Mplus variant)
##
## Parameter Estimates:
##
##      Information                       Observed
##      Observed information based on      Hessian
##      Standard Errors                   Robust.huber.white
##
## Regressions:
##      Estimate  Std.Err  z-value  P(>|z|)  Std.lv  Std.all
##      propmedhigh ~
##      GenderMF      -0.005   0.013   -0.390   0.697   -0.005   -0.012
##      Age           -0.002   0.001   -3.822   0.000   -0.002   -0.120
##      Ravens         0.010   0.002    4.323   0.000    0.010    0.144
##      spreadsheet    0.006   0.002    2.744   0.006    0.006    0.085
##      BDI            -0.002   0.001   -2.373   0.018   -0.002   -0.121
##      STAI2          0.001   0.001    0.789   0.430    0.001    0.037
##      SZ             -0.001   0.001   -1.145   0.252   -0.001   -0.056
##      OCIR           0.000   0.001    0.087   0.931    0.000    0.004
##
## Intercepts:
##      Estimate  Std.Err  z-value  P(>|z|)  Std.lv  Std.all
##      .propmedhigh    0.663   0.042   15.791   0.000    0.663    3.166
##
## Variances:
##      Estimate  Std.Err  z-value  P(>|z|)  Std.lv  Std.all
##      .propmedhigh    0.041   0.002   24.796   0.000    0.041    0.943

```

```
##
## R-Square:
##           Estimate
##   propmedhigh    0.057
```

```
summary(fit2, standardized=TRUE, rsquare=T, fit.measures=F) #listwise delete missing
```

```
## lavaan 0.6-3 ended normally after 124 iterations
```

```
##
## Optimization method          NLMINB
## Number of free parameters    10
##
##                               Used      Total
## Number of observations       990       1066
##
## Estimator                    ML        Robust
## Model Fit Test Statistic      0.000     0.000
## Degrees of freedom            0         0
## Scaling correction factor      NA
##   for the Yuan-Bentler correction (Mplus variant)
```

```
## Parameter Estimates:
```

```
##
## Information                   Observed
## Observed information based on Hessien
## Standard Errors               Robust.huber.white
```

```
## Regressions:
```

	Estimate	Std.Err	z-value	P(> z)	Std.lv	Std.all
driftrate ~						
GenderMF	-0.000	0.001	-0.421	0.674	-0.000	-0.013
Age	-0.000	0.000	-3.611	0.000	-0.000	-0.113
Ravens	0.001	0.000	4.348	0.000	0.001	0.146
spreadsheet	0.000	0.000	2.766	0.006	0.000	0.086
BDI	-0.000	0.000	-2.533	0.011	-0.000	-0.127
STAI2	0.000	0.000	0.876	0.381	0.000	0.040
SZ	-0.000	0.000	-1.355	0.175	-0.000	-0.066
OCIR	0.000	0.000	0.392	0.695	0.000	0.018

```
## Intercepts:
```

	Estimate	Std.Err	z-value	P(> z)	Std.lv	Std.all
.driftrate	0.009	0.002	3.707	0.000	0.009	0.740

```
## Variances:
```

	Estimate	Std.Err	z-value	P(> z)	Std.lv	Std.all
.driftrate	0.000	0.000	21.371	0.000	0.000	0.943

```
## R-Square:
```

```
##           Estimate
##   driftrate    0.057
```

```
summary(fitlmiss, standardized=TRUE, rsquare=T, fit.measures=F) #estimate missing
```

```

## lavaan 0.6-3 ended normally after 59 iterations
##
## Optimization method NLMINB
## Number of free parameters 10
##
## Used Total
## Number of observations 990 1066
## Number of missing patterns 1
##
## Estimator ML Robust
## Model Fit Test Statistic 0.000 0.000
## Degrees of freedom 0 0
## Scaling correction factor NA
## for the Yuan-Bentler correction (Mplus variant)
##
## Parameter Estimates:
##
## Information Observed
## Observed information based on Hessian
## Standard Errors Robust.huber.white
##
## Regressions:
## Estimate Std.Err z-value P(>|z|) Std.lv Std.all
## propmedhigh ~
## GenderMF -0.005 0.013 -0.390 0.697 -0.005 -0.012
## Age -0.002 0.001 -3.822 0.000 -0.002 -0.120
## Ravens 0.010 0.002 4.323 0.000 0.010 0.144
## spreadsheet 0.006 0.002 2.744 0.006 0.006 0.085
## BDI -0.002 0.001 -2.373 0.018 -0.002 -0.121
## STAI2 0.001 0.001 0.789 0.430 0.001 0.037
## SZ -0.001 0.001 -1.145 0.252 -0.001 -0.056
## OCIR 0.000 0.001 0.087 0.931 0.000 0.004
##
## Intercepts:
## Estimate Std.Err z-value P(>|z|) Std.lv Std.all
## .propmedhigh 0.663 0.042 15.791 0.000 0.663 3.166
##
## Variances:
## Estimate Std.Err z-value P(>|z|) Std.lv Std.all
## .propmedhigh 0.041 0.002 24.796 0.000 0.041 0.943
##
## R-Square:
## Estimate
## propmedhigh 0.057

```

```
summary(fit2miss, standardized=TRUE, rsquare=T, fit.measures=F) #estimate missing
```

```

## lavaan 0.6-3 ended normally after 120 iterations
##
## Optimization method NLMINB
## Number of free parameters 10
##
## Used Total
## Number of observations 990 1066

```



```

## Number of missing patterns          1
##
## Estimator                          ML      Robust
## Model Fit Test Statistic           0.000    0.000
## Degrees of freedom                  0        0
## Scaling correction factor              NA
##   for the Yuan-Bentler correction (Mplus variant)
##
## Parameter Estimates:
##
## Information                        Observed
## Observed information based on      Hessian
## Standard Errors                    Robust.huber.white
##
## Regressions:
##      Estimate Std.Err z-value P(>|z|) Std.lv Std.all
##   driftrate ~
##   GenderMF      -0.000   0.001  -0.421   0.674  -0.000  -0.013
##   Age           -0.000   0.000  -3.611   0.000  -0.000  -0.113
##   Ravens         0.001   0.000   4.348   0.000   0.001   0.146
##   spreadsheet     0.000   0.000   2.766   0.006   0.000   0.086
##   BDI            -0.000   0.000  -2.533   0.011  -0.000  -0.127
##   STAI2           0.000   0.000   0.876   0.381   0.000   0.040
##   SZ             -0.000   0.000  -1.355   0.175  -0.000  -0.066
##   OCIR            0.000   0.000   0.392   0.695   0.000   0.018
##
## Intercepts:
##      Estimate Std.Err z-value P(>|z|) Std.lv Std.all
##   .driftrate     0.009   0.002   3.707   0.000   0.009   0.740
##
## Variances:
##      Estimate Std.Err z-value P(>|z|) Std.lv Std.all
##   .driftrate     0.000   0.000  21.371   0.000   0.000   0.943
##
## R-Square:
##      Estimate
##   driftrate      0.057

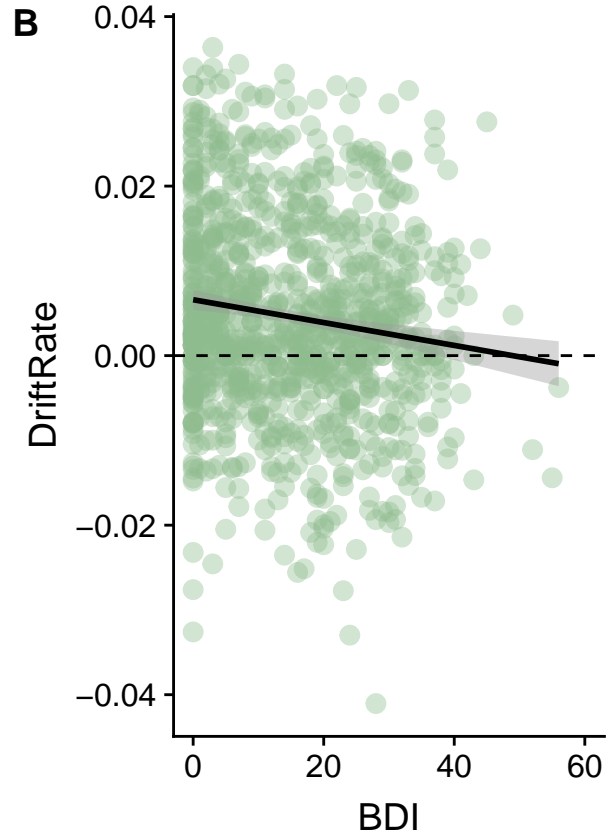
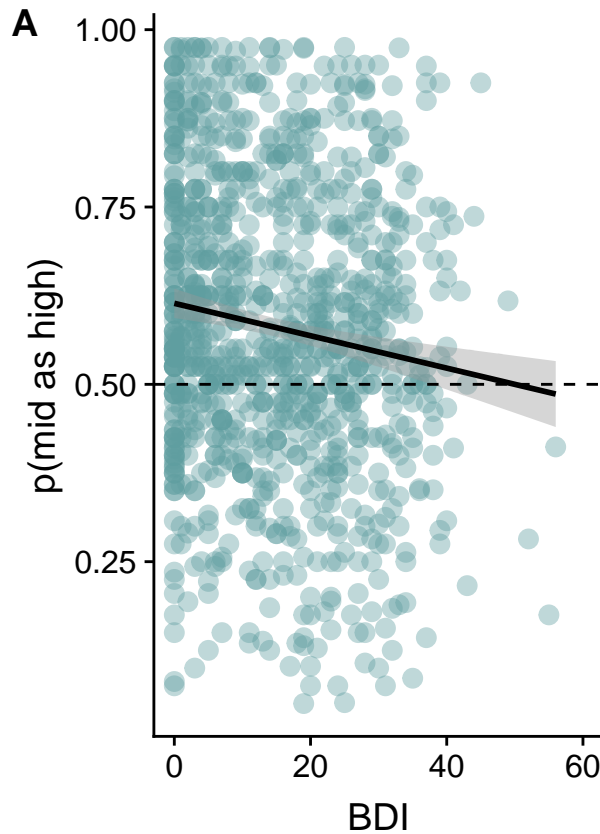
```

Interpretation

Affective bias and drift rate are both significantly influenced by IQ, Age, BDI and counterbalancing only. Thus of mental health relevant symptoms, task performance appears to be more driven by depression than anxiety, OCD, or psychosis related traits.

Correlation between task performance and depression symptoms

To illustrate the effect of depression in the regression we plot the correlation between BDI and pmidhigh/drift rate in raw scores. Consistent with our prior work, increased depression is associated with reduced p(mid as high)(i.e. increased negative bias).



```
##
## Pearson's product-moment correlation
##
## data: combineditemdata$BDI and combineditemdata$propmedhigh
## t = -4.1239, df = 992, p-value = 4.036e-05
## alternative hypothesis: true correlation is not equal to 0
## 95 percent confidence interval:
## -0.19046936 -0.06819752
## sample estimates:
##      cor
## -0.129827
```

```
##
## Pearson's product-moment correlation
##
## data: combineditemdata$BDI and combineditemdata$driftrate
## t = -4.2639, df = 992, p-value = 2.2e-05
## alternative hypothesis: true correlation is not equal to 0
## 95 percent confidence interval:
## -0.19471183 -0.07258157
## sample estimates:
##      cor
## -0.1341561
```

Exploring latent variable structure of the Questionnaires

The linear regression assumes that the summary scores of the questionnaires represent discrete categories. However, it is possible that effects are driven by a generic ‘mental ill health’ factor (sometimes referred to as a P factor model). Or, some questionnaires (e.g. BDI and trait anxiety, which are usually highly correlated) actually measure a single latent ‘negative affect’ factor. To test for these possibilities we explore four confirmatory factor analyses feeding the individual items from the questionnaires into 1-4 latent factors. The 4 latent factor CFA represents the items feeding into the original questionnaires.

```
###Testing different measurement models
```

```
pFactor1<-'#specifying measurement model
```

```
P    =~ BDI_Appetite_quantised  +
        BDI_Attractive_quantised +
        BDI_Blame_quantised    +
        BDI_Cry_quantised      +
        BDI_Decisions_quantised +
        BDI_Disappointment_quantised +
        BDI_Failure_quantised  +
        BDI_Future_quantised  +
        BDI_Guilty_quantised  +
        BDI_Health_quantised  +
        BDI_Interest_In_People_quantised +
        BDI_Irritated_quantised +
        BDI_Libido_quantised  +
        BDI_Punished_quantised +
        BDI_Sad_quantised    +
        BDI_Satisfaction_quantised +
        BDI_Sleep_quantised  +
        BDI_Tired_quantised  +
        BDI_weight_quantised +
        BDI_Work_quantised   +
        STAI2_Calm_quantised +
        STAI2_Content_quantised +
        STAI2_Desicions_quantised +
        STAI2_Difficulties_quantised +
        STAI2_DisappointmentsSelf_quantised +
        STAI2_Failure_quantised +
        STAI2_Happy_quantised +
        STAI2_HappyOthers_quantised +
        STAI2_Inadequate_quantised +
        STAI2_Nervous_quantised +
        STAI2_Pleasant_quantised +
        STAI2_Rested_quantised +
        STAI2_SatisfiedSelf_quantised +
        STAI2_Secure_quantised +
        STAI2_SelfConfidence_quantised +
        STAI2_Steady_quantised +
        STAI2_Tension_quantised +
        STAI2_Thoughts_quantised +
        STAI2_UnimportantThought_quantised +
        STAI2_Worry_quantised +
        OCIR_14_quantised    +
```

```

OCIR_15_quantised +
OCIR_16_quantised +
OCIR_17_quantised +
OCIR_18_quantised +
OCIR_2_quantised +
OCIR_3_quantised +
OCIR_4_quantised +
OCIR_5_quantised +
OCIR_6_quantised +
OCIR_7_quantised +
OCIR_8_quantised +
OCIR_9_quantised +
OCIR_1_quantised +
OCIR_10_quantised +
OCIR_11_quantised +
OCIR_12_quantised +
OCIR_13_quantised +
SZ_1_quantised +
SZ_10_quantised +
SZ_11_quantised +
SZ_12_quantised +
SZ_13_quantised +
SZ_14_quantised +
SZ_15_quantised +
SZ_16_quantised +
SZ_17_quantised +
SZ_18_quantised +
SZ_19_quantised +
SZ_2_quantised +
SZ_20_quantised +
SZ_21_quantised +
SZ_22_quantised +
SZ_23_quantised +
SZ_24_quantised +
SZ_25_quantised +
SZ_26_quantised +
SZ_27_quantised +
SZ_28_quantised +
SZ_29_quantised +
SZ_3_quantised +
SZ_30_quantised +
SZ_31_quantised +
SZ_32_quantised +
SZ_33_quantised +
SZ_34_quantised +
SZ_35_quantised +
SZ_36_quantised +
SZ_37_quantised +
SZ_38_quantised +
SZ_39_quantised +
SZ_4_quantised +
SZ_40_quantised +
SZ_41_quantised +

```

```

SZ_42_quantised +
SZ_5_quantised +
SZ_6_quantised +
SZ_7_quantised +
SZ_8_quantised +
SZ_9_quantised
,

BiFactor2<-'#specifying measurement model

ANXDEP =~ BDI_Appetite_quantised +
          BDI_Attractive_quantised +
          BDI_Blame_quantised +
          BDI_Cry_quantised +
          BDI_Decisions_quantised +
          BDI_Disappointment_quantised +
          BDI_Failure_quantised +
          BDI_Future_quantised +
          BDI_Guilty_quantised +
          BDI_Health_quantised +
          BDI_Interest_In_People_quantised +
          BDI_Irritated_quantised +
          BDI_Libido_quantised +
          BDI_Punished_quantised +
          BDI_Sad_quantised +
          BDI_Satisfaction_quantised +
          BDI_Sleep_quantised +
          BDI_Tired_quantised +
          BDI_weight_quantised +
          BDI_Work_quantised +
          STAI2_Calm_quantised +
          STAI2_Content_quantised +
          STAI2_Desicions_quantised +
          STAI2_Difficulties_quantised +
          STAI2_DisappointmentsSelf_quantised +
          STAI2_Failure_quantised +
          STAI2_Happy_quantised +
          STAI2_HappyOthers_quantised +
          STAI2_Inadequate_quantised +
          STAI2_Nervous_quantised +
          STAI2_Pleasant_quantised +
          STAI2_Rested_quantised +
          STAI2_SatisfiedSelf_quantised +
          STAI2_Secure_quantised +
          STAI2_SelfConfidence_quantised +
          STAI2_Steady_quantised +
          STAI2_Tension_quantised +
          STAI2_Thoughts_quantised +
          STAI2_UnimportantThought_quantised +
          STAI2_Worry_quantised

OTH =~ OCIR_14_quantised +
       OCIR_15_quantised +

```

```

OCIR_16_quantised +
OCIR_17_quantised +
OCIR_18_quantised +
OCIR_2_quantised +
OCIR_3_quantised +
OCIR_4_quantised +
OCIR_5_quantised +
OCIR_6_quantised +
OCIR_7_quantised +
OCIR_8_quantised +
OCIR_9_quantised +
OCIR_1_quantised +
OCIR_10_quantised +
OCIR_11_quantised +
OCIR_12_quantised +
OCIR_13_quantised +
SZ_1_quantised +
SZ_10_quantised +
SZ_11_quantised +
SZ_12_quantised +
SZ_13_quantised +
SZ_14_quantised +
SZ_15_quantised +
SZ_16_quantised +
SZ_17_quantised +
SZ_18_quantised +
SZ_19_quantised +
SZ_2_quantised +
SZ_20_quantised +
SZ_21_quantised +
SZ_22_quantised +
SZ_23_quantised +
SZ_24_quantised +
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SZ_26_quantised +
SZ_27_quantised +
SZ_28_quantised +
SZ_29_quantised +
SZ_3_quantised +
SZ_30_quantised +
SZ_31_quantised +
SZ_32_quantised +
SZ_33_quantised +
SZ_34_quantised +
SZ_35_quantised +
SZ_36_quantised +
SZ_37_quantised +
SZ_38_quantised +
SZ_39_quantised +
SZ_4_quantised +
SZ_40_quantised +
SZ_41_quantised +
SZ_42_quantised +

```

```

SZ_5_quantised +
SZ_6_quantised +
SZ_7_quantised +
SZ_8_quantised +
SZ_9_quantised
,

TriFactor3<-'#specifying measurement model

ANXDEP =~ BDI_Appetite_quantised      +
          BDI_Attractive_quantised +
          BDI_Blame_quantised   +
          BDI_Cry_quantised     +
          BDI_Decisions_quantised +
          BDI_Disappointment_quantised +
          BDI_Failure_quantised  +
          BDI_Future_quantised  +
          BDI_Guilty_quantised  +
          BDI_Health_quantised  +
          BDI_Interest_In_People_quantised +
          BDI_Irritated_quantised +
          BDI_Libido_quantised  +
          BDI_Punished_quantised +
          BDI_Sad_quantised     +
          BDI_Satisfaction_quantised +
          BDI_Sleep_quantised   +
          BDI_Tired_quantised   +
          BDI_weight_quantised  +
          BDI_Work_quantised    +
          STAI2_Calm_quantised  +
          STAI2_Content_quantised +
          STAI2_Desicions_quantised +
          STAI2_Difficulties_quantised +
          STAI2_DisappointmentsSelf_quantised +
          STAI2_Failure_quantised +
          STAI2_Happy_quantised  +
          STAI2_HappyOthers_quantised +
          STAI2_Inadequate_quantised +
          STAI2_Nervous_quantised +
          STAI2_Pleasant_quantised +
          STAI2_Rested_quantised +
          STAI2_SatisfiedSelf_quantised +
          STAI2_Secure_quantised  +
          STAI2_SelfConfidence_quantised +
          STAI2_Steady_quantised  +
          STAI2_Tension_quantised +
          STAI2_Thoughts_quantised +
          STAI2_UnimportantThought_quantised +
          STAI2_Worry_quantised

OCD =~ OCIR_14_quantised  +
       OCIR_15_quantised  +
       OCIR_16_quantised  +

```

```

    OCIR_17_quantised    +
    OCIR_18_quantised    +
    OCIR_2_quantised +
    OCIR_3_quantised +
    OCIR_4_quantised +
    OCIR_5_quantised +
    OCIR_6_quantised +
    OCIR_7_quantised +
    OCIR_8_quantised +
    OCIR_9_quantised +
    OCIR_1_quantised +
    OCIR_10_quantised   +
    OCIR_11_quantised   +
    OCIR_12_quantised   +
    OCIR_13_quantised

SZ =~ SZ_1_quantised    +
      SZ_10_quantised   +
      SZ_11_quantised +
      SZ_12_quantised +
      SZ_13_quantised +
      SZ_14_quantised +
      SZ_15_quantised +
      SZ_16_quantised +
      SZ_17_quantised +
      SZ_18_quantised +
      SZ_19_quantised +
      SZ_2_quantised +
      SZ_20_quantised +
      SZ_21_quantised +
      SZ_22_quantised +
      SZ_23_quantised +
      SZ_24_quantised +
      SZ_25_quantised +
      SZ_26_quantised +
      SZ_27_quantised +
      SZ_28_quantised +
      SZ_29_quantised +
      SZ_3_quantised +
      SZ_30_quantised +
      SZ_31_quantised +
      SZ_32_quantised +
      SZ_33_quantised +
      SZ_34_quantised +
      SZ_35_quantised +
      SZ_36_quantised +
      SZ_37_quantised +
      SZ_38_quantised +
      SZ_39_quantised +
      SZ_4_quantised +
      SZ_40_quantised +
      SZ_41_quantised +
      SZ_42_quantised +

```



```

        SZ_5_quantised +
        SZ_6_quantised +
        SZ_7_quantised +
        SZ_8_quantised +
        SZ_9_quantised
    ,
Quaires4 <- '#specifying measurement model

BDI =~ BDI_Appetite_quantised +
        BDI_Attractive_quantised +
        BDI_Blame_quantised +
        BDI_Cry_quantised +
        BDI_Decisions_quantised +
        BDI_Disappointment_quantised +
        BDI_Failure_quantised +
        BDI_Future_quantised +
        BDI_Guilty_quantised +
        BDI_Health_quantised +
        BDI_Interest_In_People_quantised +
        BDI_Irritated_quantised +
        BDI_Libido_quantised +
        BDI_Punished_quantised +
        BDI_Sad_quantised +
        BDI_Satisfaction_quantised +
        BDI_Sleep_quantised +
        BDI_Tired_quantised +
        BDI_weight_quantised +
        BDI_Work_quantised

OCD =~ OCIR_14_quantised +
        OCIR_15_quantised +
        OCIR_16_quantised +
        OCIR_17_quantised +
        OCIR_18_quantised +
        OCIR_2_quantised +
        OCIR_3_quantised +
        OCIR_4_quantised +
        OCIR_5_quantised +
        OCIR_6_quantised +
        OCIR_7_quantised +
        OCIR_8_quantised +
        OCIR_9_quantised +
        OCIR_1_quantised +
        OCIR_10_quantised +
        OCIR_11_quantised +
        OCIR_12_quantised +
        OCIR_13_quantised

SZ =~ SZ_1_quantised +
        SZ_10_quantised +
        SZ_11_quantised +
        SZ_12_quantised +
        SZ_13_quantised +

```

```

SZ_14_quantised +
SZ_15_quantised +
SZ_16_quantised +
SZ_17_quantised +
SZ_18_quantised +
SZ_19_quantised +
SZ_2_quantised +
SZ_20_quantised +
SZ_21_quantised +
SZ_22_quantised +
SZ_23_quantised +
SZ_24_quantised +
SZ_25_quantised +
SZ_26_quantised +
SZ_27_quantised +
SZ_28_quantised +
SZ_29_quantised +
SZ_3_quantised +
SZ_30_quantised +
SZ_31_quantised +
SZ_32_quantised +
SZ_33_quantised +
SZ_34_quantised +
SZ_35_quantised +
SZ_36_quantised +
SZ_37_quantised +
SZ_38_quantised +
SZ_39_quantised +
SZ_4_quantised +
SZ_40_quantised +
SZ_41_quantised +
SZ_42_quantised +
SZ_5_quantised +
SZ_6_quantised +
SZ_7_quantised +
SZ_8_quantised +
SZ_9_quantised

STAI =~ STAI2_Calm_quantised +
        STAI2_Content_quantised +
        STAI2_Desicions_quantised +
        STAI2_Difficulties_quantised +
        STAI2_DisappointmentsSelf_quantised +
        STAI2_Failure_quantised +
        STAI2_Happy_quantised +
        STAI2_HappyOthers_quantised +
        STAI2_Inadequate_quantised +
        STAI2_Nervous_quantised +
        STAI2_Pleasant_quantised +
        STAI2_Rested_quantised +
        STAI2_SatisfiedSelf_quantised +
        STAI2_Secure_quantised +
        STAI2_SelfConfidence_quantised +

```

```

    STAI2_Steady_quantised +
    STAI2_Tension_quantised +
    STAI2_Thoughts_quantised +
    STAI2_UnimportantThought_quantised +
    STAI2_Worry_quantised
  ,

FitpFactor1<- cfa(pFactor1, data = combineditemdata, estimator = "MLR", se='robust.huber.white')
FitBiFactor2<- cfa(BiFactor2, data = combineditemdata, estimator = "MLR", se='robust.huber.white')
FitTriFactor3<- cfa(TriFactor3, data = combineditemdata, estimator = "MLR", se='robust.huber.white')
FitQuaires4<- cfa(Quaires4, data = combineditemdata, estimator = "MLR", se='robust.huber.white')

FitpFactor1vars <-data.frame(fitMeasures(FitpFactor1, c("bic","aic","rmsea","rmsea.ci.lower", "rmsea.ci.upper"),
names(FitpFactor1vars) <- "P Factor"
FitBiFactor2vars<- data.frame(fitMeasures(FitBiFactor2, c("bic","aic","rmsea","rmsea.ci.lower", "rmsea.ci.upper"),
names(FitBiFactor2vars) <- "Bi Factor (AnxDep vs. not)"
FitTriFactor3vars<- data.frame(fitMeasures(FitTriFactor3, c("bic","aic","rmsea","rmsea.ci.lower", "rmsea.ci.upper"),
names(FitTriFactor3vars) <- "Tri Factor (AnxDep vs. SZ or OCD)"
FitQuaires4vars<- data.frame(fitMeasures(FitQuaires4, c("bic","aic","rmsea","rmsea.ci.lower", "rmsea.ci.upper"),
names(FitQuaires4vars) <- "Four Factor (All questionnaires)"
Allfits <- cbind.data.frame(FitpFactor1vars, FitBiFactor2vars, FitTriFactor3vars, FitQuaires4vars)
rownames(Allfits) <- c("BIC", "AIC", "RMSEA", "RMSEA CI-", "RMSEA CI+")

kable(t(Allfits), digits = 3)

```

	BIC	AIC	RMSEA	RMSEA CI-	RMSEA CI+	
P Factor			206756.6	205762.2	0.071	0.071
Bi Factor (AnxDep vs. not)			199828.5	198829.1	0.061	0.060
Tri Factor (AnxDep vs. SZ or OCD)			196936.3	195927.1	0.056	0.056
Four Factor (All questionnaires)			195624.0	194599.8	0.054	0.053

Interpretation

As demonstrated by the lowest BIC/AIC the 4 factor (original questionnaire structure) solution is the best description of the data. This also has the lowest RMSEA, which is in turn below 0.08 and hence a good fit to the data.

Structural Equation Model of the factor structure with regression

We can now feed this factor structure into a structural equation model with the original regression analysis in it. This is similar to the linear regression, although it allows the different items of the questionnaire to have varying influence over the summary questionnaire 'factors'.

```

####SEM

QuaireSEMPmid <- '#specifying measurement model

BDI =~ BDI_Appetite_quantised +
       BDI_Attractive_quantised +
       BDI_Blame_quantised +
       BDI_Cry_quantised +

```

```

BDI_Decisions_quantised +
BDI_Disappointment_quantised +
BDI_Failure_quantised +
BDI_Future_quantised +
BDI_Guilty_quantised +
BDI_Health_quantised +
BDI_Interest_In_People_quantised +
BDI_Irritated_quantised +
BDI_Libido_quantised +
BDI_Punished_quantised +
BDI_Sad_quantised +
BDI_Satisfaction_quantised +
BDI_Sleep_quantised +
BDI_Tired_quantised +
BDI_weight_quantised +
BDI_Work_quantised

OCD =~ OCIR_14_quantised +
OCIR_15_quantised +
OCIR_16_quantised +
OCIR_17_quantised +
OCIR_18_quantised +
OCIR_2_quantised +
OCIR_3_quantised +
OCIR_4_quantised +
OCIR_5_quantised +
OCIR_6_quantised +
OCIR_7_quantised +
OCIR_8_quantised +
OCIR_9_quantised +
OCIR_1_quantised +
OCIR_10_quantised +
OCIR_11_quantised +
OCIR_12_quantised +
OCIR_13_quantised

SZ =~ SZ_1_quantised +
SZ_10_quantised +
SZ_11_quantised +
SZ_12_quantised +
SZ_13_quantised +
SZ_14_quantised +
SZ_15_quantised +
SZ_16_quantised +
SZ_17_quantised +
SZ_18_quantised +
SZ_19_quantised +
SZ_2_quantised +
SZ_20_quantised +
SZ_21_quantised +
SZ_22_quantised +
SZ_23_quantised +
SZ_24_quantised +

```

```

SZ_25_quantised +
SZ_26_quantised +
SZ_27_quantised +
SZ_28_quantised +
SZ_29_quantised +
SZ_3_quantised +
SZ_30_quantised +
SZ_31_quantised +
SZ_32_quantised +
SZ_33_quantised +
SZ_34_quantised +
SZ_35_quantised +
SZ_36_quantised +
SZ_37_quantised +
SZ_38_quantised +
SZ_39_quantised +
SZ_4_quantised +
SZ_40_quantised +
SZ_41_quantised +
SZ_42_quantised +
SZ_5_quantised +
SZ_6_quantised +
SZ_7_quantised +
SZ_8_quantised +
SZ_9_quantised

STAI =~ STAI2_Calm_quantised +
        STAI2_Content_quantised +
        STAI2_Desicions_quantised +
        STAI2_Difficulties_quantised +
        STAI2_DisappointmentsSelf_quantised +
        STAI2_Failure_quantised +
        STAI2_Happy_quantised +
        STAI2_HappyOthers_quantised +
        STAI2_Inadequate_quantised +
        STAI2_Nervous_quantised +
        STAI2_Pleasant_quantised +
        STAI2_Rested_quantised +
        STAI2_SatisfiedSelf_quantised +
        STAI2_Secure_quantised +
        STAI2_SelfConfidence_quantised +
        STAI2_Steady_quantised +
        STAI2_Tension_quantised +
        STAI2_Thoughts_quantised +
        STAI2_UnimportantThought_quantised +
        STAI2_Worry_quantised

#Regressions
propmedhigh ~ spreadsheet + Ravens + Age + GenderMF + BDI + OCD + SZ + STAI

#residual correlations
spreadsheet ~~ Ravens + Age + GenderMF + BDI + OCD + SZ + STAI

```

```

Ravens ~~ Age + GenderMF + BDI + OCD + SZ + STAI
Age ~~ GenderMF + BDI + OCD + SZ + STAI
GenderMF ~~ BDI + OCD + SZ + STAI
BDI ~~ OCD + SZ + STAI
OCD ~~ SZ + STAI
SZ ~~ STAI
'

```

```

QuaireSEMdrift <- '#specifying measurement model

```

```

BDI =~ BDI_Appetite_quantised +
        BDI_Attractive_quantised +
        BDI_Blame_quantised +
        BDI_Cry_quantised +
        BDI_Decisions_quantised +
        BDI_Disappointment_quantised +
        BDI_Failure_quantised +
        BDI_Future_quantised +
        BDI_Guilty_quantised +
        BDI_Health_quantised +
        BDI_Interest_In_People_quantised +
        BDI_Irritated_quantised +
        BDI_Libido_quantised +
        BDI_Punished_quantised +
        BDI_Sad_quantised +
        BDI_Satisfaction_quantised +
        BDI_Sleep_quantised +
        BDI_Tired_quantised +
        BDI_weight_quantised +
        BDI_Work_quantised

OCD =~ OCIR_14_quantised +
        OCIR_15_quantised +
        OCIR_16_quantised +
        OCIR_17_quantised +
        OCIR_18_quantised +
        OCIR_2_quantised +
        OCIR_3_quantised +
        OCIR_4_quantised +
        OCIR_5_quantised +
        OCIR_6_quantised +
        OCIR_7_quantised +
        OCIR_8_quantised +
        OCIR_9_quantised +
        OCIR_1_quantised +
        OCIR_10_quantised +
        OCIR_11_quantised +
        OCIR_12_quantised +
        OCIR_13_quantised

SZ =~ SZ_1_quantised +
        SZ_10_quantised +
        SZ_11_quantised +

```

```

SZ_12_quantised +
SZ_13_quantised +
SZ_14_quantised +
SZ_15_quantised +
SZ_16_quantised +
SZ_17_quantised +
SZ_18_quantised +
SZ_19_quantised +
SZ_2_quantised +
SZ_20_quantised +
SZ_21_quantised +
SZ_22_quantised +
SZ_23_quantised +
SZ_24_quantised +
SZ_25_quantised +
SZ_26_quantised +
SZ_27_quantised +
SZ_28_quantised +
SZ_29_quantised +
SZ_3_quantised +
SZ_30_quantised +
SZ_31_quantised +
SZ_32_quantised +
SZ_33_quantised +
SZ_34_quantised +
SZ_35_quantised +
SZ_36_quantised +
SZ_37_quantised +
SZ_38_quantised +
SZ_39_quantised +
SZ_4_quantised +
SZ_40_quantised +
SZ_41_quantised +
SZ_42_quantised +
SZ_5_quantised +
SZ_6_quantised +
SZ_7_quantised +
SZ_8_quantised +
SZ_9_quantised

STAI =~ STAI2_Calm_quantised +
        STAI2_Content_quantised +
        STAI2_Desicions_quantised +
        STAI2_Difficulties_quantised +
        STAI2_DisappointmentsSelf_quantised +
        STAI2_Failure_quantised +
        STAI2_Happy_quantised +
        STAI2_HappyOthers_quantised +
        STAI2_Inadequate_quantised +
        STAI2_Nervous_quantised +
        STAI2_Pleasant_quantised +
        STAI2_Rested_quantised +
        STAI2_SatisfiedSelf_quantised +

```

```

    STAI2_Secure_quantised +
    STAI2_SelfConfidence_quantised +
    STAI2_Steady_quantised +
    STAI2_Tension_quantised +
    STAI2_Thoughts_quantised +
    STAI2_UnimportantThought_quantised +
    STAI2_Worry_quantised

#Regressions
driftrate ~ spreadsheet + Ravens + Age + GenderMF + BDI + OCD + SZ + STAI

#residual correlations
spreadsheet ~~ Ravens + Age + GenderMF + BDI + OCD + SZ + STAI
Ravens ~~ Age + GenderMF + BDI + OCD + SZ + STAI
Age ~~ GenderMF + BDI + OCD + SZ + STAI
GenderMF ~~ BDI + OCD + SZ + STAI
BDI ~~ OCD + SZ + STAI
OCD ~~ SZ + STAI
SZ ~~ STAI
'

FitQuaireSEMPmid <- sem(QuaireSEMPmid, data = combineditemdata, estimator = "MLR", se='robust.huber.white')
FitQuaireSEMdrift <- sem(QuaireSEMdrift, data = combineditemdata, estimator = "MLR", se='robust.huber.white')

FitQuaireSEMPmidmiss <- sem(QuaireSEMPmid, data = combineditemdata, estimator = "MLR", se='robust.huber.white')
FitQuaireSEMdriftmiss <- sem(QuaireSEMdrift, data = combineditemdata, estimator = "MLR", se='robust.huber.white')

summary(FitQuaireSEMPmid, standardized=TRUE, rsquare=T, fit.measures=F) #listwise delete missing

## lavaan 0.6-3 ended normally after 223 iterations
##
##      Optimization method          NLMINB
##      Number of free parameters      241
##
##                                     Used      Total
##      Number of observations          990      1066
##
##      Estimator                      ML      Robust
##      Model Fit Test Statistic        19683.727  17260.394
##      Degrees of freedom              5324      5324
##      P-value (Chi-square)            0.000      0.000
##      Scaling correction factor              1.140
##      for the Yuan-Bentler correction (Mplus variant)
##
## Parameter Estimates:
##
##      Information                      Observed
##      Observed information based on      Hessian
##      Standard Errors                    Robust.huber.white
##
## Latent Variables:
##      Estimate  Std.Err  z-value  P(>|z|)  Std.lv  Std.all

```



```

## BDI =~
## BDI_Apptt_qnts 1.000 0.584 0.651
## BDI_Attrctv_qn 1.045 0.057 18.241 0.000 0.611 0.647
## BDI_Blam_qntsd 1.142 0.057 19.909 0.000 0.667 0.760
## BDI_Cry_qntsd 0.997 0.050 20.093 0.000 0.583 0.666
## BDI_Dcsns_qnts 1.109 0.056 19.787 0.000 0.648 0.731
## BDI_Dsppntmnt_ 1.126 0.062 18.274 0.000 0.658 0.745
## BDI_Falr_qntsd 1.142 0.061 18.655 0.000 0.667 0.730
## BDI_Futr_qntsd 1.131 0.059 19.162 0.000 0.661 0.741
## BDI_Glty_qntsd 1.004 0.053 18.944 0.000 0.587 0.690
## BDI_Hlth_qntsd 0.771 0.045 16.978 0.000 0.451 0.583
## BDI_Intrs_I_P_ 1.075 0.055 19.385 0.000 0.628 0.694
## BDI_Irrtttd_qnt 1.072 0.051 20.852 0.000 0.626 0.706
## BDI_Libd_qntsd 0.868 0.048 18.244 0.000 0.507 0.574
## BDI_Pnshd_qnts 1.060 0.055 19.294 0.000 0.620 0.665
## BDI_Sad_qntsd 0.945 0.048 19.683 0.000 0.552 0.714
## BDI_Stsfctn_qn 1.097 0.059 18.534 0.000 0.641 0.689
## BDI_Slep_qntsd 0.889 0.050 17.721 0.000 0.520 0.579
## BDI_Tird_qntsd 0.971 0.052 18.753 0.000 0.567 0.664
## BDI_wght_qntsd 0.558 0.043 12.882 0.000 0.326 0.456
## BDI_Work_qntsd 1.068 0.053 20.171 0.000 0.624 0.723
## OCD =~
## OCIR_14_qntsd 1.000 1.111 0.826
## OCIR_15_qntsd 0.833 0.029 29.075 0.000 0.925 0.713
## OCIR_16_qntsd 0.931 0.029 32.283 0.000 1.033 0.788
## OCIR_17_qntsd 1.013 0.028 36.734 0.000 1.125 0.840
## OCIR_18_qntsd 0.980 0.028 34.839 0.000 1.089 0.820
## OCIR_2_quantisd 0.834 0.028 30.262 0.000 0.926 0.714
## OCIR_3_quantisd 0.810 0.028 28.552 0.000 0.900 0.714
## OCIR_4_quantisd 0.934 0.027 35.234 0.000 1.037 0.805
## OCIR_5_quantisd 0.894 0.030 29.657 0.000 0.993 0.767
## OCIR_6_quantisd 0.849 0.030 28.000 0.000 0.942 0.735
## OCIR_7_quantisd 0.799 0.029 27.687 0.000 0.887 0.720
## OCIR_8_quantisd 0.982 0.025 39.513 0.000 1.090 0.816
## OCIR_9_quantisd 0.819 0.028 29.298 0.000 0.910 0.719
## OCIR_1_quantisd 0.856 0.027 32.152 0.000 0.950 0.743
## OCIR_10_qntsd 0.975 0.025 38.418 0.000 1.083 0.845
## OCIR_11_qntsd 0.972 0.027 35.748 0.000 1.079 0.829
## OCIR_12_qntsd 0.900 0.030 29.821 0.000 0.999 0.770
## OCIR_13_qntsd 0.780 0.028 27.801 0.000 0.866 0.687
## SZ =~
## SZ_1_quantised 1.000 0.304 0.624
## SZ_10_quantisd 0.832 0.042 19.768 0.000 0.253 0.598
## SZ_11_quantisd 0.813 0.044 18.281 0.000 0.247 0.500
## SZ_12_quantisd 0.789 0.045 17.483 0.000 0.240 0.501
## SZ_13_quantisd 0.904 0.048 18.685 0.000 0.274 0.557
## SZ_14_quantisd 0.872 0.053 16.390 0.000 0.265 0.530
## SZ_15_quantisd 0.923 0.051 17.936 0.000 0.280 0.562
## SZ_16_quantisd 0.716 0.051 13.956 0.000 0.217 0.435
## SZ_17_quantisd 0.840 0.049 17.252 0.000 0.255 0.514
## SZ_18_quantisd 0.972 0.050 19.599 0.000 0.295 0.599
## SZ_19_quantisd 0.842 0.049 17.290 0.000 0.256 0.514
## SZ_2_quantised 0.949 0.044 21.519 0.000 0.288 0.591
## SZ_20_quantisd 0.951 0.044 21.644 0.000 0.289 0.637

```

```

##      SZ_21_quantisd    0.894    0.050    17.929    0.000    0.272    0.549
##      SZ_22_quantisd    0.871    0.052    16.717    0.000    0.265    0.532
##      SZ_23_quantisd    0.885    0.049    17.998    0.000    0.269    0.548
##      SZ_24_quantisd    0.883    0.046    19.057    0.000    0.268    0.546
##      SZ_25_quantisd    0.800    0.046    17.379    0.000    0.243    0.491
##      SZ_26_quantisd   -0.009    0.047    -0.193    0.847   -0.003   -0.006
##      SZ_27_quantisd    0.059    0.048    1.242    0.214    0.018    0.039
##      SZ_28_quantisd   -0.049    0.055   -0.897    0.370   -0.015   -0.031
##      SZ_29_quantisd    0.602    0.049    12.279    0.000    0.183    0.371
##      SZ_3_quantised    0.792    0.043    18.237    0.000    0.240    0.548
##      SZ_30_quantisd    0.115    0.055    2.100    0.036    0.035    0.071
##      SZ_31_quantisd    0.038    0.046    0.829    0.407    0.012    0.026
##      SZ_32_quantisd    0.697    0.050    13.975    0.000    0.212    0.429
##      SZ_33_quantisd    0.459    0.050    9.104    0.000    0.139    0.289
##      SZ_34_quantisd   -0.052    0.047   -1.122    0.262   -0.016   -0.035
##      SZ_35_quantisd    0.784    0.042    18.515    0.000    0.238    0.569
##      SZ_36_quantisd    0.846    0.048    17.786    0.000    0.257    0.516
##      SZ_37_quantisd   -0.206    0.050   -4.076    0.000   -0.062   -0.136
##      SZ_38_quantisd    0.907    0.043    21.043    0.000    0.275    0.597
##      SZ_39_quantisd   -0.010    0.048   -0.201    0.841   -0.003   -0.006
##      SZ_4_quantised    0.837    0.041    20.321    0.000    0.254    0.549
##      SZ_40_quantisd    0.702    0.049    14.432    0.000    0.213    0.432
##      SZ_41_quantisd    0.851    0.046    18.573    0.000    0.258    0.522
##      SZ_42_quantisd    0.955    0.045    21.264    0.000    0.290    0.584
##      SZ_5_quantised    0.878    0.044    20.165    0.000    0.267    0.597
##      SZ_6_quantised    0.900    0.044    20.478    0.000    0.273    0.606
##      SZ_7_quantised    0.870    0.045    19.529    0.000    0.264    0.535
##      SZ_8_quantised    0.842    0.042    20.206    0.000    0.256    0.566
##      SZ_9_quantised    0.902    0.046    19.716    0.000    0.274    0.565
##      STAI =~
##      STAI2_Clm_qnts     1.000                                0.541    0.589
##      STAI2_Cntnt_qn     0.928    0.042    22.300    0.000    0.502    0.548
##      STAI2_Dscns_qn     0.844    0.044    18.994    0.000    0.456    0.502
##      STAI2_Dffclts_    -1.273    0.169   -7.551    0.000   -0.688   -0.715
##      STAI2_DsppntS_    -1.134    0.172   -6.582    0.000   -0.613   -0.649
##      STAI2_Flr_qnts     -1.340    0.158   -8.459    0.000   -0.724   -0.756
##      STAI2_Hppy_qnt      0.975    0.044    22.183    0.000    0.527    0.570
##      STAI2_Hppy0th_    -1.062    0.155   -6.841    0.000   -0.574   -0.574
##      STAI2_Indqt_qn     -1.329    0.170   -7.808    0.000   -0.719   -0.735
##      STAI2_Nrvs_qnt     -1.244    0.164   -7.595    0.000   -0.672   -0.719
##      STAI2_Plsnt_qn      0.926    0.039    23.904    0.000    0.501    0.586
##      STAI2_Rstd_qnt      0.683    0.052    13.229    0.000    0.369    0.413
##      STAI2_StsfdSl_      1.054    0.043    24.243    0.000    0.569    0.588
##      STAI2_Scr_qnts      1.000    0.045    22.181    0.000    0.541    0.567
##      STAI2_SlfCnfd_    -1.142    0.159   -7.157    0.000   -0.617   -0.600
##      STAI2_Stdy_qnt      1.065    0.044    24.470    0.000    0.576    0.641
##      STAI2_Tnsn_qnt     -1.214    0.191   -6.357    0.000   -0.656   -0.683
##      STAI2_Thghts_q     -1.018    0.170   -5.989    0.000   -0.550   -0.610
##      STAI2_UnmprtT_     -1.134    0.179   -6.352    0.000   -0.613   -0.643
##      STAI2_Wrry_qnt     -1.183    0.173   -6.819    0.000   -0.639   -0.653
##
## Regressions:
##      Estimate Std.Err z-value P(>|z|) Std.lv Std.all
##      propmedhigh ~

```

##	spreadsheet	0.006	0.002	2.731	0.006	0.006	0.085
##	Ravens	0.010	0.002	4.254	0.000	0.010	0.143
##	Age	-0.002	0.001	-3.757	0.000	-0.002	-0.118
##	GenderMF	-0.005	0.013	-0.411	0.681	-0.005	-0.013
##	BDI	-0.057	0.024	-2.358	0.018	-0.033	-0.159
##	OCD	-0.001	0.010	-0.085	0.932	-0.001	-0.004
##	SZ	0.026	0.041	0.624	0.533	0.008	0.037
##	STAI	-0.026	0.025	-1.032	0.302	-0.014	-0.067
##							
##	Covariances:						
##		Estimate	Std.Err	z-value	P(> z)	Std.lv	Std.all
##	spreadsheet ~~						
##	Ravens	-0.395	0.280	-1.408	0.159	-0.395	-0.045
##	Age	1.278	0.974	1.312	0.190	1.278	0.042
##	GenderMF	0.059	0.047	1.264	0.206	0.059	0.040
##	BDI ~~						
##	spreadsheet	-0.006	0.057	-0.113	0.910	-0.011	-0.004
##	OCD ~~						
##	spreadsheet	0.125	0.108	1.162	0.245	0.113	0.038
##	SZ ~~						
##	spreadsheet	-0.022	0.030	-0.736	0.462	-0.073	-0.024
##	STAI ~~						
##	spreadsheet	-0.006	0.054	-0.111	0.911	-0.011	-0.004
##	Ravens ~~						
##	Age	2.696	0.986	2.734	0.006	2.696	0.090
##	GenderMF	-0.070	0.046	-1.529	0.126	-0.070	-0.048
##	BDI ~~						
##	Ravens	-0.323	0.059	-5.457	0.000	-0.552	-0.188
##	OCD ~~						
##	Ravens	-1.108	0.100	-11.101	0.000	-0.998	-0.339
##	SZ ~~						
##	Ravens	0.200	0.030	6.737	0.000	0.657	0.223
##	STAI ~~						
##	Ravens	0.209	0.053	3.920	0.000	0.387	0.131
##	Age ~~						
##	GenderMF	-0.061	0.160	-0.379	0.705	-0.061	-0.012
##	BDI ~~						
##	Age	-1.316	0.202	-6.531	0.000	-2.253	-0.220
##	OCD ~~						
##	Age	-3.814	0.341	-11.173	0.000	-3.434	-0.336
##	SZ ~~						
##	Age	0.838	0.107	7.824	0.000	2.760	0.270
##	STAI ~~						
##	Age	1.300	0.208	6.262	0.000	2.405	0.235
##	BDI ~~						
##	GenderMF	0.010	0.009	1.049	0.294	0.017	0.035
##	OCD ~~						
##	GenderMF	0.042	0.017	2.426	0.015	0.038	0.077
##	SZ ~~						
##	GenderMF	-0.008	0.005	-1.560	0.119	-0.025	-0.051
##	STAI ~~						
##	GenderMF	-0.009	0.009	-0.968	0.333	-0.016	-0.032
##	BDI ~~						
##	OCD	0.340	0.027	12.653	0.000	0.525	0.525

##	SZ	-0.116	0.008	-14.095	0.000	-0.654	-0.654
##	STAI	-0.260	0.027	-9.522	0.000	-0.822	-0.822
##	OCD ~~						
##	SZ	-0.247	0.015	-16.995	0.000	-0.733	-0.733
##	STAI	-0.281	0.023	-11.999	0.000	-0.468	-0.468
##	SZ ~~						
##	STAI	0.104	0.007	14.084	0.000	0.632	0.632
##							
##	Variances:						
##		Estimate	Std.Err	z-value	P(> z)	Std.lv	Std.all
##	.BDI_Apptt_qnts	0.464	0.028	16.534	0.000	0.464	0.576
##	.BDI_Attrctv_qn	0.518	0.028	18.727	0.000	0.518	0.581
##	.BDI_Blam_qntsd	0.325	0.019	16.993	0.000	0.325	0.422
##	.BDI_Cry_qntsd	0.426	0.029	14.932	0.000	0.426	0.556
##	.BDI_Dcsns_qnts	0.367	0.022	16.762	0.000	0.367	0.466
##	.BDI_Dsppntmnt_	0.347	0.022	16.017	0.000	0.347	0.445
##	.BDI_Falr_qntsd	0.389	0.023	17.136	0.000	0.389	0.466
##	.BDI_Futr_qntsd	0.357	0.022	16.558	0.000	0.357	0.450
##	.BDI_Glty_qntsd	0.379	0.023	16.479	0.000	0.379	0.524
##	.BDI_Hlth_qntsd	0.394	0.021	18.344	0.000	0.394	0.660
##	.BDI_Intrs_I_P_	0.425	0.024	17.828	0.000	0.425	0.519
##	.BDI_Irrtttd_qnt	0.394	0.021	18.359	0.000	0.394	0.501
##	.BDI_Libd_qntsd	0.525	0.031	17.082	0.000	0.525	0.671
##	.BDI_Pnshd_qnts	0.485	0.031	15.829	0.000	0.485	0.558
##	.BDI_Sad_qntsd	0.294	0.020	14.599	0.000	0.294	0.491
##	.BDI_Stsfctn_qn	0.455	0.027	17.158	0.000	0.455	0.525
##	.BDI_Slep_qntsd	0.536	0.027	19.826	0.000	0.536	0.665
##	.BDI_Tird_qntsd	0.409	0.022	18.625	0.000	0.409	0.560
##	.BDI_wght_qntsd	0.404	0.029	13.738	0.000	0.404	0.792
##	.BDI_Work_qntsd	0.356	0.020	17.788	0.000	0.356	0.477
##	.OCIR_14_qntsd	0.573	0.038	14.887	0.000	0.573	0.317
##	.OCIR_15_qntsd	0.830	0.048	17.266	0.000	0.830	0.492
##	.OCIR_16_qntsd	0.651	0.043	15.273	0.000	0.651	0.379
##	.OCIR_17_qntsd	0.528	0.036	14.758	0.000	0.528	0.294
##	.OCIR_18_qntsd	0.577	0.041	13.927	0.000	0.577	0.327
##	.OCIR_2_quantd	0.825	0.040	20.713	0.000	0.825	0.490
##	.OCIR_3_quantd	0.779	0.044	17.654	0.000	0.779	0.490
##	.OCIR_4_quantd	0.585	0.036	16.313	0.000	0.585	0.352
##	.OCIR_5_quantd	0.692	0.045	15.355	0.000	0.692	0.412
##	.OCIR_6_quantd	0.758	0.043	17.759	0.000	0.758	0.460
##	.OCIR_7_quantd	0.732	0.041	17.761	0.000	0.732	0.482
##	.OCIR_8_quantd	0.596	0.039	15.269	0.000	0.596	0.334
##	.OCIR_9_quantd	0.773	0.043	18.192	0.000	0.773	0.483
##	.OCIR_1_quantd	0.731	0.040	18.186	0.000	0.731	0.447
##	.OCIR_10_quantd	0.469	0.030	15.742	0.000	0.469	0.285
##	.OCIR_11_quantd	0.532	0.033	16.121	0.000	0.532	0.313
##	.OCIR_12_quantd	0.685	0.042	16.420	0.000	0.685	0.407
##	.OCIR_13_quantd	0.838	0.044	18.923	0.000	0.838	0.528
##	.SZ_1_quantised	0.144	0.006	22.369	0.000	0.144	0.610
##	.SZ_10_quantisd	0.114	0.005	21.692	0.000	0.114	0.642
##	.SZ_11_quantisd	0.183	0.006	29.281	0.000	0.183	0.750
##	.SZ_12_quantisd	0.171	0.006	26.849	0.000	0.171	0.749
##	.SZ_13_quantisd	0.168	0.006	26.425	0.000	0.168	0.690
##	.SZ_14_quantisd	0.179	0.007	26.901	0.000	0.179	0.719

##	.SZ_15_quantisd	0.170	0.006	26.215	0.000	0.170	0.684
##	.SZ_16_quantisd	0.203	0.006	34.131	0.000	0.203	0.811
##	.SZ_17_quantisd	0.181	0.006	28.689	0.000	0.181	0.736
##	.SZ_18_quantisd	0.156	0.006	24.312	0.000	0.156	0.641
##	.SZ_19_quantisd	0.182	0.006	28.686	0.000	0.182	0.736
##	.SZ_2_quantised	0.154	0.006	24.189	0.000	0.154	0.650
##	.SZ_20_quantisd	0.122	0.006	22.159	0.000	0.122	0.595
##	.SZ_21_quantisd	0.171	0.007	26.247	0.000	0.171	0.699
##	.SZ_22_quantisd	0.177	0.007	26.748	0.000	0.177	0.717
##	.SZ_23_quantisd	0.168	0.006	26.158	0.000	0.168	0.699
##	.SZ_24_quantisd	0.169	0.006	26.538	0.000	0.169	0.701
##	.SZ_25_quantisd	0.186	0.006	29.895	0.000	0.186	0.759
##	.SZ_26_quantisd	0.212	0.006	37.150	0.000	0.212	1.000
##	.SZ_27_quantisd	0.208	0.006	35.154	0.000	0.208	0.998
##	.SZ_28_quantisd	0.237	0.004	66.525	0.000	0.237	0.999
##	.SZ_29_quantisd	0.209	0.006	36.886	0.000	0.209	0.862
##	.SZ_3_quantised	0.134	0.006	21.758	0.000	0.134	0.699
##	.SZ_30_quantisd	0.242	0.003	87.996	0.000	0.242	0.995
##	.SZ_31_quantisd	0.205	0.006	33.773	0.000	0.205	0.999
##	.SZ_32_quantisd	0.199	0.006	32.917	0.000	0.199	0.816
##	.SZ_33_quantisd	0.213	0.005	41.178	0.000	0.213	0.916
##	.SZ_34_quantisd	0.206	0.006	33.906	0.000	0.206	0.999
##	.SZ_35_quantisd	0.118	0.006	21.176	0.000	0.118	0.676
##	.SZ_36_quantisd	0.181	0.006	28.550	0.000	0.181	0.733
##	.SZ_37_quantisd	0.207	0.006	35.313	0.000	0.207	0.981
##	.SZ_38_quantisd	0.137	0.006	23.224	0.000	0.137	0.643
##	.SZ_39_quantisd	0.206	0.006	33.964	0.000	0.206	1.000
##	.SZ_4_quantised	0.149	0.006	23.952	0.000	0.149	0.698
##	.SZ_40_quantisd	0.199	0.006	33.029	0.000	0.199	0.814
##	.SZ_41_quantisd	0.178	0.006	28.089	0.000	0.178	0.728
##	.SZ_42_quantisd	0.162	0.006	25.102	0.000	0.162	0.659
##	.SZ_5_quantised	0.128	0.006	21.713	0.000	0.128	0.643
##	.SZ_6_quantised	0.129	0.006	22.847	0.000	0.129	0.633
##	.SZ_7_quantised	0.174	0.006	26.838	0.000	0.174	0.714
##	.SZ_8_quantised	0.139	0.006	22.293	0.000	0.139	0.680
##	.SZ_9_quantised	0.160	0.006	26.000	0.000	0.160	0.681
##	.STAI2_Clm_qnts	0.549	0.055	9.977	0.000	0.549	0.653
##	.STAI2_Cntnt_qn	0.587	0.055	10.616	0.000	0.587	0.700
##	.STAI2_Dscns_qn	0.618	0.047	13.167	0.000	0.618	0.748
##	.STAI2_Dffclts_	0.453	0.036	12.650	0.000	0.453	0.489
##	.STAI2_DsppntS_	0.516	0.043	12.006	0.000	0.516	0.579
##	.STAI2_Flr_qnts	0.394	0.027	14.735	0.000	0.394	0.429
##	.STAI2_Hppy_qnt	0.578	0.059	9.826	0.000	0.578	0.675
##	.STAI2_Hppy0th_	0.670	0.044	15.382	0.000	0.670	0.670
##	.STAI2_Indqt_qn	0.440	0.039	11.350	0.000	0.440	0.460
##	.STAI2_Nrvs_qnt	0.423	0.032	13.274	0.000	0.423	0.483
##	.STAI2_Plsnt_qn	0.479	0.051	9.369	0.000	0.479	0.657
##	.STAI2_Rstd_qnt	0.662	0.045	14.675	0.000	0.662	0.829
##	.STAI2_StsfdSl_	0.615	0.065	9.464	0.000	0.615	0.655
##	.STAI2_Scr_qnts	0.618	0.062	10.010	0.000	0.618	0.679
##	.STAI2_SlfCnfd_	0.678	0.045	15.093	0.000	0.678	0.641
##	.STAI2_Stdy_qnt	0.476	0.052	9.185	0.000	0.476	0.589
##	.STAI2_Tnsn_qnt	0.494	0.050	9.931	0.000	0.494	0.534
##	.STAI2_Thghts_q	0.512	0.041	12.385	0.000	0.512	0.628

##	.STAI2_UnmprtT_	0.533	0.044	12.107	0.000	0.533	0.587
##	.STAI2_Wrry_qnt	0.550	0.043	12.931	0.000	0.550	0.574
##	.propmedhigh	0.041	0.002	24.690	0.000	0.041	0.942
##	spreadsheet	9.000	0.003	2595.756	0.000	9.000	1.000
##	Ravens	8.672	0.335	25.891	0.000	8.672	1.000
##	Age	104.591	6.150	17.008	0.000	104.591	1.000
##	GenderMF	0.242	0.003	86.073	0.000	0.242	1.000
##	BDI	0.341	0.030	11.258	0.000	1.000	1.000
##	OCD	1.233	0.060	20.613	0.000	1.000	1.000
##	SZ	0.092	0.007	14.003	0.000	1.000	1.000
##	STAI	0.292	0.061	4.811	0.000	1.000	1.000

##

R-Square:

##	Estimate
##	BDI_Apptt_qnts 0.424
##	BDI_Attrctv_qn 0.419
##	BDI_Blam_qntsd 0.578
##	BDI_Cry_qntsd 0.444
##	BDI_Dcsns_qnts 0.534
##	BDI_Dspntmnt_ 0.555
##	BDI_Falr_qntsd 0.534
##	BDI_Futr_qntsd 0.550
##	BDI_Glty_qntsd 0.476
##	BDI_Hlth_qntsd 0.340
##	BDI_Intrs_I_P_ 0.481
##	BDI_Irrtttd_qnt 0.499
##	BDI_Libd_qntsd 0.329
##	BDI_Pnshd_qnts 0.442
##	BDI_Sad_qntsd 0.509
##	BDI_Stsfctn_qn 0.475
##	BDI_Slep_qntsd 0.335
##	BDI_Tird_qntsd 0.440
##	BDI_wght_qntsd 0.208
##	BDI_Work_qntsd 0.523
##	OCIR_14_qntsd 0.683
##	OCIR_15_qntsd 0.508
##	OCIR_16_qntsd 0.621
##	OCIR_17_qntsd 0.706
##	OCIR_18_qntsd 0.673
##	OCIR_2_quantisd 0.510
##	OCIR_3_quantisd 0.510
##	OCIR_4_quantisd 0.648
##	OCIR_5_quantisd 0.588
##	OCIR_6_quantisd 0.540
##	OCIR_7_quantisd 0.518
##	OCIR_8_quantisd 0.666
##	OCIR_9_quantisd 0.517
##	OCIR_1_quantisd 0.553
##	OCIR_10_quantisd 0.715
##	OCIR_11_quantisd 0.687
##	OCIR_12_quantisd 0.593
##	OCIR_13_quantisd 0.472
##	SZ_1_quantised 0.390
##	SZ_10_quantisd 0.358

##	SZ_11_quantisd	0.250
##	SZ_12_quantisd	0.251
##	SZ_13_quantisd	0.310
##	SZ_14_quantisd	0.281
##	SZ_15_quantisd	0.316
##	SZ_16_quantisd	0.189
##	SZ_17_quantisd	0.264
##	SZ_18_quantisd	0.359
##	SZ_19_quantisd	0.264
##	SZ_2_quantised	0.350
##	SZ_20_quantisd	0.405
##	SZ_21_quantisd	0.301
##	SZ_22_quantisd	0.283
##	SZ_23_quantisd	0.301
##	SZ_24_quantisd	0.299
##	SZ_25_quantisd	0.241
##	SZ_26_quantisd	0.000
##	SZ_27_quantisd	0.002
##	SZ_28_quantisd	0.001
##	SZ_29_quantisd	0.138
##	SZ_3_quantised	0.301
##	SZ_30_quantisd	0.005
##	SZ_31_quantisd	0.001
##	SZ_32_quantisd	0.184
##	SZ_33_quantisd	0.084
##	SZ_34_quantisd	0.001
##	SZ_35_quantisd	0.324
##	SZ_36_quantisd	0.267
##	SZ_37_quantisd	0.019
##	SZ_38_quantisd	0.357
##	SZ_39_quantisd	0.000
##	SZ_4_quantised	0.302
##	SZ_40_quantisd	0.186
##	SZ_41_quantisd	0.272
##	SZ_42_quantisd	0.341
##	SZ_5_quantised	0.357
##	SZ_6_quantised	0.367
##	SZ_7_quantised	0.286
##	SZ_8_quantised	0.320
##	SZ_9_quantised	0.319
##	STAI2_Clm_qnts	0.347
##	STAI2_Cntnt_qn	0.300
##	STAI2_Dscns_qn	0.252
##	STAI2_Dffclts_	0.511
##	STAI2_DsppntS_	0.421
##	STAI2_Flr_qnts	0.571
##	STAI2_Hppy_qnt	0.325
##	STAI2_Hppy0th_	0.330
##	STAI2_Indqt_qn	0.540
##	STAI2_Nrvs_qnt	0.517
##	STAI2_Plsnt_qn	0.343
##	STAI2_Rstd_qnt	0.171
##	STAI2_StsfdSl_	0.345
##	STAI2_Scr_qnts	0.321

```
##      STAI2_SlfCnfd_    0.359
##      STAI2_Stdy_qnt    0.411
##      STAI2_Tnsn_qnt    0.466
##      STAI2_Thghts_q    0.372
##      STAI2_UnmprtT_    0.413
##      STAI2_Wrry_qnt    0.426
##      propmedhigh      0.058
```

```
summary(FitQuaireSEMdrift, standardized=TRUE, rsquare=T, fit.measures=F) #listwise delete missing
```

```
## lavaan 0.6-3 ended normally after 320 iterations
```

```
##
##      Optimization method          NLMINB
##      Number of free parameters      241
##
##                                     Used      Total
##      Number of observations          990      1066
##
##      Estimator                      ML      Robust
##      Model Fit Test Statistic        19684.334  17263.958
##      Degrees of freedom              5324      5324
##      P-value (Chi-square)            0.000      0.000
##      Scaling correction factor        1.140
##      for the Yuan-Bentler correction (Mplus variant)
```

```
## Parameter Estimates:
```

```
##
##      Information                      Observed
##      Observed information based on      Hessian
##      Standard Errors                  Robust.huber.white
```

```
## Latent Variables:
```

```
##      Estimate  Std.Err  z-value  P(>|z|)  Std.lv  Std.all
##      BDI =~
##      BDI_Apptt_qnts    1.000
##      BDI_Attrctv_qn    1.045    0.057   18.240    0.000    0.611    0.647
##      BDI_Blam_qntsd    1.142    0.057   19.908    0.000    0.667    0.760
##      BDI_Cry_qntsd     0.997    0.050   20.090    0.000    0.583    0.666
##      BDI_Dcsns_qnts    1.109    0.056   19.787    0.000    0.648    0.731
##      BDI_Dspntmnt_     1.126    0.062   18.273    0.000    0.658    0.745
##      BDI_Falr_qntsd    1.142    0.061   18.655    0.000    0.667    0.730
##      BDI_Futr_qntsd    1.130    0.059   19.161    0.000    0.661    0.741
##      BDI_Glty_qntsd    1.004    0.053   18.943    0.000    0.586    0.690
##      BDI_Hlth_qntsd    0.771    0.045   16.978    0.000    0.451    0.583
##      BDI_Intrs_I_P_    1.075    0.055   19.385    0.000    0.628    0.694
##      BDI_Irrttd_qnt    1.072    0.051   20.853    0.000    0.626    0.706
##      BDI_Libd_qntsd     0.868    0.048   18.241    0.000    0.507    0.574
##      BDI_Pnshd_qnts    1.061    0.055   19.296    0.000    0.620    0.665
##      BDI_Sad_qntsd     0.945    0.048   19.684    0.000    0.552    0.714
##      BDI_Stsfctn_qn    1.097    0.059   18.535    0.000    0.641    0.689
##      BDI_Slep_qntsd     0.889    0.050   17.721    0.000    0.520    0.579
##      BDI_Tird_qntsd     0.971    0.052   18.752    0.000    0.567    0.664
##      BDI_wght_qntsd     0.558    0.043   12.884    0.000    0.326    0.456
##      BDI_Work_qntsd    1.068    0.053   20.171    0.000    0.624    0.723
```



```

##      OCD =~
##      OCIR_14_quntsd      1.000                                1.111      0.826
##      OCIR_15_quntsd      0.833      0.029      29.075      0.000      0.925      0.713
##      OCIR_16_quntsd      0.931      0.029      32.284      0.000      1.033      0.788
##      OCIR_17_quntsd      1.013      0.028      36.734      0.000      1.125      0.840
##      OCIR_18_quntsd      0.980      0.028      34.839      0.000      1.089      0.820
##      OCIR_2_quantstd      0.834      0.028      30.262      0.000      0.926      0.714
##      OCIR_3_quantstd      0.810      0.028      28.552      0.000      0.900      0.714
##      OCIR_4_quantstd      0.934      0.027      35.234      0.000      1.037      0.805
##      OCIR_5_quantstd      0.894      0.030      29.658      0.000      0.993      0.767
##      OCIR_6_quantstd      0.849      0.030      28.000      0.000      0.942      0.735
##      OCIR_7_quantstd      0.799      0.029      27.687      0.000      0.887      0.720
##      OCIR_8_quantstd      0.982      0.025      39.514      0.000      1.090      0.816
##      OCIR_9_quantstd      0.819      0.028      29.299      0.000      0.910      0.719
##      OCIR_1_quantstd      0.856      0.027      32.154      0.000      0.950      0.743
##      OCIR_10_quntsd      0.975      0.025      38.418      0.000      1.083      0.845
##      OCIR_11_quntsd      0.972      0.027      35.748      0.000      1.079      0.829
##      OCIR_12_quntsd      0.900      0.030      29.821      0.000      0.999      0.770
##      OCIR_13_quntsd      0.780      0.028      27.802      0.000      0.866      0.687
##      SZ =~
##      SZ_1_quantised      1.000                                0.304      0.624
##      SZ_10_quantised      0.832      0.042      19.767      0.000      0.253      0.598
##      SZ_11_quantised      0.813      0.044      18.281      0.000      0.247      0.500
##      SZ_12_quantised      0.789      0.045      17.482      0.000      0.240      0.501
##      SZ_13_quantised      0.904      0.048      18.685      0.000      0.274      0.557
##      SZ_14_quantised      0.872      0.053      16.391      0.000      0.265      0.530
##      SZ_15_quantised      0.923      0.051      17.934      0.000      0.280      0.562
##      SZ_16_quantised      0.716      0.051      13.955      0.000      0.217      0.435
##      SZ_17_quantised      0.840      0.049      17.251      0.000      0.255      0.514
##      SZ_18_quantised      0.972      0.050      19.598      0.000      0.295      0.599
##      SZ_19_quantised      0.842      0.049      17.289      0.000      0.256      0.514
##      SZ_2_quantised      0.949      0.044      21.519      0.000      0.288      0.591
##      SZ_20_quantised      0.951      0.044      21.643      0.000      0.289      0.637
##      SZ_21_quantised      0.894      0.050      17.927      0.000      0.272      0.549
##      SZ_22_quantised      0.871      0.052      16.716      0.000      0.265      0.532
##      SZ_23_quantised      0.885      0.049      17.998      0.000      0.269      0.548
##      SZ_24_quantised      0.883      0.046      19.056      0.000      0.268      0.546
##      SZ_25_quantised      0.800      0.046      17.378      0.000      0.243      0.491
##      SZ_26_quantised      -0.009      0.047      -0.193      0.847      -0.003      -0.006
##      SZ_27_quantised      0.059      0.048      1.241      0.215      0.018      0.039
##      SZ_28_quantised      -0.049      0.055      -0.897      0.370      -0.015      -0.031
##      SZ_29_quantised      0.602      0.049      12.280      0.000      0.183      0.371
##      SZ_3_quantised      0.792      0.043      18.237      0.000      0.240      0.548
##      SZ_30_quantised      0.115      0.055      2.100      0.036      0.035      0.071
##      SZ_31_quantised      0.038      0.046      0.828      0.408      0.012      0.025
##      SZ_32_quantised      0.697      0.050      13.975      0.000      0.212      0.429
##      SZ_33_quantised      0.459      0.050      9.104      0.000      0.139      0.289
##      SZ_34_quantised      -0.052      0.047      -1.123      0.262      -0.016      -0.035
##      SZ_35_quantised      0.784      0.042      18.514      0.000      0.238      0.569
##      SZ_36_quantised      0.846      0.048      17.785      0.000      0.257      0.516
##      SZ_37_quantised      -0.206      0.050      -4.076      0.000      -0.062      -0.136
##      SZ_38_quantised      0.907      0.043      21.042      0.000      0.275      0.597
##      SZ_39_quantised      -0.010      0.048      -0.201      0.840      -0.003      -0.006
##      SZ_4_quantised      0.837      0.041      20.321      0.000      0.254      0.549

```

```

##      SZ_40_quantisd    0.702    0.049   14.431    0.000    0.213    0.432
##      SZ_41_quantisd    0.851    0.046   18.572    0.000    0.258    0.522
##      SZ_42_quantisd    0.955    0.045   21.264    0.000    0.290    0.584
##      SZ_5_quantised    0.878    0.044   20.164    0.000    0.267    0.597
##      SZ_6_quantised    0.900    0.044   20.478    0.000    0.273    0.606
##      SZ_7_quantised    0.870    0.045   19.528    0.000    0.264    0.535
##      SZ_8_quantised    0.842    0.042   20.203    0.000    0.256    0.566
##      SZ_9_quantised    0.902    0.046   19.715    0.000    0.274    0.565
##      STAI =~
##      STAI2_Clm_qnts     1.000                0.540    0.589
##      STAI2_Cntnt_qn     0.928    0.042   22.297    0.000    0.502    0.548
##      STAI2_Dscns_qn     0.844    0.044   18.993    0.000    0.456    0.502
##      STAI2_Dffclts_    -1.273    0.169   -7.551    0.000   -0.688   -0.715
##      STAI2_DsppntS_    -1.134    0.172   -6.583    0.000   -0.613   -0.649
##      STAI2_Flr_qnts     -1.340    0.158   -8.460    0.000   -0.724   -0.756
##      STAI2_Hppy_qnt      0.975    0.044   22.181    0.000    0.527    0.570
##      STAI2_Hppy0th_    -1.062    0.155   -6.842    0.000   -0.574   -0.574
##      STAI2_Indqt_qn     -1.330    0.170   -7.809    0.000   -0.719   -0.735
##      STAI2_Nrvs_qnt     -1.244    0.164   -7.596    0.000   -0.672   -0.719
##      STAI2_Plsnt_qn      0.926    0.039   23.902    0.000    0.500    0.586
##      STAI2_Rstd_qnt      0.683    0.052   13.227    0.000    0.369    0.413
##      STAI2_StsfdSl_     1.054    0.043   24.243    0.000    0.569    0.588
##      STAI2_Scr_qnts     1.000    0.045   22.179    0.000    0.541    0.567
##      STAI2_SlfCnfd_    -1.142    0.160   -7.158    0.000   -0.617   -0.600
##      STAI2_Stdy_qnt      1.065    0.044   24.468    0.000    0.576    0.641
##      STAI2_Tnsn_qnt     -1.214    0.191   -6.358    0.000   -0.656   -0.683
##      STAI2_Thghts_q     -1.019    0.170   -5.990    0.000   -0.550   -0.610
##      STAI2_UnmprtT_     -1.134    0.179   -6.353    0.000   -0.613   -0.643
##      STAI2_Wrry_qnt     -1.183    0.173   -6.819    0.000   -0.639   -0.653
##
## Regressions:
##      Estimate Std.Err z-value P(>|z|) Std.lv Std.all
##      driftrate ~
##      spreadsheet      0.000    0.000    2.751    0.006    0.000    0.086
##      Ravens           0.001    0.000    4.281    0.000    0.001    0.145
##      Age              -0.000    0.000   -3.530    0.000   -0.000   -0.111
##      GenderMF         -0.000    0.001   -0.445    0.656   -0.000   -0.014
##      BDI              -0.003    0.001   -2.557    0.011   -0.002   -0.171
##      OCD              0.000    0.001    0.086    0.931    0.000    0.005
##      SZ               0.001    0.002    0.614    0.539    0.000    0.036
##      STAI            -0.002    0.001   -1.103    0.270   -0.001   -0.072
##
## Covariances:
##      Estimate Std.Err z-value P(>|z|) Std.lv Std.all
##      spreadsheet ~~
##      Ravens         -0.395    0.280   -1.407    0.159   -0.395   -0.045
##      Age             1.283    0.974    1.317    0.188    1.283    0.042
##      GenderMF        0.059    0.047    1.264    0.206    0.059    0.040
##      BDI ~~
##      spreadsheet    -0.007    0.057   -0.114    0.909   -0.011   -0.004
##      OCD ~~
##      spreadsheet     0.125    0.108    1.160    0.246    0.113    0.038
##      SZ ~~
##      spreadsheet    -0.022    0.030   -0.735    0.463   -0.073   -0.024

```

```

## STAI ~~
## spreadsheet      -0.006    0.054   -0.110    0.912   -0.011   -0.004
## Ravens ~~
## Age              2.698    0.986    2.735    0.006    2.698    0.090
## GenderMF         -0.070    0.046   -1.529    0.126   -0.070   -0.048
## BDI ~~
## Ravens          -0.323    0.059   -5.457    0.000   -0.552   -0.188
## OCD ~~
## Ravens          -1.108    0.100  -11.102    0.000   -0.998   -0.339
## SZ ~~
## Ravens           0.200    0.030    6.737    0.000    0.657    0.223
## STAI ~~
## Ravens           0.209    0.053    3.921    0.000    0.387    0.131
## Age ~~
## GenderMF         -0.061    0.160   -0.379    0.705   -0.061   -0.012
## BDI ~~
## Age             -1.316    0.202   -6.531    0.000   -2.253   -0.220
## OCD ~~
## Age             -3.814    0.341  -11.174    0.000   -3.434   -0.336
## SZ ~~
## Age              0.838    0.107    7.824    0.000    2.760    0.270
## STAI ~~
## Age              1.300    0.208    6.262    0.000    2.405    0.235
## BDI ~~
## GenderMF         0.010    0.009    1.049    0.294    0.017    0.035
## OCD ~~
## GenderMF         0.042    0.017    2.426    0.015    0.038    0.077
## SZ ~~
## GenderMF        -0.008    0.005   -1.560    0.119   -0.025   -0.051
## STAI ~~
## GenderMF        -0.009    0.009   -0.968    0.333   -0.016   -0.032
## BDI ~~
## OCD              0.340    0.027   12.654    0.000    0.525    0.525
## SZ              -0.116    0.008  -14.096    0.000   -0.654   -0.654
## STAI            -0.260    0.027   -9.521    0.000   -0.822   -0.822
## OCD ~~
## SZ              -0.247    0.015  -16.994    0.000   -0.733   -0.733
## STAI            -0.281    0.023  -12.006    0.000   -0.468   -0.468
## SZ ~~
## STAI             0.104    0.007   14.080    0.000    0.632    0.632
##
## Variances:
## Estimate Std.Err z-value P(>|z|) Std.lv Std.all
## .BDI_Apptt_qnts  0.464  0.028  16.535  0.000  0.464  0.576
## .BDI_Attrctv_qn  0.518  0.028  18.728  0.000  0.518  0.581
## .BDI_Blam_qntsd  0.325  0.019  16.991  0.000  0.325  0.422
## .BDI_Cry_qntsd   0.426  0.029  14.930  0.000  0.426  0.556
## .BDI_Dcsns_qnts  0.367  0.022  16.761  0.000  0.367  0.466
## .BDI_Dsppntmnt_  0.347  0.022  16.018  0.000  0.347  0.445
## .BDI_Falr_qntsd  0.389  0.023  17.135  0.000  0.389  0.466
## .BDI_Futr_qntsd  0.357  0.022  16.559  0.000  0.357  0.450
## .BDI_Glty_qntsd  0.379  0.023  16.480  0.000  0.379  0.524
## .BDI_Hlth_qntsd  0.394  0.021  18.344  0.000  0.394  0.660
## .BDI_Intrs_I_P_  0.425  0.024  17.829  0.000  0.425  0.519

```

##	.BDI_Irrtttd_qnt	0.394	0.021	18.357	0.000	0.394	0.501
##	.BDI_Libd_qntsd	0.525	0.031	17.081	0.000	0.525	0.671
##	.BDI_Pnshd_qnts	0.485	0.031	15.831	0.000	0.485	0.558
##	.BDI_Sad_qntsd	0.294	0.020	14.599	0.000	0.294	0.491
##	.BDI_Stsfctn_qn	0.455	0.027	17.159	0.000	0.455	0.526
##	.BDI_Slep_qntsd	0.536	0.027	19.827	0.000	0.536	0.665
##	.BDI_Tird_qntsd	0.409	0.022	18.626	0.000	0.409	0.560
##	.BDI_wght_qntsd	0.404	0.029	13.738	0.000	0.404	0.792
##	.BDI_Work_qntsd	0.356	0.020	17.787	0.000	0.356	0.477
##	.OCIR_14_qntsd	0.573	0.038	14.887	0.000	0.573	0.317
##	.OCIR_15_qntsd	0.830	0.048	17.267	0.000	0.830	0.492
##	.OCIR_16_qntsd	0.651	0.043	15.273	0.000	0.651	0.379
##	.OCIR_17_qntsd	0.528	0.036	14.759	0.000	0.528	0.294
##	.OCIR_18_qntsd	0.577	0.041	13.927	0.000	0.577	0.327
##	.OCIR_2_quantisd	0.825	0.040	20.714	0.000	0.825	0.490
##	.OCIR_3_quantisd	0.779	0.044	17.654	0.000	0.779	0.490
##	.OCIR_4_quantisd	0.585	0.036	16.313	0.000	0.585	0.352
##	.OCIR_5_quantisd	0.692	0.045	15.356	0.000	0.692	0.412
##	.OCIR_6_quantisd	0.758	0.043	17.759	0.000	0.758	0.460
##	.OCIR_7_quantisd	0.732	0.041	17.761	0.000	0.732	0.482
##	.OCIR_8_quantisd	0.596	0.039	15.269	0.000	0.596	0.334
##	.OCIR_9_quantisd	0.773	0.043	18.192	0.000	0.773	0.483
##	.OCIR_1_quantisd	0.731	0.040	18.186	0.000	0.731	0.447
##	.OCIR_10_quantisd	0.469	0.030	15.743	0.000	0.469	0.286
##	.OCIR_11_quantisd	0.532	0.033	16.121	0.000	0.532	0.313
##	.OCIR_12_quantisd	0.685	0.042	16.421	0.000	0.685	0.407
##	.OCIR_13_quantisd	0.838	0.044	18.924	0.000	0.838	0.528
##	.SZ_1_quantised	0.144	0.006	22.367	0.000	0.144	0.610
##	.SZ_10_quantisd	0.114	0.005	21.692	0.000	0.114	0.642
##	.SZ_11_quantisd	0.183	0.006	29.280	0.000	0.183	0.750
##	.SZ_12_quantisd	0.171	0.006	26.848	0.000	0.171	0.749
##	.SZ_13_quantisd	0.168	0.006	26.425	0.000	0.168	0.690
##	.SZ_14_quantisd	0.179	0.007	26.900	0.000	0.179	0.719
##	.SZ_15_quantisd	0.170	0.006	26.216	0.000	0.170	0.684
##	.SZ_16_quantisd	0.203	0.006	34.129	0.000	0.203	0.811
##	.SZ_17_quantisd	0.181	0.006	28.689	0.000	0.181	0.736
##	.SZ_18_quantisd	0.156	0.006	24.312	0.000	0.156	0.641
##	.SZ_19_quantisd	0.182	0.006	28.684	0.000	0.182	0.736
##	.SZ_2_quantised	0.154	0.006	24.188	0.000	0.154	0.650
##	.SZ_20_quantisd	0.122	0.006	22.160	0.000	0.122	0.595
##	.SZ_21_quantisd	0.171	0.007	26.245	0.000	0.171	0.699
##	.SZ_22_quantisd	0.177	0.007	26.748	0.000	0.177	0.717
##	.SZ_23_quantisd	0.168	0.006	26.159	0.000	0.168	0.699
##	.SZ_24_quantisd	0.169	0.006	26.538	0.000	0.169	0.701
##	.SZ_25_quantisd	0.186	0.006	29.892	0.000	0.186	0.759
##	.SZ_26_quantisd	0.212	0.006	37.150	0.000	0.212	1.000
##	.SZ_27_quantisd	0.208	0.006	35.155	0.000	0.208	0.998
##	.SZ_28_quantisd	0.237	0.004	66.525	0.000	0.237	0.999
##	.SZ_29_quantisd	0.209	0.006	36.886	0.000	0.209	0.862
##	.SZ_3_quantised	0.134	0.006	21.758	0.000	0.134	0.699
##	.SZ_30_quantisd	0.242	0.003	87.997	0.000	0.242	0.995
##	.SZ_31_quantisd	0.205	0.006	33.773	0.000	0.205	0.999
##	.SZ_32_quantisd	0.199	0.006	32.916	0.000	0.199	0.816
##	.SZ_33_quantisd	0.213	0.005	41.179	0.000	0.213	0.916

##	.SZ_34_quantisd	0.206	0.006	33.905	0.000	0.206	0.999
##	.SZ_35_quantisd	0.118	0.006	21.176	0.000	0.118	0.676
##	.SZ_36_quantisd	0.181	0.006	28.549	0.000	0.181	0.733
##	.SZ_37_quantisd	0.207	0.006	35.311	0.000	0.207	0.981
##	.SZ_38_quantisd	0.137	0.006	23.224	0.000	0.137	0.643
##	.SZ_39_quantisd	0.206	0.006	33.964	0.000	0.206	1.000
##	.SZ_4_quantised	0.149	0.006	23.951	0.000	0.149	0.698
##	.SZ_40_quantisd	0.199	0.006	33.029	0.000	0.199	0.814
##	.SZ_41_quantisd	0.178	0.006	28.089	0.000	0.178	0.728
##	.SZ_42_quantisd	0.162	0.006	25.100	0.000	0.162	0.659
##	.SZ_5_quantised	0.128	0.006	21.712	0.000	0.128	0.643
##	.SZ_6_quantised	0.129	0.006	22.848	0.000	0.129	0.633
##	.SZ_7_quantised	0.174	0.006	26.834	0.000	0.174	0.714
##	.SZ_8_quantised	0.139	0.006	22.292	0.000	0.139	0.680
##	.SZ_9_quantised	0.160	0.006	26.000	0.000	0.160	0.681
##	.STAI2_Clm_qnts	0.549	0.055	9.980	0.000	0.549	0.653
##	.STAI2_Cntnt_qn	0.587	0.055	10.619	0.000	0.587	0.700
##	.STAI2_Dscns_qn	0.618	0.047	13.170	0.000	0.618	0.748
##	.STAI2_Dffclts_	0.452	0.036	12.651	0.000	0.452	0.489
##	.STAI2_DsppntS_	0.516	0.043	12.010	0.000	0.516	0.579
##	.STAI2_Flr_qnts	0.394	0.027	14.739	0.000	0.394	0.429
##	.STAI2_Hppy_qnt	0.578	0.059	9.828	0.000	0.578	0.675
##	.STAI2_HppyOth_	0.670	0.044	15.384	0.000	0.670	0.670
##	.STAI2_Indqt_qn	0.440	0.039	11.353	0.000	0.440	0.460
##	.STAI2_Nrvs_qnt	0.423	0.032	13.277	0.000	0.423	0.483
##	.STAI2_Plsnt_qn	0.479	0.051	9.372	0.000	0.479	0.657
##	.STAI2_Rstd_qnt	0.662	0.045	14.678	0.000	0.662	0.829
##	.STAI2_StsfdSl_	0.615	0.065	9.467	0.000	0.615	0.655
##	.STAI2_Scr_qnts	0.618	0.062	10.014	0.000	0.618	0.679
##	.STAI2_SlfCnfd_	0.678	0.045	15.095	0.000	0.678	0.641
##	.STAI2_Stdy_qnt	0.476	0.052	9.187	0.000	0.476	0.589
##	.STAI2_Tnsn_qnt	0.494	0.050	9.932	0.000	0.494	0.534
##	.STAI2_Thghts_q	0.512	0.041	12.388	0.000	0.512	0.628
##	.STAI2_UnmprtT_	0.533	0.044	12.111	0.000	0.533	0.587
##	.STAI2_Wrry_qnt	0.550	0.043	12.934	0.000	0.550	0.574
##	.driftrate	0.000	0.000	21.330	0.000	0.000	0.942
##	spreadsheet	9.000	0.003	2594.686	0.000	9.000	1.000
##	Ravens	8.673	0.335	25.891	0.000	8.673	1.000
##	Age	104.594	6.150	17.007	0.000	104.594	1.000
##	GenderMF	0.242	0.003	86.073	0.000	0.242	1.000
##	BDI	0.341	0.030	11.259	0.000	1.000	1.000
##	OCD	1.233	0.060	20.614	0.000	1.000	1.000
##	SZ	0.092	0.007	14.002	0.000	1.000	1.000
##	STAI	0.292	0.061	4.811	0.000	1.000	1.000
##							
##	R-Square:						
##		Estimate					
##	BDI_Apptt_qnts	0.424					
##	BDI_Attrctv_qn	0.419					
##	BDI_Blam_qntsd	0.578					
##	BDI_Cry_qntsd	0.444					
##	BDI_Dcsns_qnts	0.534					
##	BDI_Dsppntmnt_	0.555					
##	BDI_Falr_qntsd	0.534					

##	BDI_Futr_qntsd	0.550
##	BDI_Glty_qntsd	0.476
##	BDI_Hlth_qntsd	0.340
##	BDI_Intrs_I_P_	0.481
##	BDI_Irrtttd_qnt	0.499
##	BDI_Libd_qntsd	0.329
##	BDI_Pnshd_qnts	0.442
##	BDI_Sad_qntsd	0.509
##	BDI_Stsfctn_qn	0.474
##	BDI_Slep_qntsd	0.335
##	BDI_Tird_qntsd	0.440
##	BDI_wght_qntsd	0.208
##	BDI_Work_qntsd	0.523
##	OCIR_14_qntsd	0.683
##	OCIR_15_qntsd	0.508
##	OCIR_16_qntsd	0.621
##	OCIR_17_qntsd	0.706
##	OCIR_18_qntsd	0.673
##	OCIR_2_quantisd	0.510
##	OCIR_3_quantisd	0.510
##	OCIR_4_quantisd	0.648
##	OCIR_5_quantisd	0.588
##	OCIR_6_quantisd	0.540
##	OCIR_7_quantisd	0.518
##	OCIR_8_quantisd	0.666
##	OCIR_9_quantisd	0.517
##	OCIR_1_quantisd	0.553
##	OCIR_10_quantisd	0.714
##	OCIR_11_quantisd	0.687
##	OCIR_12_quantisd	0.593
##	OCIR_13_quantisd	0.472
##	SZ_1_quantised	0.390
##	SZ_10_quantisd	0.358
##	SZ_11_quantisd	0.250
##	SZ_12_quantisd	0.251
##	SZ_13_quantisd	0.310
##	SZ_14_quantisd	0.281
##	SZ_15_quantisd	0.316
##	SZ_16_quantisd	0.189
##	SZ_17_quantisd	0.264
##	SZ_18_quantisd	0.359
##	SZ_19_quantisd	0.264
##	SZ_2_quantised	0.350
##	SZ_20_quantisd	0.405
##	SZ_21_quantisd	0.301
##	SZ_22_quantisd	0.283
##	SZ_23_quantisd	0.301
##	SZ_24_quantisd	0.299
##	SZ_25_quantisd	0.241
##	SZ_26_quantisd	0.000
##	SZ_27_quantisd	0.002
##	SZ_28_quantisd	0.001
##	SZ_29_quantisd	0.138
##	SZ_3_quantised	0.301

```
##      SZ_30_quantisd      0.005
##      SZ_31_quantisd      0.001
##      SZ_32_quantisd      0.184
##      SZ_33_quantisd      0.084
##      SZ_34_quantisd      0.001
##      SZ_35_quantisd      0.324
##      SZ_36_quantisd      0.267
##      SZ_37_quantisd      0.019
##      SZ_38_quantisd      0.357
##      SZ_39_quantisd      0.000
##      SZ_4_quantised      0.302
##      SZ_40_quantisd      0.186
##      SZ_41_quantisd      0.272
##      SZ_42_quantisd      0.341
##      SZ_5_quantised      0.357
##      SZ_6_quantised      0.367
##      SZ_7_quantised      0.286
##      SZ_8_quantised      0.320
##      SZ_9_quantised      0.319
##      STAI2_Clm_qnts      0.347
##      STAI2_Cntnt_qn      0.300
##      STAI2_Dscns_qn      0.252
##      STAI2_Dffclts_      0.511
##      STAI2_DsppntS_      0.421
##      STAI2_Flr_qnts      0.571
##      STAI2_Hppy_qnt      0.325
##      STAI2_Hppy0th_      0.330
##      STAI2_Indqt_qn      0.540
##      STAI2_Nrvs_qnt      0.517
##      STAI2_Plsnt_qn      0.343
##      STAI2_Rstd_qnt      0.171
##      STAI2_StsfdSl_      0.345
##      STAI2_Scr_qnts      0.321
##      STAI2_SlfCnfd_      0.359
##      STAI2_Stdy_qnt      0.411
##      STAI2_Tnsn_qnt      0.466
##      STAI2_Thghts_q      0.372
##      STAI2_UnmprtT_      0.413
##      STAI2_Wrry_qnt      0.426
##      driftrate           0.058
```

```
summary(FitQuaireSEMPmidmiss, standardized=TRUE, rsquare=T, fit.measures=F) #estimate missing
```

```
## lavaan 0.6-3 ended normally after 273 iterations
```

```
##
##      Optimization method      NLMINB
##      Number of free parameters      346
##
##      Number of observations      1066
##      Number of missing patterns      3
##
##      Estimator      ML      Robust
##      Model Fit Test Statistic      20575.009      18045.563
##      Degrees of freedom      5324      5324
```

```

##      P-value (Chi-square)                0.000      0.000
##      Scaling correction factor              1.140
##      for the Yuan-Bentler correction (Mplus variant)
##
## Parameter Estimates:
##
##      Information                        Observed
##      Observed information based on      Hessian
##      Standard Errors                    Robust.huber.white
##
## Latent Variables:
##      Estimate  Std.Err  z-value  P(>|z|)  Std.lv  Std.all
##
##      BDI =~
##      BDI_Apptt_qnts      1.000
##      BDI_Attrctv_qn      1.059      0.056      19.030      0.000      0.613      0.651
##      BDI_Blam_qntsd      1.144      0.056      20.520      0.000      0.662      0.757
##      BDI_Cry_qntsd       1.001      0.049      20.350      0.000      0.580      0.660
##      BDI_Dcsns_qnts      1.106      0.054      20.486      0.000      0.640      0.723
##      BDI_Dsppntmnt_      1.117      0.060      18.656      0.000      0.646      0.739
##      BDI_Falr_qntsd      1.152      0.060      19.171      0.000      0.667      0.729
##      BDI_Futr_qntsd      1.127      0.058      19.581      0.000      0.652      0.734
##      BDI_Glty_qntsd      1.015      0.052      19.546      0.000      0.588      0.690
##      BDI_Hlth_qntsd      0.776      0.044      17.580      0.000      0.449      0.581
##      BDI_Intrs_I_P_      1.070      0.054      19.645      0.000      0.620      0.688
##      BDI_Irrtttd_qnt      1.076      0.051      21.100      0.000      0.623      0.704
##      BDI_Libd_qntsd      0.885      0.048      18.486      0.000      0.513      0.576
##      BDI_Pnshd_qnts      1.058      0.053      19.813      0.000      0.613      0.664
##      BDI_Sad_qntsd       0.964      0.048      20.019      0.000      0.558      0.717
##      BDI_Stsfctn_qn      1.096      0.058      18.876      0.000      0.634      0.682
##      BDI_Slep_qntsd      0.899      0.049      18.300      0.000      0.521      0.581
##      BDI_Tird_qntsd      0.974      0.051      18.934      0.000      0.564      0.660
##      BDI_wght_qntsd      0.563      0.042      13.538      0.000      0.326      0.456
##      BDI_Work_qntsd      1.066      0.052      20.616      0.000      0.617      0.720
##
##      OCD =~
##      OCIR_14_qntsd       1.000
##      OCIR_15_qntsd       0.841      0.027      30.771      0.000      0.943      0.719
##      OCIR_16_qntsd       0.927      0.027      34.647      0.000      1.039      0.792
##      OCIR_17_qntsd       1.007      0.026      38.524      0.000      1.130      0.842
##      OCIR_18_qntsd       0.973      0.026      36.850      0.000      1.092      0.817
##      OCIR_2_quantstd      0.821      0.026      31.545      0.000      0.921      0.709
##      OCIR_3_quantstd      0.808      0.027      30.102      0.000      0.906      0.718
##      OCIR_4_quantstd      0.932      0.025      37.186      0.000      1.045      0.808
##      OCIR_5_quantstd      0.887      0.028      31.257      0.000      0.995      0.770
##      OCIR_6_quantstd      0.836      0.029      29.023      0.000      0.938      0.732
##      OCIR_7_quantstd      0.794      0.027      28.914      0.000      0.891      0.720
##      OCIR_8_quantstd      0.978      0.023      42.486      0.000      1.096      0.817
##      OCIR_9_quantstd      0.822      0.027      30.755      0.000      0.922      0.723
##      OCIR_1_quantstd      0.835      0.026      32.413      0.000      0.937      0.729
##      OCIR_10_quantstd     0.978      0.024      40.871      0.000      1.097      0.849
##      OCIR_11_quantstd     0.975      0.026      37.625      0.000      1.094      0.833
##      OCIR_12_quantstd     0.892      0.028      31.318      0.000      1.000      0.768
##      OCIR_13_quantstd     0.776      0.027      28.703      0.000      0.870      0.686
##
##      SZ =~
##      SZ_1_quantised       1.000
##      SZ_1_quantised       1.000
##      SZ_1_quantised       0.304      0.622

```


##	SZ_10_quantisd	0.844	0.041	20.759	0.000	0.256	0.603
##	SZ_11_quantisd	0.819	0.042	19.494	0.000	0.249	0.503
##	SZ_12_quantisd	0.786	0.043	18.355	0.000	0.239	0.499
##	SZ_13_quantisd	0.902	0.046	19.612	0.000	0.274	0.554
##	SZ_14_quantisd	0.846	0.051	16.735	0.000	0.257	0.515
##	SZ_15_quantisd	0.914	0.049	18.725	0.000	0.278	0.557
##	SZ_16_quantisd	0.720	0.049	14.806	0.000	0.219	0.437
##	SZ_17_quantisd	0.842	0.046	18.229	0.000	0.256	0.515
##	SZ_18_quantisd	0.973	0.047	20.786	0.000	0.296	0.598
##	SZ_19_quantisd	0.836	0.047	17.959	0.000	0.254	0.511
##	SZ_2_quantised	0.943	0.042	22.513	0.000	0.287	0.587
##	SZ_20_quantisd	0.948	0.042	22.495	0.000	0.288	0.631
##	SZ_21_quantisd	0.891	0.048	18.697	0.000	0.271	0.546
##	SZ_22_quantisd	0.864	0.049	17.689	0.000	0.263	0.528
##	SZ_23_quantisd	0.891	0.047	19.124	0.000	0.271	0.551
##	SZ_24_quantisd	0.877	0.045	19.675	0.000	0.267	0.541
##	SZ_25_quantisd	0.810	0.044	18.419	0.000	0.246	0.497
##	SZ_26_quantisd	0.011	0.046	0.246	0.805	0.003	0.007
##	SZ_27_quantisd	0.081	0.046	1.775	0.076	0.025	0.054
##	SZ_28_quantisd	-0.025	0.052	-0.478	0.633	-0.008	-0.016
##	SZ_29_quantisd	0.615	0.047	13.177	0.000	0.187	0.380
##	SZ_3_quantised	0.804	0.041	19.439	0.000	0.244	0.551
##	SZ_30_quantisd	0.133	0.053	2.538	0.011	0.041	0.082
##	SZ_31_quantisd	0.060	0.044	1.373	0.170	0.018	0.040
##	SZ_32_quantisd	0.718	0.047	15.188	0.000	0.218	0.441
##	SZ_33_quantisd	0.470	0.048	9.862	0.000	0.143	0.298
##	SZ_34_quantisd	-0.043	0.045	-0.960	0.337	-0.013	-0.029
##	SZ_35_quantisd	0.809	0.041	19.976	0.000	0.246	0.578
##	SZ_36_quantisd	0.826	0.045	18.308	0.000	0.251	0.504
##	SZ_37_quantisd	-0.174	0.048	-3.594	0.000	-0.053	-0.115
##	SZ_38_quantisd	0.914	0.041	22.280	0.000	0.278	0.602
##	SZ_39_quantisd	0.012	0.046	0.265	0.791	0.004	0.008
##	SZ_4_quantised	0.844	0.039	21.454	0.000	0.257	0.553
##	SZ_40_quantisd	0.723	0.046	15.558	0.000	0.220	0.444
##	SZ_41_quantisd	0.855	0.044	19.487	0.000	0.260	0.524
##	SZ_42_quantisd	0.970	0.043	22.456	0.000	0.295	0.592
##	SZ_5_quantised	0.869	0.042	20.793	0.000	0.264	0.588
##	SZ_6_quantised	0.918	0.042	21.753	0.000	0.279	0.610
##	SZ_7_quantised	0.869	0.043	20.405	0.000	0.264	0.533
##	SZ_8_quantised	0.843	0.040	21.085	0.000	0.256	0.564
##	SZ_9_quantised	0.908	0.043	20.957	0.000	0.276	0.567
##	STAI =~						
##	STAI2_Clm_qnts	1.000				0.511	0.559
##	STAI2_Cntnt_qn	0.918	0.042	21.713	0.000	0.469	0.515
##	STAI2_Dscns_qn	0.823	0.046	18.094	0.000	0.421	0.463
##	STAI2_Dffclts_	-1.372	0.169	-8.115	0.000	-0.701	-0.725
##	STAI2_DsppntS_	-1.214	0.169	-7.192	0.000	-0.620	-0.658
##	STAI2_Flr_qnts	-1.432	0.163	-8.775	0.000	-0.732	-0.754
##	STAI2_Hppy_qnt	0.975	0.044	22.105	0.000	0.498	0.541
##	STAI2_Hppy0th_	-1.116	0.150	-7.441	0.000	-0.570	-0.574
##	STAI2_Indqt_qn	-1.414	0.170	-8.304	0.000	-0.722	-0.740
##	STAI2_Nrvs_qnt	-1.348	0.167	-8.079	0.000	-0.688	-0.731
##	STAI2_Plsnt_qn	0.930	0.039	23.841	0.000	0.475	0.554
##	STAI2_Rstd_qnt	0.685	0.051	13.385	0.000	0.350	0.393

```

##      STAI2_StsfdsI_      1.051      0.044      23.857      0.000      0.537      0.553
##      STAI2_Scr_qnts      1.020      0.045      22.733      0.000      0.521      0.547
##      STAI2_SlfCnfd_     -1.227      0.159      -7.725      0.000     -0.627     -0.609
##      STAI2_Stdy_qnt      1.074      0.044      24.232      0.000      0.549      0.616
##      STAI2_Tnsn_qnt     -1.318      0.188      -7.014      0.000     -0.673     -0.697
##      STAI2_Thghts_q     -1.108      0.170      -6.529      0.000     -0.566     -0.623
##      STAI2_UnmprtT_     -1.229      0.177      -6.938      0.000     -0.628     -0.659
##      STAI2_Wrry_qnt     -1.273      0.172      -7.402      0.000     -0.650     -0.664
##
## Regressions:
##      Estimate      Std.Err      z-value      P(>|z|)      Std.lv      Std.all
##      propmedhigh ~
##      spreadsheet      0.006      0.002      2.774      0.006      0.006      0.086
##      Ravens           0.010      0.002      4.276      0.000      0.010      0.143
##      Age              -0.002      0.001      -3.716      0.000     -0.002     -0.117
##      GenderMF         -0.005      0.013     -0.407      0.684     -0.005     -0.013
##      BDI              -0.059      0.024     -2.457      0.014     -0.034     -0.163
##      OCD              -0.001      0.010     -0.138      0.891     -0.002     -0.007
##      SZ               0.025      0.041      0.617      0.537      0.008      0.037
##      STAI             -0.030      0.027     -1.145      0.252     -0.016     -0.075
##
## Covariances:
##      Estimate      Std.Err      z-value      P(>|z|)      Std.lv      Std.all
##      spreadsheet ~~
##      Ravens          -0.421      0.278     -1.516      0.129     -0.421     -0.048
##      Age              1.351      0.973      1.389      0.165      1.351      0.044
##      GenderMF         0.060      0.047      1.282      0.200      0.060      0.041
##      BDI ~~
##      spreadsheet     -0.004      0.056     -0.062      0.950     -0.006     -0.002
##      OCD ~~
##      spreadsheet      0.142      0.109      1.301      0.193      0.127      0.042
##      SZ ~~
##      spreadsheet     -0.027      0.030     -0.890      0.373     -0.088     -0.029
##      STAI ~~
##      spreadsheet     -0.011      0.050     -0.225      0.822     -0.022     -0.007
##      Ravens ~~
##      Age              2.429      0.950      2.556      0.011      2.429      0.081
##      GenderMF        -0.057      0.044     -1.305      0.192     -0.057     -0.040
##      BDI ~~
##      Ravens          -0.310      0.056     -5.568      0.000     -0.535     -0.182
##      OCD ~~
##      Ravens          -1.128      0.097    -11.679      0.000     -1.006     -0.343
##      SZ ~~
##      Ravens           0.213      0.029      7.457      0.000      0.701      0.239
##      STAI ~~
##      Ravens           0.217      0.047      4.613      0.000      0.424      0.145
##      Age ~~
##      GenderMF        -0.007      0.154     -0.043      0.966     -0.007     -0.001
##      BDI ~~
##      Age             -1.254      0.192     -6.546      0.000     -2.165     -0.212
##      OCD ~~
##      Age             -3.697      0.335    -11.050      0.000     -3.297     -0.322
##      SZ ~~
##      Age              0.798      0.103      7.760      0.000      2.626      0.257

```

```

## STAI ~~
## Age          1.261    0.191    6.601    0.000    2.469    0.241
## BDI ~~
## GenderMF      0.013    0.009    1.482    0.138    0.023    0.047
## OCD ~~
## GenderMF      0.047    0.017    2.752    0.006    0.042    0.085
## SZ ~~
## GenderMF     -0.008    0.005   -1.643    0.100   -0.026   -0.052
## STAI ~~
## GenderMF     -0.011    0.008   -1.393    0.164   -0.022   -0.045
## BDI ~~
## OCD           0.338    0.026   13.061    0.000    0.521    0.521
## SZ          -0.113    0.008  -14.607    0.000   -0.641   -0.641
## STAI         -0.243    0.026   -9.207    0.000   -0.823   -0.823
## OCD ~~
## SZ          -0.251    0.014  -18.039    0.000   -0.736   -0.736
## STAI         -0.289    0.019  -15.514    0.000   -0.504   -0.504
## SZ ~~
## STAI          0.100    0.008   13.251    0.000    0.642    0.642
##
## Intercepts:
##           Estimate Std.Err z-value P(>|z|) Std.lv Std.all
## .BDI_Apptt_qnts    1.670   0.027  60.777   0.000    1.670    1.861
## .BDI_Attrctv_qn    1.852   0.029  64.228   0.000    1.852    1.967
## .BDI_Blam_qntsd    1.886   0.027  70.431   0.000    1.886    2.157
## .BDI_Cry_qntsd     1.615   0.027  60.051   0.000    1.615    1.839
## .BDI_Dcsns_qnts    1.734   0.027  63.902   0.000    1.734    1.957
## .BDI_Dsppntmnt_    1.840   0.027  68.667   0.000    1.840    2.103
## .BDI_Falr_qntsd    1.841   0.028  65.660   0.000    1.841    2.011
## .BDI_Futr_qntsd    1.862   0.027  68.459   0.000    1.862    2.097
## .BDI_Glty_qntsd    1.659   0.026  63.611   0.000    1.659    1.948
## .BDI_Hlth_qntsd    1.697   0.024  71.668   0.000    1.697    2.195
## .BDI_Intrs_I_P_    1.879   0.028  68.089   0.000    1.879    2.085
## .BDI_Irrtttd_qnt   1.873   0.027  69.154   0.000    1.873    2.118
## .BDI_Libd_qntsd    1.710   0.027  62.771   0.000    1.710    1.923
## .BDI_Pnshd_qnts    1.659   0.028  58.726   0.000    1.659    1.799
## .BDI_Sad_qntsd     1.691   0.024  70.968   0.000    1.691    2.174
## .BDI_Stsfctn_qn    1.843   0.028  64.684   0.000    1.843    1.981
## .BDI_Slep_qntsd    1.839   0.027  66.982   0.000    1.839    2.052
## .BDI_Tird_qntsd    1.914   0.026  73.135   0.000    1.914    2.240
## .BDI_wght_qntsd    1.378   0.022  62.946   0.000    1.378    1.928
## .BDI_Work_qntsd    1.792   0.026  68.224   0.000    1.792    2.090
## .OCIR_14_qntsd     2.213   0.041  53.357   0.000    2.213    1.634
## .OCIR_15_qntsd     2.439   0.040  60.670   0.000    2.439    1.858
## .OCIR_16_qntsd     2.144   0.040  53.341   0.000    2.144    1.634
## .OCIR_17_qntsd     2.189   0.041  53.283   0.000    2.189    1.632
## .OCIR_18_qntsd     2.265   0.041  55.361   0.000    2.265    1.696
## .OCIR_2_quantd     2.670   0.040  67.122   0.000    2.670    2.056
## .OCIR_3_quantd     2.491   0.039  64.423   0.000    2.491    1.973
## .OCIR_4_quantd     2.244   0.040  56.623   0.000    2.244    1.734
## .OCIR_5_quantd     2.165   0.040  54.721   0.000    2.165    1.676
## .OCIR_6_quantd     2.403   0.039  61.199   0.000    2.403    1.874
## .OCIR_7_quantd     2.212   0.038  58.368   0.000    2.212    1.788
## .OCIR_8_quantd     2.294   0.041  55.812   0.000    2.294    1.709

```

##	.OCIR_9_quantstd	2.557	0.039	65.482	0.000	2.557	2.006
##	.OCIR_1_quantstd	2.417	0.039	61.454	0.000	2.417	1.882
##	.OCIR_10_quntstd	2.018	0.040	51.003	0.000	2.018	1.562
##	.OCIR_11_quntstd	2.222	0.040	55.253	0.000	2.222	1.692
##	.OCIR_12_quntstd	2.347	0.040	58.849	0.000	2.347	1.802
##	.OCIR_13_quntstd	2.459	0.039	63.259	0.000	2.459	1.937
##	.SZ_1_quantised	1.606	0.015	107.311	0.000	1.606	3.287
##	.SZ_10_quantisd	1.763	0.013	135.271	0.000	1.763	4.143
##	.SZ_11_quantisd	1.573	0.015	103.845	0.000	1.573	3.181
##	.SZ_12_quantisd	1.644	0.015	112.037	0.000	1.644	3.431
##	.SZ_13_quantisd	1.569	0.015	103.484	0.000	1.569	3.170
##	.SZ_14_quantisd	1.521	0.015	99.382	0.000	1.521	3.044
##	.SZ_15_quantisd	1.537	0.015	100.608	0.000	1.537	3.081
##	.SZ_16_quantisd	1.506	0.015	98.323	0.000	1.506	3.011
##	.SZ_17_quantisd	1.559	0.015	102.527	0.000	1.559	3.140
##	.SZ_18_quantisd	1.572	0.015	103.754	0.000	1.572	3.178
##	.SZ_19_quantisd	1.553	0.015	101.944	0.000	1.553	3.122
##	.SZ_2_quantised	1.608	0.015	107.527	0.000	1.608	3.293
##	.SZ_20_quantisd	1.704	0.014	121.793	0.000	1.704	3.730
##	.SZ_21_quantisd	1.566	0.015	103.130	0.000	1.566	3.159
##	.SZ_22_quantisd	1.553	0.015	101.944	0.000	1.553	3.122
##	.SZ_23_quantisd	1.592	0.015	105.755	0.000	1.592	3.239
##	.SZ_24_quantisd	1.585	0.015	105.066	0.000	1.585	3.218
##	.SZ_25_quantisd	1.568	0.015	103.307	0.000	1.568	3.164
##	.SZ_26_quantisd	1.309	0.014	92.496	0.000	1.309	2.833
##	.SZ_27_quantisd	1.298	0.014	92.651	0.000	1.298	2.838
##	.SZ_28_quantisd	1.386	0.015	92.943	0.000	1.386	2.847
##	.SZ_29_quantisd	1.586	0.015	105.163	0.000	1.586	3.221
##	.SZ_3_quantised	1.732	0.014	127.610	0.000	1.732	3.908
##	.SZ_30_quantisd	1.421	0.015	93.978	0.000	1.421	2.878
##	.SZ_31_quantisd	1.283	0.014	92.985	0.000	1.283	2.848
##	.SZ_32_quantisd	1.569	0.015	103.484	0.000	1.569	3.170
##	.SZ_33_quantisd	1.360	0.015	92.510	0.000	1.360	2.833
##	.SZ_34_quantisd	1.296	0.014	92.686	0.000	1.296	2.839
##	.SZ_35_quantisd	1.763	0.013	135.271	0.000	1.763	4.143
##	.SZ_36_quantisd	1.546	0.015	101.380	0.000	1.546	3.105
##	.SZ_37_quantisd	1.304	0.014	92.559	0.000	1.304	2.835
##	.SZ_38_quantisd	1.692	0.014	119.716	0.000	1.692	3.667
##	.SZ_39_quantisd	1.295	0.014	92.722	0.000	1.295	2.840
##	.SZ_4_quantised	1.687	0.014	118.725	0.000	1.687	3.636
##	.SZ_40_quantisd	1.573	0.015	103.845	0.000	1.573	3.181
##	.SZ_41_quantisd	1.567	0.015	103.218	0.000	1.567	3.161
##	.SZ_42_quantisd	1.547	0.015	101.459	0.000	1.547	3.108
##	.SZ_5_quantised	1.720	0.014	125.168	0.000	1.720	3.834
##	.SZ_6_quantised	1.702	0.014	121.438	0.000	1.702	3.719
##	.SZ_7_quantised	1.569	0.015	103.484	0.000	1.569	3.170
##	.SZ_8_quantised	1.709	0.014	122.882	0.000	1.709	3.764
##	.SZ_9_quantised	1.614	0.015	108.298	0.000	1.614	3.317
##	.STAI2_Clm_qnts	2.706	0.028	96.646	0.000	2.706	2.960
##	.STAI2_Cntnt_qn	2.699	0.028	96.746	0.000	2.699	2.963
##	.STAI2_Dscns_qn	2.658	0.028	95.608	0.000	2.658	2.928
##	.STAI2_Dffclts_	2.218	0.030	74.925	0.000	2.218	2.295
##	.STAI2_DsppntS_	2.210	0.029	76.562	0.000	2.210	2.345
##	.STAI2_Flr_qnts	2.043	0.030	68.736	0.000	2.043	2.105

##	.STAI2_Hppy_qnt	2.734	0.028	96.900	0.000	2.734	2.968
##	.STAI2_Hppy0th_	2.501	0.030	82.176	0.000	2.501	2.517
##	.STAI2_Indqt_qn	2.177	0.030	72.834	0.000	2.177	2.231
##	.STAI2_Nrvs_qnt	2.232	0.029	77.357	0.000	2.232	2.369
##	.STAI2_Plsnt_qn	2.734	0.026	104.182	0.000	2.734	3.191
##	.STAI2_Rstd_qnt	2.481	0.027	91.038	0.000	2.481	2.788
##	.STAI2_StsfdSl_	2.625	0.030	88.221	0.000	2.625	2.702
##	.STAI2_Scr_qnts	2.712	0.029	92.892	0.000	2.712	2.845
##	.STAI2_SlfCnfd_	2.405	0.032	76.310	0.000	2.405	2.337
##	.STAI2_Stdy_qnt	2.768	0.027	101.471	0.000	2.768	3.108
##	.STAI2_Tnsn_qnt	2.238	0.030	75.699	0.000	2.238	2.319
##	.STAI2_Thghts_q	1.982	0.028	71.203	0.000	1.982	2.181
##	.STAI2_UnmprtT_	2.217	0.029	75.991	0.000	2.217	2.327
##	.STAI2_Wrry_qnt	2.280	0.030	76.075	0.000	2.280	2.330
##	.propmedhigh	0.596	0.027	22.054	0.000	0.596	2.850
##	spreadsheet	3.976	0.095	41.773	0.000	3.976	1.325
##	Ravens	4.392	0.090	48.904	0.000	4.392	1.498
##	Age	34.220	0.313	109.292	0.000	34.220	3.347
##	GenderMF	0.591	0.015	39.181	0.000	0.591	1.203
##	BDI	0.000				0.000	0.000
##	OCD	0.000				0.000	0.000
##	SZ	0.000				0.000	0.000
##	STAI	0.000				0.000	0.000

##

Variances:

##		Estimate	Std.Err	z-value	P(> z)	Std.lv	Std.all
##	.BDI_Apptt_qnts	0.469	0.027	17.502	0.000	0.469	0.583
##	.BDI_Attrctv_qn	0.510	0.026	19.456	0.000	0.510	0.576
##	.BDI_Blam_qntsd	0.326	0.018	17.868	0.000	0.326	0.427
##	.BDI_Cry_qntsd	0.436	0.028	15.729	0.000	0.436	0.565
##	.BDI_Dcsns_qnts	0.375	0.022	17.389	0.000	0.375	0.478
##	.BDI_Dsppntmnt_	0.347	0.020	17.048	0.000	0.347	0.454
##	.BDI_Falr_qntsd	0.393	0.022	17.928	0.000	0.393	0.469
##	.BDI_Futr_qntsd	0.363	0.021	17.390	0.000	0.363	0.461
##	.BDI_Glty_qntsd	0.380	0.022	17.147	0.000	0.380	0.524
##	.BDI_Hlth_qntsd	0.396	0.021	18.902	0.000	0.396	0.662
##	.BDI_Intrs_I_P_	0.428	0.023	18.601	0.000	0.428	0.527
##	.BDI_Irrtttd_qnt	0.394	0.021	19.129	0.000	0.394	0.504
##	.BDI_Libd_qntsd	0.528	0.030	17.886	0.000	0.528	0.668
##	.BDI_Pnshd_qnts	0.476	0.029	16.386	0.000	0.476	0.559
##	.BDI_Sad_qntsd	0.294	0.019	15.217	0.000	0.294	0.486
##	.BDI_Stsfctn_qn	0.463	0.026	17.833	0.000	0.463	0.535
##	.BDI_Slep_qntsd	0.532	0.027	20.053	0.000	0.532	0.662
##	.BDI_Tird_qntsd	0.412	0.021	19.565	0.000	0.412	0.565
##	.BDI_wght_qntsd	0.404	0.028	14.329	0.000	0.404	0.792
##	.BDI_Work_qntsd	0.354	0.019	18.602	0.000	0.354	0.482
##	.OCIR_14_qntsd	0.576	0.037	15.698	0.000	0.576	0.314
##	.OCIR_15_qntsd	0.833	0.047	17.666	0.000	0.833	0.484
##	.OCIR_16_qntsd	0.641	0.040	15.977	0.000	0.641	0.373
##	.OCIR_17_qntsd	0.523	0.034	15.439	0.000	0.523	0.291
##	.OCIR_18_qntsd	0.592	0.040	14.859	0.000	0.592	0.332
##	.OCIR_2_quant	0.839	0.039	21.338	0.000	0.839	0.497
##	.OCIR_3_quant	0.772	0.042	18.275	0.000	0.772	0.485
##	.OCIR_4_quant	0.582	0.034	17.207	0.000	0.582	0.347

##	.OCIR_5_quantstd	0.679	0.042	16.040	0.000	0.679	0.407
##	.OCIR_6_quantstd	0.764	0.041	18.730	0.000	0.764	0.465
##	.OCIR_7_quantstd	0.738	0.040	18.598	0.000	0.738	0.482
##	.OCIR_8_quantstd	0.599	0.038	15.953	0.000	0.599	0.332
##	.OCIR_9_quantstd	0.777	0.041	18.919	0.000	0.777	0.478
##	.OCIR_1_quantstd	0.771	0.041	18.638	0.000	0.771	0.468
##	.OCIR_10_quntstd	0.465	0.028	16.495	0.000	0.465	0.279
##	.OCIR_11_quntstd	0.528	0.031	16.927	0.000	0.528	0.306
##	.OCIR_12_quntstd	0.695	0.040	17.274	0.000	0.695	0.410
##	.OCIR_13_quntstd	0.853	0.043	19.625	0.000	0.853	0.530
##	.SZ_1_quantised	0.146	0.006	23.781	0.000	0.146	0.613
##	.SZ_10_quantisd	0.115	0.005	22.843	0.000	0.115	0.637
##	.SZ_11_quantisd	0.183	0.006	30.651	0.000	0.183	0.747
##	.SZ_12_quantisd	0.172	0.006	28.307	0.000	0.172	0.751
##	.SZ_13_quantisd	0.170	0.006	27.946	0.000	0.170	0.694
##	.SZ_14_quantisd	0.183	0.006	28.969	0.000	0.183	0.735
##	.SZ_15_quantisd	0.172	0.006	27.701	0.000	0.172	0.690
##	.SZ_16_quantisd	0.202	0.006	35.663	0.000	0.202	0.809
##	.SZ_17_quantisd	0.181	0.006	29.882	0.000	0.181	0.734
##	.SZ_18_quantisd	0.157	0.006	25.687	0.000	0.157	0.643
##	.SZ_19_quantisd	0.183	0.006	30.289	0.000	0.183	0.739
##	.SZ_2_quantised	0.156	0.006	25.491	0.000	0.156	0.655
##	.SZ_20_quantisd	0.126	0.005	23.402	0.000	0.126	0.602
##	.SZ_21_quantisd	0.172	0.006	27.561	0.000	0.172	0.702
##	.SZ_22_quantisd	0.178	0.006	28.256	0.000	0.178	0.721
##	.SZ_23_quantisd	0.168	0.006	27.386	0.000	0.168	0.696
##	.SZ_24_quantisd	0.172	0.006	28.172	0.000	0.172	0.707
##	.SZ_25_quantisd	0.185	0.006	30.863	0.000	0.185	0.753
##	.SZ_26_quantisd	0.213	0.005	39.408	0.000	0.213	1.000
##	.SZ_27_quantisd	0.209	0.006	36.929	0.000	0.209	0.997
##	.SZ_28_quantisd	0.237	0.003	69.267	0.000	0.237	1.000
##	.SZ_29_quantisd	0.208	0.006	37.531	0.000	0.208	0.856
##	.SZ_3_quantised	0.137	0.006	23.078	0.000	0.137	0.696
##	.SZ_30_quantisd	0.242	0.003	90.762	0.000	0.242	0.993
##	.SZ_31_quantisd	0.203	0.006	33.930	0.000	0.203	0.998
##	.SZ_32_quantisd	0.198	0.006	33.809	0.000	0.198	0.806
##	.SZ_33_quantisd	0.210	0.005	41.330	0.000	0.210	0.911
##	.SZ_34_quantisd	0.208	0.006	36.566	0.000	0.208	0.999
##	.SZ_35_quantisd	0.121	0.005	22.434	0.000	0.121	0.666
##	.SZ_36_quantisd	0.185	0.006	30.675	0.000	0.185	0.746
##	.SZ_37_quantisd	0.209	0.006	37.379	0.000	0.209	0.987
##	.SZ_38_quantisd	0.136	0.006	24.199	0.000	0.136	0.638
##	.SZ_39_quantisd	0.208	0.006	36.231	0.000	0.208	1.000
##	.SZ_4_quantised	0.149	0.006	24.996	0.000	0.149	0.694
##	.SZ_40_quantisd	0.196	0.006	33.688	0.000	0.196	0.803
##	.SZ_41_quantisd	0.178	0.006	29.264	0.000	0.178	0.725
##	.SZ_42_quantisd	0.161	0.006	25.971	0.000	0.161	0.649
##	.SZ_5_quantised	0.132	0.006	22.958	0.000	0.132	0.654
##	.SZ_6_quantised	0.132	0.005	24.152	0.000	0.132	0.628
##	.SZ_7_quantised	0.175	0.006	28.486	0.000	0.175	0.715
##	.SZ_8_quantised	0.141	0.006	23.539	0.000	0.141	0.682
##	.SZ_9_quantised	0.161	0.006	27.201	0.000	0.161	0.678
##	.STAI2_Clm_qnts	0.575	0.049	11.849	0.000	0.575	0.688
##	.STAI2_Cntnt_qn	0.610	0.048	12.680	0.000	0.610	0.735

##	.STAI2_Dscns_qn	0.647	0.042	15.570	0.000	0.647	0.785
##	.STAI2_Dffclts_	0.442	0.030	14.574	0.000	0.442	0.474
##	.STAI2_DsppntS_	0.504	0.037	13.496	0.000	0.504	0.567
##	.STAI2_Flr_qnts	0.407	0.024	16.672	0.000	0.407	0.432
##	.STAI2_Hppy_qnt	0.600	0.051	11.827	0.000	0.600	0.708
##	.STAI2_Hppy0th_	0.662	0.039	17.154	0.000	0.662	0.671
##	.STAI2_Indqt_qn	0.431	0.033	12.991	0.000	0.431	0.452
##	.STAI2_Nrvs_qnt	0.413	0.028	14.854	0.000	0.413	0.466
##	.STAI2_Plsnt_qn	0.508	0.045	11.179	0.000	0.508	0.693
##	.STAI2_Rstd_qnt	0.669	0.040	16.576	0.000	0.669	0.845
##	.STAI2_Stsfds1_	0.655	0.057	11.513	0.000	0.655	0.695
##	.STAI2_Scr_qnts	0.637	0.054	11.819	0.000	0.637	0.701
##	.STAI2_SlfCnfd_	0.666	0.040	16.497	0.000	0.666	0.629
##	.STAI2_Stdy_qnt	0.492	0.046	10.686	0.000	0.492	0.620
##	.STAI2_Tnsn_qnt	0.479	0.042	11.500	0.000	0.479	0.514
##	.STAI2_Thghts_q	0.506	0.036	13.989	0.000	0.506	0.612
##	.STAI2_UnmprtT_	0.513	0.037	13.674	0.000	0.513	0.565
##	.STAI2_Wrry_qnt	0.535	0.036	14.684	0.000	0.535	0.558
##	.propmedhigh	0.041	0.002	24.691	0.000	0.041	0.942
##	spreadsheet	9.001	0.006	1466.851	0.000	9.001	1.000
##	Ravens	8.599	0.321	26.798	0.000	8.599	1.000
##	Age	104.501	5.876	17.784	0.000	104.501	1.000
##	GenderMF	0.242	0.003	87.697	0.000	0.242	1.000
##	BDI	0.335	0.029	11.585	0.000	1.000	1.000
##	OCD	1.258	0.057	21.938	0.000	1.000	1.000
##	SZ	0.092	0.006	14.750	0.000	1.000	1.000
##	STAI	0.261	0.053	4.892	0.000	1.000	1.000
##							
##	R-Square:						
##		Estimate					
##	BDI_Apptt_qnts	0.417					
##	BDI_Attrctv_qn	0.424					
##	BDI_Blam_qntsd	0.573					
##	BDI_Cry_qntsd	0.435					
##	BDI_Dcsns_qnts	0.522					
##	BDI_Dsppntmnt_	0.546					
##	BDI_Falr_qntsd	0.531					
##	BDI_Futr_qntsd	0.539					
##	BDI_Glty_qntsd	0.476					
##	BDI_Hlth_qntsd	0.338					
##	BDI_Intrs_I_P_	0.473					
##	BDI_Irrtttd_qnt	0.496					
##	BDI_Libd_qntsd	0.332					
##	BDI_Pnshd_qnts	0.441					
##	BDI_Sad_qntsd	0.514					
##	BDI_Stsfctn_qn	0.465					
##	BDI_Slep_qntsd	0.338					
##	BDI_Tird_qntsd	0.435					
##	BDI_wght_qntsd	0.208					
##	BDI_Work_qntsd	0.518					
##	OCIR_14_qntsd	0.686					
##	OCIR_15_qntsd	0.516					
##	OCIR_16_qntsd	0.627					
##	OCIR_17_qntsd	0.709					

##	OCIR_18_quntsd	0.668
##	OCIR_2_quantsd	0.503
##	OCIR_3_quantsd	0.515
##	OCIR_4_quantsd	0.653
##	OCIR_5_quantsd	0.593
##	OCIR_6_quantsd	0.535
##	OCIR_7_quantsd	0.518
##	OCIR_8_quantsd	0.668
##	OCIR_9_quantsd	0.522
##	OCIR_1_quantsd	0.532
##	OCIR_10_quntsd	0.721
##	OCIR_11_quntsd	0.694
##	OCIR_12_quntsd	0.590
##	OCIR_13_quntsd	0.470
##	SZ_1_quantised	0.387
##	SZ_10_quantisd	0.363
##	SZ_11_quantisd	0.253
##	SZ_12_quantisd	0.249
##	SZ_13_quantisd	0.306
##	SZ_14_quantisd	0.265
##	SZ_15_quantisd	0.310
##	SZ_16_quantisd	0.191
##	SZ_17_quantisd	0.266
##	SZ_18_quantisd	0.357
##	SZ_19_quantisd	0.261
##	SZ_2_quantised	0.345
##	SZ_20_quantisd	0.398
##	SZ_21_quantisd	0.298
##	SZ_22_quantisd	0.279
##	SZ_23_quantisd	0.304
##	SZ_24_quantisd	0.293
##	SZ_25_quantisd	0.247
##	SZ_26_quantisd	0.000
##	SZ_27_quantisd	0.003
##	SZ_28_quantisd	0.000
##	SZ_29_quantisd	0.144
##	SZ_3_quantised	0.304
##	SZ_30_quantisd	0.007
##	SZ_31_quantisd	0.002
##	SZ_32_quantisd	0.194
##	SZ_33_quantisd	0.089
##	SZ_34_quantisd	0.001
##	SZ_35_quantisd	0.334
##	SZ_36_quantisd	0.254
##	SZ_37_quantisd	0.013
##	SZ_38_quantisd	0.362
##	SZ_39_quantisd	0.000
##	SZ_4_quantised	0.306
##	SZ_40_quantisd	0.197
##	SZ_41_quantisd	0.275
##	SZ_42_quantisd	0.351
##	SZ_5_quantised	0.346
##	SZ_6_quantised	0.372
##	SZ_7_quantised	0.285


```
##      SZ_8_quantised      0.318
##      SZ_9_quantised      0.322
##      STAI2_Clm_qnts      0.312
##      STAI2_Cntnt_qn      0.265
##      STAI2_Dscns_qn      0.215
##      STAI2_Dffclts_      0.526
##      STAI2_DsppntS_      0.433
##      STAI2_Flr_qnts      0.568
##      STAI2_Hppy_qnt      0.292
##      STAI2_Hppy0th_      0.329
##      STAI2_Indqt_qn      0.548
##      STAI2_Nrvs_qnt      0.534
##      STAI2_Plsnt_qn      0.307
##      STAI2_Rstd_qnt      0.155
##      STAI2_Stsfds1_      0.305
##      STAI2_Scr_qnts      0.299
##      STAI2_SlfCnfd_      0.371
##      STAI2_Stdy_qnt      0.380
##      STAI2_Tnsn_qnt      0.486
##      STAI2_Thghts_q      0.388
##      STAI2_UnmprtT_      0.435
##      STAI2_Wrry_qnt      0.442
##      propmedhigh      0.058
```

```
summary(FitQuaireSEMdriftmiss, standardized=TRUE, rsquare=T, fit.measures=F) #estimate missing
```

```
## lavaan 0.6-3 ended normally after 346 iterations
```

```
##
##      Optimization method      NLMINB
##      Number of free parameters      346
##
##      Number of observations      1066
##      Number of missing patterns      3
##
##      Estimator      ML      Robust
##      Model Fit Test Statistic      20575.677      18049.313
##      Degrees of freedom      5324      5324
##      P-value (Chi-square)      0.000      0.000
##      Scaling correction factor      1.140
##      for the Yuan-Bentler correction (Mplus variant)
```

```
## Parameter Estimates:
```

```
##
##      Information      Observed
##      Observed information based on      Hessian
##      Standard Errors      Robust.huber.white
##
```

```
## Latent Variables:
```

```
##      Estimate Std.Err z-value P(>|z|) Std.lv Std.all
##      BDI =~
##      BDI_Apptt_qnts      1.000      0.579      0.645
##      BDI_Attrctv_qn      1.059      0.056      19.028      0.000      0.613      0.651
##      BDI_Blam_qntsd      1.144      0.056      20.517      0.000      0.662      0.757
##      BDI_Cry_qntsd      1.001      0.049      20.346      0.000      0.580      0.660
```

##	BDI_Dcsns_qnts	1.106	0.054	20.485	0.000	0.640	0.723
##	BDI_Dspntmnt_	1.117	0.060	18.655	0.000	0.646	0.739
##	BDI_Falr_qntsd	1.152	0.060	19.171	0.000	0.667	0.729
##	BDI_Futr_qntsd	1.127	0.058	19.579	0.000	0.652	0.734
##	BDI_Glty_qntsd	1.015	0.052	19.545	0.000	0.588	0.690
##	BDI_Hlth_qntsd	0.776	0.044	17.580	0.000	0.449	0.581
##	BDI_Intrs_I_P_	1.070	0.054	19.645	0.000	0.620	0.688
##	BDI_Irrtttd_qnt	1.076	0.051	21.101	0.000	0.623	0.705
##	BDI_Libd_qntsd	0.886	0.048	18.483	0.000	0.513	0.576
##	BDI_Pnshd_qnts	1.058	0.053	19.814	0.000	0.613	0.664
##	BDI_Sad_qntsd	0.963	0.048	20.019	0.000	0.558	0.717
##	BDI_Stsfctn_qn	1.096	0.058	18.877	0.000	0.634	0.682
##	BDI_Slep_qntsd	0.899	0.049	18.300	0.000	0.521	0.581
##	BDI_Tird_qntsd	0.974	0.051	18.933	0.000	0.564	0.660
##	BDI_wght_qntsd	0.563	0.042	13.539	0.000	0.326	0.456
##	BDI_Work_qntsd	1.066	0.052	20.615	0.000	0.617	0.720
##	OCD =~						
##	OCIR_14_qntsd	1.000				1.121	0.828
##	OCIR_15_qntsd	0.841	0.027	30.771	0.000	0.943	0.719
##	OCIR_16_qntsd	0.927	0.027	34.648	0.000	1.039	0.792
##	OCIR_17_qntsd	1.007	0.026	38.524	0.000	1.130	0.842
##	OCIR_18_qntsd	0.973	0.026	36.849	0.000	1.092	0.817
##	OCIR_2_quantisd	0.821	0.026	31.544	0.000	0.921	0.709
##	OCIR_3_quantisd	0.808	0.027	30.103	0.000	0.906	0.718
##	OCIR_4_quantisd	0.932	0.025	37.186	0.000	1.045	0.808
##	OCIR_5_quantisd	0.887	0.028	31.257	0.000	0.995	0.770
##	OCIR_6_quantisd	0.836	0.029	29.023	0.000	0.938	0.732
##	OCIR_7_quantisd	0.794	0.027	28.915	0.000	0.891	0.720
##	OCIR_8_quantisd	0.978	0.023	42.488	0.000	1.096	0.817
##	OCIR_9_quantisd	0.822	0.027	30.756	0.000	0.922	0.723
##	OCIR_1_quantisd	0.835	0.026	32.415	0.000	0.937	0.729
##	OCIR_10_quantisd	0.978	0.024	40.871	0.000	1.097	0.849
##	OCIR_11_quantisd	0.975	0.026	37.624	0.000	1.094	0.833
##	OCIR_12_quantisd	0.892	0.028	31.318	0.000	1.000	0.768
##	OCIR_13_quantisd	0.776	0.027	28.705	0.000	0.870	0.686
##	SZ =~						
##	SZ_1_quantised	1.000				0.304	0.622
##	SZ_10_quantisd	0.844	0.041	20.758	0.000	0.256	0.603
##	SZ_11_quantisd	0.819	0.042	19.494	0.000	0.249	0.503
##	SZ_12_quantisd	0.786	0.043	18.355	0.000	0.239	0.499
##	SZ_13_quantisd	0.902	0.046	19.612	0.000	0.274	0.554
##	SZ_14_quantisd	0.846	0.051	16.735	0.000	0.257	0.515
##	SZ_15_quantisd	0.914	0.049	18.724	0.000	0.278	0.557
##	SZ_16_quantisd	0.720	0.049	14.805	0.000	0.219	0.437
##	SZ_17_quantisd	0.842	0.046	18.228	0.000	0.256	0.515
##	SZ_18_quantisd	0.973	0.047	20.785	0.000	0.296	0.598
##	SZ_19_quantisd	0.836	0.047	17.958	0.000	0.254	0.511
##	SZ_2_quantised	0.943	0.042	22.513	0.000	0.287	0.587
##	SZ_20_quantisd	0.948	0.042	22.494	0.000	0.288	0.631
##	SZ_21_quantisd	0.891	0.048	18.696	0.000	0.271	0.546
##	SZ_22_quantisd	0.864	0.049	17.689	0.000	0.263	0.528
##	SZ_23_quantisd	0.891	0.047	19.123	0.000	0.271	0.551
##	SZ_24_quantisd	0.877	0.045	19.674	0.000	0.267	0.541
##	SZ_25_quantisd	0.810	0.044	18.418	0.000	0.246	0.497

```

##      SZ_26_quantisd    0.011    0.046    0.246    0.806    0.003    0.007
##      SZ_27_quantisd    0.081    0.046    1.773    0.076    0.025    0.054
##      SZ_28_quantisd   -0.025    0.052   -0.478    0.633   -0.008   -0.016
##      SZ_29_quantisd    0.615    0.047   13.178    0.000    0.187    0.380
##      SZ_3_quantised    0.804    0.041   19.438    0.000    0.244    0.551
##      SZ_30_quantisd    0.133    0.053    2.538    0.011    0.041    0.082
##      SZ_31_quantisd    0.060    0.044    1.372    0.170    0.018    0.040
##      SZ_32_quantisd    0.718    0.047   15.188    0.000    0.218    0.441
##      SZ_33_quantisd    0.470    0.048    9.862    0.000    0.143    0.298
##      SZ_34_quantisd   -0.043    0.045   -0.960    0.337   -0.013   -0.029
##      SZ_35_quantisd    0.809    0.041   19.975    0.000    0.246    0.578
##      SZ_36_quantisd    0.826    0.045   18.307    0.000    0.251    0.504
##      SZ_37_quantisd   -0.174    0.048   -3.594    0.000   -0.053   -0.115
##      SZ_38_quantisd    0.914    0.041   22.279    0.000    0.278    0.602
##      SZ_39_quantisd    0.012    0.046    0.264    0.792    0.004    0.008
##      SZ_4_quantised    0.844    0.039   21.454    0.000    0.257    0.553
##      SZ_40_quantisd    0.723    0.046   15.558    0.000    0.220    0.444
##      SZ_41_quantisd    0.855    0.044   19.486    0.000    0.260    0.524
##      SZ_42_quantisd    0.970    0.043   22.456    0.000    0.295    0.592
##      SZ_5_quantised    0.869    0.042   20.791    0.000    0.264    0.588
##      SZ_6_quantised    0.918    0.042   21.753    0.000    0.279    0.610
##      SZ_7_quantised    0.869    0.043   20.405    0.000    0.264    0.533
##      SZ_8_quantised    0.843    0.040   21.082    0.000    0.256    0.564
##      SZ_9_quantised    0.908    0.043   20.957    0.000    0.276    0.567
##      STAI =~
##      STAI2_Clm_qnts     1.000                0.511    0.559
##      STAI2_Cntnt_qn     0.918    0.042   21.710    0.000    0.469    0.515
##      STAI2_Dscns_qn     0.823    0.046   18.093    0.000    0.421    0.463
##      STAI2_Dffclts_    -1.373    0.169   -8.116    0.000   -0.701   -0.725
##      STAI2_DsppntS_    -1.214    0.169   -7.194    0.000   -0.620   -0.658
##      STAI2_Flr_qnts    -1.432    0.163   -8.776    0.000   -0.732   -0.754
##      STAI2_Hppy_qnt     0.975    0.044   22.103    0.000    0.498    0.541
##      STAI2_Hppy0th_    -1.116    0.150   -7.442    0.000   -0.570   -0.574
##      STAI2_Indqt_qn    -1.414    0.170   -8.305    0.000   -0.722   -0.740
##      STAI2_Nrvs_qnt    -1.348    0.167   -8.080    0.000   -0.688   -0.731
##      STAI2_Plsnt_qn     0.930    0.039   23.839    0.000    0.475    0.554
##      STAI2_Rstd_qnt     0.685    0.051   13.382    0.000    0.350    0.393
##      STAI2_StsfdSl_     1.051    0.044   23.856    0.000    0.537    0.553
##      STAI2_Scr_qnts     1.020    0.045   22.731    0.000    0.521    0.547
##      STAI2_SlfCnfd_    -1.227    0.159   -7.726    0.000   -0.627   -0.609
##      STAI2_Stdy_qnt     1.074    0.044   24.234    0.000    0.549    0.616
##      STAI2_Tnsn_qnt    -1.318    0.188   -7.015    0.000   -0.673   -0.697
##      STAI2_Thghts_q    -1.109    0.170   -6.530    0.000   -0.566   -0.623
##      STAI2_UnmprtT_    -1.229    0.177   -6.939    0.000   -0.628   -0.659
##      STAI2_Wrry_qnt    -1.273    0.172   -7.403    0.000   -0.650   -0.665
##
## Regressions:
##      Estimate Std.Err z-value P(>|z|) Std.lv Std.all
##      driftrate ~
##      spreadsheet      0.000    0.000    2.792    0.005    0.000    0.087
##      Ravens           0.001    0.000    4.301    0.000    0.001    0.145
##      Age              -0.000    0.000   -3.491    0.000   -0.000   -0.109
##      GenderMF         -0.000    0.001   -0.441    0.659   -0.000   -0.014
##      BDI              -0.004    0.001   -2.661    0.008   -0.002   -0.175

```

##	OCD	0.000	0.001	0.029	0.977	0.000	0.002
##	SZ	0.001	0.002	0.608	0.543	0.000	0.036
##	STAI	-0.002	0.002	-1.223	0.222	-0.001	-0.080
##							
##	Covariances:						
##		Estimate	Std.Err	z-value	P(> z)	Std.lv	Std.all
##	spreadsheet ~~						
##	Ravens	-0.421	0.277	-1.519	0.129	-0.421	-0.048
##	Age	1.350	0.973	1.388	0.165	1.350	0.044
##	GenderMF	0.060	0.047	1.282	0.200	0.060	0.041
##	BDI ~~						
##	spreadsheet	-0.003	0.056	-0.062	0.951	-0.006	-0.002
##	OCD ~~						
##	spreadsheet	0.143	0.109	1.303	0.193	0.127	0.042
##	SZ ~~						
##	spreadsheet	-0.027	0.030	-0.891	0.373	-0.088	-0.029
##	STAI ~~						
##	spreadsheet	-0.011	0.050	-0.226	0.821	-0.022	-0.007
##	Ravens ~~						
##	Age	2.429	0.950	2.557	0.011	2.429	0.081
##	GenderMF	-0.057	0.044	-1.305	0.192	-0.057	-0.040
##	BDI ~~						
##	Ravens	-0.310	0.056	-5.568	0.000	-0.535	-0.182
##	OCD ~~						
##	Ravens	-1.128	0.097	-11.679	0.000	-1.006	-0.343
##	SZ ~~						
##	Ravens	0.213	0.029	7.458	0.000	0.701	0.239
##	STAI ~~						
##	Ravens	0.217	0.047	4.614	0.000	0.424	0.145
##	Age ~~						
##	GenderMF	-0.007	0.154	-0.043	0.965	-0.007	-0.001
##	BDI ~~						
##	Age	-1.253	0.192	-6.545	0.000	-2.165	-0.212
##	OCD ~~						
##	Age	-3.697	0.335	-11.051	0.000	-3.297	-0.323
##	SZ ~~						
##	Age	0.798	0.103	7.760	0.000	2.626	0.257
##	STAI ~~						
##	Age	1.261	0.191	6.601	0.000	2.469	0.241
##	BDI ~~						
##	GenderMF	0.013	0.009	1.482	0.138	0.023	0.047
##	OCD ~~						
##	GenderMF	0.047	0.017	2.752	0.006	0.042	0.085
##	SZ ~~						
##	GenderMF	-0.008	0.005	-1.644	0.100	-0.026	-0.052
##	STAI ~~						
##	GenderMF	-0.011	0.008	-1.393	0.163	-0.022	-0.045
##	BDI ~~						
##	OCD	0.338	0.026	13.061	0.000	0.521	0.521
##	SZ	-0.113	0.008	-14.607	0.000	-0.641	-0.641
##	STAI	-0.243	0.026	-9.208	0.000	-0.823	-0.823
##	OCD ~~						
##	SZ	-0.251	0.014	-18.039	0.000	-0.736	-0.736
##	STAI	-0.289	0.019	-15.517	0.000	-0.504	-0.504

```

## SZ ~~
## STAI          0.100    0.008   13.251    0.000    0.642    0.642
##
## Intercepts:
##           Estimate Std.Err z-value P(>|z|) Std.lv Std.all
## .BDI_Apptt_qnts    1.670   0.027   60.776   0.000    1.670    1.861
## .BDI_Attrctv_qn    1.852   0.029   64.228   0.000    1.852    1.967
## .BDI_Blam_qntsd    1.886   0.027   70.431   0.000    1.886    2.157
## .BDI_Cry_qntsd     1.615   0.027   60.050   0.000    1.615    1.839
## .BDI_Dcsns_qnts    1.734   0.027   63.902   0.000    1.734    1.957
## .BDI_Dsppntmnt_    1.840   0.027   68.667   0.000    1.840    2.103
## .BDI_Falr_qntsd    1.841   0.028   65.660   0.000    1.841    2.011
## .BDI_Futr_qntsd    1.862   0.027   68.459   0.000    1.862    2.097
## .BDI_Glty_qntsd    1.659   0.026   63.611   0.000    1.659    1.948
## .BDI_Hlth_qntsd    1.697   0.024   71.668   0.000    1.697    2.195
## .BDI_Intrs_I_P_    1.879   0.028   68.089   0.000    1.879    2.085
## .BDI_Irrtttd_qnt   1.873   0.027   69.155   0.000    1.873    2.118
## .BDI_Libd_qntsd    1.710   0.027   62.771   0.000    1.710    1.923
## .BDI_Pnshd_qnts    1.659   0.028   58.726   0.000    1.659    1.799
## .BDI_Sad_qntsd     1.691   0.024   70.968   0.000    1.691    2.174
## .BDI_Stsfctn_qn    1.843   0.028   64.684   0.000    1.843    1.981
## .BDI_Slep_qntsd    1.839   0.027   66.982   0.000    1.839    2.052
## .BDI_Tird_qntsd    1.914   0.026   73.135   0.000    1.914    2.240
## .BDI_wght_qntsd    1.378   0.022   62.945   0.000    1.378    1.928
## .BDI_Work_qntsd    1.792   0.026   68.224   0.000    1.792    2.090
## .OCIR_14_qntsd     2.213   0.041   53.357   0.000    2.213    1.634
## .OCIR_15_qntsd     2.439   0.040   60.670   0.000    2.439    1.858
## .OCIR_16_qntsd     2.144   0.040   53.341   0.000    2.144    1.634
## .OCIR_17_qntsd     2.189   0.041   53.284   0.000    2.189    1.632
## .OCIR_18_qntsd     2.265   0.041   55.361   0.000    2.265    1.696
## .OCIR_2_quantstd    2.670   0.040   67.123   0.000    2.670    2.056
## .OCIR_3_quantstd    2.491   0.039   64.424   0.000    2.491    1.973
## .OCIR_4_quantstd    2.244   0.040   56.623   0.000    2.244    1.734
## .OCIR_5_quantstd    2.165   0.040   54.721   0.000    2.165    1.676
## .OCIR_6_quantstd    2.403   0.039   61.199   0.000    2.403    1.874
## .OCIR_7_quantstd    2.212   0.038   58.368   0.000    2.212    1.788
## .OCIR_8_quantstd    2.294   0.041   55.813   0.000    2.294    1.709
## .OCIR_9_quantstd    2.557   0.039   65.483   0.000    2.557    2.006
## .OCIR_1_quantstd    2.417   0.039   61.454   0.000    2.417    1.882
## .OCIR_10_quantstd   2.018   0.040   51.003   0.000    2.018    1.562
## .OCIR_11_quantstd   2.222   0.040   55.253   0.000    2.222    1.692
## .OCIR_12_quantstd   2.347   0.040   58.849   0.000    2.347    1.802
## .OCIR_13_quantstd   2.459   0.039   63.259   0.000    2.459    1.937
## .SZ_1_quantised     1.606   0.015  107.310   0.000    1.606    3.287
## .SZ_10_quantisd     1.763   0.013  135.269   0.000    1.763    4.143
## .SZ_11_quantisd     1.573   0.015  103.845   0.000    1.573    3.181
## .SZ_12_quantisd     1.644   0.015  112.036   0.000    1.644    3.431
## .SZ_13_quantisd     1.569   0.015  103.484   0.000    1.569    3.170
## .SZ_14_quantisd     1.521   0.015   99.381   0.000    1.521    3.044
## .SZ_15_quantisd     1.537   0.015  100.608   0.000    1.537    3.081
## .SZ_16_quantisd     1.506   0.015   98.323   0.000    1.506    3.011
## .SZ_17_quantisd     1.559   0.015  102.527   0.000    1.559    3.140
## .SZ_18_quantisd     1.572   0.015  103.754   0.000    1.572    3.178
## .SZ_19_quantisd     1.553   0.015  101.944   0.000    1.553    3.122

```

##	.SZ_2_quantised	1.608	0.015	107.526	0.000	1.608	3.293
##	.SZ_20_quantisd	1.704	0.014	121.792	0.000	1.704	3.730
##	.SZ_21_quantisd	1.566	0.015	103.130	0.000	1.566	3.159
##	.SZ_22_quantisd	1.553	0.015	101.944	0.000	1.553	3.122
##	.SZ_23_quantisd	1.592	0.015	105.755	0.000	1.592	3.239
##	.SZ_24_quantisd	1.585	0.015	105.066	0.000	1.585	3.218
##	.SZ_25_quantisd	1.568	0.015	103.306	0.000	1.568	3.164
##	.SZ_26_quantisd	1.309	0.014	92.496	0.000	1.309	2.833
##	.SZ_27_quantisd	1.298	0.014	92.651	0.000	1.298	2.838
##	.SZ_28_quantisd	1.386	0.015	92.943	0.000	1.386	2.847
##	.SZ_29_quantisd	1.586	0.015	105.163	0.000	1.586	3.221
##	.SZ_3_quantised	1.732	0.014	127.608	0.000	1.732	3.908
##	.SZ_30_quantisd	1.421	0.015	93.978	0.000	1.421	2.878
##	.SZ_31_quantisd	1.283	0.014	92.985	0.000	1.283	2.848
##	.SZ_32_quantisd	1.569	0.015	103.484	0.000	1.569	3.170
##	.SZ_33_quantisd	1.360	0.015	92.510	0.000	1.360	2.833
##	.SZ_34_quantisd	1.296	0.014	92.685	0.000	1.296	2.839
##	.SZ_35_quantisd	1.763	0.013	135.269	0.000	1.763	4.143
##	.SZ_36_quantisd	1.546	0.015	101.380	0.000	1.546	3.105
##	.SZ_37_quantisd	1.304	0.014	92.559	0.000	1.304	2.835
##	.SZ_38_quantisd	1.692	0.014	119.715	0.000	1.692	3.667
##	.SZ_39_quantisd	1.295	0.014	92.722	0.000	1.295	2.840
##	.SZ_4_quantised	1.687	0.014	118.724	0.000	1.687	3.636
##	.SZ_40_quantisd	1.573	0.015	103.845	0.000	1.573	3.181
##	.SZ_41_quantisd	1.567	0.015	103.218	0.000	1.567	3.161
##	.SZ_42_quantisd	1.547	0.015	101.459	0.000	1.547	3.107
##	.SZ_5_quantised	1.720	0.014	125.167	0.000	1.720	3.834
##	.SZ_6_quantised	1.702	0.014	121.437	0.000	1.702	3.719
##	.SZ_7_quantised	1.569	0.015	103.484	0.000	1.569	3.170
##	.SZ_8_quantised	1.709	0.014	122.881	0.000	1.709	3.764
##	.SZ_9_quantised	1.614	0.015	108.297	0.000	1.614	3.317
##	.STAI2_Clm_qnts	2.706	0.028	96.646	0.000	2.706	2.960
##	.STAI2_Cntnt_qn	2.699	0.028	96.745	0.000	2.699	2.963
##	.STAI2_Dscns_qn	2.658	0.028	95.608	0.000	2.658	2.928
##	.STAI2_Dffclts_	2.218	0.030	74.925	0.000	2.218	2.295
##	.STAI2_DsppntS_	2.210	0.029	76.563	0.000	2.210	2.345
##	.STAI2_Flr_qnts	2.043	0.030	68.737	0.000	2.043	2.105
##	.STAI2_Hppy_qnt	2.734	0.028	96.900	0.000	2.734	2.968
##	.STAI2_Hppy0th_	2.501	0.030	82.177	0.000	2.501	2.517
##	.STAI2_Indqt_qn	2.177	0.030	72.835	0.000	2.177	2.231
##	.STAI2_Nrvs_qnt	2.232	0.029	77.358	0.000	2.232	2.369
##	.STAI2_Plsnt_qn	2.734	0.026	104.182	0.000	2.734	3.191
##	.STAI2_Rstd_qnt	2.481	0.027	91.038	0.000	2.481	2.788
##	.STAI2_StsfdSl_	2.625	0.030	88.220	0.000	2.625	2.702
##	.STAI2_Scr_qnts	2.712	0.029	92.892	0.000	2.712	2.845
##	.STAI2_SlfCnfd_	2.405	0.032	76.311	0.000	2.405	2.337
##	.STAI2_Stdy_qnt	2.768	0.027	101.471	0.000	2.768	3.108
##	.STAI2_Tnsn_qnt	2.238	0.030	75.699	0.000	2.238	2.319
##	.STAI2_Thghts_q	1.982	0.028	71.203	0.000	1.982	2.181
##	.STAI2_UnmprtT_	2.217	0.029	75.991	0.000	2.217	2.327
##	.STAI2_Wrry_qnt	2.280	0.030	76.075	0.000	2.280	2.330
##	.driftrate	0.005	0.002	3.327	0.001	0.005	0.431
##	spreadsheet	3.976	0.095	41.773	0.000	3.976	1.325
##	Ravens	4.392	0.090	48.903	0.000	4.392	1.498

##	Age	34.219	0.313	109.293	0.000	34.219	3.347
##	GenderMF	0.591	0.015	39.181	0.000	0.591	1.203
##	BDI	0.000				0.000	0.000
##	OCD	0.000				0.000	0.000
##	SZ	0.000				0.000	0.000
##	STAI	0.000				0.000	0.000
##							
##	Variances:						
##		Estimate	Std.Err	z-value	P(> z)	Std.lv	Std.all
##	.BDI_Apptt_qnts	0.469	0.027	17.502	0.000	0.469	0.583
##	.BDI_Attrctv_qn	0.510	0.026	19.458	0.000	0.510	0.576
##	.BDI_Blam_qntsd	0.326	0.018	17.866	0.000	0.326	0.427
##	.BDI_Cry_qntsd	0.436	0.028	15.727	0.000	0.436	0.565
##	.BDI_Dcsns_qnts	0.375	0.022	17.388	0.000	0.375	0.478
##	.BDI_Dsppntmnt_	0.347	0.020	17.048	0.000	0.347	0.454
##	.BDI_Falr_qntsd	0.393	0.022	17.927	0.000	0.393	0.469
##	.BDI_Futr_qntsd	0.363	0.021	17.391	0.000	0.363	0.461
##	.BDI_Glty_qntsd	0.380	0.022	17.148	0.000	0.380	0.524
##	.BDI_Hlth_qntsd	0.396	0.021	18.902	0.000	0.396	0.662
##	.BDI_Intrs_I_P_	0.428	0.023	18.602	0.000	0.428	0.527
##	.BDI_Irrtttd_qnt	0.394	0.021	19.127	0.000	0.394	0.504
##	.BDI_Libd_qntsd	0.528	0.030	17.886	0.000	0.528	0.668
##	.BDI_Pnshd_qnts	0.476	0.029	16.388	0.000	0.476	0.559
##	.BDI_Sad_qntsd	0.294	0.019	15.217	0.000	0.294	0.486
##	.BDI_Stsfctn_qn	0.463	0.026	17.833	0.000	0.463	0.535
##	.BDI_Slep_qntsd	0.532	0.027	20.054	0.000	0.532	0.662
##	.BDI_Tird_qntsd	0.412	0.021	19.566	0.000	0.412	0.565
##	.BDI_wght_qntsd	0.404	0.028	14.330	0.000	0.404	0.792
##	.BDI_Work_qntsd	0.354	0.019	18.601	0.000	0.354	0.482
##	.OCIR_14_qntsd	0.576	0.037	15.698	0.000	0.576	0.314
##	.OCIR_15_qntsd	0.833	0.047	17.667	0.000	0.833	0.484
##	.OCIR_16_qntsd	0.641	0.040	15.977	0.000	0.641	0.373
##	.OCIR_17_qntsd	0.523	0.034	15.440	0.000	0.523	0.291
##	.OCIR_18_qntsd	0.592	0.040	14.858	0.000	0.592	0.332
##	.OCIR_2_quantstd	0.839	0.039	21.339	0.000	0.839	0.497
##	.OCIR_3_quantstd	0.772	0.042	18.274	0.000	0.772	0.485
##	.OCIR_4_quantstd	0.582	0.034	17.207	0.000	0.582	0.347
##	.OCIR_5_quantstd	0.679	0.042	16.040	0.000	0.679	0.407
##	.OCIR_6_quantstd	0.764	0.041	18.730	0.000	0.764	0.465
##	.OCIR_7_quantstd	0.738	0.040	18.598	0.000	0.738	0.482
##	.OCIR_8_quantstd	0.599	0.038	15.953	0.000	0.599	0.332
##	.OCIR_9_quantstd	0.776	0.041	18.919	0.000	0.776	0.478
##	.OCIR_1_quantstd	0.771	0.041	18.639	0.000	0.771	0.468
##	.OCIR_10_quantstd	0.465	0.028	16.496	0.000	0.465	0.279
##	.OCIR_11_quantstd	0.528	0.031	16.928	0.000	0.528	0.306
##	.OCIR_12_quantstd	0.695	0.040	17.275	0.000	0.695	0.410
##	.OCIR_13_quantstd	0.853	0.043	19.626	0.000	0.853	0.530
##	.SZ_1_quantised	0.146	0.006	23.780	0.000	0.146	0.613
##	.SZ_10_quantisd	0.115	0.005	22.843	0.000	0.115	0.637
##	.SZ_11_quantisd	0.183	0.006	30.650	0.000	0.183	0.747
##	.SZ_12_quantisd	0.172	0.006	28.306	0.000	0.172	0.751
##	.SZ_13_quantisd	0.170	0.006	27.946	0.000	0.170	0.694
##	.SZ_14_quantisd	0.183	0.006	28.968	0.000	0.183	0.735
##	.SZ_15_quantisd	0.172	0.006	27.702	0.000	0.172	0.690

##	.SZ_16_quantisd	0.202	0.006	35.661	0.000	0.202	0.809
##	.SZ_17_quantisd	0.181	0.006	29.882	0.000	0.181	0.734
##	.SZ_18_quantisd	0.157	0.006	25.687	0.000	0.157	0.643
##	.SZ_19_quantisd	0.183	0.006	30.288	0.000	0.183	0.739
##	.SZ_2_quantised	0.156	0.006	25.490	0.000	0.156	0.655
##	.SZ_20_quantisd	0.126	0.005	23.402	0.000	0.126	0.602
##	.SZ_21_quantisd	0.172	0.006	27.559	0.000	0.172	0.702
##	.SZ_22_quantisd	0.178	0.006	28.255	0.000	0.178	0.721
##	.SZ_23_quantisd	0.168	0.006	27.387	0.000	0.168	0.696
##	.SZ_24_quantisd	0.172	0.006	28.172	0.000	0.172	0.707
##	.SZ_25_quantisd	0.185	0.006	30.861	0.000	0.185	0.753
##	.SZ_26_quantisd	0.213	0.005	39.408	0.000	0.213	1.000
##	.SZ_27_quantisd	0.209	0.006	36.930	0.000	0.209	0.997
##	.SZ_28_quantisd	0.237	0.003	69.267	0.000	0.237	1.000
##	.SZ_29_quantisd	0.208	0.006	37.530	0.000	0.208	0.856
##	.SZ_3_quantised	0.137	0.006	23.079	0.000	0.137	0.696
##	.SZ_30_quantisd	0.242	0.003	90.763	0.000	0.242	0.993
##	.SZ_31_quantisd	0.203	0.006	33.930	0.000	0.203	0.998
##	.SZ_32_quantisd	0.198	0.006	33.809	0.000	0.198	0.806
##	.SZ_33_quantisd	0.210	0.005	41.330	0.000	0.210	0.911
##	.SZ_34_quantisd	0.208	0.006	36.565	0.000	0.208	0.999
##	.SZ_35_quantisd	0.121	0.005	22.435	0.000	0.121	0.666
##	.SZ_36_quantisd	0.185	0.006	30.675	0.000	0.185	0.746
##	.SZ_37_quantisd	0.209	0.006	37.378	0.000	0.209	0.987
##	.SZ_38_quantisd	0.136	0.006	24.199	0.000	0.136	0.638
##	.SZ_39_quantisd	0.208	0.006	36.231	0.000	0.208	1.000
##	.SZ_4_quantised	0.149	0.006	24.995	0.000	0.149	0.694
##	.SZ_40_quantisd	0.196	0.006	33.688	0.000	0.196	0.803
##	.SZ_41_quantisd	0.178	0.006	29.264	0.000	0.178	0.725
##	.SZ_42_quantisd	0.161	0.006	25.969	0.000	0.161	0.649
##	.SZ_5_quantised	0.132	0.006	22.958	0.000	0.132	0.654
##	.SZ_6_quantised	0.132	0.005	24.153	0.000	0.132	0.628
##	.SZ_7_quantised	0.175	0.006	28.483	0.000	0.175	0.715
##	.SZ_8_quantised	0.141	0.006	23.538	0.000	0.141	0.682
##	.SZ_9_quantised	0.161	0.006	27.201	0.000	0.161	0.678
##	.STAI2_Clm_qnts	0.575	0.049	11.853	0.000	0.575	0.688
##	.STAI2_Cntnt_qn	0.610	0.048	12.683	0.000	0.610	0.735
##	.STAI2_Dscns_qn	0.647	0.042	15.572	0.000	0.647	0.785
##	.STAI2_Dffclts_	0.442	0.030	14.574	0.000	0.442	0.474
##	.STAI2_DsppntS_	0.504	0.037	13.498	0.000	0.504	0.567
##	.STAI2_Flr_qnts	0.407	0.024	16.675	0.000	0.407	0.432
##	.STAI2_Hppy_qnt	0.600	0.051	11.830	0.000	0.600	0.708
##	.STAI2_Hppy0th_	0.662	0.039	17.156	0.000	0.662	0.671
##	.STAI2_Indqt_qn	0.431	0.033	12.994	0.000	0.431	0.452
##	.STAI2_Nrvs_qnt	0.413	0.028	14.856	0.000	0.413	0.466
##	.STAI2_Plsnt_qn	0.508	0.045	11.182	0.000	0.508	0.693
##	.STAI2_Rstd_qnt	0.669	0.040	16.579	0.000	0.669	0.845
##	.STAI2_StsfdSl_	0.656	0.057	11.516	0.000	0.656	0.695
##	.STAI2_Scr_qnts	0.637	0.054	11.822	0.000	0.637	0.701
##	.STAI2_SlfCnfd_	0.666	0.040	16.498	0.000	0.666	0.629
##	.STAI2_Stdy_qnt	0.492	0.046	10.689	0.000	0.492	0.620
##	.STAI2_Tnsn_qnt	0.479	0.042	11.501	0.000	0.479	0.514
##	.STAI2_Thghts_q	0.506	0.036	13.992	0.000	0.506	0.612
##	.STAI2_UnmprtT_	0.513	0.037	13.678	0.000	0.513	0.565


```

##      .STAI2_Wrry_qnt      0.535      0.036      14.686      0.000      0.535      0.558
##      .driftrate          0.000      0.000      21.340      0.000      0.000      0.942
##      spreadsheet          9.001      0.006      1466.150      0.000      9.001      1.000
##      Ravens              8.599      0.321      26.798      0.000      8.599      1.000
##      Age                 104.502      5.876      17.784      0.000      104.502      1.000
##      GenderMF            0.242      0.003      87.697      0.000      0.242      1.000
##      BDI                  0.335      0.029      11.585      0.000      1.000      1.000
##      OCD                  1.258      0.057      21.938      0.000      1.000      1.000
##      SZ                   0.092      0.006      14.749      0.000      1.000      1.000
##      STAI                 0.261      0.053      4.893      0.000      1.000      1.000
##
## R-Square:
##      Estimate
##      BDI_Apptt_qnts      0.417
##      BDI_Attrctv_qn      0.424
##      BDI_Blam_qntsd      0.573
##      BDI_Cry_qntsd       0.435
##      BDI_Dcsns_qnts      0.522
##      BDI_Dspntmnt_       0.546
##      BDI_Falr_qntsd      0.531
##      BDI_Futr_qntsd      0.539
##      BDI_Glty_qntsd      0.476
##      BDI_Hlth_qntsd      0.338
##      BDI_Intrs_I_P_      0.473
##      BDI_Irrttt_qnt      0.496
##      BDI_Libd_qntsd      0.332
##      BDI_Pnshd_qnts      0.441
##      BDI_Sad_qntsd       0.514
##      BDI_Stsfctn_qn      0.465
##      BDI_Slep_qntsd      0.338
##      BDI_Tird_qntsd      0.435
##      BDI_wght_qntsd      0.208
##      BDI_Work_qntsd      0.518
##      OCIR_14_qntsd       0.686
##      OCIR_15_qntsd       0.516
##      OCIR_16_qntsd       0.627
##      OCIR_17_qntsd       0.709
##      OCIR_18_qntsd       0.668
##      OCIR_2_quantstd      0.503
##      OCIR_3_quantstd      0.515
##      OCIR_4_quantstd      0.653
##      OCIR_5_quantstd      0.593
##      OCIR_6_quantstd      0.535
##      OCIR_7_quantstd      0.518
##      OCIR_8_quantstd      0.668
##      OCIR_9_quantstd      0.522
##      OCIR_1_quantstd     0.532
##      OCIR_10_quantstd     0.721
##      OCIR_11_quantstd     0.694
##      OCIR_12_quantstd     0.590
##      OCIR_13_quantstd     0.470
##      SZ_1_quantised       0.387
##      SZ_10_quantisd       0.363
##      SZ_11_quantisd       0.253

```

##	SZ_12_quantisd	0.249
##	SZ_13_quantisd	0.306
##	SZ_14_quantisd	0.265
##	SZ_15_quantisd	0.310
##	SZ_16_quantisd	0.191
##	SZ_17_quantisd	0.266
##	SZ_18_quantisd	0.357
##	SZ_19_quantisd	0.261
##	SZ_2_quantised	0.345
##	SZ_20_quantisd	0.398
##	SZ_21_quantisd	0.298
##	SZ_22_quantisd	0.279
##	SZ_23_quantisd	0.304
##	SZ_24_quantisd	0.293
##	SZ_25_quantisd	0.247
##	SZ_26_quantisd	0.000
##	SZ_27_quantisd	0.003
##	SZ_28_quantisd	0.000
##	SZ_29_quantisd	0.144
##	SZ_3_quantised	0.304
##	SZ_30_quantisd	0.007
##	SZ_31_quantisd	0.002
##	SZ_32_quantisd	0.194
##	SZ_33_quantisd	0.089
##	SZ_34_quantisd	0.001
##	SZ_35_quantisd	0.334
##	SZ_36_quantisd	0.254
##	SZ_37_quantisd	0.013
##	SZ_38_quantisd	0.362
##	SZ_39_quantisd	0.000
##	SZ_4_quantised	0.306
##	SZ_40_quantisd	0.197
##	SZ_41_quantisd	0.275
##	SZ_42_quantisd	0.351
##	SZ_5_quantised	0.346
##	SZ_6_quantised	0.372
##	SZ_7_quantised	0.285
##	SZ_8_quantised	0.318
##	SZ_9_quantised	0.322
##	STAI2_Clm_qnts	0.312
##	STAI2_Cntnt_qn	0.265
##	STAI2_Dscns_qn	0.215
##	STAI2_Dffclts_	0.526
##	STAI2_DsppntS_	0.433
##	STAI2_Flr_qnts	0.568
##	STAI2_Hppy_qnt	0.292
##	STAI2_Hppy0th_	0.329
##	STAI2_Indqt_qn	0.548
##	STAI2_Nrvs_qnt	0.534
##	STAI2_Plsnt_qn	0.307
##	STAI2_Rstd_qnt	0.155
##	STAI2_StsfdSl_	0.305
##	STAI2_Scr_qnts	0.299
##	STAI2_SlfCnfd_	0.371

```
##      STAI2_Stdy_qnt      0.380
##      STAI2_Tnsn_qnt      0.486
##      STAI2_Thghts_q      0.388
##      STAI2_UnmprtT_      0.435
##      STAI2_Wrry_qnt      0.442
##      driftrate           0.058
```

```
Fitpmidvars <-data.frame(fitMeasures(FitQuaireSEMpmid, c("bic","aic","rmsea","rmsea.ci.lower", "rmsea.ci.upper"),
names(Fitpmidvars) <- "p(mid as high)"
Fitdriftvars<- data.frame(fitMeasures(FitQuaireSEMdrift, c("bic","aic","rmsea","rmsea.ci.lower", "rmsea.ci.upper"),
names(Fitdriftvars) <- "Drift Rate"
SEMfits <- cbind.data.frame(Fitpmidvars, Fitdriftvars)
rownames(SEMfits) <- c("BIC", "AIC", "RMSEA", "RMSEA CI-", "RMSEA CI+")

kable(t(SEMfits), digits = 3)
```

	BIC	AIC	RMSEA	RMSEA CI-	RMSEA CI+	
p(mid as high)	199600.0	198419.6	0.052	0.051	0.053	
Drift Rate	193931.5	192751.1	0.052	0.051	0.053	

Interpretation

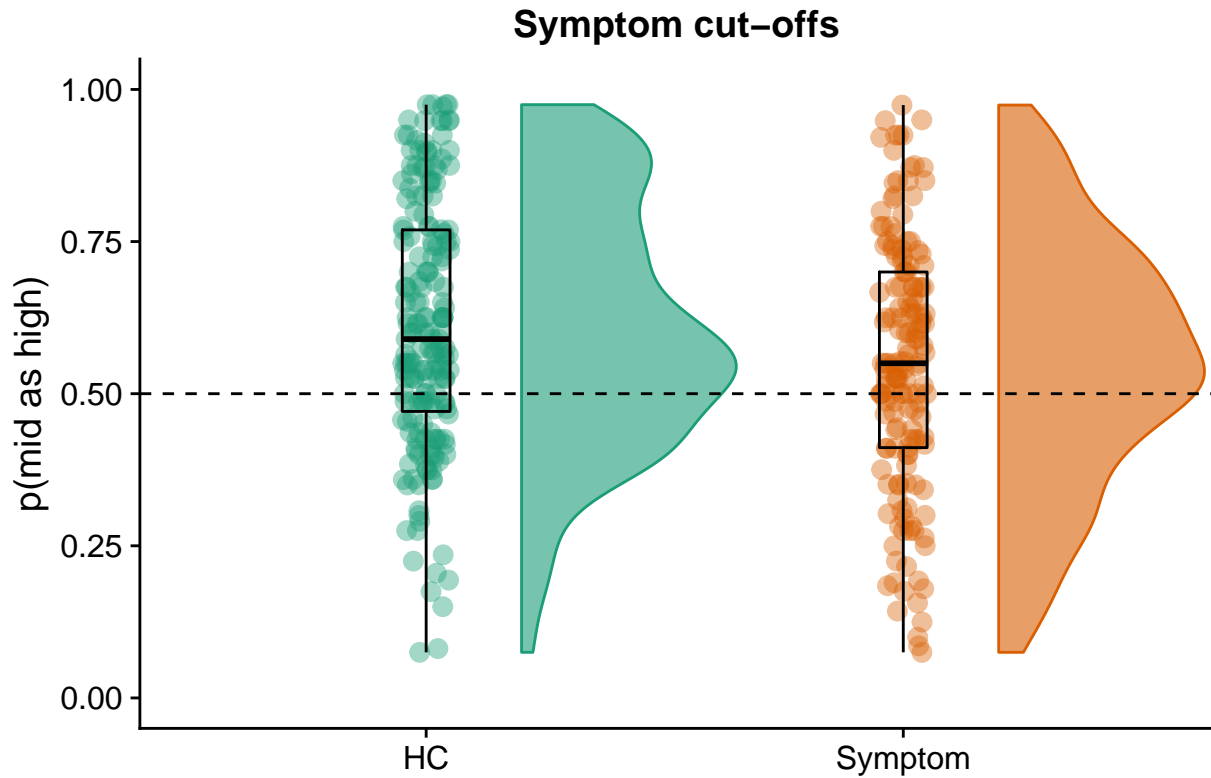
We replicate the basic linear regression, demonstrating the BDI depression symptoms and no other scales significantly influence task performance.

3: ‘Replication’ of prior group effects

Finally, as a sanity check, we should be able to ‘replicate’ the case control study in our original paper by selecting ‘symptomatic’ and ‘healthy control’ individuals from this large cross-sectional sample. We attempted to do this in two ways. I) A very simple BDI symptom scale cut-off (theory-based grouping) and then II) a more data-driven way using latent mixture modelling to identifying latent classes.

I) Symptom cut-offs (theory-based)

We defined control individuals as those with BDI less than 3 and symptomatic as those with BDI greater than 28 (this cut off is based on Beck’s original cut off for severe depression of 29)



```
## [1] "The number of patients is N = 170"
```

```
## [1] "The number of controls is N = 198"
```

```
##
```

```
## Two Sample t-test
```

```
##
```

```
## data: Pmid by group
```

```
## t = 2.766, df = 349, p-value = 0.005976
```

```
## alternative hypothesis: true difference in means is not equal to 0
```

```
## 95 percent confidence interval:
```

```
## 0.01762747 0.10438403
```

```
## sample estimates:
```

```
## mean in group HC mean in group Symptom
```

```
## 0.6087543 0.5477486
```

```
## [1] "The effect size of the Human group difference on p(mid as high) is d= 0.3"
```

```
##
```

```
## Two Sample t-test
```

```
##
```

```
## data: driftrate by group
```

```
## t = 2.78, df = 349, p-value = 0.005731
```

```
## alternative hypothesis: true difference in means is not equal to 0
```

```
## 95 percent confidence interval:
```

```
## 0.001015933 0.005930341
## sample estimates:
##      mean in group HC mean in group Symptom
##      0.006236747      0.002763610

## [1] "The effect size of the Human group difference on driftrate is d= 0.3"
```

II) Latent mixture modelling (data-driven)

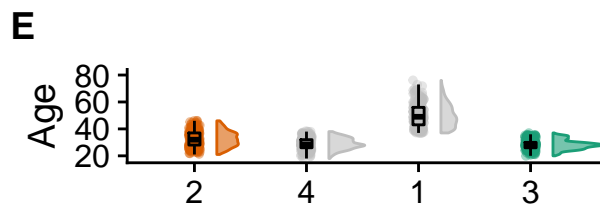
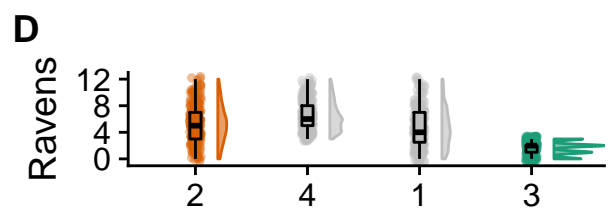
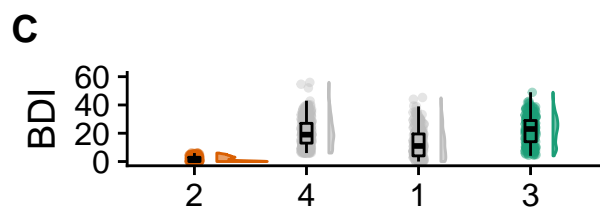
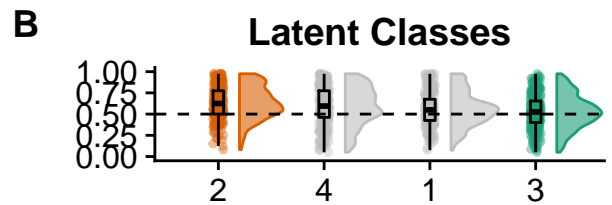
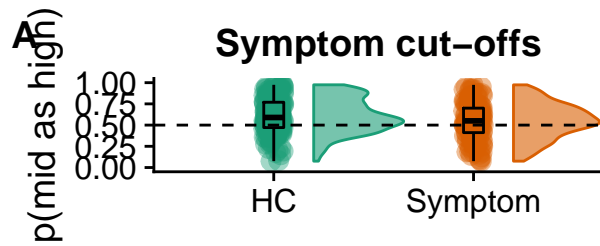
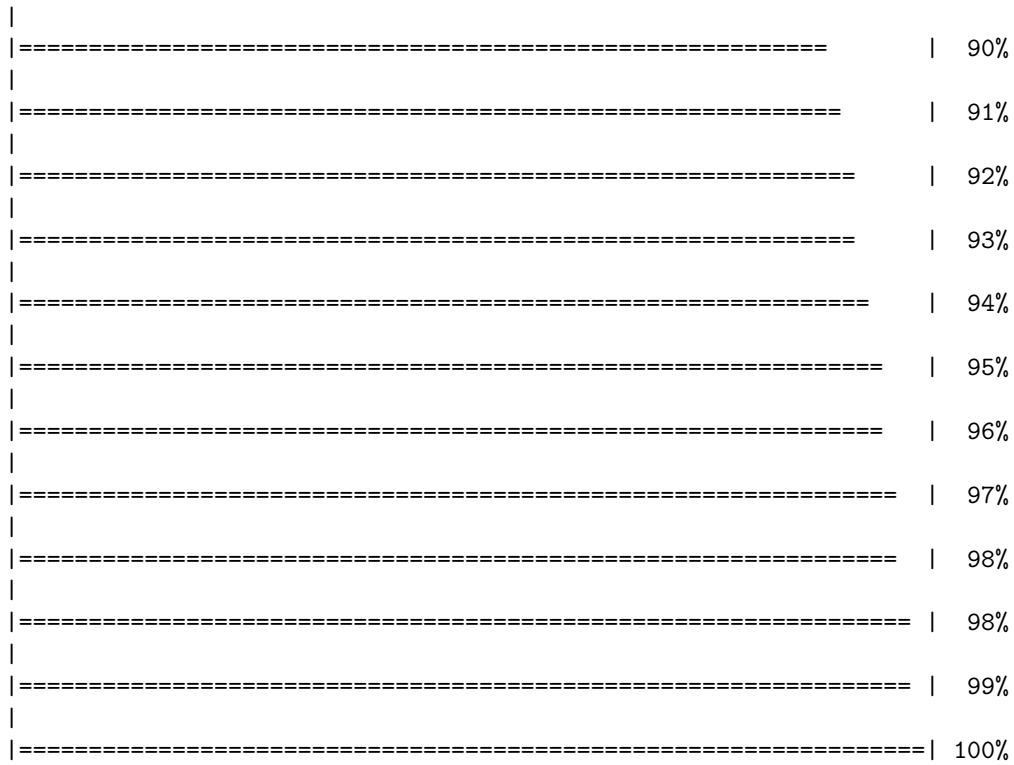
In a more data driven approach we ran an exploratory latent class analysis based on the symptoms/traits (BDI, Age, IQ) that are predict task performance in the regression. Notably we do not include task performance in our class analysis so that classes are defined orthogonal to task performance. Optimal class breakdown (N=5 classes) is plotted below, but ordered by those with the highest positive bias based on the symptom defined latent classes. We then defined the ‘symptomatic group’ as those with the lowest p(mid) as high score, whilst the control group is those with the highest p(mid as high) score. The distributions of the other latent classes are plotted in gray.

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=====	88%
=====	89%



```

## Gaussian finite mixture model fitted by EM algorithm
## -----
##
## Mclust VVI (diagonal, varying volume and shape) model with 4 components:
##
##   log-likelihood    n df          BIC          ICL
##   -9629.49 994 27 -19445.33 -19841.74
##
## Clustering table:
##   1  2  3  4
## 219 233 266 276

##
## Two Sample t-test
##
## data: Pmid by group
## t = -5.8731, df = 497, p-value = 7.836e-09
## alternative hypothesis: true difference in means is not equal to 0
## 95 percent confidence interval:
##  -0.13813301 -0.06887991
## sample estimates:
##      mean in group HC mean in group Symptom
##      0.5310236      0.6345301

## [1] "The effect size of the Human group difference on driftrate is d= 0.53"

##
## Two Sample t-test
##
## data: BDI by group
## t = 32.016, df = 497, p-value < 2.2e-16
## alternative hypothesis: true difference in means is not equal to 0
## 95 percent confidence interval:
##  19.31422 21.83977
## sample estimates:
##      mean in group HC mean in group Symptom
##      22.259398      1.682403

## [1] "The effect size of the Human group difference is d= 2.87"

##
## Two Sample t-test
##
## data: Age by group
## t = -10.506, df = 497, p-value < 2.2e-16
## alternative hypothesis: true difference in means is not equal to 0
## 95 percent confidence interval:
##  -5.246439 -3.593246
## sample estimates:
##      mean in group HC mean in group Symptom
##      28.20677      32.62661
##

```

```
## Two Sample t-test
##
## data: Ravens by group
## t = -20.409, df = 497, p-value < 2.2e-16
## alternative hypothesis: true difference in means is not equal to 0
## 95 percent confidence interval:
## -4.137983 -3.411244
## sample estimates:
##      mean in group HC mean in group Symptom
##      1.560150      5.334764
```

Interpretation

This approach identified 5 latent classes. Confirming our initial study, the group with the highest mean depression scores are those with the greatest negative bias, while those with the highest bias have very low depression scores. Interestingly, the ‘symptomatic’ latent class is also particularly low IQ relative to the other classes. These results are (highly!) exploratory and should be approached with caution, but they perhaps suggest that IQ can protect against negative bias in depressed individuals (which has been speculated in therapy research before). They also provide predictions about the distributions of relevant variables within those who may be currently or at risk of developing clinically-relevant behavioural symptoms.

Supplementary Analysis

Exploratory Factor Analysis of questionnaires

The simple regression above, however, collapses across the individual responses to the different items on the questionnaires and just uses summary scores. However, it may be that there is a simpler underlying structure to the data. For instance BDI and STAI are often highly correlated - so may actually be measuring the same latent construct. In this next section (inspired by Gillan et al 2016) we first run an exploratory factor analysis on the individual items from the questionnaires in an attempt to reduce the amount of latent variables.

```
###EFA

#Determine factors using Cattell-Nelson-Gorsuch CNG Indices (claire's approach)
determinefactors <- nCng(combineditemdata[44:143], cor=TRUE, model="factors")
#Do an EFA using N factors from CNG
efaQaires <- fa(combineditemdata[44:143], nfact = determinefactors$nFactors, rotate = "geominQ", fm = "

efaQaires.loadmat <- zapsmall(matrix(round(efaQaires$loadings, 2), nrow = 100, ncol = 3))
rownames(efaQaires.loadmat) <- names(combineditemdata[44:143])

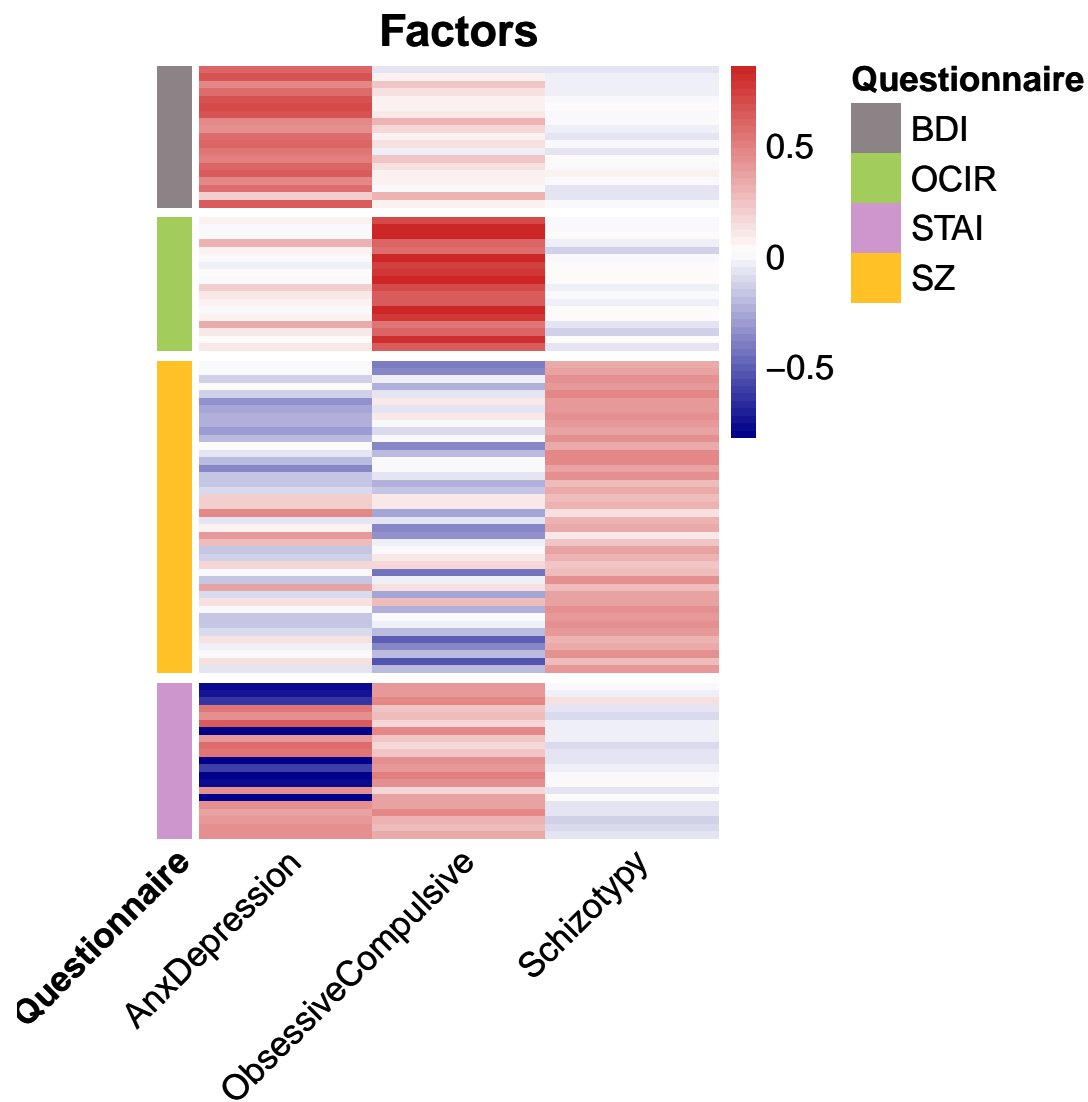
#heatmap
efaQairesdataf <- data.frame(efaQaires.loadmat)
row.names(efaQairesdataf) <- gsub("_quantised", "", row.names(efaQairesdataf))
names(efaQairesdataf) <- c("AnxDepression", "ObsessiveCompulsive", "Schizotypy")
annotation <- substr(row.names(efaQairesdataf), start=1, stop=3)
annotationdf <- data.frame(Questionnaire = annotation)
levels(annotationdf$Questionnaire) <- c('BDI', 'OCIR', 'STAI', 'SZ')
rownames(annotationdf) <- rownames(efaQairesdataf)
countqs <- summary(annotationdf$Questionnaire)
qbreaks <- c(countqs[1], (countqs[1]+countqs[2]), (countqs[1]+countqs[2]+countqs[4]) )
ancol = list(Questionnaire =c(BDI ="lavenderblush4", OCIR ="darkolivegreen3", STAI ="plum3",SZ ="golden
```

```

heatmapplot <- pheatmap(
  mat           = efaQairesdataf,
  border_color  = NA,
  color         = colorRampPalette(c("darkblue", "white", "firebrick3"))(50),
  cellwidth     = 70,
  cellheight    = 3,
  show_colnames = TRUE,
  show_rownames = FALSE,
  drop_levels   = TRUE,
  fontsize      = 14,
  main          = "Factors",
  treeheight_row = 0,
  treeheight_col = 0,
  cluster_rows  = FALSE,
  annotation_row = annotationdf,
  annotation_colors = ancol,
  angle_col     = 45,
  gaps_row      = qbreaks,
  gaps_col      = c(1,2),
  width         = 20,
  height        = 20
)

```

heatmapplot



Interpretation

We Identify 3 latent factors using Cattell-Nelson-Gorsuch Indices (as in Gillan et al.). One factor we name “AnxDepression” as it maps closely onto the BDI and STAI , “ObsessiveCompulsive” which is a mix of the OCIR and STAI (and not Schizotypy), and “Schizotypy” which loads positively almost exclusively on the Schizotypy questionnaire.

Exploratory Structural Equation Model using latent factors

We can now use these factor loadings in an Exploratory Structural Equation Model (ESEM) and run the same regression as above but instead of feeding in the summary questionnaire scores, we can create a latent variable that represents each factor. Of note we use the 'Robust maximum likelihood' (MLR) estimator as it is robust to non-normality and the individual items for the questionnaires are not continuous.

```
##ESEM which mimics regression - this takes the loadings from the EFA and uses them to weight the relat.
terms <- vector()
for (i in 1:3) {
  terms[i] <-
    paste0("F",i,"=~ ", paste0(c(efaQaires.loadmat[,i]), "*"), names(efaQaires.loadmat[,1]), collapse = " + ")
}

efaQaires.esem <- paste(terms, collapse = "\n")
##adding the regression and covariances to match the original regression analysis
terms[4] <- "propmedhigh ~ spreadsheet + Ravens + Age + GenderMF + F1 + F2 + F3"
##adding residual correlations
terms[5] <- "spreadsheet ~~ Ravens + Age + GenderMF + F1 + F2 + F3"
terms[6] <- "Ravens ~~ Age + GenderMF + F1 + F2 + F3"
terms[7] <- "Age ~~ GenderMF + F1 + F2 + F3"
terms[8] <- "GenderMF ~~ F1 + F2 + F3"
terms[9] <- "F1 ~~ F2 + F3"
terms[10] <- "F2 ~~ F3"

semFactorsMatch <- paste(terms, collapse = "\n")

#Fit the model (this takes a while!)
fititem.factors <- sem(semFactorsMatch, data=combineditemdata, meanstructure=TRUE, estimator = "MLR")

#This plots loads of fit indices, but we are mostly intersted in the regression
summary(fititem.factors, standardized=TRUE, rsquare=F, fit.measures=F)
```



```
## lavaan 0.6-3 ended normally after 267 iterations
##
##      Optimization method          NLMINB
##      Number of free parameters      241
##
##                                     Used      Total
##      Number of observations          990      1066
##
##      Estimator                      ML      Robust
##      Model Fit Test Statistic      19555.630  17207.926
##      Degrees of freedom             5429      5429
##      P-value (Chi-square)           0.000      0.000
##      Scaling correction factor              1.136
##      for the Yuan-Bentler correction (Mplus variant)
##
## Parameter Estimates:
##
##      Information                      Observed
##      Observed information based on      Hessian
##      Standard Errors                   Robust.huber.white
##
```

```

## Latent Variables:
##           Estimate Std.Err  z-value  P(>|z|)  Std.lv  Std.all
##   F1 =~
##   BDI_Attrctv_qn    0.620                0.540    0.595
##   BDI_Blam_qntsd    0.680                0.592    0.677
##   BDI_Cry_qntsd     0.470                0.409    0.465
##   BDI_Dcsns_qnts    0.590                0.513    0.587
##   BDI_Dspntmnt_     0.690                0.600    0.682
##   BDI_Falr_qntsd    0.710                0.618    0.684
##   BDI_Futr_qntsd    0.670                0.583    0.658
##   BDI_Glty_qntsd    0.490                0.426    0.481
##   BDI_Hlth_qntsd    0.430                0.374    0.463
##   BDI_Intrs_I_P_    0.590                0.513    0.584
##   BDI_Irrtttd_qnt   0.600                0.522    0.588
##   BDI_Libd_qntsd    0.540                0.470    0.540
##   BDI_Pnshd_qnts    0.500                0.435    0.467
##   BDI_Sad_qntsd     0.620                0.540    0.647
##   BDI_Stsfctn_qn    0.640                0.557    0.606
##   BDI_Slep_qntsd    0.480                0.418    0.469
##   BDI_Tird_qntsd    0.570                0.496    0.586
##   BDI_wght_qntsd    0.220                0.191    0.253
##   BDI_Work_qntsd    0.650                0.566    0.645
##   OCIR_1_quantisd   0.070                0.061    0.053
##   OCIR_10_quantisd  0.000                0.000    0.000
##   OCIR_11_quantisd  0.020                0.017    0.015
##   OCIR_12_quantisd  0.300                0.261    0.231
##   OCIR_13_quantisd  0.070                0.061    0.054
##   OCIR_14_quantisd  0.010                0.009    0.007
##   OCIR_15_quantisd -0.040               -0.035   -0.029
##   OCIR_16_quantisd  0.050                0.044    0.038
##   OCIR_17_quantisd -0.010               -0.009   -0.008
##   OCIR_18_quantisd  0.210                0.183    0.162
##   OCIR_2_quantisd   0.120                0.104    0.088
##   OCIR_3_quantisd   0.060                0.052    0.045
##   OCIR_4_quantisd   0.020                0.017    0.015
##   OCIR_5_quantisd   0.060                0.052    0.045
##   OCIR_6_quantisd   0.350                0.305    0.273
##   OCIR_7_quantisd   0.110                0.096    0.087
##   OCIR_8_quantisd   0.040                0.035    0.029
##   OCIR_9_quantisd   0.110                0.096    0.083
##   SZ_1_quantised    0.000                0.000    0.000
##   SZ_10_quantisd    0.020                0.017    0.035
##   SZ_11_quantisd    -0.140               -0.122   -0.249
##   SZ_12_quantisd    0.050                0.044    0.090
##   SZ_13_quantisd    -0.130               -0.113   -0.234
##   SZ_14_quantisd    -0.340               -0.296   -0.556
##   SZ_15_quantisd    -0.280               -0.244   -0.463
##   SZ_16_quantisd    -0.220               -0.191   -0.374
##   SZ_17_quantisd    -0.230               -0.200   -0.393
##   SZ_18_quantisd    -0.290               -0.252   -0.472
##   SZ_19_quantisd    -0.190               -0.165   -0.332
##   SZ_2_quantised    0.040                0.035    0.065
##   SZ_20_quantisd    -0.070               -0.061   -0.130
##   SZ_21_quantisd    -0.190               -0.165   -0.335

```

##	SZ_22_quantisd	-0.370	-0.322	-0.583
##	SZ_23_quantisd	-0.160	-0.139	-0.283
##	SZ_24_quantisd	-0.160	-0.139	-0.254
##	SZ_25_quantisd	-0.090	-0.078	-0.156
##	SZ_26_quantisd	0.210	0.183	0.336
##	SZ_27_quantisd	0.220	0.191	0.359
##	SZ_28_quantisd	0.490	0.426	0.727
##	SZ_29_quantisd	-0.070	-0.061	-0.124
##	SZ_3_quantised	0.080	0.070	0.137
##	SZ_30_quantisd	0.390	0.339	0.600
##	SZ_31_quantisd	0.270	0.235	0.463
##	SZ_32_quantisd	-0.150	-0.131	-0.264
##	SZ_33_quantisd	-0.130	-0.113	-0.232
##	SZ_34_quantisd	0.170	0.148	0.274
##	SZ_35_quantisd	0.000	0.000	0.000
##	SZ_36_quantisd	-0.150	-0.131	-0.266
##	SZ_37_quantisd	0.380	0.331	0.524
##	SZ_38_quantisd	-0.090	-0.078	-0.152
##	SZ_39_quantisd	0.140	0.122	0.202
##	SZ_4_quantised	0.020	0.017	0.037
##	SZ_40_quantisd	-0.160	-0.139	-0.280
##	SZ_41_quantisd	-0.160	-0.139	-0.283
##	SZ_42_quantisd	-0.100	-0.087	-0.170
##	SZ_5_quantised	0.140	0.122	0.208
##	SZ_6_quantised	-0.020	-0.017	-0.033
##	SZ_7_quantised	0.020	0.017	0.036
##	SZ_8_quantised	0.130	0.113	0.186
##	SZ_9_quantised	-0.070	-0.061	-0.123
##	STAI2_Clm_qnts	-0.770	-0.670	-0.769
##	STAI2_Cntnt_qn	-0.740	-0.644	-0.737
##	STAI2_Dscns_qn	-0.640	-0.557	-0.643
##	STAI2_Dffclts_	0.540	0.470	0.508
##	STAI2_DsppntS_	0.440	0.383	0.420
##	STAI2_Flr_qnts	0.640	0.557	0.605
##	STAI2_Hppy_qnt	-0.810	-0.705	-0.807
##	STAI2_Hppy0th_	0.420	0.365	0.376
##	STAI2_Indqt_qn	0.580	0.505	0.542
##	STAI2_Nrvs_qnt	0.540	0.470	0.519
##	STAI2_Plsnt_qn	-0.820	-0.714	-0.847
##	STAI2_Rstd_qnt	-0.610	-0.531	-0.607
##	STAI2_StsfdSl_	-0.800	-0.696	-0.789
##	STAI2_Scr_qnts	-0.770	-0.670	-0.756
##	STAI2_SlfCnfd_	0.440	0.383	0.387
##	STAI2_Stdy_qnt	-0.790	-0.687	-0.800
##	STAI2_Tnsn_qnt	0.450	0.392	0.422
##	STAI2_Thghts_q	0.380	0.331	0.366
##	STAI2_UnmprtT_	0.400	0.348	0.384
##	STAI2_Wrry_qnt	0.450	0.392	0.417
##	STAI_Anxs_qnts	0.450	0.392	0.407
##	F2 =~			
##	BDI_Attrctv_qn	-0.070	-0.067	-0.074
##	BDI_Blam_qntsd	0.070	0.067	0.076
##	BDI_Cry_qntsd	0.240	0.229	0.260
##	BDI_Dcsns_qnts	0.140	0.134	0.153


```

##      BDI_Dspntmnt_      0.060      0.057      0.065
##      BDI_Falr_qntsd      0.060      0.057      0.063
##      BDI_Futr_qntsd      0.090      0.086      0.097
##      BDI_Glty_qntsd      0.300      0.287      0.323
##      BDI_Hlth_qntsd      0.170      0.162      0.201
##      BDI_Intrs_I_P_      0.070      0.067      0.076
##      BDI_Irrtttd_qnt      0.130      0.124      0.140
##      BDI_Libd_qntsd     -0.030     -0.029     -0.033
##      BDI_Pnshd_qnts      0.240      0.229      0.246
##      BDI_Sad_qntsd      0.140      0.134      0.160
##      BDI_Stsfctn_qn      0.070      0.067      0.073
##      BDI_Slep_qntsd      0.060      0.057      0.064
##      BDI_Tird_qntsd      0.010      0.010      0.011
##      BDI_wght_qntsd      0.290      0.277      0.367
##      BDI_Work_qntsd      0.080      0.076      0.087
##      OCIR_1_quantstd      0.710      0.678      0.593
##      OCIR_10_quantstd     0.860      0.821      0.740
##      OCIR_11_quantstd     0.840      0.802      0.699
##      OCIR_12_quantstd     0.620      0.592      0.525
##      OCIR_13_quantstd     0.580      0.554      0.487
##      OCIR_14_quantstd     0.830      0.793      0.677
##      OCIR_15_quantstd     0.740      0.707      0.592
##      OCIR_16_quantstd     0.790      0.755      0.654
##      OCIR_17_quantstd     0.860      0.821      0.713
##      OCIR_18_quantstd     0.710      0.678      0.601
##      OCIR_2_quantstd      0.640      0.611      0.516
##      OCIR_3_quantstd      0.650      0.621      0.540
##      OCIR_4_quantstd      0.830      0.793      0.692
##      OCIR_5_quantstd      0.770      0.735      0.635
##      OCIR_6_quantstd      0.550      0.525      0.471
##      OCIR_7_quantstd      0.610      0.583      0.531
##      OCIR_8_quantstd      0.800      0.764      0.645
##      OCIR_9_quantstd      0.630      0.602      0.522
##      SZ_1_quantised     -0.390     -0.373     -0.668
##      SZ_10_quantisd     -0.350     -0.334     -0.667
##      SZ_11_quantisd     -0.040     -0.038     -0.078

```

```
## [ reached getOption("max.print") -- omitted 161 rows ]
```

```
##
```

```
## Regressions:
```

```

##      Estimate Std.Err z-value P(>|z|) Std.lv Std.all
##      propmedhigh ~
##      spreadsheet      0.006      0.002      2.767      0.006      0.006      0.086
##      Ravens           0.010      0.002      4.339      0.000      0.010      0.145
##      Age              -0.003      0.001     -3.900      0.000     -0.003     -0.124
##      GenderMF         -0.005      0.013     -0.388      0.698     -0.005     -0.012
##      F1               -0.023      0.009     -2.624      0.009     -0.020     -0.097
##      F2               -0.009      0.009     -1.011      0.312     -0.008     -0.040
##      F3               0.006      0.018      0.309      0.757      0.002      0.011
##

```

```
##
```

```
## Covariances:
```

```

##      Estimate Std.Err z-value P(>|z|) Std.lv Std.all
##      spreadsheet ~~
##      Ravens         -0.395      0.280     -1.408      0.159     -0.395     -0.045
##      Age             1.278      0.974      1.312      0.190      1.278      0.042

```

##	GenderMF	0.059	0.047	1.264	0.206	0.059	0.040
##	F1 ~~						
##	spreadsheet	-0.012	0.084	-0.143	0.886	-0.014	-0.005
##	F2 ~~						
##	spreadsheet	0.090	0.093	0.968	0.333	0.094	0.031
##	F3 ~~						
##	spreadsheet	-0.021	0.043	-0.497	0.619	-0.052	-0.017
##	Ravens ~~						
##	Age	2.696	0.986	2.734	0.006	2.696	0.090
##	GenderMF	-0.070	0.046	-1.528	0.126	-0.070	-0.048
##	F1 ~~						
##	Ravens	-0.410	0.080	-5.142	0.000	-0.471	-0.160
##	F2 ~~						
##	Ravens	-0.983	0.086	-11.432	0.000	-1.029	-0.349
##	F3 ~~						
##	Ravens	-0.073	0.043	-1.702	0.089	-0.176	-0.060
##	Age ~~						
##	GenderMF	-0.061	0.160	-0.379	0.705	-0.061	-0.012
##	F1 ~~						
##	Age	-2.154	0.310	-6.941	0.000	-2.476	-0.242
##	F2 ~~						
##	Age	-3.192	0.281	-11.367	0.000	-3.341	-0.327
##	F3 ~~						
##	Age	0.024	0.131	0.184	0.854	0.058	0.006
##	F1 ~~						
##	GenderMF	0.014	0.014	0.992	0.321	0.016	0.032
##	F2 ~~						
##	GenderMF	0.040	0.015	2.645	0.008	0.041	0.084
##	F3 ~~						
##	GenderMF	0.004	0.007	0.627	0.531	0.011	0.022
##	F1 ~~						
##	F2	0.386	0.022	17.289	0.000	0.465	0.465
##	F3	-0.070	0.012	-6.097	0.000	-0.196	-0.196
##	F2 ~~						
##	F3	-0.007	0.016	-0.474	0.635	-0.019	-0.019
##							
##	Intercepts:						
##		Estimate	Std.Err	z-value	P(> z)	Std.lv	Std.all
##	.BDI_Attrctv_qn	1.851	0.030	61.691	0.000	1.851	2.042
##	.BDI_Blam_qntsd	1.880	0.028	67.386	0.000	1.880	2.149
##	.BDI_Cry_qntsd	1.608	0.028	57.827	0.000	1.608	1.827
##	.BDI_Dcsns_qnts	1.730	0.028	61.375	0.000	1.730	1.979
##	.BDI_Dspntmnt_	1.838	0.028	65.497	0.000	1.838	2.087
##	.BDI_Falr_qntsd	1.838	0.029	63.321	0.000	1.838	2.034
##	.BDI_Futr_qntsd	1.865	0.028	65.850	0.000	1.865	2.103
##	.BDI_Glty_qntsd	1.649	0.027	61.055	0.000	1.649	1.862
##	.BDI_Hlth_qntsd	1.691	0.025	68.835	0.000	1.691	2.094
##	.BDI_Intrs_I_P_	1.868	0.029	64.901	0.000	1.868	2.125
##	.BDI_Irrttd_qnt	1.867	0.028	66.237	0.000	1.867	2.103
##	.BDI_Libd_qntsd	1.694	0.028	60.268	0.000	1.694	1.946
##	.BDI_Pnshtd_qnts	1.660	0.030	56.017	0.000	1.660	1.780
##	.BDI_Sad_qntsd	1.682	0.025	68.386	0.000	1.682	2.017
##	.BDI_Stsfctn_qn	1.836	0.030	62.084	0.000	1.836	1.998
##	.BDI_Slep_qntsd	1.836	0.029	64.377	0.000	1.836	2.060

##	.BDI_Tird_qntsd	1.914	0.027	70.442	0.000	1.914	2.263
##	.BDI_wght_qntsd	1.374	0.023	60.476	0.000	1.374	1.819
##	.BDI_Work_qntsd	1.788	0.027	65.179	0.000	1.788	2.040
##	.OCIR_1_quantstd	2.392	0.041	58.871	0.000	2.392	2.090
##	.OCIR_10_quantstd	1.991	0.041	48.896	0.000	1.991	1.793
##	.OCIR_11_quantstd	2.203	0.041	53.208	0.000	2.203	1.918
##	.OCIR_12_quantstd	2.316	0.041	56.177	0.000	2.316	2.052
##	.OCIR_13_quantstd	2.424	0.040	60.536	0.000	2.424	2.130
##	.OCIR_14_quantstd	2.186	0.043	51.180	0.000	2.186	1.865
##	.OCIR_15_quantstd	2.398	0.041	58.107	0.000	2.398	2.010
##	.OCIR_16_quantstd	2.127	0.042	51.049	0.000	2.127	1.844
##	.OCIR_17_quantstd	2.178	0.043	51.149	0.000	2.178	1.890
##	.OCIR_18_quantstd	2.231	0.042	52.896	0.000	2.231	1.977
##	.OCIR_2_quantstd	2.642	0.041	64.103	0.000	2.642	2.229
##	.OCIR_3_quantstd	2.466	0.040	61.560	0.000	2.466	2.143
##	.OCIR_4_quantstd	2.220	0.041	54.210	0.000	2.220	1.938
##	.OCIR_5_quantstd	2.155	0.041	52.331	0.000	2.155	1.859
##	.OCIR_6_quantstd	2.380	0.041	58.370	0.000	2.380	2.132
##	.OCIR_7_quantstd	2.189	0.039	55.883	0.000	2.189	1.995
##	.OCIR_8_quantstd	2.266	0.042	53.357	0.000	2.266	1.912
##	.OCIR_9_quantstd	2.520	0.040	62.668	0.000	2.520	2.185
##	.SZ_1_quantised	1.615	0.015	104.447	0.000	1.615	2.896
##	.SZ_10_quantisd	1.768	0.013	131.700	0.000	1.768	3.524
##	.SZ_11_quantisd	1.579	0.016	100.608	0.000	1.579	3.231
##	.SZ_12_quantisd	1.645	0.015	108.227	0.000	1.645	3.398
##	.SZ_13_quantisd	1.583	0.016	101.001	0.000	1.583	3.279
##	.SZ_14_quantisd	1.522	0.016	95.886	0.000	1.522	2.859
##	.SZ_15_quantisd	1.537	0.016	97.016	0.000	1.537	2.924
##	.SZ_16_quantisd	1.512	0.016	95.184	0.000	1.512	2.951
##	.SZ_17_quantisd	1.561	0.016	98.936	0.000	1.561	3.063
##	.SZ_18_quantisd	1.583	0.016	101.001	0.000	1.583	2.958
##	.SZ_19_quantisd	1.555	0.016	98.413	0.000	1.555	3.120
##	.SZ_2_quantised	1.612	0.015	104.099	0.000	1.612	2.998
##	.SZ_20_quantisd	1.710	0.014	118.592	0.000	1.710	3.647
##	.SZ_21_quantisd	1.572	0.016	99.939	0.000	1.572	3.186
##	.SZ_22_quantisd	1.554	0.016	98.327	0.000	1.554	2.815
##	.SZ_23_quantisd	1.598	0.016	102.547	0.000	1.598	3.250
##	.SZ_24_quantisd	1.595	0.016	102.228	0.000	1.595	2.909
##	.SZ_25_quantisd	1.571	0.016	99.846	0.000	1.571	3.120
##	.SZ_26_quantisd	1.305	0.015	89.183	0.000	1.305	2.397
##	.SZ_27_quantisd	1.296	0.015	89.329	0.000	1.296	2.431
##	.SZ_28_quantisd	1.386	0.015	89.575	0.000	1.386	2.362
##	.SZ_29_quantisd	1.585	0.016	101.200	0.000	1.585	3.236
##	.SZ_3_quantised	1.740	0.014	124.906	0.000	1.740	3.418
##	.SZ_30_quantisd	1.419	0.016	90.497	0.000	1.419	2.509
##	.SZ_31_quantisd	1.289	0.014	89.474	0.000	1.289	2.541
##	.SZ_32_quantisd	1.577	0.016	100.414	0.000	1.577	3.189
##	.SZ_33_quantisd	1.368	0.015	89.248	0.000	1.368	2.804
##	.SZ_34_quantisd	1.290	0.014	89.452	0.000	1.290	2.390
##	.SZ_35_quantisd	1.774	0.013	133.384	0.000	1.774	3.018
##	.SZ_36_quantisd	1.551	0.016	98.073	0.000	1.551	3.165
##	.SZ_37_quantisd	1.302	0.015	89.227	0.000	1.302	2.064
##	.SZ_38_quantisd	1.693	0.015	115.476	0.000	1.693	3.280
##	.SZ_39_quantisd	1.290	0.014	89.452	0.000	1.290	2.135

##	.SZ_4_quantised	1.690	0.015	114.957	0.000	1.690	3.577
##	.SZ_40_quantisd	1.577	0.016	100.414	0.000	1.577	3.172
##	.SZ_41_quantisd	1.570	0.016	99.753	0.000	1.570	3.188
##	.SZ_42_quantisd	1.559	0.016	98.760	0.000	1.559	3.049
##	.SZ_5_quantised	1.725	0.014	121.607	0.000	1.725	2.940
##	.SZ_6_quantised	1.715	0.014	119.568	0.000	1.715	3.252
##	.SZ_7_quantised	1.580	0.016	100.705	0.000	1.580	3.260
##	.SZ_8_quantised	1.714	0.014	119.370	0.000	1.714	2.820
##	.SZ_9_quantised	1.620	0.015	105.037	0.000	1.620	3.269
##	.STAI2_Clm_qnts	2.697	0.029	92.505	0.000	2.697	3.094
##	.STAI2_Cntnt_qn	2.684	0.029	92.224	0.000	2.684	3.070
##	.STAI2_Dscns_qn	2.654	0.029	91.842	0.000	2.654	3.065
##	.STAI2_Dffclts_	2.204	0.031	72.065	0.000	2.204	2.382
##	.STAI2_DsppntS_	2.194	0.030	73.103	0.000	2.194	2.404
##	.STAI2_Flr_qnts	2.026	0.030	66.523	0.000	2.026	2.199
##	.STAI2_Hppy_qnt	2.725	0.029	92.690	0.000	2.725	3.121
##	.STAI2_Hppy0th_	2.491	0.032	78.398	0.000	2.491	2.562
##	.STAI2_Indqt_qn	2.172	0.031	69.873	0.000	2.172	2.332
##	.STAI2_Nrvs_qnt	2.206	0.030	74.217	0.000	2.206	2.434
##	.STAI2_Plsnt_qn	2.727	0.027	100.458	0.000	2.727	3.239
##	.STAI2_Rstd_qnt	2.469	0.028	86.925	0.000	2.469	2.823
##	.STAI2_StsfdSl_	2.610	0.031	84.756	0.000	2.610	2.957
##	.STAI2_Scr_qnts	2.716	0.030	89.572	0.000	2.716	3.063
##	.STAI2_SlfCnfd_	2.395	0.033	73.220	0.000	2.395	2.419
##	.STAI2_Stdy_qnt	2.767	0.029	96.893	0.000	2.767	3.219
##	.STAI2_Tnsn_qnt	2.218	0.031	72.603	0.000	2.218	2.389
##	.STAI2_Thghts_q	1.960	0.029	68.317	0.000	1.960	2.167
##	.STAI2_UnmprtT_	2.199	0.030	72.575	0.000	2.199	2.424
##	.STAI2_Wrry_qnt	2.266	0.031	72.806	0.000	2.266	2.415
##	.STAI_Anxs_qnts	2.136	0.032	67.610	0.000	2.136	2.223
##	.propmedhigh	0.601	0.027	21.984	0.000	0.601	2.870
##	.spreadsheet	3.982	0.095	41.762	0.000	3.982	1.327
##	.Ravens	4.458	0.094	47.626	0.000	4.458	1.514
##	.Age	34.293	0.325	105.506	0.000	34.293	3.353
##	.GenderMF	0.590	0.016	37.736	0.000	0.590	1.199
##	.F1	0.000				0.000	0.000
##	.F2	0.000				0.000	0.000
##	.F3	0.000				0.000	0.000

##

Variances:

##		Estimate	Std.Err	z-value	P(> z)	Std.lv	Std.all
##	.BDI_Attrctv_qn	0.555	0.027	20.415	0.000	0.555	0.675
##	.BDI_Blam_qntsd	0.372	0.020	18.704	0.000	0.372	0.486
##	.BDI_Cry_qntsd	0.466	0.028	16.465	0.000	0.466	0.602
##	.BDI_Dcsns_qnts	0.417	0.022	18.928	0.000	0.417	0.545
##	.BDI_Dsppntmnt_	0.382	0.021	18.076	0.000	0.382	0.492
##	.BDI_Falr_qntsd	0.403	0.021	19.317	0.000	0.403	0.494
##	.BDI_Futr_qntsd	0.393	0.021	18.722	0.000	0.393	0.500
##	.BDI_Glty_qntsd	0.408	0.022	18.337	0.000	0.408	0.520
##	.BDI_Hlth_qntsd	0.427	0.021	19.988	0.000	0.427	0.655
##	.BDI_Intrs_I_P_	0.468	0.024	19.789	0.000	0.468	0.606
##	.BDI_Irrtttd_qnt	0.439	0.021	20.558	0.000	0.439	0.557
##	.BDI_Libd_qntsd	0.545	0.029	18.813	0.000	0.545	0.719
##	.BDI_Pnshd_qnts	0.537	0.031	17.148	0.000	0.537	0.617

##	.BDI_Sad_quntsd	0.320	0.019	16.896	0.000	0.320	0.460
##	.BDI_Stsfctn_qn	0.500	0.026	19.209	0.000	0.500	0.592
##	.BDI_Slep_quntsd	0.594	0.028	21.251	0.000	0.594	0.747
##	.BDI_Tird_quntsd	0.459	0.023	20.059	0.000	0.459	0.641
##	.BDI_wght_quntsd	0.405	0.029	14.015	0.000	0.405	0.711
##	.BDI_Work_quntsd	0.403	0.020	20.155	0.000	0.403	0.525
##	.OCIR_1_quntsd	0.807	0.037	22.069	0.000	0.807	0.617
##	.OCIR_10_quntsd	0.558	0.034	16.194	0.000	0.558	0.453
##	.OCIR_11_quntsd	0.662	0.037	17.861	0.000	0.662	0.502
##	.OCIR_12_quntsd	0.710	0.032	21.876	0.000	0.710	0.557
##	.OCIR_13_quntsd	0.947	0.043	22.104	0.000	0.947	0.731
##	.OCIR_14_quntsd	0.738	0.043	17.077	0.000	0.738	0.538
##	.OCIR_15_quntsd	0.946	0.048	19.654	0.000	0.946	0.664
##	.OCIR_16_quntsd	0.730	0.041	17.883	0.000	0.730	0.548
##	.OCIR_17_quntsd	0.660	0.038	17.356	0.000	0.660	0.497
##	.OCIR_18_quntsd	0.664	0.034	19.238	0.000	0.664	0.521
##	.OCIR_2_quntsd	0.961	0.039	24.461	0.000	0.961	0.684
##	.OCIR_3_quntsd	0.905	0.043	20.819	0.000	0.905	0.683
##	.OCIR_4_quntsd	0.671	0.037	18.375	0.000	0.671	0.511
##	.OCIR_5_quntsd	0.764	0.044	17.253	0.000	0.764	0.569
##	.OCIR_6_quntsd	0.723	0.032	22.511	0.000	0.723	0.581
##	.OCIR_7_quntsd	0.797	0.038	21.000	0.000	0.797	0.662
##	.OCIR_8_quntsd	0.795	0.042	18.805	0.000	0.795	0.566
##	.OCIR_9_quntsd	0.904	0.042	21.668	0.000	0.904	0.679
##	.SZ_1_quantised	0.149	0.008	18.601	0.000	0.149	0.480
##	.SZ_10_quantisd	0.119	0.006	18.757	0.000	0.119	0.475
##	.SZ_11_quantisd	0.178	0.006	31.630	0.000	0.178	0.745
##	.SZ_12_quantisd	0.169	0.007	25.862	0.000	0.169	0.720
##	.SZ_13_quantisd	0.165	0.005	30.114	0.000	0.165	0.706
##	.SZ_14_quantisd	0.163	0.007	22.702	0.000	0.163	0.574
##	.SZ_15_quantisd	0.162	0.007	24.800	0.000	0.162	0.588
##	.SZ_16_quantisd	0.190	0.006	29.799	0.000	0.190	0.722
##	.SZ_17_quantisd	0.177	0.006	28.241	0.000	0.177	0.683
##	.SZ_18_quantisd	0.154	0.007	23.008	0.000	0.154	0.539
##	.SZ_19_quantisd	0.177	0.006	29.102	0.000	0.177	0.713
##	.SZ_2_quantised	0.154	0.008	20.034	0.000	0.154	0.531
##	.SZ_20_quantisd	0.123	0.006	21.571	0.000	0.123	0.557
##	.SZ_21_quantisd	0.164	0.006	27.710	0.000	0.164	0.674
##	.SZ_22_quantisd	0.163	0.007	22.434	0.000	0.163	0.535
##	.SZ_23_quantisd	0.165	0.006	27.641	0.000	0.165	0.682
##	.SZ_24_quantisd	0.178	0.008	23.352	0.000	0.178	0.593
##	.SZ_25_quantisd	0.187	0.006	30.150	0.000	0.187	0.737
##	.SZ_26_quantisd	0.226	0.009	26.341	0.000	0.226	0.764
##	.SZ_27_quantisd	0.218	0.009	24.766	0.000	0.218	0.766
##	.SZ_28_quantisd	0.206	0.009	22.723	0.000	0.206	0.597
##	.SZ_29_quantisd	0.207	0.005	40.205	0.000	0.207	0.864
##	.SZ_3_quantised	0.135	0.007	17.980	0.000	0.135	0.519
##	.SZ_30_quantisd	0.208	0.008	24.841	0.000	0.208	0.651
##	.SZ_31_quantisd	0.206	0.008	25.839	0.000	0.206	0.799
##	.SZ_32_quantisd	0.193	0.006	33.945	0.000	0.193	0.791
##	.SZ_33_quantisd	0.204	0.005	37.434	0.000	0.204	0.857
##	.SZ_34_quantisd	0.222	0.009	25.307	0.000	0.222	0.761
##	.SZ_35_quantisd	0.147	0.009	17.302	0.000	0.147	0.427
##	.SZ_36_quantisd	0.178	0.006	31.427	0.000	0.178	0.741

##	.SZ_37_quantisd	0.232	0.010	22.767	0.000	0.232	0.584
##	.SZ_38_quantisd	0.144	0.007	21.426	0.000	0.144	0.541
##	.SZ_39_quantisd	0.235	0.011	21.095	0.000	0.235	0.643
##	.SZ_4_quantised	0.146	0.007	22.383	0.000	0.146	0.656
##	.SZ_40_quantisd	0.193	0.006	32.916	0.000	0.193	0.780
##	.SZ_41_quantisd	0.175	0.006	30.163	0.000	0.175	0.723
##	.SZ_42_quantisd	0.165	0.007	25.171	0.000	0.165	0.630
##	.SZ_5_quantised	0.135	0.008	16.056	0.000	0.135	0.391
##	.SZ_6_quantised	0.137	0.007	19.494	0.000	0.137	0.493
##	.SZ_7_quantised	0.170	0.006	30.022	0.000	0.170	0.724
##	.SZ_8_quantised	0.144	0.009	16.425	0.000	0.144	0.390
##	.SZ_9_quantised	0.161	0.006	25.920	0.000	0.161	0.654
##	.STAI2_Clm_qnts	0.403	0.019	21.337	0.000	0.403	0.530
##	.STAI2_Cntnt_qn	0.432	0.021	20.284	0.000	0.432	0.566
##	.STAI2_Dscns_qn	0.451	0.020	22.621	0.000	0.451	0.602
##	.STAI2_Dffclts_	0.467	0.022	21.139	0.000	0.467	0.546
##	.STAI2_DsppntS_	0.529	0.025	21.370	0.000	0.529	0.635
##	.STAI2_Flr_qnts	0.417	0.021	19.576	0.000	0.417	0.491
##	.STAI2_Hppy_qnt	0.363	0.017	21.707	0.000	0.363	0.476
##	.STAI2_Hppy0th_	0.687	0.030	22.652	0.000	0.687	0.727
##	.STAI2_Indqt_qn	0.509	0.027	19.094	0.000	0.509	0.586
##	.STAI2_Nrvs_qnt	0.440	0.021	20.725	0.000	0.440	0.536
##	.STAI2_Plsnt_qn	0.310	0.016	19.604	0.000	0.310	0.437
##	.STAI2_Rstd_qnt	0.527	0.025	20.869	0.000	0.527	0.689
##	.STAI2_StsfdSl_	0.367	0.016	23.098	0.000	0.367	0.471
##	.STAI2_Scr_qnts	0.420	0.020	20.737	0.000	0.420	0.535
##	.STAI2_SlfCnfd_	0.738	0.031	23.624	0.000	0.738	0.753
##	.STAI2_Stdy_qnt	0.365	0.020	18.468	0.000	0.365	0.493
##	.STAI2_Tnsn_qnt	0.450	0.022	20.459	0.000	0.450	0.522
##	.STAI2_Thghts_q	0.376	0.019	20.080	0.000	0.376	0.460
##	.STAI2_UnmprtT_	0.498	0.022	22.233	0.000	0.498	0.605
##	.STAI2_Wrry_qnt	0.568	0.025	23.055	0.000	0.568	0.645
##	.STAI_Anxs_qnts	0.533	0.027	20.016	0.000	0.533	0.577
##	.propmedhigh	0.041	0.002	24.811	0.000	0.041	0.947
##	spreadsheet	9.000	0.003	2595.746	0.000	9.000	1.000
##	Ravens	8.672	0.335	25.891	0.000	8.672	1.000
##	Age	104.591	6.150	17.008	0.000	104.591	1.000
##	GenderMF	0.242	0.003	86.073	0.000	0.242	1.000
##	F1	0.757	0.029	26.127	0.000	1.000	1.000
##	F2	0.912	0.036	25.590	0.000	1.000	1.000
##	F3	0.170	0.012	14.421	0.000	1.000	1.000

```

ESEMfits <-data.frame(fitMeasures(fititem.factors, c("bic","aic","rmsea","rmsea.ci.lower", "rmsea.ci.upper"),
names(ESEMfits) <- "p(mid as high)"
rownames(ESEMfits) <- c("BIC", "AIC", "RMSEA", "RMSEA CI-", "RMSEA CI+")

kable(t(ESEMfits), digits = 3)

```

	BIC	AIC	RMSEA	RMSEA CI-	RMSEA CI+	
p(mid as high)	199655.2	198474.8	0.051	0.05	0.052	

Interpretation

In this ESEM we show that the AnxDepression factor (F1) alone significantly influences task performance. Zooming out, both the simple regression and the ESEM agree that of mental health-relevant symptoms, task performance is driven by symptoms of mood and anxiety disorders and not OCD or Psychosis symptoms. This suggests that our original clinical study in mood and anxiety disorders did not reflect a generic pathology, but rather that effects may be selective to the mood and anxiety symptom group that we originally tested. This also suggests that we must also control for age and IQ if we ever want to use this to inform clinical decision-making.