```
> for (var in var_names) {
+     formula <- as.formula(paste("WASO ~", var, "+ (1 | id)"))
+     model <- lmer(formula, data = standardized_data)
+     print(summary(model))
+     p = round(2*pnorm(abs(coef(summary(model))[,3]), lower.tail = FALSE),3)
+     print('p-values:')
+     print(p)
+ }
Linear mixed model fit by REML ['lmerMod']
Formula: WASO ~ TIR + (1 | id)
Data: standardized_data

REML criterion at convergence: 559.5

Scaled residuals:
   Min      1Q  Median      3Q     Max
-2.2750 -0.6410 -0.1534  0.4982  3.9931

Random effects:
 Groups   Name        Variance Std.Dev.
 id       (Intercept) 0.1896   0.4354
 Residual             0.7565   0.8698
Number of obs: 207, groups:  id, 23

Fixed effects:
            Estimate Std. Error t value
(Intercept) -0.06338    0.11147  -0.569
TIR          0.07145    0.07226   0.989

Correlation of Fixed Effects:
    (Intr)
TIR -0.013
[1] "p-values:"
(Intercept)         TIR
0.570         0.323
Linear mixed model fit by REML ['lmerMod']
Formula: WASO ~ TAR + (1 | id)
Data: standardized_data

REML criterion at convergence: 558.9

Scaled residuals:
   Min      1Q  Median      3Q     Max
-2.3361 -0.6591 -0.1538  0.4981  3.8995

Random effects:
 Groups   Name        Variance Std.Dev.
 id       (Intercept) 0.1845   0.4295
 Residual             0.7553   0.8691
Number of obs: 207, groups:  id, 23

Fixed effects:
            Estimate Std. Error t value
(Intercept) -0.05959    0.11042  -0.540
TAR         -0.09099    0.06972  -1.305

Correlation of Fixed Effects:
    (Intr)
TAR -0.015
[1] "p-values:"
(Intercept)         TAR
0.589         0.192
Linear mixed model fit by REML ['lmerMod']
Formula: WASO ~ TBR + (1 | id)
Data: standardized_data

REML criterion at convergence: 560

Scaled residuals:
```

```
    Min      1Q  Median      3Q      Max
-2.4114 -0.6360 -0.1473  0.5042  3.9255

Random effects:
  Groups    Name          Variance Std.Dev.
  id        (Intercept) 0.2056    0.4534
  Residual              0.7528    0.8676
Number of obs: 207, groups:  id, 23

Fixed effects:
              Estimate Std. Error t value
(Intercept) -0.05697    0.11471  -0.497
TBR          0.05437    0.06626   0.821

Correlation of Fixed Effects:
    (Intr)
TBR 0.063
[1] "p-values:"
(Intercept)          TBR
0.619         0.412
Linear mixed model fit by REML ['lmerMod']
Formula: WASO ~ min + (1 | id)
Data: standardized_data

REML criterion at convergence: 554.8

Scaled residuals:
    Min      1Q  Median      3Q      Max
-2.3990 -0.6223 -0.1592  0.5267  3.8220

Random effects:
  Groups    Name          Variance Std.Dev.
  id        (Intercept) 0.1728    0.4157
  Residual              0.7423    0.8616
Number of obs: 207, groups:  id, 23

Fixed effects:
              Estimate Std. Error t value
(Intercept) -0.05202    0.10780  -0.483
min         -0.16154    0.06544  -2.468

Correlation of Fixed Effects:
    (Intr)
min -0.034
[1] "p-values:"
(Intercept)          min
0.629         0.014
Linear mixed model fit by REML ['lmerMod']
Formula: WASO ~ max + (1 | id)
Data: standardized_data

REML criterion at convergence: 559.2

Scaled residuals:
    Min      1Q  Median      3Q      Max
-2.2648 -0.5894 -0.1361  0.4796  4.1018

Random effects:
  Groups    Name          Variance Std.Dev.
  id        (Intercept) 0.2240    0.4733
  Residual              0.7448    0.8630
Number of obs: 207, groups:  id, 23

Fixed effects:
              Estimate Std. Error t value
(Intercept) -0.06653    0.11781  -0.565
max          0.08128    0.06763   1.202

Correlation of Fixed Effects:
```

```
   (Intr)
max -0.019
[1] "p-values:"
(Intercept)          max
0.572        0.229
Linear mixed model fit by REML ['lmerMod']
Formula: WASO ~ mean + (1 | id)
Data: standardized_data

REML criterion at convergence: 559

Scaled residuals:
  Min       1Q  Median       3Q      Max
-2.3556 -0.6433 -0.1742   0.5025   3.8707

Random effects:
  Groups    Name          Variance Std.Dev.
id       (Intercept) 0.1884    0.4340
Residual               0.7542    0.8684
Number of obs: 207, groups:  id, 23

Fixed effects:
   Estimate Std. Error t value
(Intercept) -0.05827    0.11120  -0.524
mean         -0.08740    0.06789  -1.287

Correlation of Fixed Effects:
   (Intr)
mean -0.026
[1] "p-values:"
(Intercept)        mean
0.600        0.198
Linear mixed model fit by REML ['lmerMod']
Formula: WASO ~ median + (1 | id)
Data: standardized_data

REML criterion at convergence: 558.7

Scaled residuals:
  Min       1Q  Median       3Q      Max
-2.3330 -0.6331 -0.1505   0.5020   3.8516

Random effects:
  Groups    Name          Variance Std.Dev.
id       (Intercept) 0.1870    0.4324
Residual               0.7533    0.8680
Number of obs: 207, groups:  id, 23

Fixed effects:
   Estimate Std. Error t value
(Intercept) -0.05829    0.11089  -0.526
median       -0.09530    0.06754  -1.411

Correlation of Fixed Effects:
   (Intr)
median -0.023
[1] "p-values:"
(Intercept)       median
0.599        0.158
Linear mixed model fit by REML ['lmerMod']
Formula: WASO ~ std + (1 | id)
Data: standardized_data

REML criterion at convergence: 554.3

Scaled residuals:
  Min       1Q  Median       3Q      Max
-2.3643 -0.6202 -0.1333   0.4906   4.1807
```

```
Random effects:
  Groups   Name        Variance Std.Dev.
 id       (Intercept) 0.2165   0.4653
 Residual             0.7274   0.8529
Number of obs: 207, groups:  id, 23

Fixed effects:
            Estimate Std. Error t value
(Intercept) -0.06308    0.11597  -0.544
std          0.16320    0.06377   2.559

Correlation of Fixed Effects:
    (Intr)
std 0.002
[1] "p-values:"
(Intercept)         std
0.586        0.010
Linear mixed model fit by REML ['lmerMod']
Formula: WASO ~ cv + (1 | id)
Data: standardized_data

REML criterion at convergence: 553.2

Scaled residuals:
   Min      1Q  Median      3Q     Max
-2.4420 -0.6462 -0.1205  0.4886  4.0318

Random effects:
  Groups   Name        Variance Std.Dev.
 id       (Intercept) 0.1956   0.4422
 Residual             0.7290   0.8538
Number of obs: 207, groups:  id, 23

Fixed effects:
            Estimate Std. Error t value
(Intercept) -0.05448    0.11201  -0.486
cv           0.17560    0.06345   2.768

Correlation of Fixed Effects:
   (Intr)
cv 0.027
[1] "p-values:"
(Intercept)          cv
0.627        0.006
Linear mixed model fit by REML ['lmerMod']
Formula: WASO ~ delta.IG + (1 | id)
Data: standardized_data

REML criterion at convergence: 552.2

Scaled residuals:
   Min      1Q  Median      3Q     Max
-2.2797 -0.5895 -0.1232  0.4834  4.1553

Random effects:
  Groups   Name        Variance Std.Dev.
 id       (Intercept) 0.2155   0.4643
 Residual             0.7199   0.8485
Number of obs: 207, groups:  id, 23

Fixed effects:
            Estimate Std. Error t value
(Intercept) -0.06219    0.11561  -0.538
delta.IG     0.18815    0.06390   2.944

Correlation of Fixed Effects:
         (Intr)
delta.IG 0.005
[1] "p-values:"
```

```
(Intercept)     delta.IG
0.591        0.003
>
```