**Correct - Simple Analyses**

**Sample 2 (without outlier)**

$`--- FORMATTED RESULTS ------------------------------------`

Effect Text

1 (Intercept) F(1, 49) = 6468.73, p < .001, np2 = .99

2 group F(1, 49) = 1.96, p = .167, np2 = .04

3 volat F(2, 98) = 38.44, p < .001, np2 = .44

4 cond F(1, 49) = 1.90, p = .175, np2 = .04

5 group:volat F(2, 98) = 1.40, p = .252, np2 = .03

6 group:cond F(1, 49) = 0.20, p = .660, np2 < .01

7 volat:cond F(2, 98) = 1.13, p = .321, np2 = .02

8 group:volat:cond F(2, 98) = 1.96, p = .154, np2 = .04

**Sample 1 (with outliers)**

$`--- FORMATTED RESULTS ------------------------------------`

Effect Text

1 (Intercept) F(1, 54) = 3172.51, p < .001, np2 = .98

2 group F(1, 54) = 3.96, p = .052, np2 = .07

3 volat F(2, 108) = 34.25, p < .001, np2 = .39

4 cond F(1, 54) = 1.01, p = .319, np2 = .02

5 group:volat F(2, 108) = 1.17, p = .309, np2 = .02

6 group:cond F(1, 54) = 0.59, p = .446, np2 = .01

7 volat:cond F(2, 108) = 2.03, p = .144, np2 = .04

8 group:volat:cond F(2, 108) = 2.69, p = .082, np2 = .05

**Covariates Age + IQ**

$`--- FORMATTED RESULTS ------------------------------------`

Effect Text

1 (Intercept) F(1, 47) = 2959.09, p < .001, np2 = .98

2 group F(1, 47) = 2.55, p = .117, np2 = .05

3 volat F(2, 94) = 32.83, p < .001, np2 = .41

4 cond F(1, 47) = 0.44, p = .511, np2 = .01

5 group:volat F(2, 94) = 2.25, p = .120, np2 = .05

6 group:cond F(1, 47) = 0.77, p = .385, np2 = .02

7 volat:cond F(2, 94) = 1.51, p = .228, np2 = .03

8 group:volat:cond F(2, 94) = 3.23, p = .053, np2 = .06

**Covariates Age + School\_Years**

$`--- FORMATTED RESULTS ------------------------------------`

Effect Text

1 (Intercept) F(1, 47) = 2788.53, p < .001, np2 = .98

2 group F(1, 47) = 0.46, p = .499, np2 = .01

3 volat F(2, 94) = 32.83, p < .001, np2 = .41

4 cond F(1, 47) = 0.44, p = .511, np2 = .01

5 group:volat F(2, 94) = 2.25, p = .120, np2 = .05

6 group:cond F(1, 47) = 0.77, p = .385, np2 = .02

7 volat:cond F(2, 94) = 1.51, p = .228, np2 = .03

8 group:volat:cond F(2, 94) = 3.23, p = .053, np2 = .06

**Correct - Hierarchical Analyses**

mod1.correct <-glmer(Correct~Group\*Cond\*volat+(1|sub\_idx)+(1|Cond/volat), data=data\_new,family=binomial)

Fixed effects:

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

(Intercept) 1.58508 0.10347 15.320 < 2e-16 \*\*\*

GroupAUD -0.13598 0.14774 -0.920 0.357343

Condstress 0.18732 0.09695 1.932 0.053337 .

volat2 -0.82422 0.08233 -10.011 < 2e-16 \*\*\*

volat3 -0.68730 0.09671 -7.107 1.18e-12 \*\*\*

GroupAUD:Condstress -0.58146 0.13182 -4.411 1.03e-05 \*\*\*

GroupAUD:volat2 -0.04419 0.11644 -0.380 0.704290

GroupAUD:volat3 -0.30317 0.13558 -2.236 0.025342 \*

Condstress:volat2 -0.09679 0.11905 -0.813 0.416203

Condstress:volat3 -0.09195 0.13940 -0.660 0.509518

GroupAUD:Condstress:volat2 0.65934 0.16449 4.008 6.11e-05 \*\*\*

GroupAUD:Condstress:volat3 0.66580 0.19201 3.467 0.000525 \*\*\*

mod1a.correct <- glmer(Correct~Group\*Cond\*volat+(1|sub\_idx), data=data\_new,family=binomial, nAGQ = 0)

Fixed effects:

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

(Intercept) 1.57979 0.10330 15.294 < 2e-16 \*\*\*

GroupAUD -0.13516 0.14750 -0.916 0.359489

Condstress 0.18687 0.09681 1.930 0.053557 .

volat2 -0.82195 0.08220 -9.999 < 2e-16 \*\*\*

volat3 -0.68548 0.09657 -7.098 1.26e-12 \*\*\*

GroupAUD:Condstress -0.57999 0.13161 -4.407 1.05e-05 \*\*\*

GroupAUD:volat2 -0.04406 0.11626 -0.379 0.704708

GroupAUD:volat3 -0.30224 0.13539 -2.232 0.025589 \*

Condstress:volat2 -0.09664 0.11883 -0.813 0.416074

Condstress:volat3 -0.09181 0.13922 -0.659 0.509594

GroupAUD:Condstress:volat2 0.65764 0.16416 4.006 6.17e-05 \*\*\*

GroupAUD:Condstress:volat3 0.66410 0.19178 3.463 0.000534 \*\*\*

**Winstay - Simple Analyses**

**Sample 2 (without outlier)**

$`--- FORMATTED RESULTS ------------------------------------`

Effect Text

1 (Intercept) F(1, 49) = 8438.85, p < .001, np2 = .99

2 group F(1, 49) = 0.00, p = .999, np2 < .01

3 volat F(2, 98) = 5.02, p = .028, np2 = .09

4 cond F(1, 49) = 2.32, p = .134, np2 = .05

5 group:volat F(2, 98) = 0.04, p = .859, np2 < .01

6 group:cond F(1, 49) = 1.88, p = .177, np2 = .04

7 volat:cond F(2, 98) = 0.27, p = .620, np2 = .01

8 group:volat:cond F(2, 98) = 1.69, p = .200, np2 = .03

**Sample 1 (with outliers)**

$`--- FORMATTED RESULTS ------------------------------------`

Effect Text

1 (Intercept) F(1, 54) = 2340.63, p < .001, np2 = .98

2 group F(1, 54) = 1.52, p = .222, np2 = .03

3 volat F(2, 108) = 3.50, p = .065, np2 = .06

4 cond F(1, 54) = 0.95, p = .335, np2 = .02

5 group:volat F(2, 108) = 0.16, p = .703, np2 < .01

6 group:cond F(1, 54) = 0.39, p = .536, np2 = .01

7 volat:cond F(2, 108) = 0.06, p = .819, np2 < .01

8 group:volat:cond F(2, 108) = 5.42, p = .022, np2 = .09

**Covariates Age + IQ**

$`--- FORMATTED RESULTS ------------------------------------`

Effect Text

1 (Intercept) F(1, 47) = 2098.03, p < .001, np2 = .98

2 group F(1, 47) = 0.38, p = .543, np2 = .01

3 volat F(2, 94) = 3.31, p = .073, np2 = .07

4 cond F(1, 47) = 1.21, p = .277, np2 = .03

5 group:volat F(2, 94) = 0.02, p = .891, np2 < .01

6 group:cond F(1, 47) = 0.17, p = .685, np2 < .01

7 volat:cond F(2, 94) = 0.01, p = .915, np2 < .01

8 group:volat:cond F(2, 94) = 3.23, p = .077, np2 = .06

**Covariate Age + School Years**

$`--- FORMATTED RESULTS ------------------------------------`

Effect Text

1 (Intercept) F(1, 47) = 2036.24, p < .001, np2 = .98

2 group F(1, 47) = 0.27, p = .606, np2 = .01

3 volat F(2, 94) = 3.31, p = .073, np2 = .07

4 cond F(1, 47) = 1.21, p = .277, np2 = .03

5 group:volat F(2, 94) = 0.02, p = .891, np2 < .01

6 group:cond F(1, 47) = 0.17, p = .685, np2 < .01

7 volat:cond F(2, 94) = 0.01, p = .915, np2 < .01

8 group:volat:cond F(2, 94) = 3.23, p = .077, np2 = .06

**Winstay - Hierarchical Analyses**

mod1.w\_stay <-glmer(w\_stay~Group\*Cond\*volat+(1|sub\_idx)+(1|Cond/volat), data=data\_new,family=binomial)

Fixed effects:

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

(Intercept) 0.59100 0.11086 5.331 9.77e-08 \*\*\*

GroupAUD -0.19285 0.15935 -1.210 0.2262

Condstress 0.08427 0.07617 1.106 0.2686

volat2 -0.43571 0.07044 -6.186 6.19e-10 \*\*\*

volat3 -0.34429 0.08494 -4.053 5.05e-05 \*\*\*

GroupAUD:Condstress -0.25313 0.10826 -2.338 0.0194 \*

GroupAUD:volat2 0.02207 0.10112 0.218 0.8272

GroupAUD:volat3 -0.21837 0.12201 -1.790 0.0735 .

Condstress:volat2 -0.02977 0.09993 -0.298 0.7657

Condstress:volat3 -0.01881 0.12047 -0.156 0.8759

GroupAUD:Condstress:volat2 0.37342 0.14297 2.612 0.0090 \*\*

GroupAUD:Condstress:volat3 0.41124 0.17248 2.384 0.0171 \*

mod1a.w\_stay <-glmer(w\_stay~Group\*Cond\*volat+(1|sub\_idx), data=data\_new,family=binomial)

Fixed effects:

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

(Intercept) 0.59102 0.11087 5.331 9.79e-08 \*\*\*

GroupAUD -0.19287 0.15941 -1.210 0.22632

Condstress 0.08427 0.07618 1.106 0.26862

volat2 -0.43572 0.07046 -6.184 6.25e-10 \*\*\*

volat3 -0.34428 0.08492 -4.054 5.03e-05 \*\*\*

GroupAUD:Condstress -0.25316 0.10829 -2.338 0.01940 \*

GroupAUD:volat2 0.02206 0.10115 0.218 0.82738

GroupAUD:volat3 -0.21838 0.12200 -1.790 0.07346 .

Condstress:volat2 -0.02977 0.09999 -0.298 0.76590

Condstress:volat3 -0.01882 0.12051 -0.156 0.87589

GroupAUD:Condstress:volat2 0.37346 0.14308 2.610 0.00905 \*\*

GroupAUD:Condstress:volat3 0.41129 0.17257 2.383 0.01716 \*

**Loseswitch - Simple Analyses**

**Sample 2 (without outlier)**

$`--- FORMATTED RESULTS ------------------------------------`

Effect Text

1 (Intercept) F(1, 49) = 233.35, p < .001, np2 = .83

2 group F(1, 49) = 0.26, p = .616, np2 = .01

3 volat F(2, 98) = 105.91, p < .001, np2 = .68

4 cond F(1, 49) = 0.19, p = .664, np2 < .01

5 group:volat F(2, 98) = 1.75, p = .188, np2 = .03

6 group:cond F(1, 49) = 1.54, p = .221, np2 = .03

7 volat:cond F(2, 98) = 1.08, p = .345, np2 = .02

8 group:volat:cond F(2, 98) = 2.14, p = .124, np2 = .04

**Sample 1 (with outliers)**

$`--- FORMATTED RESULTS ------------------------------------`

Effect Text

1 (Intercept) F(1, 54) = 267.85, p < .001, np2 = .83

2 group F(1, 54) = 0.92, p = .341, np2 = .02

3 volat F(2, 108) = 86.99, p < .001, np2 = .62

4 cond F(1, 54) = 0.01, p = .910, np2 < .01

5 group:volat F(2, 108) = 0.86, p = .395, np2 = .02

6 group:cond F(1, 54) = 3.69, p = .060, np2 = .06

7 volat:cond F(2, 108) = 0.92, p = .403, np2 = .02

8 group:volat:cond F(2, 108) = 2.14, p = .123, np2 = .04

**Covariates Age + IQ**

$`--- FORMATTED RESULTS ------------------------------------`

Effect Text

1 (Intercept) F(1, 47) = 208.33, p < .001, np2 = .82

2 group F(1, 47) = 0.14, p = .708, np2 < .01

3 volat F(2, 94) = 76.63, p < .001, np2 = .62

4 cond F(1, 47) = 1.00, p = .322, np2 = .02

5 group:volat F(2, 94) = 1.54, p = .223, np2 = .03

6 group:cond F(1, 47) = 1.42, p = .239, np2 = .03

7 volat:cond F(2, 94) = 0.06, p = .939, np2 < .01

8 group:volat:cond F(2, 94) = 1.40, p = .252, np2 = .03

**Covariates Age + School Years**

$`--- FORMATTED RESULTS ------------------------------------`

Effect Text

1 (Intercept) F(1, 47) = 208.30, p < .001, np2 = .82

2 group F(1, 47) = 0.00, p = .974, np2 < .01

3 volat F(2, 94) = 76.63, p < .001, np2 = .62

4 cond F(1, 47) = 1.00, p = .322, np2 = .02

5 group:volat F(2, 94) = 1.54, p = .223, np2 = .03

6 group:cond F(1, 47) = 1.42, p = .239, np2 = .03

7 volat:cond F(2, 94) = 0.06, p = .939, np2 < .01

8 group:volat:cond F(2, 94) = 1.40, p = .252, np2 = .03

mod1.l\_switch <-glmer(l\_switch~Group\*Cond\*volat+(1|sub\_idx)+(1|Cond/volat), data=data\_new,family=binomial)

Fixed effects:

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

(Intercept) -1.94845 0.11084 -17.580 < 2e-16 \*\*\*

GroupAUD 0.28266 0.15625 1.809 0.070446 .

Condstress -0.06804 0.10647 -0.639 0.522758

volat2 0.43781 0.09380 4.667 3.05e-06 \*\*\*

volat3 0.37978 0.11180 3.397 0.000682 \*\*\*

GroupAUD:Condstress 0.22836 0.14426 1.583 0.113418

GroupAUD:volat2 -0.09172 0.13013 -0.705 0.480896

GroupAUD:volat3 0.06736 0.15385 0.438 0.661493

Condstress:volat2 0.02496 0.13407 0.186 0.852298

Condstress:volat3 0.04711 0.15935 0.296 0.767522

GroupAUD:Condstress:volat2 -0.27967 0.18429 -1.518 0.129116

GroupAUD:Condstress:volat3 -0.30270 0.21824 -1.387 0.165436

mod1a.l\_switch <- glmer(l\_switch~Group\*Cond\*volat+(1|sub\_idx), data=data\_new,family=binomial)

Fixed effects:

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

(Intercept) -1.94858 0.11090 -17.570 < 2e-16 \*\*\*

GroupAUD 0.28291 0.15637 1.809 0.070407 .

Condstress -0.06797 0.10644 -0.639 0.523087

volat2 0.43786 0.09383 4.667 3.06e-06 \*\*\*

volat3 0.37984 0.11181 3.397 0.000681 \*\*\*

GroupAUD:Condstress 0.22814 0.14420 1.582 0.113624

GroupAUD:volat2 -0.09184 0.13019 -0.705 0.480546

GroupAUD:volat3 0.06720 0.15382 0.437 0.662228

Condstress:volat2 0.02485 0.13405 0.185 0.852945

Condstress:volat3 0.04686 0.15925 0.294 0.768562

GroupAUD:Condstress:volat2 -0.27942 0.18430 -1.516 0.129502

GroupAUD:Condstress:volat3 -0.30226 0.21802 -1.386 0.165629