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> ## Robustness checks - Experiment ##

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>

> # Extract relevant data

> EXP <- subset(E, GENDER != "Other", select = c("CONDITION", "GENDER", "EDUCATION", "AGE", "COGNITIVE\_RISK", "BEHAVIORAL\_INTENTIONS"))

>

> # Recode education - University yes/no

> EXP$EDUCATION <- as.character(EXP$EDUCATION)

> EXP$EDUCATION[EXP$EDUCATION == "Other"] <- "University - No"

> EXP$EDUCATION[EXP$EDUCATION == "Elementary-Secondary School"] <- "University - No"

> EXP$EDUCATION[EXP$EDUCATION == "High School"] <- "University - No"

> EXP$EDUCATION[EXP$EDUCATION == "University"] <- "University - Yes"

>

> # Scale data

> EXP[4:5] <- scale(EXP[4:5])

>

> # Regression analysis - Control vs high and low pandemic fatigue - Controlling for age, gender, education and cognitive risk

> EXP$CONDITION <- factor(EXP$CONDITION, levels = c( "Control","Low Pandemic Fatigue", "High Pandemic Fatigue"))

> Model1 <- lm(BEHAVIORAL\_INTENTIONS ~ CONDITION + AGE + GENDER + EDUCATION + COGNITIVE\_RISK, data = EXP)

> summ(Model1, digits = 3)

MODEL INFO:

Observations: 1557

Dependent Variable: BEHAVIORAL\_INTENTIONS

Type: OLS linear regression

MODEL FIT:

F(6,1550) = 39.007, p = 0.000

R² = 0.131

Adj. R² = 0.128

Standard errors:OLS

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Est. S.E. t val. p

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(Intercept) 5.985 0.065 92.012 0.000

CONDITIONLow Pandemic 0.099 0.066 1.493 0.136

Fatigue

CONDITIONHigh Pandemic -0.193 0.067 -2.877 0.004

Fatigue

AGE 0.039 0.028 1.408 0.159

GENDERMale -0.252 0.055 -4.574 0.000

EDUCATIONUniversity - Yes -0.025 0.059 -0.421 0.673

COGNITIVE\_RISK 0.364 0.028 13.135 0.000

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> export\_summs(Model1, error\_format = "[{conf.low}, {conf.high}]")

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Model 1

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(Intercept) 5.98 \*\*\*

[5.86, 6.11]

CONDITIONLow Pandemic Fatigue 0.10

[-0.03, 0.23]

CONDITIONHigh Pandemic Fatigue -0.19 \*\*

[-0.33, -0.06]

AGE 0.04

[-0.02, 0.09]

GENDERMale -0.25 \*\*\*

[-0.36, -0.14]

EDUCATIONUniversity - Yes -0.02

[-0.14, 0.09]

COGNITIVE\_RISK 0.36 \*\*\*

[0.31, 0.42]

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N 1557

R2 0.13

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\*\*\* p < 0.001; \*\* p < 0.01; \* p < 0.05.

Column names: names, Model 1

> APAStyler(modelTest(Model1), digits = 3) # Standardized effect sizes

Term Est Type

<char> <char> <char>

1: (Intercept) 5.985\*\*\* [ 5.857, 6.112] Fixed Effects

2: CONDITIONLow Pandemic Fatigue 0.099 [-0.031, 0.229] Fixed Effects

3: CONDITIONHigh Pandemic Fatigue -0.193\*\* [-0.325, -0.062] Fixed Effects

4: AGE 0.039 [-0.015, 0.094] Fixed Effects

5: GENDERMale -0.252\*\*\* [-0.360, -0.144] Fixed Effects

6: EDUCATIONUniversity - Yes -0.025 [-0.141, 0.091] Fixed Effects

7: COGNITIVE\_RISK 0.364\*\*\* [ 0.309, 0.418] Fixed Effects

8: N (Observations) 1557 Overall Model

9: logLik DF 8 Overall Model

10: logLik -2323.686 Overall Model

11: AIC 4663.372 Overall Model

12: BIC 4706.176 Overall Model

13: F2 0.151 Overall Model

14: R2 0.131 Overall Model

15: Adj R2 0.128 Overall Model

16: CONDITION f2 = 0.012, p < .001 Effect Sizes

17: AGE f2 = 0.001, p = .159 Effect Sizes

18: GENDER f2 = 0.013, p < .001 Effect Sizes

19: EDUCATION f2 = 0.000, p = .673 Effect Sizes

20: COGNITIVE\_RISK f2 = 0.111, p < .001 Effect Sizes

Term Est Type

>

> # Regression analysis - High pandemic fatigue vs low pandemic fatigue and control - Controlling for age, gender, education and cognitive risk

> EXP$CONDITION <- factor(EXP$CONDITION, levels = c( "High Pandemic Fatigue","Low Pandemic Fatigue", "Control"))

> Model2 <- lm(BEHAVIORAL\_INTENTIONS ~ CONDITION + AGE + GENDER + EDUCATION + COGNITIVE\_RISK, data = EXP)

> summ(Model2, digits = 3)

MODEL INFO:

Observations: 1557

Dependent Variable: BEHAVIORAL\_INTENTIONS

Type: OLS linear regression

MODEL FIT:

F(6,1550) = 39.007, p = 0.000

R² = 0.131

Adj. R² = 0.128

Standard errors:OLS

-----------------------------------------------------------------

Est. S.E. t val. p

------------------------------- -------- ------- -------- -------

(Intercept) 5.791 0.068 85.254 0.000

CONDITIONLow Pandemic 0.292 0.068 4.312 0.000

Fatigue

CONDITIONControl 0.193 0.067 2.877 0.004

AGE 0.039 0.028 1.408 0.159

GENDERMale -0.252 0.055 -4.574 0.000

EDUCATIONUniversity - Yes -0.025 0.059 -0.421 0.673

COGNITIVE\_RISK 0.364 0.028 13.135 0.000

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> export\_summs(Model2, error\_format = "[{conf.low}, {conf.high}]")

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Model 1

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(Intercept) 5.79 \*\*\*

[5.66, 5.92]

CONDITIONLow Pandemic Fatigue 0.29 \*\*\*

[0.16, 0.43]

CONDITIONControl 0.19 \*\*

[0.06, 0.33]

AGE 0.04

[-0.02, 0.09]

GENDERMale -0.25 \*\*\*

[-0.36, -0.14]

EDUCATIONUniversity - Yes -0.02

[-0.14, 0.09]

COGNITIVE\_RISK 0.36 \*\*\*

[0.31, 0.42]

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N 1557

R2 0.13

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\*\*\* p < 0.001; \*\* p < 0.01; \* p < 0.05.

Column names: names, Model 1

> APAStyler(modelTest(Model2), digits = 3) # Standardized effect sizes

Term Est Type

<char> <char> <char>

1: (Intercept) 5.791\*\*\* [ 5.658, 5.925] Fixed Effects

2: CONDITIONLow Pandemic Fatigue 0.292\*\*\* [ 0.159, 0.425] Fixed Effects

3: CONDITIONControl 0.193\*\* [ 0.062, 0.325] Fixed Effects

4: AGE 0.039 [-0.015, 0.094] Fixed Effects

5: GENDERMale -0.252\*\*\* [-0.360, -0.144] Fixed Effects

6: EDUCATIONUniversity - Yes -0.025 [-0.141, 0.091] Fixed Effects

7: COGNITIVE\_RISK 0.364\*\*\* [ 0.309, 0.418] Fixed Effects

8: N (Observations) 1557 Overall Model

9: logLik DF 8 Overall Model

10: logLik -2323.686 Overall Model

11: AIC 4663.372 Overall Model

12: BIC 4706.176 Overall Model

13: F2 0.151 Overall Model

14: R2 0.131 Overall Model

15: Adj R2 0.128 Overall Model

16: CONDITION f2 = 0.012, p < .001 Effect Sizes

17: AGE f2 = 0.001, p = .159 Effect Sizes

18: GENDER f2 = 0.013, p < .001 Effect Sizes

19: EDUCATION f2 = 0.000, p = .673 Effect Sizes

20: COGNITIVE\_RISK f2 = 0.111, p < .001 Effect Sizes

Term Est Type

>

> # Bonferroni correction robustness checks

> P\_ROB <- c(0.00407, 0.13574, 0.00001717)

> p.adjust(P\_ROB, method = "bonferroni")

[1] 0.01221000 0.40722000 0.00005151