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> ## The Link between Pandemic Fatigue and Recommended Health-Protective Behaviors - USA ##

> #########################################################################################

>

> # Extract relevant data

> USA <- subset(E, GENDER != "Other", select = c("GENDER", "EDUCATION", "PHYSICAL\_DISTANCING", "MASK\_WEARING", "HYGIENE", "INFORMATION\_SEEKING", "AGE",

+ "BEHAVIORAL\_INTENTIONS", "PANDEMIC\_FATIGUE","INFORMATION\_FATIGUE", "BEHAVIORAL\_FATIGUE", "COGNITIVE\_RISK"))

>

> # Recode education - University yes/no

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

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

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

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

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

> USA$EDUCATION <- factor(USA$EDUCATION)

>

> # Scale data

> USA[7:12] <- scale(USA[7:12])

>

> # Regression models

> PD <- lm(PHYSICAL\_DISTANCING ~ AGE + GENDER + EDUCATION + COGNITIVE\_RISK + PANDEMIC\_FATIGUE, data = USA)

> H <- lm(HYGIENE ~ AGE + GENDER + EDUCATION + COGNITIVE\_RISK + PANDEMIC\_FATIGUE, data = USA)

> MW <- lm(MASK\_WEARING ~ AGE + GENDER + EDUCATION + COGNITIVE\_RISK + PANDEMIC\_FATIGUE, data = USA)

> IS <- lm(INFORMATION\_SEEKING ~ AGE + GENDER + EDUCATION + COGNITIVE\_RISK + PANDEMIC\_FATIGUE, data = USA)

>

> # Print results

> export\_summs(PD, H, MW, IS, model.names = c("Physical distancing", "Hygiene", "Mask wearing", "Information seeking"), error\_format = "[{conf.low}, {conf.high}]")

────────────────────────────────────────────────────────────────────────────────────────────────

Physical Hygiene Mask wearing Information

distancing seeking

─────────────────────────────────────────────────────────────────────────────

(Intercept) 6.12 \*\*\* 6.31 \*\*\* 6.34 \*\*\* 4.94 \*\*\*

[5.99, 6.25] [6.19, 6.43] [6.20, 6.48] [4.80, 5.09]

AGE 0.07 \* -0.03 0.02 0.04

[0.01, 0.14] [-0.09, 0.03] [-0.05, 0.09] [-0.04, 0.11]

GENDERMale -0.24 \*\*\* -0.40 \*\*\* -0.30 \*\*\* -0.07

[-0.37, [-0.52, [-0.44, [-0.22, 0.08]

-0.11] -0.28] -0.16]

EDUCATIONUnivers -0.06 -0.05 -0.09 0.28 \*\*\*

ity - Yes

[-0.21, 0.08] [-0.18, 0.08] [-0.25, 0.06] [0.12, 0.43]

COGNITIVE\_RISK 0.34 \*\*\* 0.23 \*\*\* 0.24 \*\*\* 0.44 \*\*\*

[0.27, 0.40] [0.17, 0.30] [0.17, 0.31] [0.36, 0.51]

PANDEMIC\_FATIGUE -0.52 \*\*\* -0.29 \*\*\* -0.40 \*\*\* -0.75 \*\*\*

[-0.59, [-0.35, [-0.47, [-0.82,

-0.46] -0.23] -0.33] -0.68]

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N 1557 1557 1557 1557

R2 0.21 0.12 0.12 0.28

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

Column names: names, Physical distancing, Hygiene, Mask wearing, Information seeking

> summ(PD, digits = 3)

MODEL INFO:

Observations: 1557

Dependent Variable: PHYSICAL\_DISTANCING

Type: OLS linear regression

MODEL FIT:

F(5,1551) = 83.398, p = 0.000

R² = 0.212

Adj. R² = 0.209

Standard errors:OLS

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

Est. S.E. t val. p

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(Intercept) 6.117 0.066 92.506 0.000

AGE 0.074 0.034 2.203 0.028

GENDERMale -0.237 0.067 -3.533 0.000

EDUCATIONUniversity - Yes -0.063 0.072 -0.879 0.379

COGNITIVE\_RISK 0.336 0.034 9.894 0.000

PANDEMIC\_FATIGUE -0.523 0.034 -15.574 0.000

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

> summ(H, digits = 3)

MODEL INFO:

Observations: 1557

Dependent Variable: HYGIENE

Type: OLS linear regression

MODEL FIT:

F(5,1551) = 41.730, p = 0.000

R² = 0.119

Adj. R² = 0.116

Standard errors:OLS

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

Est. S.E. t val. p

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

(Intercept) 6.312 0.061 103.169 0.000

AGE -0.028 0.031 -0.901 0.367

GENDERMale -0.397 0.062 -6.403 0.000

EDUCATIONUniversity - Yes -0.053 0.067 -0.792 0.428

COGNITIVE\_RISK 0.235 0.031 7.475 0.000

PANDEMIC\_FATIGUE -0.286 0.031 -9.209 0.000

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

> summ(MW, digits =3)

MODEL INFO:

Observations: 1557

Dependent Variable: MASK\_WEARING

Type: OLS linear regression

MODEL FIT:

F(5,1551) = 41.666, p = 0.000

R² = 0.118

Adj. R² = 0.116

Standard errors:OLS

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

Est. S.E. t val. p

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(Intercept) 6.338 0.072 87.948 0.000

AGE 0.022 0.037 0.590 0.556

GENDERMale -0.299 0.073 -4.086 0.000

EDUCATIONUniversity - Yes -0.091 0.079 -1.159 0.246

COGNITIVE\_RISK 0.240 0.037 6.476 0.000

PANDEMIC\_FATIGUE -0.403 0.037 -10.997 0.000

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

> summ(IS, digits =3)

MODEL INFO:

Observations: 1557

Dependent Variable: INFORMATION\_SEEKING

Type: OLS linear regression

MODEL FIT:

F(5,1551) = 121.734, p = 0.000

R² = 0.282

Adj. R² = 0.280

Standard errors:OLS

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

Est. S.E. t val. p

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(Intercept) 4.942 0.074 66.656 0.000

AGE 0.039 0.038 1.020 0.308

GENDERMale -0.069 0.075 -0.917 0.359

EDUCATIONUniversity - Yes 0.275 0.081 3.402 0.001

COGNITIVE\_RISK 0.436 0.038 11.449 0.000

PANDEMIC\_FATIGUE -0.750 0.038 -19.920 0.000

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

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

Term Est Type

<char> <char> <char>

1: (Intercept) 6.117\*\*\* [ 5.987, 6.246] Fixed Effects

2: AGE 0.074\* [ 0.008, 0.141] Fixed Effects

3: GENDERMale -0.237\*\*\* [-0.368, -0.105] Fixed Effects

4: EDUCATIONUniversity - Yes -0.063 [-0.205, 0.078] Fixed Effects

5: COGNITIVE\_RISK 0.336\*\*\* [ 0.269, 0.402] Fixed Effects

6: PANDEMIC\_FATIGUE -0.523\*\*\* [-0.589, -0.457] Fixed Effects

7: N (Observations) 1557 Overall Model

8: logLik DF 7 Overall Model

9: logLik -2632.670 Overall Model

10: AIC 5279.340 Overall Model

11: BIC 5316.794 Overall Model

12: F2 0.269 Overall Model

13: R2 0.212 Overall Model

14: Adj R2 0.209 Overall Model

15: AGE f2 = 0.003, p = .028 Effect Sizes

16: GENDER f2 = 0.008, p < .001 Effect Sizes

17: EDUCATION f2 = 0.000, p = .379 Effect Sizes

18: COGNITIVE\_RISK f2 = 0.063, p < .001 Effect Sizes

19: PANDEMIC\_FATIGUE f2 = 0.156, p < .001 Effect Sizes

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

Term Est Type

<char> <char> <char>

1: (Intercept) 6.312\*\*\* [ 6.192, 6.432] Fixed Effects

2: AGE -0.028 [-0.090, 0.033] Fixed Effects

3: GENDERMale -0.397\*\*\* [-0.519, -0.276] Fixed Effects

4: EDUCATIONUniversity - Yes -0.053 [-0.184, 0.078] Fixed Effects

5: COGNITIVE\_RISK 0.235\*\*\* [ 0.173, 0.296] Fixed Effects

6: PANDEMIC\_FATIGUE -0.286\*\*\* [-0.347, -0.225] Fixed Effects

7: N (Observations) 1557 Overall Model

8: logLik DF 7 Overall Model

9: logLik -2511.842 Overall Model

10: AIC 5037.685 Overall Model

11: BIC 5075.139 Overall Model

12: F2 0.135 Overall Model

13: R2 0.119 Overall Model

14: Adj R2 0.116 Overall Model

15: AGE f2 = 0.001, p = .367 Effect Sizes

16: GENDER f2 = 0.026, p < .001 Effect Sizes

17: EDUCATION f2 = 0.000, p = .428 Effect Sizes

18: COGNITIVE\_RISK f2 = 0.036, p < .001 Effect Sizes

19: PANDEMIC\_FATIGUE f2 = 0.055, p < .001 Effect Sizes

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

Term Est Type

<char> <char> <char>

1: (Intercept) 6.338\*\*\* [ 6.197, 6.480] Fixed Effects

2: AGE 0.022 [-0.051, 0.094] Fixed Effects

3: GENDERMale -0.299\*\*\* [-0.442, -0.155] Fixed Effects

4: EDUCATIONUniversity - Yes -0.091 [-0.246, 0.063] Fixed Effects

5: COGNITIVE\_RISK 0.240\*\*\* [ 0.167, 0.312] Fixed Effects

6: PANDEMIC\_FATIGUE -0.403\*\*\* [-0.474, -0.331] Fixed Effects

7: N (Observations) 1557 Overall Model

8: logLik DF 7 Overall Model

9: logLik -2766.825 Overall Model

10: AIC 5547.651 Overall Model

11: BIC 5585.105 Overall Model

12: F2 0.134 Overall Model

13: R2 0.118 Overall Model

14: Adj R2 0.116 Overall Model

15: AGE f2 = 0.000, p = .556 Effect Sizes

16: GENDER f2 = 0.011, p < .001 Effect Sizes

17: EDUCATION f2 = 0.001, p = .246 Effect Sizes

18: COGNITIVE\_RISK f2 = 0.027, p < .001 Effect Sizes

19: PANDEMIC\_FATIGUE f2 = 0.078, p < .001 Effect Sizes

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

Term Est Type

<char> <char> <char>

1: (Intercept) 4.942\*\*\* [ 4.797, 5.087] Fixed Effects

2: AGE 0.039 [-0.036, 0.113] Fixed Effects

3: GENDERMale -0.069 [-0.216, 0.079] Fixed Effects

4: EDUCATIONUniversity - Yes 0.275\*\*\* [ 0.117, 0.434] Fixed Effects

5: COGNITIVE\_RISK 0.436\*\*\* [ 0.361, 0.510] Fixed Effects

6: PANDEMIC\_FATIGUE -0.750\*\*\* [-0.824, -0.676] Fixed Effects

7: N (Observations) 1557 Overall Model

8: logLik DF 7 Overall Model

9: logLik -2810.912 Overall Model

10: AIC 5635.824 Overall Model

11: BIC 5673.277 Overall Model

12: F2 0.392 Overall Model

13: R2 0.282 Overall Model

14: Adj R2 0.280 Overall Model

15: AGE f2 = 0.001, p = .308 Effect Sizes

16: GENDER f2 = 0.001, p = .359 Effect Sizes

17: EDUCATION f2 = 0.007, p < .001 Effect Sizes

18: COGNITIVE\_RISK f2 = 0.085, p < .001 Effect Sizes

19: PANDEMIC\_FATIGUE f2 = 0.256, p < .001 Effect Sizes

>