########################################################################################################

> ## The Link between Behavioral/Information 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 + BEHAVIORAL\_FATIGUE + INFORMATION\_FATIGUE, data = USA)

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

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

> IS <- lm(INFORMATION\_SEEKING ~ AGE + GENDER + EDUCATION + COGNITIVE\_RISK + BEHAVIORAL\_FATIGUE + INFORMATION\_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) 6.11 \*\*\* 6.30 \*\*\* 6.34 \*\*\* 4.97 \*\*\*

[5.98, 6.24] [6.18, 6.42] [6.20, 6.48] [4.83, 5.11]

AGE 0.07 \* -0.03 0.02 0.05

[0.00, 0.14] [-0.10, 0.03] [-0.05, 0.09] [-0.02, 0.13]

GENDERMale -0.24 \*\*\* -0.40 \*\*\* -0.30 \*\*\* -0.06

[-0.37, [-0.52, [-0.44, [-0.21, 0.09]

-0.11] -0.28] -0.16]

EDUCATIONUnivers -0.05 -0.03 -0.09 0.23 \*\*

ity - Yes

[-0.20, 0.09] [-0.16, 0.10] [-0.24, 0.07] [0.07, 0.38]

COGNITIVE\_RISK 0.34 \*\*\* 0.25 \*\*\* 0.24 \*\*\* 0.40 \*\*\*

[0.28, 0.41] [0.19, 0.31] [0.17, 0.31] [0.32, 0.47]

BEHAVIORAL\_FATIG -0.32 \*\*\* -0.26 \*\*\* -0.22 \*\*\* -0.12 \*\*

UE

[-0.41, [-0.33, [-0.31, [-0.21,

-0.24] -0.18] -0.13] -0.03]

INFORMATION\_FATI -0.26 \*\*\* -0.07 -0.23 \*\*\* -0.71 \*\*\*

GUE

[-0.35, [-0.14, 0.01] [-0.32, [-0.80,

-0.18] -0.14] -0.62]

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

N 1557 1557 1557 1557

R2 0.21 0.12 0.12 0.30

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

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

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

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

Term Est Type

<char> <char> <char>

1: (Intercept) 6.111\*\*\* [ 5.981, 6.241] Fixed Effects

2: AGE 0.071\* [ 0.005, 0.138] Fixed Effects

3: GENDERMale -0.239\*\*\* [-0.370, -0.107] Fixed Effects

4: EDUCATIONUniversity - Yes -0.054 [-0.196, 0.088] Fixed Effects

5: COGNITIVE\_RISK 0.343\*\*\* [ 0.276, 0.410] Fixed Effects

6: BEHAVIORAL\_FATIGUE -0.325\*\*\* [-0.406, -0.243] Fixed Effects

7: INFORMATION\_FATIGUE -0.265\*\*\* [-0.347, -0.183] Fixed Effects

8: N (Observations) 1557 Overall Model

9: logLik DF 8 Overall Model

10: logLik -2631.678 Overall Model

11: AIC 5279.356 Overall Model

12: BIC 5322.160 Overall Model

13: F2 0.270 Overall Model

14: R2 0.213 Overall Model

15: Adj R2 0.210 Overall Model

16: AGE f2 = 0.003, p = .035 Effect Sizes

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

18: EDUCATION f2 = 0.000, p = .458 Effect Sizes

19: COGNITIVE\_RISK f2 = 0.064, p < .001 Effect Sizes

20: BEHAVIORAL\_FATIGUE f2 = 0.039, p < .001 Effect Sizes

21: INFORMATION\_FATIGUE f2 = 0.026, p < .001 Effect Sizes

Term Est Type

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

Term Est Type

<char> <char> <char>

1: (Intercept) 6.300\*\*\* [ 6.181, 6.420] Fixed Effects

2: AGE -0.035 [-0.096, 0.027] Fixed Effects

3: GENDERMale -0.401\*\*\* [-0.522, -0.280] Fixed Effects

4: EDUCATIONUniversity - Yes -0.033 [-0.164, 0.098] Fixed Effects

5: COGNITIVE\_RISK 0.250\*\*\* [ 0.187, 0.312] Fixed Effects

6: BEHAVIORAL\_FATIGUE -0.258\*\*\* [-0.333, -0.183] Fixed Effects

7: INFORMATION\_FATIGUE -0.067 [-0.143, 0.009] Fixed Effects

8: N (Observations) 1557 Overall Model

9: logLik DF 8 Overall Model

10: logLik -2506.910 Overall Model

11: AIC 5029.821 Overall Model

12: BIC 5072.625 Overall Model

13: F2 0.142 Overall Model

14: R2 0.124 Overall Model

15: Adj R2 0.121 Overall Model

16: AGE f2 = 0.001, p = .268 Effect Sizes

17: GENDER f2 = 0.027, p < .001 Effect Sizes

18: EDUCATION f2 = 0.000, p = .623 Effect Sizes

19: COGNITIVE\_RISK f2 = 0.040, p < .001 Effect Sizes

20: BEHAVIORAL\_FATIGUE f2 = 0.029, p < .001 Effect Sizes

21: INFORMATION\_FATIGUE f2 = 0.002, p = .083 Effect Sizes

Term Est Type

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

Term Est Type

<char> <char> <char>

1: (Intercept) 6.337\*\*\* [ 6.195, 6.479] Fixed Effects

2: AGE 0.021 [-0.052, 0.093] Fixed Effects

3: GENDERMale -0.299\*\*\* [-0.443, -0.156] Fixed Effects

4: EDUCATIONUniversity - Yes -0.089 [-0.244, 0.066] Fixed Effects

5: COGNITIVE\_RISK 0.241\*\*\* [ 0.168, 0.315] Fixed Effects

6: BEHAVIORAL\_FATIGUE -0.223\*\*\* [-0.312, -0.135] Fixed Effects

7: INFORMATION\_FATIGUE -0.229\*\*\* [-0.319, -0.140] Fixed Effects

8: N (Observations) 1557 Overall Model

9: logLik DF 8 Overall Model

10: logLik -2766.766 Overall Model

11: AIC 5549.531 Overall Model

12: BIC 5592.335 Overall Model

13: F2 0.134 Overall Model

14: R2 0.118 Overall Model

15: Adj R2 0.115 Overall Model

16: AGE f2 = 0.000, p = .572 Effect Sizes

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

18: EDUCATION f2 = 0.001, p = .262 Effect Sizes

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

20: BEHAVIORAL\_FATIGUE f2 = 0.016, p < .001 Effect Sizes

21: INFORMATION\_FATIGUE f2 = 0.016, p < .001 Effect Sizes

Term Est Type

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

Term Est Type

<char> <char> <char>

1: (Intercept) 4.971\*\*\* [ 4.827, 5.115] Fixed Effects

2: AGE 0.054 [-0.019, 0.128] Fixed Effects

3: GENDERMale -0.060 [-0.206, 0.086] Fixed Effects

4: EDUCATIONUniversity - Yes 0.227\*\* [ 0.069, 0.384] Fixed Effects

5: COGNITIVE\_RISK 0.399\*\*\* [ 0.325, 0.474] Fixed Effects

6: BEHAVIORAL\_FATIGUE -0.123\*\* [-0.213, -0.033] Fixed Effects

7: INFORMATION\_FATIGUE -0.712\*\*\* [-0.803, -0.621] Fixed Effects

8: N (Observations) 1557 Overall Model

9: logLik DF 8 Overall Model

10: logLik -2790.653 Overall Model

11: AIC 5597.306 Overall Model

12: BIC 5640.111 Overall Model

13: F2 0.429 Overall Model

14: R2 0.300 Overall Model

15: Adj R2 0.298 Overall Model

16: AGE f2 = 0.001, p = .148 Effect Sizes

17: GENDER f2 = 0.000, p = .419 Effect Sizes

18: EDUCATION f2 = 0.005, p = .005 Effect Sizes

19: COGNITIVE\_RISK f2 = 0.071, p < .001 Effect Sizes

20: BEHAVIORAL\_FATIGUE f2 = 0.005, p = .007 Effect Sizes

21: INFORMATION\_FATIGUE f2 = 0.153, p < .001 Effect Sizes

Term Est Type