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

> ## The Link between Pandemic Fatigue and Mask Wearing - Cross-Sectional Data ##

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

>

> # Extract relevant variables

> GER <- subset(G, select = c("GENDER", "EDUCATION", "EMPLOYMENT", "CHRONIC", "MASK\_WEARING", "Wave", "AGE",

+ "PANDEMIC\_FATIGUE", "COGNITIVE\_RISK", "AFFECTIVE\_RISK", "TRUST", "WORRIES",

+ "new\_cases\_smoothed\_per\_million", "new\_deaths\_smoothed\_per\_million",

+ "reproduction\_rate", "stringency\_index"))

>

> DEN <- subset(D, GENDER != "Other", select = c("GENDER", "EDUCATION", "EMPLOYMENT", "CHRONIC", "MASK\_WEARING", "Wave", "AGE", "PANDEMIC\_FATIGUE",

+ "COGNITIVE\_RISK", "AFFECTIVE\_RISK", "TRUST", "WORRIES", "OPTIMISTIC", "NEGATIVE\_AFFECT", "EMPATHY",

+ "HH", "EM", "EX","AG", "CO", "OP", "new\_cases\_smoothed\_per\_million", "new\_deaths\_smoothed\_per\_million",

+ "reproduction\_rate", "stringency\_index"))

>

> # Scale and standardize data

> DEN$Wave <- DEN$Wave-19

> GER$Wave <- GER$Wave-24

> GER[6:16] <- scale(GER[6:16])

> DEN[6:25] <- scale(DEN[6:25])

>

> # Regression analysis controlling only for time - Germany

> MW\_BI\_GER <- lm(MASK\_WEARING ~ Wave + PANDEMIC\_FATIGUE, data = GER)

> summ(MW\_BI\_GER, digits = 3, confint = TRUE)

MODEL INFO:

Observations: 17803 (143 missing obs. deleted)

Dependent Variable: MASK\_WEARING

Type: OLS linear regression

MODEL FIT:

F(2,17800) = 485.937, p = 0.000

R² = 0.052

Adj. R² = 0.052

Standard errors:OLS

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

Est. 2.5% 97.5% t val. p

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

(Intercept) 4.582 4.571 4.593 820.664 0.000

Wave -0.022 -0.033 -0.011 -3.954 0.000

PANDEMIC\_FATIGUE -0.169 -0.181 -0.158 -29.902 0.000

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

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

Term Est Type

<char> <char> <char>

1: (Intercept) 4.582\*\*\* [ 4.571, 4.593] Fixed Effects

2: Wave -0.022\*\*\* [-0.033, -0.011] Fixed Effects

3: PANDEMIC\_FATIGUE -0.169\*\*\* [-0.181, -0.158] Fixed Effects

4: N (Observations) 17803 Overall Model

5: logLik DF 4 Overall Model

6: logLik -20018.115 Overall Model

7: AIC 40044.231 Overall Model

8: BIC 40075.379 Overall Model

9: F2 0.055 Overall Model

10: R2 0.052 Overall Model

11: Adj R2 0.052 Overall Model

12: Wave f2 = 0.001, p < .001 Effect Sizes

13: PANDEMIC\_FATIGUE f2 = 0.050, p < .001 Effect Sizes

>

> # Regression analysis controlling only for time - Denmark

> MW\_BI\_DEN <- lm(MASK\_WEARING ~ Wave + PANDEMIC\_FATIGUE, data = DEN)

> summ(MW\_BI\_DEN, digits = 3, confint = TRUE)

MODEL INFO:

Observations: 15950

Dependent Variable: MASK\_WEARING

Type: OLS linear regression

MODEL FIT:

F(2,15947) = 105.437, p = 0.000

R² = 0.013

Adj. R² = 0.013

Standard errors:OLS

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

Est. 2.5% 97.5% t val. p

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

(Intercept) 2.217 2.197 2.237 214.597 0.000

Wave -0.110 -0.130 -0.090 -10.657 0.000

PANDEMIC\_FATIGUE -0.100 -0.120 -0.080 -9.679 0.000

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

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

Term Est Type

<char> <char> <char>

1: (Intercept) 2.217\*\*\* [ 2.197, 2.237] Fixed Effects

2: Wave -0.110\*\*\* [-0.130, -0.090] Fixed Effects

3: PANDEMIC\_FATIGUE -0.100\*\*\* [-0.120, -0.080] Fixed Effects

4: N (Observations) 15950 Overall Model

5: logLik DF 4 Overall Model

6: logLik -26872.334 Overall Model

7: AIC 53752.668 Overall Model

8: BIC 53783.377 Overall Model

9: F2 0.013 Overall Model

10: R2 0.013 Overall Model

11: Adj R2 0.013 Overall Model

12: Wave f2 = 0.007, p < .001 Effect Sizes

13: PANDEMIC\_FATIGUE f2 = 0.006, p < .001 Effect Sizes

>

> # Model 1 - Mask wearing <- Pandemic fatigue + Emotions + Perception + Sociodemographics + Contextual Factors

> MW\_GER\_1 <- lm(MASK\_WEARING ~ Wave + AGE + GENDER + EDUCATION + EMPLOYMENT + CHRONIC +

+ PANDEMIC\_FATIGUE + COGNITIVE\_RISK + AFFECTIVE\_RISK + TRUST + WORRIES +

+ new\_cases\_smoothed\_per\_million + new\_deaths\_smoothed\_per\_million +

+ reproduction\_rate + stringency\_index, data = GER)

>

> # Model 1 - Mask wearing <- Pandemic fatigue + Emotions + Perception + Sociodemographics + Contextual Factors

> MW\_DEN\_1 <- lm(MASK\_WEARING ~ Wave + AGE + GENDER + EDUCATION + EMPLOYMENT + CHRONIC +

+ PANDEMIC\_FATIGUE + COGNITIVE\_RISK + AFFECTIVE\_RISK + TRUST + WORRIES +

+ new\_cases\_smoothed\_per\_million + new\_deaths\_smoothed\_per\_million +

+ reproduction\_rate + stringency\_index, data = DEN)

>

> # Model 2 - Mask wearing <- Pandemic fatigue + Emotions + Perception + Sociodemographics + Contextual Factors + HEXACO and Additional Emotions

> MW\_DEN\_2 <- lm(MASK\_WEARING ~ Wave + AGE + GENDER + EDUCATION + EMPLOYMENT + CHRONIC +

+ PANDEMIC\_FATIGUE + COGNITIVE\_RISK + AFFECTIVE\_RISK + TRUST + WORRIES +

+ new\_cases\_smoothed\_per\_million + new\_deaths\_smoothed\_per\_million +

+ reproduction\_rate + stringency\_index + OPTIMISTIC + NEGATIVE\_AFFECT +

+ EMPATHY + HH + EM + EX + AG + CO + OP, data = DEN)

>

> # Print results

> export\_summs(MW\_GER\_1, MW\_DEN\_1, MW\_DEN\_2, model.names = c("Mask wearing - GER", "Mask wearing - DEN", "Mask wearing - DEN"), error\_format = "[{conf.low}, {conf.high}]")

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Mask wearing - GER Mask wearing - DEN Mask wearing - DEN

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(Intercept) 4.68 \*\*\* 2.44 \*\*\* 2.48 \*\*\*

[4.63, 4.73] [2.35, 2.52] [2.39, 2.56]

Wave -0.01 -0.05 \*\*\* -0.05 \*\*\*

[-0.03, 0.00] [-0.07, -0.02] [-0.07, -0.02]

AGE 0.04 \*\*\* -0.09 \*\*\* -0.06 \*\*\*

[0.03, 0.06] [-0.11, -0.07] [-0.09, -0.04]

GENDERMale -0.17 \*\*\* -0.24 \*\*\* -0.28 \*\*\*

[-0.20, -0.15] [-0.28, -0.20] [-0.32, -0.23]

EDUCATION> 10 years -0.03 -0.13 \*\*\* -0.15 \*\*\*

[-0.07, 0.01] [-0.21, -0.06] [-0.23, -0.08]

EMPLOYMENTUnemployed -0.00 0.26 \*\*\* 0.23 \*\*\*

[-0.03, 0.02] [0.21, 0.30] [0.19, 0.28]

CHRONICNo 0.00 -0.16 \*\*\* -0.15 \*\*\*

[-0.03, 0.03] [-0.20, -0.11] [-0.19, -0.11]

CHRONICDon´t know -0.04 -0.07 -0.07

[-0.12, 0.03] [-0.18, 0.03] [-0.17, 0.03]

PANDEMIC\_FATIGUE -0.08 \*\*\* -0.11 \*\*\* -0.11 \*\*\*

[-0.10, -0.07] [-0.14, -0.09] [-0.13, -0.09]

COGNITIVE\_RISK -0.03 \*\*\* 0.11 \*\*\* 0.11 \*\*\*

[-0.05, -0.02] [0.09, 0.13] [0.09, 0.13]

AFFECTIVE\_RISK 0.14 \*\*\* 0.10 \*\*\* 0.09 \*\*\*

[0.13, 0.16] [0.08, 0.13] [0.06, 0.11]

TRUST 0.13 \*\*\* -0.00 -0.02

[0.11, 0.14] [-0.02, 0.02] [-0.04, 0.00]

WORRIES 0.09 \*\*\* 0.17 \*\*\* 0.13 \*\*\*

[0.08, 0.11] [0.14, 0.19] [0.11, 0.16]

new\_cases\_smoothed\_p -0.01 0.15 \*\*\* 0.15 \*\*\*

er\_million

[-0.03, 0.00] [0.12, 0.17] [0.12, 0.17]

new\_deaths\_smoothed\_ -0.03 \* -0.24 \*\*\* -0.24 \*\*\*

per\_million

[-0.06, -0.01] [-0.28, -0.20] [-0.27, -0.20]

reproduction\_rate 0.00 -0.11 \*\*\* -0.11 \*\*\*

[-0.01, 0.02] [-0.15, -0.08] [-0.14, -0.08]

stringency\_index 0.07 \*\*\* 0.27 \*\*\* 0.25 \*\*\*

[0.04, 0.09] [0.24, 0.29] [0.23, 0.28]

OPTIMISTIC 0.01

[-0.01, 0.03]

NEGATIVE\_AFFECT 0.06 \*\*\*

[0.03, 0.08]

EMPATHY 0.08 \*\*\*

[0.06, 0.10]

HH -0.08 \*\*\*

[-0.10, -0.06]

EM -0.01

[-0.03, 0.01]

EX -0.00

[-0.03, 0.02]

AG 0.06 \*\*\*

[0.04, 0.08]

CO 0.04 \*\*\*

[0.02, 0.06]

OP 0.06 \*\*\*

[0.04, 0.08]

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

N 13875 15891 15891

R2 0.16 0.13 0.14

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

Column names: names, Mask wearing - GER, Mask wearing - DEN, Mask wearing - DEN

> APAStyler(modelTest(MW\_GER\_1), digits = 3) # Standardized effect sizes model 1 Germany

Term Est Type

<char> <char> <char>

1: (Intercept) 4.680\*\*\* [ 4.635, 4.726] Fixed Effects

2: Wave -0.015 [-0.030, 0.000] Fixed Effects

3: AGE 0.044\*\*\* [ 0.030, 0.057] Fixed Effects

4: GENDERMale -0.173\*\*\* [-0.197, -0.149] Fixed Effects

5: EDUCATION> 10 years -0.030 [-0.070, 0.010] Fixed Effects

6: EMPLOYMENTUnemployed -0.003 [-0.031, 0.025] Fixed Effects

7: CHRONICNo 0.001 [-0.026, 0.027] Fixed Effects

8: CHRONICDon´t know -0.045 [-0.119, 0.030] Fixed Effects

9: PANDEMIC\_FATIGUE -0.083\*\*\* [-0.098, -0.068] Fixed Effects

10: COGNITIVE\_RISK -0.031\*\*\* [-0.045, -0.018] Fixed Effects

11: AFFECTIVE\_RISK 0.142\*\*\* [ 0.127, 0.157] Fixed Effects

12: TRUST 0.128\*\*\* [ 0.114, 0.142] Fixed Effects

13: WORRIES 0.092\*\*\* [ 0.079, 0.106] Fixed Effects

14: new\_cases\_smoothed\_per\_million -0.012 [-0.026, 0.003] Fixed Effects

15: new\_deaths\_smoothed\_per\_million -0.031\* [-0.055, -0.006] Fixed Effects

16: reproduction\_rate 0.003 [-0.013, 0.020] Fixed Effects

17: stringency\_index 0.067\*\*\* [ 0.042, 0.092] Fixed Effects

18: N (Observations) 13875 Overall Model

19: logLik DF 18 Overall Model

20: logLik -15049.738 Overall Model

21: AIC 30135.475 Overall Model

22: BIC 30271.156 Overall Model

23: F2 0.197 Overall Model

24: R2 0.164 Overall Model

25: Adj R2 0.163 Overall Model

26: Wave f2 = 0.000, p = .056 Effect Sizes

27: AGE f2 = 0.003, p < .001 Effect Sizes

28: GENDER f2 = 0.014, p < .001 Effect Sizes

29: EDUCATION f2 = 0.000, p = .141 Effect Sizes

30: EMPLOYMENT f2 = 0.000, p = .818 Effect Sizes

31: CHRONIC f2 = 0.000, p = .477 Effect Sizes

32: PANDEMIC\_FATIGUE f2 = 0.009, p < .001 Effect Sizes

33: COGNITIVE\_RISK f2 = 0.001, p < .001 Effect Sizes

34: AFFECTIVE\_RISK f2 = 0.024, p < .001 Effect Sizes

35: TRUST f2 = 0.023, p < .001 Effect Sizes

36: WORRIES f2 = 0.013, p < .001 Effect Sizes

37: new\_cases\_smoothed\_per\_million f2 = 0.000, p = .116 Effect Sizes

38: new\_deaths\_smoothed\_per\_million f2 = 0.000, p = .014 Effect Sizes

39: reproduction\_rate f2 = 0.000, p = .705 Effect Sizes

40: stringency\_index f2 = 0.002, p < .001 Effect Sizes

Term Est Type

> APAStyler(modelTest(MW\_DEN\_1), digits = 3) # Standardized effect sizes model 1 Denmark

Term Est Type

<char> <char> <char>

1: (Intercept) 2.436\*\*\* [ 2.353, 2.519] Fixed Effects

2: Wave -0.047\*\*\* [-0.074, -0.020] Fixed Effects

3: AGE -0.091\*\*\* [-0.114, -0.069] Fixed Effects

4: GENDERMale -0.244\*\*\* [-0.284, -0.205] Fixed Effects

5: EDUCATION> 10 years -0.133\*\*\* [-0.205, -0.060] Fixed Effects

6: EMPLOYMENTUnemployed 0.257\*\*\* [ 0.213, 0.300] Fixed Effects

7: CHRONICNo -0.156\*\*\* [-0.200, -0.112] Fixed Effects

8: CHRONICDon´t know -0.073 [-0.175, 0.030] Fixed Effects

9: PANDEMIC\_FATIGUE -0.114\*\*\* [-0.136, -0.093] Fixed Effects

10: COGNITIVE\_RISK 0.112\*\*\* [ 0.090, 0.134] Fixed Effects

11: AFFECTIVE\_RISK 0.104\*\*\* [ 0.081, 0.127] Fixed Effects

12: TRUST -0.002 [-0.023, 0.019] Fixed Effects

13: WORRIES 0.165\*\*\* [ 0.144, 0.187] Fixed Effects

14: new\_cases\_smoothed\_per\_million 0.148\*\*\* [ 0.122, 0.173] Fixed Effects

15: new\_deaths\_smoothed\_per\_million -0.239\*\*\* [-0.276, -0.202] Fixed Effects

16: reproduction\_rate -0.113\*\*\* [-0.145, -0.082] Fixed Effects

17: stringency\_index 0.265\*\*\* [ 0.243, 0.288] Fixed Effects

18: N (Observations) 15891 Overall Model

19: logLik DF 18 Overall Model

20: logLik -25813.622 Overall Model

21: AIC 51663.245 Overall Model

22: BIC 51801.368 Overall Model

23: F2 0.143 Overall Model

24: R2 0.125 Overall Model

25: Adj R2 0.125 Overall Model

26: Wave f2 = 0.001, p < .001 Effect Sizes

27: AGE f2 = 0.004, p < .001 Effect Sizes

28: GENDER f2 = 0.009, p < .001 Effect Sizes

29: EDUCATION f2 = 0.001, p < .001 Effect Sizes

30: EMPLOYMENT f2 = 0.008, p < .001 Effect Sizes

31: CHRONIC f2 = 0.003, p < .001 Effect Sizes

32: PANDEMIC\_FATIGUE f2 = 0.007, p < .001 Effect Sizes

33: COGNITIVE\_RISK f2 = 0.006, p < .001 Effect Sizes

34: AFFECTIVE\_RISK f2 = 0.005, p < .001 Effect Sizes

35: TRUST f2 = 0.000, p = .880 Effect Sizes

36: WORRIES f2 = 0.014, p < .001 Effect Sizes

37: new\_cases\_smoothed\_per\_million f2 = 0.008, p < .001 Effect Sizes

38: new\_deaths\_smoothed\_per\_million f2 = 0.010, p < .001 Effect Sizes

39: reproduction\_rate f2 = 0.003, p < .001 Effect Sizes

40: stringency\_index f2 = 0.035, p < .001 Effect Sizes

Term Est Type

> APAStyler(modelTest(MW\_DEN\_2), digits = 3) # Standardized effect sizes model 2 Denmark

Term Est Type

<char> <char> <char>

1: (Intercept) 2.477\*\*\* [ 2.394, 2.560] Fixed Effects

2: Wave -0.047\*\*\* [-0.073, -0.020] Fixed Effects

3: AGE -0.062\*\*\* [-0.086, -0.038] Fixed Effects

4: GENDERMale -0.275\*\*\* [-0.318, -0.233] Fixed Effects

5: EDUCATION> 10 years -0.154\*\*\* [-0.227, -0.082] Fixed Effects

6: EMPLOYMENTUnemployed 0.232\*\*\* [ 0.188, 0.276] Fixed Effects

7: CHRONICNo -0.149\*\*\* [-0.192, -0.105] Fixed Effects

8: CHRONICDon´t know -0.072 [-0.174, 0.030] Fixed Effects

9: PANDEMIC\_FATIGUE -0.110\*\*\* [-0.133, -0.087] Fixed Effects

10: COGNITIVE\_RISK 0.109\*\*\* [ 0.088, 0.131] Fixed Effects

11: AFFECTIVE\_RISK 0.087\*\*\* [ 0.063, 0.111] Fixed Effects

12: TRUST -0.019 [-0.040, 0.003] Fixed Effects

13: WORRIES 0.134\*\*\* [ 0.111, 0.156] Fixed Effects

14: new\_cases\_smoothed\_per\_million 0.147\*\*\* [ 0.121, 0.172] Fixed Effects

15: new\_deaths\_smoothed\_per\_million -0.238\*\*\* [-0.275, -0.201] Fixed Effects

16: reproduction\_rate -0.113\*\*\* [-0.144, -0.082] Fixed Effects

17: stringency\_index 0.254\*\*\* [ 0.232, 0.276] Fixed Effects

18: OPTIMISTIC 0.011 [-0.010, 0.033] Fixed Effects

19: NEGATIVE\_AFFECT 0.058\*\*\* [ 0.034, 0.083] Fixed Effects

20: EMPATHY 0.080\*\*\* [ 0.057, 0.102] Fixed Effects

21: HH -0.083\*\*\* [-0.104, -0.062] Fixed Effects

22: EM -0.009 [-0.031, 0.012] Fixed Effects

23: EX -0.004 [-0.026, 0.018] Fixed Effects

24: AG 0.065\*\*\* [ 0.044, 0.085] Fixed Effects

25: CO 0.041\*\*\* [ 0.020, 0.061] Fixed Effects

26: OP 0.064\*\*\* [ 0.044, 0.084] Fixed Effects

27: N (Observations) 15891 Overall Model

28: logLik DF 27 Overall Model

29: logLik -25698.951 Overall Model

30: AIC 51451.903 Overall Model

31: BIC 51659.087 Overall Model

32: F2 0.160 Overall Model

33: R2 0.138 Overall Model

34: Adj R2 0.137 Overall Model

35: Wave f2 = 0.001, p < .001 Effect Sizes

36: AGE f2 = 0.002, p < .001 Effect Sizes

37: GENDER f2 = 0.010, p < .001 Effect Sizes

38: EDUCATION f2 = 0.001, p < .001 Effect Sizes

39: EMPLOYMENT f2 = 0.007, p < .001 Effect Sizes

40: CHRONIC f2 = 0.003, p < .001 Effect Sizes

41: PANDEMIC\_FATIGUE f2 = 0.006, p < .001 Effect Sizes

42: COGNITIVE\_RISK f2 = 0.006, p < .001 Effect Sizes

43: AFFECTIVE\_RISK f2 = 0.003, p < .001 Effect Sizes

44: TRUST f2 = 0.000, p = .090 Effect Sizes

45: WORRIES f2 = 0.008, p < .001 Effect Sizes

46: new\_cases\_smoothed\_per\_million f2 = 0.008, p < .001 Effect Sizes

47: new\_deaths\_smoothed\_per\_million f2 = 0.010, p < .001 Effect Sizes

48: reproduction\_rate f2 = 0.003, p < .001 Effect Sizes

49: stringency\_index f2 = 0.031, p < .001 Effect Sizes

50: OPTIMISTIC f2 = 0.000, p = .298 Effect Sizes

51: NEGATIVE\_AFFECT f2 = 0.001, p < .001 Effect Sizes

52: EMPATHY f2 = 0.003, p < .001 Effect Sizes

53: HH f2 = 0.004, p < .001 Effect Sizes

54: EM f2 = 0.000, p = .397 Effect Sizes

55: EX f2 = 0.000, p = .742 Effect Sizes

56: AG f2 = 0.002, p < .001 Effect Sizes

57: CO f2 = 0.001, p < .001 Effect Sizes

58: OP f2 = 0.002, p < .001 Effect Sizes

Term Est Type