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

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

>

> # Extract relevant variables

> GER <- subset(G, select = c("GENDER", "EDUCATION", "EMPLOYMENT", "CHRONIC", "HYGIENE", "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", "HYGIENE", "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

> H\_BI\_GER <- lm(HYGIENE ~ Wave + PANDEMIC\_FATIGUE, data = GER)

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

MODEL INFO:

Observations: 8250 (9696 missing obs. deleted)

Dependent Variable: HYGIENE

Type: OLS linear regression

MODEL FIT:

F(2,8247) = 305.988, p = 0.000

R² = 0.069

Adj. R² = 0.069

Standard errors:OLS

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

Est. 2.5% 97.5% t val. p

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(Intercept) 4.136 4.112 4.161 331.405 0.000

Wave 0.014 -0.011 0.038 1.099 0.272

PANDEMIC\_FATIGUE -0.188 -0.203 -0.173 -24.684 0.000

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

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

Term Est Type

<char> <char> <char>

1: (Intercept) 4.136\*\*\* [ 4.112, 4.161] Fixed Effects

2: Wave 0.014 [-0.011, 0.038] Fixed Effects

3: PANDEMIC\_FATIGUE -0.188\*\*\* [-0.203, -0.173] Fixed Effects

4: N (Observations) 8250 Overall Model

5: logLik DF 4 Overall Model

6: logLik -8441.348 Overall Model

7: AIC 16890.696 Overall Model

8: BIC 16918.768 Overall Model

9: F2 0.074 Overall Model

10: R2 0.069 Overall Model

11: Adj R2 0.069 Overall Model

12: Wave f2 = 0.000, p = .272 Effect Sizes

13: PANDEMIC\_FATIGUE f2 = 0.074, p < .001 Effect Sizes

>

> # Regression analysis controlling only for time - Denmark

> H\_BI\_DEN <- lm(HYGIENE ~ Wave + PANDEMIC\_FATIGUE, data = DEN)

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

MODEL INFO:

Observations: 15950

Dependent Variable: HYGIENE

Type: OLS linear regression

MODEL FIT:

F(2,15947) = 487.594, p = 0.000

R² = 0.058

Adj. R² = 0.058

Standard errors:OLS

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

Est. 2.5% 97.5% t val. p

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

(Intercept) 6.158 6.145 6.171 921.793 0.000

Wave -0.107 -0.120 -0.094 -15.979 0.000

PANDEMIC\_FATIGUE -0.177 -0.191 -0.164 -26.552 0.000

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

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

Term Est Type

<char> <char> <char>

1: (Intercept) 6.158\*\*\* [ 6.145, 6.171] Fixed Effects

2: Wave -0.107\*\*\* [-0.120, -0.094] Fixed Effects

3: PANDEMIC\_FATIGUE -0.177\*\*\* [-0.191, -0.164] Fixed Effects

4: N (Observations) 15950 Overall Model

5: logLik DF 4 Overall Model

6: logLik -19920.472 Overall Model

7: AIC 39848.945 Overall Model

8: BIC 39879.654 Overall Model

9: F2 0.061 Overall Model

10: R2 0.058 Overall Model

11: Adj R2 0.058 Overall Model

12: Wave f2 = 0.016, p < .001 Effect Sizes

13: PANDEMIC\_FATIGUE f2 = 0.044, p < .001 Effect Sizes

>

> # Model 1 in Germany - Hygiene <- Pandemic fatigue + Emotions + Perception + Sociodemographics + Contextual Factors

> H\_GER\_1 <- lm(HYGIENE ~ 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 in Denmark - Hygiene <- Pandemic fatigue + Emotions + Perception + Sociodemographics + Contextual Factors

> H\_DEN\_1 <- lm(HYGIENE ~ 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 in Denmark - Hygiene <- Pandemic fatigue + Emotions + Perception + Sociodemographics + Contextual Factors + HEXACO and Additional Emotions

> H\_DEN\_2 <- lm(HYGIENE ~ 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(H\_GER\_1, H\_DEN\_1, H\_DEN\_2, model.names = c("Hygiene - GER", "Hygiene - DEN", "Hygiene - DEN"), error\_format = "[{conf.low}, {conf.high}]")

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Hygiene - GER Hygiene - DEN Hygiene - DEN

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

(Intercept) 4.30 \*\*\* 6.31 \*\*\* 6.31 \*\*\*

[4.18, 4.42] [6.26, 6.37] [6.26, 6.36]

Wave 0.04 -0.05 \*\*\* -0.06 \*\*\*

[-0.09, 0.16] [-0.07, -0.04] [-0.08, -0.04]

AGE 0.10 \*\*\* 0.12 \*\*\* 0.09 \*\*\*

[0.08, 0.11] [0.10, 0.13] [0.07, 0.10]

GENDERMale -0.18 \*\*\* -0.25 \*\*\* -0.20 \*\*\*

[-0.21, -0.15] [-0.27, -0.22] [-0.23, -0.18]

EDUCATION> 10 years -0.06 \* -0.04 -0.06 \*\*

[-0.12, -0.01] [-0.08, 0.01] [-0.11, -0.02]

EMPLOYMENTUnemployed -0.01 -0.03 \* -0.00

[-0.05, 0.03] [-0.06, -0.00] [-0.03, 0.02]

CHRONICNo -0.01 0.01 0.00

[-0.04, 0.03] [-0.02, 0.04] [-0.03, 0.03]

CHRONICDon´t know -0.16 \*\* -0.02 0.03

[-0.26, -0.06] [-0.08, 0.04] [-0.04, 0.09]

PANDEMIC\_FATIGUE -0.11 \*\*\* -0.09 \*\*\* -0.04 \*\*\*

[-0.13, -0.09] [-0.10, -0.07] [-0.06, -0.03]

COGNITIVE\_RISK 0.02 0.03 \*\*\* 0.04 \*\*\*

[-0.00, 0.03] [0.02, 0.05] [0.03, 0.06]

AFFECTIVE\_RISK 0.06 \*\*\* 0.12 \*\*\* 0.10 \*\*\*

[0.04, 0.08] [0.10, 0.13] [0.09, 0.12]

TRUST 0.10 \*\*\* 0.15 \*\*\* 0.11 \*\*\*

[0.08, 0.12] [0.14, 0.17] [0.10, 0.12]

WORRIES 0.12 \*\*\* 0.12 \*\*\* 0.08 \*\*\*

[0.10, 0.14] [0.11, 0.14] [0.07, 0.09]

new\_cases\_smoothed\_p -0.02 -0.01 -0.01

er\_million

[-0.04, 0.01] [-0.03, 0.01] [-0.03, 0.00]

new\_deaths\_smoothed\_ 0.03 -0.03 \* -0.02 \*

per\_million

[-0.02, 0.07] [-0.05, -0.00] [-0.05, -0.00]

reproduction\_rate 0.01 -0.00 -0.00

[-0.03, 0.05] [-0.02, 0.02] [-0.02, 0.02]

stringency\_index -0.03 0.04 \*\*\* 0.03 \*\*\*

[-0.11, 0.05] [0.03, 0.06] [0.02, 0.05]

OPTIMISTIC 0.02 \*\*

[0.01, 0.03]

NEGATIVE\_AFFECT 0.01

[-0.00, 0.03]

EMPATHY 0.13 \*\*\*

[0.12, 0.15]

HH 0.03 \*\*\*

[0.02, 0.05]

EM -0.01

[-0.02, 0.01]

EX 0.07 \*\*\*

[0.05, 0.08]

AG 0.03 \*\*\*

[0.02, 0.04]

CO 0.11 \*\*\*

[0.10, 0.12]

OP 0.04 \*\*\*

[0.02, 0.05]

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N 6462 15891 15891

R2 0.20 0.20 0.26

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

Column names: names, Hygiene - GER, Hygiene - DEN, Hygiene - DEN

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

Term Est Type

<char> <char> <char>

1: (Intercept) 4.299\*\*\* [ 4.182, 4.416] Fixed Effects

2: Wave 0.036 [-0.088, 0.161] Fixed Effects

3: AGE 0.097\*\*\* [ 0.079, 0.115] Fixed Effects

4: GENDERMale -0.182\*\*\* [-0.213, -0.150] Fixed Effects

5: EDUCATION> 10 years -0.064\* [-0.115, -0.013] Fixed Effects

6: EMPLOYMENTUnemployed -0.009 [-0.046, 0.027] Fixed Effects

7: CHRONICNo -0.007 [-0.042, 0.028] Fixed Effects

8: CHRONICDon´t know -0.161\*\* [-0.257, -0.064] Fixed Effects

9: PANDEMIC\_FATIGUE -0.114\*\*\* [-0.133, -0.094] Fixed Effects

10: COGNITIVE\_RISK 0.017 [ 0.000, 0.034] Fixed Effects

11: AFFECTIVE\_RISK 0.060\*\*\* [ 0.040, 0.080] Fixed Effects

12: TRUST 0.099\*\*\* [ 0.081, 0.118] Fixed Effects

13: WORRIES 0.123\*\*\* [ 0.105, 0.140] Fixed Effects

14: new\_cases\_smoothed\_per\_million -0.015 [-0.044, 0.013] Fixed Effects

15: new\_deaths\_smoothed\_per\_million 0.026 [-0.020, 0.073] Fixed Effects

16: reproduction\_rate 0.008 [-0.029, 0.045] Fixed Effects

17: stringency\_index -0.033 [-0.111, 0.045] Fixed Effects

18: N (Observations) 6462 Overall Model

19: logLik DF 18 Overall Model

20: logLik -6204.940 Overall Model

21: AIC 12445.879 Overall Model

22: BIC 12567.806 Overall Model

23: F2 0.248 Overall Model

24: R2 0.198 Overall Model

25: Adj R2 0.196 Overall Model

26: Wave f2 = 0.000, p = .566 Effect Sizes

27: AGE f2 = 0.017, p < .001 Effect Sizes

28: GENDER f2 = 0.020, p < .001 Effect Sizes

29: EDUCATION f2 = 0.001, p = .015 Effect Sizes

30: EMPLOYMENT f2 = 0.000, p = .627 Effect Sizes

31: CHRONIC f2 = 0.002, p = .004 Effect Sizes

32: PANDEMIC\_FATIGUE f2 = 0.021, p < .001 Effect Sizes

33: COGNITIVE\_RISK f2 = 0.001, p = .055 Effect Sizes

34: AFFECTIVE\_RISK f2 = 0.006, p < .001 Effect Sizes

35: TRUST f2 = 0.018, p < .001 Effect Sizes

36: WORRIES f2 = 0.028, p < .001 Effect Sizes

37: new\_cases\_smoothed\_per\_million f2 = 0.000, p = .290 Effect Sizes

38: new\_deaths\_smoothed\_per\_million f2 = 0.000, p = .264 Effect Sizes

39: reproduction\_rate f2 = 0.000, p = .671 Effect Sizes

40: stringency\_index f2 = 0.000, p = .406 Effect Sizes

Term Est Type

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

Term Est Type

<char> <char> <char>

1: (Intercept) 6.315\*\*\* [ 6.262, 6.367] Fixed Effects

2: Wave -0.054\*\*\* [-0.071, -0.037] Fixed Effects

3: AGE 0.119\*\*\* [ 0.105, 0.133] Fixed Effects

4: GENDERMale -0.250\*\*\* [-0.275, -0.225] Fixed Effects

5: EDUCATION> 10 years -0.038 [-0.084, 0.008] Fixed Effects

6: EMPLOYMENTUnemployed -0.030\* [-0.057, -0.003] Fixed Effects

7: CHRONICNo 0.010 [-0.018, 0.038] Fixed Effects

8: CHRONICDon´t know -0.020 [-0.085, 0.045] Fixed Effects

9: PANDEMIC\_FATIGUE -0.085\*\*\* [-0.099, -0.072] Fixed Effects

10: COGNITIVE\_RISK 0.035\*\*\* [ 0.021, 0.049] Fixed Effects

11: AFFECTIVE\_RISK 0.118\*\*\* [ 0.104, 0.132] Fixed Effects

12: TRUST 0.154\*\*\* [ 0.141, 0.168] Fixed Effects

13: WORRIES 0.124\*\*\* [ 0.111, 0.138] Fixed Effects

14: new\_cases\_smoothed\_per\_million -0.009 [-0.025, 0.007] Fixed Effects

15: new\_deaths\_smoothed\_per\_million -0.027\* [-0.050, -0.003] Fixed Effects

16: reproduction\_rate -0.003 [-0.023, 0.017] Fixed Effects

17: stringency\_index 0.043\*\*\* [ 0.029, 0.057] Fixed Effects

18: N (Observations) 15891 Overall Model

19: logLik DF 18 Overall Model

20: logLik -18532.770 Overall Model

21: AIC 37101.540 Overall Model

22: BIC 37239.664 Overall Model

23: F2 0.253 Overall Model

24: R2 0.202 Overall Model

25: Adj R2 0.201 Overall Model

26: Wave f2 = 0.002, p < .001 Effect Sizes

27: AGE f2 = 0.017, p < .001 Effect Sizes

28: GENDER f2 = 0.024, p < .001 Effect Sizes

29: EDUCATION f2 = 0.000, p = .103 Effect Sizes

30: EMPLOYMENT f2 = 0.000, p = .032 Effect Sizes

31: CHRONIC f2 = 0.000, p = .539 Effect Sizes

32: PANDEMIC\_FATIGUE f2 = 0.010, p < .001 Effect Sizes

33: COGNITIVE\_RISK f2 = 0.002, p < .001 Effect Sizes

34: AFFECTIVE\_RISK f2 = 0.016, p < .001 Effect Sizes

35: TRUST f2 = 0.033, p < .001 Effect Sizes

36: WORRIES f2 = 0.020, p < .001 Effect Sizes

37: new\_cases\_smoothed\_per\_million f2 = 0.000, p = .265 Effect Sizes

38: new\_deaths\_smoothed\_per\_million f2 = 0.000, p = .026 Effect Sizes

39: reproduction\_rate f2 = 0.000, p = .776 Effect Sizes

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

Term Est Type

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

Term Est Type

<char> <char> <char>

1: (Intercept) 6.309\*\*\* [ 6.258, 6.360] Fixed Effects

2: Wave -0.059\*\*\* [-0.075, -0.043] Fixed Effects

3: AGE 0.089\*\*\* [ 0.074, 0.103] Fixed Effects

4: GENDERMale -0.203\*\*\* [-0.229, -0.177] Fixed Effects

5: EDUCATION> 10 years -0.063\*\* [-0.107, -0.018] Fixed Effects

6: EMPLOYMENTUnemployed -0.005 [-0.032, 0.022] Fixed Effects

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

8: CHRONICDon´t know 0.027 [-0.035, 0.090] Fixed Effects

9: PANDEMIC\_FATIGUE -0.044\*\*\* [-0.058, -0.030] Fixed Effects

10: COGNITIVE\_RISK 0.045\*\*\* [ 0.032, 0.058] Fixed Effects

11: AFFECTIVE\_RISK 0.102\*\*\* [ 0.087, 0.116] Fixed Effects

12: TRUST 0.108\*\*\* [ 0.095, 0.122] Fixed Effects

13: WORRIES 0.079\*\*\* [ 0.065, 0.093] Fixed Effects

14: new\_cases\_smoothed\_per\_million -0.012 [-0.028, 0.003] Fixed Effects

15: new\_deaths\_smoothed\_per\_million -0.023\* [-0.045, 0.000] Fixed Effects

16: reproduction\_rate -0.003 [-0.022, 0.016] Fixed Effects

17: stringency\_index 0.035\*\*\* [ 0.021, 0.048] Fixed Effects

18: OPTIMISTIC 0.022\*\* [ 0.008, 0.035] Fixed Effects

19: NEGATIVE\_AFFECT 0.011 [-0.004, 0.026] Fixed Effects

20: EMPATHY 0.134\*\*\* [ 0.120, 0.148] Fixed Effects

21: HH 0.034\*\*\* [ 0.021, 0.046] Fixed Effects

22: EM -0.008 [-0.021, 0.006] Fixed Effects

23: EX 0.067\*\*\* [ 0.054, 0.081] Fixed Effects

24: AG 0.030\*\*\* [ 0.018, 0.043] Fixed Effects

25: CO 0.111\*\*\* [ 0.098, 0.123] Fixed Effects

26: OP 0.036\*\*\* [ 0.023, 0.048] Fixed Effects

27: N (Observations) 15891 Overall Model

28: logLik DF 27 Overall Model

29: logLik -17920.833 Overall Model

30: AIC 35895.665 Overall Model

31: BIC 36102.850 Overall Model

32: F2 0.354 Overall Model

33: R2 0.261 Overall Model

34: Adj R2 0.260 Overall Model

35: Wave f2 = 0.003, p < .001 Effect Sizes

36: AGE f2 = 0.009, p < .001 Effect Sizes

37: GENDER f2 = 0.015, p < .001 Effect Sizes

38: EDUCATION f2 = 0.000, p = .006 Effect Sizes

39: EMPLOYMENT f2 = 0.000, p = .718 Effect Sizes

40: CHRONIC f2 = 0.000, p = .676 Effect Sizes

41: PANDEMIC\_FATIGUE f2 = 0.002, p < .001 Effect Sizes

42: COGNITIVE\_RISK f2 = 0.003, p < .001 Effect Sizes

43: AFFECTIVE\_RISK f2 = 0.011, p < .001 Effect Sizes

44: TRUST f2 = 0.016, p < .001 Effect Sizes

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

46: new\_cases\_smoothed\_per\_million f2 = 0.000, p = .120 Effect Sizes

47: new\_deaths\_smoothed\_per\_million f2 = 0.000, p = .048 Effect Sizes

48: reproduction\_rate f2 = 0.000, p = .758 Effect Sizes

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

50: OPTIMISTIC f2 = 0.001, p = .001 Effect Sizes

51: NEGATIVE\_AFFECT f2 = 0.000, p = .151 Effect Sizes

52: EMPATHY f2 = 0.022, p < .001 Effect Sizes

53: HH f2 = 0.002, p < .001 Effect Sizes

54: EM f2 = 0.000, p = .263 Effect Sizes

55: EX f2 = 0.006, p < .001 Effect Sizes

56: AG f2 = 0.001, p < .001 Effect Sizes

57: CO f2 = 0.019, p < .001 Effect Sizes

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

Term Est Type

>