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

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

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

>

> # Extract relevant variables

> GER <- subset(G, select = c("GENDER", "EDUCATION", "EMPLOYMENT", "CHRONIC", "PHYSICAL\_DISTANCING", "Wave",

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

+ "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", "PHYSICAL\_DISTANCING", "Wave", "AGE", "COGNITIVE\_RISK",

+ "AFFECTIVE\_RISK", "TRUST", "WORRIES", "OPTIMISTIC", "NEGATIVE\_AFFECT", "EMPATHY", "HH", "EM", "EX",

+ "AG", "CO", "OP", "PANDEMIC\_FATIGUE", "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

> PD\_BI\_GER <- lm(PHYSICAL\_DISTANCING ~ Wave + PANDEMIC\_FATIGUE, data = GER)

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

MODEL INFO:

Observations: 14555 (3391 missing obs. deleted)

Dependent Variable: PHYSICAL\_DISTANCING

Type: OLS linear regression

MODEL FIT:

F(2,14552) = 978.310, p = 0.000

R² = 0.119

Adj. R² = 0.118

Standard errors:OLS

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

Est. 2.5% 97.5% t val. p

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

(Intercept) 4.232 4.220 4.243 740.292 0.000

Wave -0.079 -0.090 -0.067 -13.313 0.000

PANDEMIC\_FATIGUE -0.234 -0.246 -0.223 -39.693 0.000

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

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

Term Est Type

<char> <char> <char>

1: (Intercept) 4.232\*\*\* [ 4.220, 4.243] Fixed Effects

2: Wave -0.079\*\*\* [-0.090, -0.067] Fixed Effects

3: PANDEMIC\_FATIGUE -0.234\*\*\* [-0.246, -0.223] Fixed Effects

4: N (Observations) 14555 Overall Model

5: logLik DF 4 Overall Model

6: logLik -15221.173 Overall Model

7: AIC 30450.346 Overall Model

8: BIC 30480.689 Overall Model

9: F2 0.134 Overall Model

10: R2 0.119 Overall Model

11: Adj R2 0.118 Overall Model

12: Wave f2 = 0.012, p < .001 Effect Sizes

13: PANDEMIC\_FATIGUE f2 = 0.108, p < .001 Effect Sizes

>

> # Regression analysis controlling only for time - Denmark

> PD\_BI\_DEN <- lm(PHYSICAL\_DISTANCING ~ Wave + PANDEMIC\_FATIGUE, data = DEN)

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

MODEL INFO:

Observations: 15950

Dependent Variable: PHYSICAL\_DISTANCING

Type: OLS linear regression

MODEL FIT:

F(2,15947) = 1206.147, p = 0.000

R² = 0.131

Adj. R² = 0.131

Standard errors:OLS

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

Est. 2.5% 97.5% t val. p

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

(Intercept) 6.281 6.266 6.296 823.990 0.000

Wave -0.315 -0.330 -0.300 -41.324 0.000

PANDEMIC\_FATIGUE -0.197 -0.212 -0.182 -25.830 0.000

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

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

Term Est Type

<char> <char> <char>

1: (Intercept) 6.281\*\*\* [ 6.266, 6.296] Fixed Effects

2: Wave -0.315\*\*\* [-0.330, -0.300] Fixed Effects

3: PANDEMIC\_FATIGUE -0.197\*\*\* [-0.212, -0.182] Fixed Effects

4: N (Observations) 15950 Overall Model

5: logLik DF 4 Overall Model

6: logLik -22023.564 Overall Model

7: AIC 44055.128 Overall Model

8: BIC 44085.837 Overall Model

9: F2 0.151 Overall Model

10: R2 0.131 Overall Model

11: Adj R2 0.131 Overall Model

12: Wave f2 = 0.107, p < .001 Effect Sizes

13: PANDEMIC\_FATIGUE f2 = 0.042, p < .001 Effect Sizes

>

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

> PD\_GER\_1 <- lm(PHYSICAL\_DISTANCING ~ 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 - Physical distancing <- Pandemic fatigue + Emotions + Perception + Sociodemographics + Contextual Factors

> PD\_DEN\_1 <- lm(PHYSICAL\_DISTANCING ~ 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 - Physical distancing <- Pandemic fatigue + Emotions + Perception + Sociodemographics + Contextual Factors + HEXACO and Additional Emotions

> PD\_DEN\_2 <- lm(PHYSICAL\_DISTANCING ~ 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(PD\_GER\_1, PD\_DEN\_1, PD\_DEN\_2, model.names = c("Physical distancing - GER", "Physical distancing - DEN", "Physical distancing - DEN"), error\_format = "[{conf.low}, {conf.high}]")

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

Physical distancing Physical distancing Physical distancing

- GER - DEN - DEN

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

(Intercept) 4.31 \*\*\* 6.32 \*\*\* 6.33 \*\*\*

[4.27, 4.35] [6.26, 6.38] [6.27, 6.39]

Wave -0.09 \*\*\* -0.23 \*\*\* -0.24 \*\*\*

[-0.10, -0.07] [-0.25, -0.21] [-0.26, -0.22]

AGE 0.13 \*\*\* 0.11 \*\*\* 0.10 \*\*\*

[0.11, 0.14] [0.10, 0.13] [0.09, 0.12]

GENDERMale -0.16 \*\*\* -0.09 \*\*\* -0.07 \*\*\*

[-0.18, -0.13] [-0.11, -0.06] [-0.10, -0.04]

EDUCATION> 10 years -0.03 0.01 -0.01

[-0.07, 0.01] [-0.04, 0.07] [-0.06, 0.04]

EMPLOYMENTUnemployed 0.04 \*\* -0.01 -0.02

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

CHRONICNo -0.03 \* -0.00 0.00

[-0.05, -0.00] [-0.03, 0.03] [-0.03, 0.03]

CHRONICDon´t know -0.14 \*\*\* -0.03 -0.01

[-0.21, -0.07] [-0.11, 0.04] [-0.08, 0.06]

PANDEMIC\_FATIGUE -0.13 \*\*\* -0.11 \*\*\* -0.09 \*\*\*

[-0.14, -0.12] [-0.13, -0.10] [-0.10, -0.07]

COGNITIVE\_RISK 0.00 0.03 \*\*\* 0.04 \*\*\*

[-0.01, 0.01] [0.02, 0.05] [0.02, 0.05]

AFFECTIVE\_RISK 0.16 \*\*\* 0.17 \*\*\* 0.14 \*\*\*

[0.15, 0.18] [0.15, 0.18] [0.12, 0.15]

TRUST 0.12 \*\*\* 0.16 \*\*\* 0.13 \*\*\*

[0.11, 0.13] [0.14, 0.17] [0.11, 0.14]

WORRIES 0.09 \*\*\* 0.06 \*\*\* 0.01

[0.08, 0.11] [0.04, 0.08] [-0.00, 0.03]

new\_cases\_smoothed\_p -0.01 0.01 0.01

er\_million

[-0.02, 0.01] [-0.01, 0.03] [-0.01, 0.03]

new\_deaths\_smoothed\_ -0.07 \*\*\* -0.07 \*\*\* -0.07 \*\*\*

per\_million

[-0.09, -0.05] [-0.10, -0.04] [-0.09, -0.04]

reproduction\_rate -0.02 \*\* -0.01 -0.01

[-0.04, -0.01] [-0.03, 0.02] [-0.03, 0.01]

stringency\_index 0.18 \*\*\* 0.24 \*\*\* 0.23 \*\*\*

[0.15, 0.20] [0.22, 0.25] [0.21, 0.24]

OPTIMISTIC 0.01

[-0.00, 0.03]

NEGATIVE\_AFFECT 0.03 \*\*\*

[0.02, 0.05]

EMPATHY 0.15 \*\*\*

[0.13, 0.16]

HH 0.05 \*\*\*

[0.04, 0.07]

EM -0.03 \*\*\*

[-0.05, -0.02]

EX -0.02 \*\*

[-0.04, -0.01]

AG -0.00

[-0.02, 0.01]

CO 0.08 \*\*\*

[0.07, 0.10]

OP 0.05 \*\*\*

[0.03, 0.06]

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

N 11652 15891 15891

R2 0.32 0.26 0.29

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

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

Column names: names, Physical distancing - GER, Physical distancing - DEN, Physical distancing

- DEN

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

Term Est Type

<char> <char> <char>

1: (Intercept) 4.309\*\*\* [ 4.265, 4.352] Fixed Effects

2: Wave -0.087\*\*\* [-0.101, -0.072] Fixed Effects

3: AGE 0.125\*\*\* [ 0.112, 0.138] Fixed Effects

4: GENDERMale -0.157\*\*\* [-0.180, -0.134] Fixed Effects

5: EDUCATION> 10 years -0.033 [-0.072, 0.005] Fixed Effects

6: EMPLOYMENTUnemployed 0.044\*\* [ 0.017, 0.070] Fixed Effects

7: CHRONICNo -0.028\* [-0.054, -0.002] Fixed Effects

8: CHRONICDon´t know -0.141\*\*\* [-0.213, -0.070] Fixed Effects

9: PANDEMIC\_FATIGUE -0.130\*\*\* [-0.144, -0.116] Fixed Effects

10: COGNITIVE\_RISK 0.000 [-0.012, 0.013] Fixed Effects

11: AFFECTIVE\_RISK 0.162\*\*\* [ 0.147, 0.176] Fixed Effects

12: TRUST 0.120\*\*\* [ 0.106, 0.133] Fixed Effects

13: WORRIES 0.095\*\*\* [ 0.082, 0.108] Fixed Effects

14: new\_cases\_smoothed\_per\_million -0.006 [-0.020, 0.007] Fixed Effects

15: new\_deaths\_smoothed\_per\_million -0.069\*\*\* [-0.092, -0.046] Fixed Effects

16: reproduction\_rate -0.024\*\* [-0.040, -0.008] Fixed Effects

17: stringency\_index 0.176\*\*\* [ 0.153, 0.200] Fixed Effects

18: N (Observations) 11652 Overall Model

19: logLik DF 18 Overall Model

20: logLik -10979.940 Overall Model

21: AIC 21995.880 Overall Model

22: BIC 22128.418 Overall Model

23: F2 0.467 Overall Model

24: R2 0.318 Overall Model

25: Adj R2 0.317 Overall Model

26: Wave f2 = 0.011, p < .001 Effect Sizes

27: AGE f2 = 0.031, p < .001 Effect Sizes

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

29: EDUCATION f2 = 0.000, p = .089 Effect Sizes

30: EMPLOYMENT f2 = 0.001, p = .001 Effect Sizes

31: CHRONIC f2 = 0.001, p < .001 Effect Sizes

32: PANDEMIC\_FATIGUE f2 = 0.029, p < .001 Effect Sizes

33: COGNITIVE\_RISK f2 = 0.000, p = .943 Effect Sizes

34: AFFECTIVE\_RISK f2 = 0.041, p < .001 Effect Sizes

35: TRUST f2 = 0.026, p < .001 Effect Sizes

36: WORRIES f2 = 0.018, p < .001 Effect Sizes

37: new\_cases\_smoothed\_per\_million f2 = 0.000, p = .364 Effect Sizes

38: new\_deaths\_smoothed\_per\_million f2 = 0.003, p < .001 Effect Sizes

39: reproduction\_rate f2 = 0.001, p = .003 Effect Sizes

40: stringency\_index f2 = 0.018, p < .001 Effect Sizes

Term Est Type

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

Term Est Type

<char> <char> <char>

1: (Intercept) 6.316\*\*\* [ 6.256, 6.376] Fixed Effects

2: Wave -0.231\*\*\* [-0.250, -0.211] Fixed Effects

3: AGE 0.114\*\*\* [ 0.098, 0.130] Fixed Effects

4: GENDERMale -0.085\*\*\* [-0.114, -0.057] Fixed Effects

5: EDUCATION> 10 years 0.014 [-0.038, 0.067] Fixed Effects

6: EMPLOYMENTUnemployed -0.014 [-0.046, 0.017] Fixed Effects

7: CHRONICNo -0.003 [-0.034, 0.029] Fixed Effects

8: CHRONICDon´t know -0.032 [-0.106, 0.042] Fixed Effects

9: PANDEMIC\_FATIGUE -0.115\*\*\* [-0.130, -0.099] Fixed Effects

10: COGNITIVE\_RISK 0.032\*\*\* [ 0.016, 0.047] Fixed Effects

11: AFFECTIVE\_RISK 0.168\*\*\* [ 0.152, 0.185] Fixed Effects

12: TRUST 0.156\*\*\* [ 0.141, 0.171] Fixed Effects

13: WORRIES 0.060\*\*\* [ 0.044, 0.075] Fixed Effects

14: new\_cases\_smoothed\_per\_million 0.013 [-0.005, 0.032] Fixed Effects

15: new\_deaths\_smoothed\_per\_million -0.071\*\*\* [-0.098, -0.045] Fixed Effects

16: reproduction\_rate -0.007 [-0.030, 0.015] Fixed Effects

17: stringency\_index 0.238\*\*\* [ 0.222, 0.254] Fixed Effects

18: N (Observations) 15891 Overall Model

19: logLik DF 18 Overall Model

20: logLik -20691.057 Overall Model

21: AIC 41418.115 Overall Model

22: BIC 41556.238 Overall Model

23: F2 0.349 Overall Model

24: R2 0.259 Overall Model

25: Adj R2 0.258 Overall Model

26: Wave f2 = 0.034, p < .001 Effect Sizes

27: AGE f2 = 0.012, p < .001 Effect Sizes

28: GENDER f2 = 0.002, p < .001 Effect Sizes

29: EDUCATION f2 = 0.000, p = .600 Effect Sizes

30: EMPLOYMENT f2 = 0.000, p = .366 Effect Sizes

31: CHRONIC f2 = 0.000, p = .697 Effect Sizes

32: PANDEMIC\_FATIGUE f2 = 0.013, p < .001 Effect Sizes

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

34: AFFECTIVE\_RISK f2 = 0.025, p < .001 Effect Sizes

35: TRUST f2 = 0.025, p < .001 Effect Sizes

36: WORRIES f2 = 0.004, p < .001 Effect Sizes

37: new\_cases\_smoothed\_per\_million f2 = 0.000, p = .163 Effect Sizes

38: new\_deaths\_smoothed\_per\_million f2 = 0.002, p < .001 Effect Sizes

39: reproduction\_rate f2 = 0.000, p = .525 Effect Sizes

40: stringency\_index f2 = 0.054, p < .001 Effect Sizes

Term Est Type

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

Term Est Type

<char> <char> <char>

1: (Intercept) 6.327\*\*\* [ 6.267, 6.386] Fixed Effects

2: Wave -0.236\*\*\* [-0.255, -0.217] Fixed Effects

3: AGE 0.104\*\*\* [ 0.087, 0.122] Fixed Effects

4: GENDERMale -0.073\*\*\* [-0.104, -0.043] Fixed Effects

5: EDUCATION> 10 years -0.007 [-0.059, 0.045] Fixed Effects

6: EMPLOYMENTUnemployed -0.015 [-0.047, 0.016] Fixed Effects

7: CHRONICNo 0.002 [-0.029, 0.033] Fixed Effects

8: CHRONICDon´t know -0.008 [-0.081, 0.065] Fixed Effects

9: PANDEMIC\_FATIGUE -0.086\*\*\* [-0.102, -0.070] Fixed Effects

10: COGNITIVE\_RISK 0.036\*\*\* [ 0.021, 0.052] Fixed Effects

11: AFFECTIVE\_RISK 0.137\*\*\* [ 0.120, 0.154] Fixed Effects

12: TRUST 0.127\*\*\* [ 0.111, 0.142] Fixed Effects

13: WORRIES 0.014 [-0.003, 0.030] Fixed Effects

14: new\_cases\_smoothed\_per\_million 0.009 [-0.009, 0.028] Fixed Effects

15: new\_deaths\_smoothed\_per\_million -0.067\*\*\* [-0.093, -0.041] Fixed Effects

16: reproduction\_rate -0.009 [-0.031, 0.014] Fixed Effects

17: stringency\_index 0.225\*\*\* [ 0.209, 0.241] Fixed Effects

18: OPTIMISTIC 0.013 [-0.003, 0.028] Fixed Effects

19: NEGATIVE\_AFFECT 0.033\*\*\* [ 0.015, 0.050] Fixed Effects

20: EMPATHY 0.146\*\*\* [ 0.130, 0.162] Fixed Effects

21: HH 0.053\*\*\* [ 0.038, 0.068] Fixed Effects

22: EM -0.031\*\*\* [-0.047, -0.016] Fixed Effects

23: EX -0.022\*\* [-0.038, -0.007] Fixed Effects

24: AG -0.002 [-0.016, 0.013] Fixed Effects

25: CO 0.085\*\*\* [ 0.070, 0.099] Fixed Effects

26: OP 0.045\*\*\* [ 0.031, 0.060] Fixed Effects

27: N (Observations) 15891 Overall Model

28: logLik DF 27 Overall Model

29: logLik -20385.869 Overall Model

30: AIC 40825.739 Overall Model

31: BIC 41032.924 Overall Model

32: F2 0.402 Overall Model

33: R2 0.287 Overall Model

34: Adj R2 0.286 Overall Model

35: Wave f2 = 0.037, p < .001 Effect Sizes

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

37: GENDER f2 = 0.001, p < .001 Effect Sizes

38: EDUCATION f2 = 0.000, p = .783 Effect Sizes

39: EMPLOYMENT f2 = 0.000, p = .334 Effect Sizes

40: CHRONIC f2 = 0.000, p = .955 Effect Sizes

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

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

43: AFFECTIVE\_RISK f2 = 0.015, p < .001 Effect Sizes

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

45: WORRIES f2 = 0.000, p = .099 Effect Sizes

46: new\_cases\_smoothed\_per\_million f2 = 0.000, p = .308 Effect Sizes

47: new\_deaths\_smoothed\_per\_million f2 = 0.002, p < .001 Effect Sizes

48: reproduction\_rate f2 = 0.000, p = .436 Effect Sizes

49: stringency\_index f2 = 0.048, p < .001 Effect Sizes

50: OPTIMISTIC f2 = 0.000, p = .105 Effect Sizes

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

52: EMPATHY f2 = 0.019, p < .001 Effect Sizes

53: HH f2 = 0.003, p < .001 Effect Sizes

54: EM f2 = 0.001, p < .001 Effect Sizes

55: EX f2 = 0.000, p = .005 Effect Sizes

56: AG f2 = 0.000, p = .809 Effect Sizes

57: CO f2 = 0.008, p < .001 Effect Sizes

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

Term Est Type

>