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> ## Scale Development and Validation - Cronbach´s Alpha ##

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> # Alpha full pandemic fatigue scale - Germany

> psych::alpha(data.frame(GER\_CFA[c("PANDEMIC\_FATIGUE\_1\_INF", "PANDEMIC\_FATIGUE\_3\_INF", "PANDEMIC\_FATIGUE\_5\_INF",

+ "PANDEMIC\_FATIGUE\_2\_MB", "PANDEMIC\_FATIGUE\_4\_MB", "PANDEMIC\_FATIGUE\_6\_MB")]), check.keys=TRUE)

Reliability analysis

Call: psych::alpha(x = data.frame(GER\_CFA[c("PANDEMIC\_FATIGUE\_1\_INF",

"PANDEMIC\_FATIGUE\_3\_INF", "PANDEMIC\_FATIGUE\_5\_INF", "PANDEMIC\_FATIGUE\_2\_MB",

"PANDEMIC\_FATIGUE\_4\_MB", "PANDEMIC\_FATIGUE\_6\_MB")]), check.keys = TRUE)

raw\_alpha std.alpha G6(smc) average\_r S/N ase mean sd median\_r

0.86 0.86 0.85 0.51 6.3 0.0016 3.7 1.5 0.51

95% confidence boundaries

lower alpha upper

Feldt 0.86 0.86 0.87

Duhachek 0.86 0.86 0.87

Reliability if an item is dropped:

raw\_alpha std.alpha G6(smc) average\_r S/N alpha se var.r med.r

PANDEMIC\_FATIGUE\_1\_INF 0.84 0.84 0.81 0.50 5.1 0.0019 0.0034 0.52

PANDEMIC\_FATIGUE\_3\_INF 0.82 0.82 0.80 0.48 4.7 0.0021 0.0032 0.48

PANDEMIC\_FATIGUE\_5\_INF 0.84 0.84 0.83 0.51 5.3 0.0019 0.0092 0.52

PANDEMIC\_FATIGUE\_2\_MB 0.86 0.85 0.84 0.54 5.9 0.0017 0.0074 0.53

PANDEMIC\_FATIGUE\_4\_MB 0.84 0.84 0.83 0.52 5.4 0.0018 0.0114 0.51

PANDEMIC\_FATIGUE\_6\_MB 0.84 0.84 0.83 0.51 5.2 0.0019 0.0116 0.49

Item statistics

n raw.r std.r r.cor r.drop mean sd

PANDEMIC\_FATIGUE\_1\_INF 17946 0.79 0.79 0.75 0.68 4.6 2.0

PANDEMIC\_FATIGUE\_3\_INF 17946 0.84 0.83 0.82 0.75 4.4 2.1

PANDEMIC\_FATIGUE\_5\_INF 17946 0.76 0.76 0.69 0.65 3.5 2.0

PANDEMIC\_FATIGUE\_2\_MB 17946 0.70 0.71 0.62 0.57 3.0 1.9

PANDEMIC\_FATIGUE\_4\_MB 17946 0.76 0.76 0.68 0.64 2.9 2.0

PANDEMIC\_FATIGUE\_6\_MB 17946 0.77 0.77 0.71 0.66 3.4 1.9

Non missing response frequency for each item

1 2 3 4 5 6 7 miss

PANDEMIC\_FATIGUE\_1\_INF 0.11 0.09 0.10 0.16 0.15 0.13 0.26 0

PANDEMIC\_FATIGUE\_3\_INF 0.13 0.10 0.10 0.16 0.15 0.12 0.23 0

PANDEMIC\_FATIGUE\_5\_INF 0.23 0.15 0.12 0.19 0.12 0.08 0.11 0

PANDEMIC\_FATIGUE\_2\_MB 0.31 0.19 0.11 0.15 0.11 0.06 0.07 0

PANDEMIC\_FATIGUE\_4\_MB 0.36 0.16 0.10 0.14 0.09 0.05 0.09 0

PANDEMIC\_FATIGUE\_6\_MB 0.23 0.15 0.12 0.19 0.13 0.08 0.09 0

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> # Alpha - Information fatigue factor - Germany

> psych::alpha(data.frame(GER\_CFA[c("PANDEMIC\_FATIGUE\_1\_INF", "PANDEMIC\_FATIGUE\_3\_INF", "PANDEMIC\_FATIGUE\_5\_INF")]), check.keys=TRUE)

Reliability analysis

Call: psych::alpha(x = data.frame(GER\_CFA[c("PANDEMIC\_FATIGUE\_1\_INF",

"PANDEMIC\_FATIGUE\_3\_INF", "PANDEMIC\_FATIGUE\_5\_INF")]), check.keys = TRUE)

raw\_alpha std.alpha G6(smc) average\_r S/N ase mean sd median\_r

0.84 0.84 0.79 0.64 5.3 0.0021 4.2 1.8 0.61

95% confidence boundaries

lower alpha upper

Feldt 0.84 0.84 0.85

Duhachek 0.84 0.84 0.85

Reliability if an item is dropped:

raw\_alpha std.alpha G6(smc) average\_r S/N alpha se var.r med.r

PANDEMIC\_FATIGUE\_1\_INF 0.76 0.76 0.61 0.61 3.1 0.0036 NA 0.61

PANDEMIC\_FATIGUE\_3\_INF 0.72 0.72 0.57 0.57 2.6 0.0041 NA 0.57

PANDEMIC\_FATIGUE\_5\_INF 0.85 0.85 0.75 0.75 5.8 0.0022 NA 0.75

Item statistics

n raw.r std.r r.cor r.drop mean sd

PANDEMIC\_FATIGUE\_1\_INF 17946 0.88 0.88 0.81 0.73 4.6 2.0

PANDEMIC\_FATIGUE\_3\_INF 17946 0.90 0.90 0.84 0.76 4.4 2.1

PANDEMIC\_FATIGUE\_5\_INF 17946 0.83 0.83 0.68 0.63 3.5 2.0

Non missing response frequency for each item

1 2 3 4 5 6 7 miss

PANDEMIC\_FATIGUE\_1\_INF 0.11 0.09 0.10 0.16 0.15 0.13 0.26 0

PANDEMIC\_FATIGUE\_3\_INF 0.13 0.10 0.10 0.16 0.15 0.12 0.23 0

PANDEMIC\_FATIGUE\_5\_INF 0.23 0.15 0.12 0.19 0.12 0.08 0.11 0

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> # Alpha - Behavioral fatigue factor - Germany

> psych::alpha(data.frame(GER\_CFA[c("PANDEMIC\_FATIGUE\_2\_MB", "PANDEMIC\_FATIGUE\_4\_MB", "PANDEMIC\_FATIGUE\_6\_MB")]), check.keys=TRUE)

Reliability analysis

Call: psych::alpha(x = data.frame(GER\_CFA[c("PANDEMIC\_FATIGUE\_2\_MB",

"PANDEMIC\_FATIGUE\_4\_MB", "PANDEMIC\_FATIGUE\_6\_MB")]), check.keys = TRUE)

raw\_alpha std.alpha G6(smc) average\_r S/N ase mean sd median\_r

0.77 0.77 0.69 0.53 3.3 0.003 3.1 1.6 0.53

95% confidence boundaries

lower alpha upper

Feldt 0.76 0.77 0.78

Duhachek 0.76 0.77 0.78

Reliability if an item is dropped:

raw\_alpha std.alpha G6(smc) average\_r S/N alpha se var.r med.r

PANDEMIC\_FATIGUE\_2\_MB 0.70 0.70 0.54 0.54 2.4 0.0044 NA 0.54

PANDEMIC\_FATIGUE\_4\_MB 0.69 0.69 0.53 0.53 2.3 0.0046 NA 0.53

PANDEMIC\_FATIGUE\_6\_MB 0.67 0.67 0.51 0.51 2.0 0.0049 NA 0.51

Item statistics

n raw.r std.r r.cor r.drop mean sd

PANDEMIC\_FATIGUE\_2\_MB 17946 0.82 0.82 0.67 0.59 3.0 1.9

PANDEMIC\_FATIGUE\_4\_MB 17946 0.83 0.83 0.68 0.60 2.9 2.0

PANDEMIC\_FATIGUE\_6\_MB 17946 0.83 0.84 0.71 0.62 3.4 1.9

Non missing response frequency for each item

1 2 3 4 5 6 7 miss

PANDEMIC\_FATIGUE\_2\_MB 0.31 0.19 0.11 0.15 0.11 0.06 0.07 0

PANDEMIC\_FATIGUE\_4\_MB 0.36 0.16 0.10 0.14 0.09 0.05 0.09 0

PANDEMIC\_FATIGUE\_6\_MB 0.23 0.15 0.12 0.19 0.13 0.08 0.09 0

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> # Alpha full pandemic fatigue scale - Denmark

> psych::alpha(data.frame(DEN\_CFA[c("PANDEMIC\_FATIGUE\_1\_INF", "PANDEMIC\_FATIGUE\_3\_INF", "PANDEMIC\_FATIGUE\_5\_INF",

+ "PANDEMIC\_FATIGUE\_2\_MB", "PANDEMIC\_FATIGUE\_4\_MB", "PANDEMIC\_FATIGUE\_6\_MB")]), check.keys=TRUE)

Reliability analysis

Call: psych::alpha(x = data.frame(DEN\_CFA[c("PANDEMIC\_FATIGUE\_1\_INF",

"PANDEMIC\_FATIGUE\_3\_INF", "PANDEMIC\_FATIGUE\_5\_INF", "PANDEMIC\_FATIGUE\_2\_MB",

"PANDEMIC\_FATIGUE\_4\_MB", "PANDEMIC\_FATIGUE\_6\_MB")]), check.keys = TRUE)

raw\_alpha std.alpha G6(smc) average\_r S/N ase mean sd median\_r

0.83 0.83 0.83 0.45 4.9 0.0021 3.4 1.3 0.42

95% confidence boundaries

lower alpha upper

Feldt 0.83 0.83 0.84

Duhachek 0.83 0.83 0.84

Reliability if an item is dropped:

raw\_alpha std.alpha G6(smc) average\_r S/N alpha se var.r med.r

PANDEMIC\_FATIGUE\_1\_INF 0.80 0.79 0.77 0.44 3.9 0.0025 0.0074 0.41

PANDEMIC\_FATIGUE\_3\_INF 0.78 0.78 0.76 0.41 3.5 0.0027 0.0079 0.41

PANDEMIC\_FATIGUE\_5\_INF 0.80 0.80 0.80 0.45 4.0 0.0025 0.0157 0.42

PANDEMIC\_FATIGUE\_2\_MB 0.80 0.79 0.78 0.43 3.8 0.0025 0.0199 0.38

PANDEMIC\_FATIGUE\_4\_MB 0.82 0.82 0.81 0.47 4.5 0.0022 0.0181 0.48

PANDEMIC\_FATIGUE\_6\_MB 0.82 0.82 0.81 0.48 4.6 0.0022 0.0138 0.46

Item statistics

n raw.r std.r r.cor r.drop mean sd

PANDEMIC\_FATIGUE\_1\_INF 15985 0.77 0.76 0.72 0.64 4.3 1.9

PANDEMIC\_FATIGUE\_3\_INF 15985 0.82 0.81 0.79 0.71 4.1 1.9

PANDEMIC\_FATIGUE\_5\_INF 15985 0.74 0.74 0.66 0.61 3.1 1.8

PANDEMIC\_FATIGUE\_2\_MB 15985 0.77 0.77 0.71 0.64 3.4 1.9

PANDEMIC\_FATIGUE\_4\_MB 15985 0.66 0.68 0.57 0.52 2.5 1.6

PANDEMIC\_FATIGUE\_6\_MB 15985 0.64 0.66 0.56 0.50 2.7 1.7

Non missing response frequency for each item

1 2 3 4 5 6 7 miss

PANDEMIC\_FATIGUE\_1\_INF 0.10 0.12 0.10 0.19 0.16 0.16 0.16 0

PANDEMIC\_FATIGUE\_3\_INF 0.12 0.13 0.11 0.20 0.16 0.14 0.14 0

PANDEMIC\_FATIGUE\_5\_INF 0.24 0.23 0.12 0.21 0.09 0.07 0.05 0

PANDEMIC\_FATIGUE\_2\_MB 0.21 0.21 0.11 0.16 0.15 0.10 0.07 0

PANDEMIC\_FATIGUE\_4\_MB 0.37 0.24 0.10 0.15 0.06 0.04 0.03 0

PANDEMIC\_FATIGUE\_6\_MB 0.31 0.26 0.12 0.15 0.08 0.05 0.03 0

>

> # Alpha - Information fatigue factor - Denmark

> psych::alpha(data.frame(DEN\_CFA[c("PANDEMIC\_FATIGUE\_1\_INF", "PANDEMIC\_FATIGUE\_3\_INF", "PANDEMIC\_FATIGUE\_5\_INF")]), check.keys=TRUE)

Reliability analysis

Call: psych::alpha(x = data.frame(DEN\_CFA[c("PANDEMIC\_FATIGUE\_1\_INF",

"PANDEMIC\_FATIGUE\_3\_INF", "PANDEMIC\_FATIGUE\_5\_INF")]), check.keys = TRUE)

raw\_alpha std.alpha G6(smc) average\_r S/N ase mean sd median\_r

0.83 0.83 0.78 0.62 4.9 0.0023 3.9 1.6 0.59

95% confidence boundaries

lower alpha upper

Feldt 0.83 0.83 0.84

Duhachek 0.83 0.83 0.84

Reliability if an item is dropped:

raw\_alpha std.alpha G6(smc) average\_r S/N alpha se var.r med.r

PANDEMIC\_FATIGUE\_1\_INF 0.74 0.74 0.59 0.59 2.8 0.0041 NA 0.59

PANDEMIC\_FATIGUE\_3\_INF 0.71 0.71 0.55 0.55 2.5 0.0046 NA 0.55

PANDEMIC\_FATIGUE\_5\_INF 0.84 0.84 0.73 0.73 5.3 0.0025 NA 0.73

Item statistics

n raw.r std.r r.cor r.drop mean sd

PANDEMIC\_FATIGUE\_1\_INF 15985 0.88 0.88 0.80 0.72 4.3 1.9

PANDEMIC\_FATIGUE\_3\_INF 15985 0.90 0.89 0.83 0.75 4.1 1.9

PANDEMIC\_FATIGUE\_5\_INF 15985 0.81 0.82 0.66 0.61 3.1 1.8

Non missing response frequency for each item

1 2 3 4 5 6 7 miss

PANDEMIC\_FATIGUE\_1\_INF 0.10 0.12 0.10 0.19 0.16 0.16 0.16 0

PANDEMIC\_FATIGUE\_3\_INF 0.12 0.13 0.11 0.20 0.16 0.14 0.14 0

PANDEMIC\_FATIGUE\_5\_INF 0.24 0.23 0.12 0.21 0.09 0.07 0.05 0

>

> # Alpha - Behavioral fatigue factor - Denmark

> psych::alpha(data.frame(DEN\_CFA[c("PANDEMIC\_FATIGUE\_2\_MB", "PANDEMIC\_FATIGUE\_4\_MB", "PANDEMIC\_FATIGUE\_6\_MB")]), check.keys=TRUE)

Reliability analysis

Call: psych::alpha(x = data.frame(DEN\_CFA[c("PANDEMIC\_FATIGUE\_2\_MB",

"PANDEMIC\_FATIGUE\_4\_MB", "PANDEMIC\_FATIGUE\_6\_MB")]), check.keys = TRUE)

raw\_alpha std.alpha G6(smc) average\_r S/N ase mean sd median\_r

0.73 0.73 0.65 0.47 2.7 0.0037 2.9 1.4 0.48

95% confidence boundaries

lower alpha upper

Feldt 0.72 0.73 0.73

Duhachek 0.72 0.73 0.73

Reliability if an item is dropped:

raw\_alpha std.alpha G6(smc) average\_r S/N alpha se var.r med.r

PANDEMIC\_FATIGUE\_2\_MB 0.57 0.57 0.40 0.40 1.3 0.0067 NA 0.40

PANDEMIC\_FATIGUE\_4\_MB 0.69 0.70 0.53 0.53 2.3 0.0048 NA 0.53

PANDEMIC\_FATIGUE\_6\_MB 0.64 0.64 0.48 0.48 1.8 0.0056 NA 0.48

Item statistics

n raw.r std.r r.cor r.drop mean sd

PANDEMIC\_FATIGUE\_2\_MB 15985 0.85 0.83 0.71 0.60 3.4 1.9

PANDEMIC\_FATIGUE\_4\_MB 15985 0.77 0.78 0.59 0.50 2.5 1.6

PANDEMIC\_FATIGUE\_6\_MB 15985 0.80 0.80 0.65 0.55 2.7 1.7

Non missing response frequency for each item

1 2 3 4 5 6 7 miss

PANDEMIC\_FATIGUE\_2\_MB 0.21 0.21 0.11 0.16 0.15 0.10 0.07 0

PANDEMIC\_FATIGUE\_4\_MB 0.37 0.24 0.10 0.15 0.06 0.04 0.03 0

PANDEMIC\_FATIGUE\_6\_MB 0.31 0.26 0.12 0.15 0.08 0.05 0.03 0