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Scale Development and Validation - Item Reduction using Pearson's Correlation

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Factor Analysis using method = minres

Call: fa(r = EF, nfactors = 2, rotate = "oblimin", fm = "minres")

Standardized loadings (pattern matrix) based upon correlation matrix

MR1 MR2 h2 u2 com

PANDEMIC\_FATIGUE\_1 0.66 0.12 0.55 0.45 1.1

PANDEMIC\_FATIGUE\_2 0.63 0.06 0.45 0.55 1.0

PANDEMIC\_FATIGUE\_3 -0.05 0.86 0.68 0.32 1.0

PANDEMIC\_FATIGUE\_5 0.80 0.00 0.65 0.35 1.0

PANDEMIC\_FATIGUE\_6 0.04 0.86 0.79 0.21 1.0

PANDEMIC\_FATIGUE\_7 0.71 -0.02 0.49 0.51 1.0

PANDEMIC\_FATIGUE\_8 0.71 -0.05 0.46 0.54 1.0

PANDEMIC\_FATIGUE\_9 0.23 0.49 0.44 0.56 1.4

PANDEMIC\_FATIGUE\_10 0.66 -0.06 0.39 0.61 1.0

MR1 MR2

SS loadings 3.06 1.83

Proportion Var 0.34 0.20

Cumulative Var 0.34 0.54

Proportion Explained 0.63 0.37

Cumulative Proportion 0.63 1.00

With factor correlations of

MR1 MR2

MR1 1.00 0.65

MR2 0.65 1.00

Mean item complexity = 1.1

Test of the hypothesis that 2 factors are sufficient.

df null model = 36 with the objective function = 3.95 with Chi Square = 3622.74

df of the model are 19 and the objective function was 0.06

The root mean square of the residuals (RMSR) is 0.02

The df corrected root mean square of the residuals is 0.03

The harmonic n.obs is 923 with the empirical chi square 26.13 with prob < 0.13

The total n.obs was 923 with Likelihood Chi Square = 57.59 with prob < 9.2e-06

Tucker Lewis Index of factoring reliability = 0.98

RMSEA index = 0.047 and the 90 % confidence intervals are 0.033 0.061

BIC = -72.13

Fit based upon off diagonal values = 1

Measures of factor score adequacy

MR1 MR2

Correlation of (regression) scores with factors 0.93 0.94

Multiple R square of scores with factors 0.87 0.87

Minimum correlation of possible factor scores 0.75 0.75