*model1 <- 'ee = ~e1 + e2 + e3 + e4 + e5 + e6 + e7 + e8 + e9*

*dp = ~ dp1 + dp2 + dp3 + dp4 + dp5*

*pa = ~p1 + p2 + p3 + p4 + p5 + p6 + p7 + p8'*

*fit <- cfa(model1, data = mbi, ordered = c("e1", "e2", "e3", "e4",*

*"e5", "e6", "e7", "e8", "e9", "dp1", "dp2", "dp3", "dp4",*

*"dp5","p1", "p2", "p3", "p4","p5", "p6", "p7", "p8"),*

*std.lv = TRUE, missing = "pairwise")*

**R output**

>summary(fit, fit.measures = TRUE, rsquare = TRUE, standardized = TRUE)

lavaan 0.6-2 ended normally after 41 iterations

Optimization method NLMINB

Number of free parameters 157

Used Total

Number of observations 6841 6880

Number of missing patterns 188

Estimator DWLS Robust

Model Fit Test Statistic 14022.609 14285.386

Degrees of freedom 206 206

P-value (Chi-square) 0.000 0.000

Scaling correction factor 0.988

Shift parameter 96.377

for simple second-order correction (Mplus variant)

Model test baseline model:

Minimum Function Test Statistic 888944.138 303311.171

Degrees of freedom 231 231

P-value 0.000 0.000

User model versus baseline model:

Comparative Fit Index (CFI) 0.984 0.954

Tucker-Lewis Index (TLI) 0.983 0.948

Robust Comparative Fit Index (CFI) NA

Robust Tucker-Lewis Index (TLI) NA

Root Mean Square Error of Approximation:

RMSEA 0.099 0.100

90 Percent Confidence Interval 0.098 0.100 0.099 0.101

P-value RMSEA <= 0.05 0.000 0.000

Robust RMSEA NA

90 Percent Confidence Interval NA NA

Standardized Root Mean Square Residual:

SRMR 0.088 0.088

Parameter Estimates:

Information Expected

Information saturated (h1) model Unstructured

Standard Errors Robust.sem

> fitmeasures(fit)

npar fmin chisq

157.000 1.025 14022.609

df pvalue chisq.scaled

206.000 0.000 14285.386

df.scaled pvalue.scaled chisq.scaling.factor

206.000 0.000 0.988

baseline.chisq baseline.df baseline.pvalue

888944.138 231.000 0.000

baseline.chisq.scaled baseline.df.scaled baseline.pvalue.scaled

303311.171 231.000 0.000

baseline.chisq.scaling.factor cfi tli

2.932 0.984 0.983

nnfi rfi nfi

0.983 0.982 0.984

pnfi ifi rni

0.878 0.984 0.984

cfi.scaled tli.scaled cfi.robust

0.954 0.948 NA

tli.robust nnfi.scaled nnfi.robust

NA 0.948 NA

rfi.scaled nfi.scaled ifi.scaled

0.947 0.953 0.953

rni.scaled rni.robust rmsea

0.954 NA 0.099

rmsea.ci.lower rmsea.ci.upper rmsea.pvalue

0.098 0.100 0.000

rmsea.scaled rmsea.ci.lower.scaled rmsea.ci.upper.scaled

0.100 0.099 0.101

rmsea.pvalue.scaled rmsea.robust rmsea.ci.lower.robust

0.000 NA NA

rmsea.ci.upper.robust rmsea.pvalue.robust rmr

NA NA 0.084

rmr\_nomean srmr srmr\_bentler

0.088 0.088 0.084

srmr\_bentler\_nomean srmr\_bollen srmr\_bollen\_nomean

0.088 0.084 0.088

srmr\_mplus srmr\_mplus\_nomean cn\_05

0.084 0.088 118.304

cn\_01 gfi agfi

125.940 0.988 0.979

pgfi mfi

0.561 0.364