

Confirmatory Factor Analysis Output

Chi-square test

Model	X ²	df	p
Baseline model	213.705	36	
Factor model	33.169	24	0.101

Fit indices

Index	Value
Comparative Fit Index (CFI)	0.948
Tucker-Lewis Index (TLI)	0.923
Bentler-Bonett Non-normed Fit Index (NNFI)	0.923
Bentler-Bonett Normed Fit Index (NFI)	0.845
Parsimony Normed Fit Index (PNFI)	0.563
Bollen's Relative Fit Index (RFI)	0.767
Bollen's Incremental Fit Index (IFI)	0.952
Relative Noncentrality Index (RNI)	0.948

Other fit measures

Metric	Value
Root mean square error of approximation (RMSEA)	0.115
RMSEA 90% CI lower bound	0.000
RMSEA 90% CI upper bound	0.202
RMSEA p-value	0.156
Standardized root mean square residual (SRMR)	0.086
Hoelter's critical N ($\alpha = .05$)	32.838
Hoelter's critical N ($\alpha = .01$)	38.578
Goodness of fit index (GFI)	0.995
McDonald fit index (MFI)	0.854
Expected cross validation index (ECVI)	3.213

R-Squared

	R ²
sptot	0.645
hopewill	0.983
hopeway	0.264
bsidep	0.923
bsianx	0.781
psstot	0.561
esewalk	0.848
esebike	0.417
eseweek	0.834

Factor loadings

Factor	Indicator	Estimate	Std. Error	z-value	p	95% Confidence Interval	
						Lower	Upper
SWB	sptot	8.421	1.661	5.071	< .001	5.167	11.676
	hopewill	1.803	0.255	7.073	< .001	1.303	2.302
	hopeway	1.076	0.365	2.944	0.003	0.360	1.792
MH	bsidep	4.610	0.673	6.854	< .001	3.292	5.928
	bsianx	3.179	0.534	5.954	< .001	2.133	4.226
	psstot	6.206	1.345	4.614	< .001	3.570	8.843
ESE	esewalk	7.761	1.296	5.990	< .001	5.222	10.301
	esebike	5.171	1.380	3.748	< .001	2.467	7.876
	eseweek	5.534	0.935	5.918	< .001	3.701	7.367

Factor Covariances

	Estimate	Std. Error	z-value	p	95% Confidence Interval	
					Lower	Upper
SWB ↔ MH	-0.827	0.081	-10.231	< .001	-0.985	-0.668
SWB ↔ ESE	0.402	0.175	2.294	0.022	0.059	0.746
MH ↔ ESE	-0.236	0.199	-1.184	0.236	-0.625	0.154

Author's Note: This trend is different than seen in previous analyses, so be cautious in interpreting significance of the covariance between either factor and ESE.

Model plot

