Confirmatory Factor Analysis Output

| **Chi-square test** | | | | | | | | |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Model** | | **Χ²** | **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 (α = .05) |  | 32.838 |  |
| Hoelter's critical N (α = .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** | | | |
| --- | --- | --- | --- |
|  | | **R²** | |
| 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** | | | | | | | | | | | | | | | |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | | | | | | | | | | | | **95% Confidence Interval** | | | |
| **Factor** | | **Indicator** | | **Estimate** | | **Std. Error** | | **z-value** | | **p** | | **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** | | | | | | | | | | | | | | | | | |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | | | | | | | | | | | | | | **95% Confidence Interval** | | | |
|  | |  | |  | | **Estimate** | | **Std. Error** | | **z-value** | | **p** | | **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**

