**Supplemental Materials**

The following indicators were derived for each neurocognitive task: reaction time (RT) and accuracy for each component condition (e.g., Flanker congruent and incongruent trials), total task RT and accuracy, RT cost (i.e., RT for condition 2 minus RT for condition 1), error rate cost (i.e., accuracy for condition 1 minus accuracy for condition 2), and task efficiency (reaction time/accuracy, computed per condition and for total task performance). Intercorrelations among task indicators were examined to identify those which showed potential to create a cohesive latent construct. To limit the number of competing models, additional consideration was given towards recommendations provided within the literature (e.g., Draheim et al., 2019). For example, as Draheim and colleagues recommend the use of accuracy scores over difference scores, a model consisting of *total reaction time* was chosen over a model consisting of *Flanker total reaction time cost*, although the intercorrelations were similar in magnitude.

## Supplemental Table 1. Inhibitory control model fit comparisons.

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Model | AIC | ss adj BIC | Boxed Loading | Flanker Loading | SAIT Loading |
| **BACC, FACC, SACC** | **6096.51** | **6110.02** | **0.83** | **0.71** | **0.66** |
| ***BACC, FACC, SRT*** | ***6103.01*** | ***6116.53*** | ***0.75*** | ***0.75*** | ***-0.65*** |
| BACC, FRT, SACC | 6284.43 | 6297.94 | 0.94 | -0.50 | 0.58 |
| BACC, FRT, SRT | 6221.51 | 6235.03 | -0.66 | 0.74 | 0.65 |
| BRT, FACC, SACC | 6411.82 | 6425.34 | -0.38 | 0.69 | 0.68 |
| BRT, FACC, SRT | 6317.91 | 6331.42 | 0.45 | -0.56 | 0.86 |
| BRT, FRT, SACC | 6386.02 | 6399.53 | 0.72 | 0.79 | -0.37 |
| BRT, FRT, SRT | 6223.09 | 6246.61 | 0.67 | 0.82 | 0.59 |

*Two competing models bolded; retained final model italicized. BACC = Boxed accuracy; BRT = Boxed reaction time; FACC = Flanker accuracy; FRT = Flanker reaction time; SACC = SAIT accuracy; SRT = SAIT reaction time. N = 794.*