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| SUPPLEMENTAL DIGITAL CONTENT 1. List of variables included as covariates in models relating VO2 peak to cognitive performance in young adult females |
| **Outcome** | Covariates included in regression analyses (Table 2) | Covariates included in ACSM group comparisons (SDC Table 2) |
| ANT |  |  |
| Accuracy, % correct | Age | Age, handedness, laptop |
| RT, ms | Age, OC use | Age, handedness, laptop, OC use |
| RT variability, ms | Age, task order | Age, handedness, laptop, task order |
| Alerting, ms | Age, laptop | Age, handedness, laptop |
| Orienting, ms | Age | Age, handedness, laptop |
| Conflict, ms | Age | Age, handedness, laptop |
| BCST |  |  |
| Categories completed | Age | Age, handedness, laptop |
| Perseverative errors | Age | Age, handedness, laptop |
| GNG |  |  |
| Accuracy, % correct | Age, task order | Age, handedness, laptop, task order |
| RT, ms | Age, OC use, handedness | Age, handedness, laptop, OC use |
| RT variability, ms | Age, NPB score, DS use, OC use, task order | Age, handedness, laptop, NPB score, DS use, OC use, task order |
| SMS |  |  |
| Accuracy, % correct | Age | Age, handedness, laptop |
| Change2 | Age | Age, handedness, laptop |
| RT, ms | Age, NPB score, M use, handedness, task order | Age, handedness, laptop, NPB score, M use, task order |
| Change2 | Age | Age, handedness, laptop |
| RT variability, ms | Age, OC use, M use, laptop | Age, handedness, laptop, OC use, M use |
| Change2 | Age | Age, handedness, laptop |
| TOL |  |  |
| Excess moves | Age | Age, handedness, laptop |
| Change2 | Age | Age, handedness, laptop |
| Planning time, s | Age | Age, handedness, laptop |
| Change2 | Age | Age, handedness, laptop |
| Solution time, s | Age, handedness | Age, handedness, laptop |
| Change2 | Age | Age, handedness, laptop |

DS, dietary supplement; M, medication; NPB, Nam-Powers-Boyd parental occupation score; OC, oral contraceptive