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| Supplementary Table 3. The estimation results of the univariate model for physical activity indices among young adult twin pairs (MZ *n* = 163, DZ, *n* = 122) |
|   | Model fit  | Parameter estimates and their 95% confidence intervals    |
|   | Χ2 | df | SC | *P* | CFI | TLI | RMSEA | SRMR | BIC | a2 / total | c2 or d2 / total | e2 / total | total |
| Sport index  |
|  ACE | 27.5 | 27 | 0.91 | 0.439 | 0.99 | 0.99 | 0.011 | 0.062 | 5727 | 0.58 | 0.12, 1.04 | 0.02 | -0.39, 0.42 | 0.41 | 0.28, 0.53 | 0.58 | 0.51, 0.65 |
|  ADE | 26.2 | 27 | 0.96 | 0.507 | 1.00 | 1.00 | 0.000 | 0.062 | 5727 | 0.60 | 0.47, 0.72 | 0.00 | 0.00, 0.00 | 0.40 | 0.28, 0.53 | 0.58 | 0.51, 0.65 |
|  **AE** | **27.2** | **28** | **0.92** | **0.508** | **1.00** | **1.00** | **0.000** | **0.062** | **5721** | **0.60** | **0.47, 0.72** | **-** |  | **0.40** | **0.28, 0.53** | **0.58** | **0.51, 0.65** |
|  CE | 36.7 | 28 | 0.93 | 0.126 | 0.91 | 0.90 | 0.047 | 0.065 | 5730 |  - |  | 0.48 | 0.37, 0.59 | 0.52 | 0.41, 0.63 | 0.59 | 0.52, 0.66 |
|  E | 105 | 29 | 0.92 | <0.001 | 0.24 | 0.22 | 0.136 | 0.088 | 5787 |  - |  |  - |  | 1.00 |  | 0.59 | 0.52, 0.66 |
| Leisure index |
|  ACE | 25.4 | 27 | 0.93 | 0.554 | 1.00 | 1.03 | 0.000 | 0.057 | 5532 | 0.31 | -0.11, 0.73 | 0.15 | -0.18, 0.48 | 0.54 | 0.38, 0.70 | 0.37 | 0.32, 0.41 |
|  ADE | 25.2 | 27 | 0.96 | 0.562 | 1.00 | 1.03 | 0.000 | 0.057 | 5533 | 0.48 | 0.34, 0.62 | 0.00 | 0.00, 0.00 | 0.52 | 0.38, 0.66 | 0.37 | 0.32, 0.41 |
|  **AE** | **26.2** | **28** | **0.93** | **0.564** | **1.00** | **1.03** | **0.000** | **0.057** | **5527** | **0.48** | **0.34, 0.62** |  **-** |  | **0.52** | **0.38, 0.66** | **0.37** | **0.32, 0.41** |
|  CE | 27.6 | 28 | 0.93 | 0.485 | 1.00 | 1.00 | 0.000 | 0.056 | 5528 |  - |  | 0.38 | 0.26, 0.49 | 0.62 | 0.51, 0.74 | 0.36 | 0.32, 0.41 |
|  E | 68.1 | 29 | 0.91 | <0.001 | 0.27 | 0.25 | 0.097 | 0.074 | 5559 |  - |  |  - |  | 1.00 |  | 0.36 | 0.32, 0.41 |
| Work index |
|  ACE | 36.8 | 27 | 0.98 | 0.098 | 0.88 | 0.87 | 0.051 | 0.053 | 5548 | 0.49 | 0.35, 0.62 | 0.00 | 0.00, 0.00 | 0.51 | 0.38, 0.65 | 0.37 | 0.33, 0.42 |
|  ADE | 38.5 | 27 | 0.94 | 0.070 | 0.86 | 0.85 | 0.055 | 0.053 | 5548 | 0.41 | -0.36, 1.18 | 0.08 | -0.72, 0.88 | 0.51 | 0.37, 0.65 | 0.37 | 0.33, 0.42 |
|  **AE** | **38.2** | **28** | **0.94** | **0.095** | **0.88** | **0.87** | **0.051** | **0.053** | **5542** | **0.49** | **0.35, 0.62** |  **-** |  | **0.51** | **0.38, 0.65** | **0.37** | **0.33, 0.42** |
|  CE | 45.2 | 28 | 0.94 | 0.021 | 0.80 | 0.78 | 0.066 | 0.056 | 5549 |  - |  | 0.37 | 0.25, 0.50 | 0.63 | 0.50, 0.75 | 0.38 | 0.33, 0.42 |
|  E | 85.5 | 29 | 0.92 | <0.001 | 0.34 | 0.32 | 0.117 | 0.074 | 5579 |  - |   |  - |   | 1.00 |   | 0.38 | 0.33, 0.42 |
| Note. The model was adjusted for sex, body mass index and smoking status; SC, scaling correction |