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| Supplementary Table 4. The estimation results of the univariate model for physical activity indices among older twin pairs (MZ *n* = 147, DZ *n* = 87) |
|   | 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 | 31.1 | 27 | 1.01 | 0.266 | 0.90 | 0.89 | 0.036 | 0.065 | 5249 | 0.35 | 0.17, 0.52 | 0.00 | 0.00, 0.00 | 0.65 | 0.48, 0.83 | 0.63 | 0.54, 0.72 |
|  ADE | 32.6 | 27 | 0.97 | 0.212 | 0.87 | 0.86 | 0.042 | 0.064 | 5249 | 0.30 | -0.85, 1.44 | 0.05 | -1.13, 1.23 | 0.65 | 0.47, 0.83 | 0.63 | 0.54, 0.72 |
|  **AE** | **32.3** | **28** | **0.97** | **0.263** | **0.90** | **0.89** | **0.036** | **0.065** | **5243** | **0.35** | **0.17, 0.52** |  **-** |  | **0.65** | **0.48, 0.83** | **0.63** | **0.54, 0.72** |
|  CE | 33.9 | 28 | 0.98 | 0.204 | 0.87 | 0.86 | 0.042 | 0.066 | 5245 |  - |  | 0.30 | 0.14, 0.45 | 0.71 | 0.55, 0.86 | 0.63 | 0.54, 0.73 |
|  E | 51.6 | 29 | 0.97 | 0.006 | 0.50 | 0.48 | 0.081 | 0.070 | 5257 |  - |  |  - |  | 1.00 |  | 0.63 | 0.54, 0.73 |
| Leisure index |
|  ACE | 25.2 | 27 | 0.93 | 0.562 | 1.00 | 1.05 | 0.000 | 0.068 | 5071 | 0.21 | -0.37, 0.80 | 0.05 | -0.45, 0.55 | 0.73 | 0.56, 0.9 | 0.40 | 0.34, 0.45 |
|  ADE | 24.2 | 27 | 0.97 | 0.620 | 1.00 | 1.08 | 0.000 | 0.068 | 5071 | 0.28 | 0.12, 0.43 | 0.00 | 0.00, 0.00 | 0.73 | 0.57, 0.89 | 0.40 | 0.34, 0.45 |
|  **AE** | **25.1** | **28** | **0.93** | **0.623** | **1.00** | **1.08** | 0.000 | **0.068** | **5066** | **0.28** | **0.12, 0.43** | **-** |  | **0.73** | **0.57, 0.89** | **0.40** | **0.34, 0.45** |
|  CE | 25.7 | 28 | 0.93 | 0.587 | 1.00 | 1.06 | 0.000 | 0.067 | 5066 |  - |  | 0.23 | 0.09, 0.37 | 0.77 | 0.64, 0.91 | 0.40 | 0.34, 0.45 |
|  E | 37.5 | 29 | 0.91 | 0.135 | 0.76 | 0.75 | 0.050 | 0.072 | 5071 |  - |  | - |  | 1.00 |  | 0.40 | 0.34, 0.45 |
| Work index |
|  ACE | 37.2 | 27 | 0.91 | 0.091 | 0.68 | 0.65 | 0.057 | 0.061 | 5378 | 0.29 | -0.32, 0.89 | 0.05 | -0.45, 0.55 | 0.66 | 0.47, 0.85 | 0.95 | 0.84, 1.07 |
|  ADE | 35.5 | 27 | 0.96 | 0.126 | 0.73 | 0.70 | 0.052 | 0.061 | 5378 | 0.34 | 0.17, 0.52 | 0.00 | 0.00, 0.00 | 0.66 | 0.48, 0.83 | 0.95 | 0.84, 1.07 |
|  **AE** | **36.9** | **28** | **0.92** | **0.122** | **0.72** | **0.70** | **0.052** | **0.061** | **5373** | **0.34** | **0.17, 0.52** | **-** |  | **0.66** | **0.48, 0.83** | **0.95** | **0.84, 1.07** |
|  CE | 38.1 | 28 | 0.92 | 0.097 | 0.69 | 0.66 | 0.055 | 0.061 | 5374 |  - |  | 0.28 | 0.13, 0.43 | 0.72 | 0.58, 0.87 | 0.95 | 0.84, 1.06 |
|  E | 53.8 | 29 | 0.92 | 0.003 | 0.23 | 0.21 | 0.085 | 0.071 | 5383 |  - |   |  - |   |  1.00 |   | 0.95 | 0.84, 1.06 |
| Note. The model was adjusted for sex, body mass index and smoking status; SC, scaling correction |