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| Supplementary Table 5. The model fit of the bivariate models and chi-squared difference tests for comparison of the nested models among young adult (MZ *n* = 163, DZ *n* = 122) and older twin pairs (MZ *n* = 147, DZ *n* = 88) |
|   | Χ2 | df | SC | *P* | CFI | TLI | RMSEA | SRMR | BIC |
| **Young adult twin pairs**  |
| Sport index |  |  |  |  |  |  |  |  |  |
|  ACE | 21.9 | 19 | 0.97 | 0.291 | 0.98 | 0.98 | 0.032 | 0.110 | 3902 |
|  AE | 24.8 | 21 | 0.99 | 0.255 | 0.98 | 0.98 | 0.036 | 0.119 | 3894 |
|  ACE vs. AE | 2.8 | 2 | 1.12 | 0.246 |  |  |  |  |  |
| Leisure index |  |  |  |  |  |  |  |  |  |
|  ACE | 22.8 | 19 | 0.97 | 0.246 | 0.97 | 0.97 | 0.037 | 0.105 | 3709 |
|  AE | 23.0 | 21 | 1.02 | 0.344 | 0.98 | 0.98 | 0.026 | 0.106 | 3699 |
|  ACE vs. AE | 0.9 | 2 | 1.50 | 0.638 |  |  |  |  |  |
| Work index |  |  |  |  |  |  |  |  |  |
|  ACE | 31.9 | 19 | 1.01 | 0.032 | 0.92 | 0.92 | 0.069 | 0.102 | 3736 |
|  AE | 29.8 | 21 | 1.08 | 0.096 | 0.94 | 0.95 | 0.054 | 0.102 | 3725 |
|  ACE vs. AE | 0.01 | 2 | 0.99 | 0.993 |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |
| **Older twin pairs**  |
| Sport index |  |  |  |  |  |  |  |  |  |
|  ACE | 11.7 | 19 | 1.25 | 0.899 | 1.00 | 1.05 | 0.000 | 0.101 | 3683 |
|  AE | 12.9 | 21 | 1.14 | 0.912 | 1.00 | 1.05 | 0.000 | 0.101 | 3672 |
|  ACE vs. AE | 0.9 | 2 | 0.1 | 0.653 |  |  |  |  |  |
| Leisure index |  |  |  |  |  |  |  |  |  |
|  ACE | 8.7 | 19 | 1.12 | 0.978 | 1.00 | 1.08 | 0.000 | 0.113 | 3505 |
|  AE | 9.5 | 21 | 1.12 | 0.985 | 1.00 | 1.08 | 0.000 | 0.114 | 3494 |
|  ACE vs. AE | 0.8 | 2 | 1.12 | 0.670 |  |  |  |  |  |
| Work index |  |  |  |  |  |  |  |  |  |
|  ACE | 23.5 | 19 | 1.08 | 0.218 | 0.96 | 0.96 | 0.045 | 0.093 | 3811 |
|  AE | 24.4 | 21 | 1.05 | 0.274 | 0.97 | 0.97 | 0.037 | 0.094 | 3800 |
|  ACE vs. AE | 0.3 | 2 | 0.77 | 0.855 |  |  |  |  |  |
| The models were adjusted for sex. SC, scaling correction. |