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| Supplementary Table 2. The estimation results of the univariate model for epigenetic aging among older twin pairs (MZ *n* = 147, DZ *n* = 88) |
|   | 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 |  |
| DNAm Age acceleration |  |  |  |  |  |  |  |  |  |  |  |  |
|  ACE | 36.3 | 27 | 1.12 | 0.110 | 0.90 | 0.89 | 0.054 | 0.069 | 7044 | 0.61 | 0.50, 0.73 | 0.00 | 0.00, 0.00 | 0.39 | 0.28, 0.50 | 24.20 | 18.29, 30.11 |
|  ADE | 36.4 | 27 | 1.09 | 0.106 | 0.90 | 0.89 | 0.055 | 0.068 | 7043 | 0.26 | -0.41, 0.93 | 0.36 | -0.34, 1.06 | 0.38 | 0.27, 0.50 | 24.07 | 18.27, 29.87 |
|  **AE** | **37.6** | **28** | **1.08** | **0.106** | **0.90** | **0.89** | **0.054** | **0.069** | **7039** | **0.61** | **0.50, 0.73** | **-** |  | **0.39** | **0.28, 0.50** | **24.20** | **18.29, 30.11** |
|  CE | 53.6 | 28 | 1.06 | 0.003 | 0.74 | 0.72 | 0.088 | 0.071 | 7055 | - |  | 0.46 | 0.35, 0.58 | 0.54 | 0.42, 0.65 | 23.97 | 18.38, 29.55 |
|  E | 110 | 29 | 1.03 | <0.001 | 0.18 | 0.15 | 0.154 | 0.092 | 7105 | - |  | - |  | 1.00 |  | 23.94 | 18.37, 29.52 |
| DNAm PhenoAge acceleration |  |  |  |  |  |  |  |  |  |  |  |
|  ACE | 36.0 | 27 | 1.10 | 0.116 | 0.89 | 0.87 | 0.055 | 0.053 | 7152 | 0.55 | 0.43, 0.66 | 0.00 | 0.00, 0.00 | 0.45 | 0.34, 0.57 | 27.27 | 23.03, 31.51 |
|  ADE | 38.5 | 27 | 1.09 | 0.070 | 0.88 | 0.87 | 0.060 | 0.055 | 7152 | 0.60 | 0.49, 0.70 | 0.00 | 0.00, 0.00 | 0.40 | 0.30, 0.51 | 30.23 | 25.57, 34.88 |
|  **AE** | **39.9** | **28** | **1.05** | **0.067** | **0.88** | **0.87** | **0.060** | **0.055** | **7146** | **0.60** | **0.49, 0.70** | **-** |  | **0.40** | **0.30, 0.51** | **30.22** | **25.57, 34.88** |
|  CE | 49.3 | 28 | 1.05 | 0.008 | 0.79 | 0.77 | 0.081 | 0.057 | 7156 | - |  | 0.48 | 0.38, 0.58 | 0.52 | 0.43, 0.62 | 30.01 | 25.46, 34.56 |
|  E | 108 | 29 | 1.02 | <0.001 | 0.23 | 0.20 | 0.152 | 0.084 | 7208 | - |  | - |  | 1.00 |  | 29.82 | 25.37, 34.28 |
| DNAm GrimAge acceleration |  |  |  |  |  |  |  |  |  |  |  |
|  ACE | 23.7 | 27 | 1.26 | 0.645 | 1.00 | 1.01 | 0.000 | 0.036 | 6671 | 0.47 | 0.07, 0.87 | 0.10 | -0.26, 0.46 | 0.43 | 0.32, 0.53 | 10.00 | 8.25, 11.76 |
|  ADE | 23.3 | 27 | 1.29 | 0.669 | 1.00 | 1.01 | 0.000 | 0.036 | 6671 | 0.58 | 0.48, 0.68 | 0.00 | 0.00, 0.00 | 0.42 | 0.32, 0.52 | 9.98 | 8.24, 11.72 |
|  **AE** | **24.2** | **28** | **1.25** | **0.673** | **1.00** | **1.01** | **0.000** | **0.036** | **6666** | **0.58** | **0.48, 0.68** | **-** |  | **0.42** | **0.32, 0.52** | **9.98** | **8.24, 11.72** |
|  CE | 28.7 | 28 | 1.25 | 0.426 | 0.99 | 0.99 | 0.015 | 0.038 | 6672 | - |  | 0.48 | 0.39, 0.57 | 0.52 | 0.43, 0.61 | 9.96 | 8.23, 11.69 |
|  E | 80.1 | 29 | 1.21 | <0.001 | 0.85 | 0.85 | 0.122 | 0.051 | 6727 | - |  | - |  | 1.00 |  | 9.95 | 8.22, 11.67 |
| Note. The model was adjusted for sex, body mass index and smoking status; SC, scaling correction |