*Twin Research and Human Genetics*

Title: Heritability of humor production ability – a twin study

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Supplementary Table S1: Full and reduced model fit indices

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Phenotype** | **Model** | **AIC** | **-2LL** | **Difference -2LL between ACE** | **p-value comparison to ACE** |
| Self-Rated Health | ACE | 3613.205 | 3605.205 | - | - |
| **AE** | **3613.918** | **3607.918** | **2.71298** | **0.1** |
| CE | 3622.203 | 3616.203 | 10.99813 | 9.10E-04 |
| E | 3663.415 | 3659.415 | 54.21001 | 1.70E-12 |
| Self-Rated Humor | ACE | 5258.939 | 5250.939 | - | - |
| **AE** | **5257.942** | **5251.942** | **1.003233** | **0.32** |
| CE | 5276.193 | 5270.193 | 19.253732 | 1.10E-05 |
| E | 5385.689 | 5381.689 | 130.74996 | 4.10E-29 |
| Co-Twin Perception | ACE | 5245.548 | 5237.548 | - | - |
| AE | **5244.477** | **5238.477** | **0.9286557** | **0.34** |
| CE | 5252.729 | 5246.729 | 9.1807347 | 2.40E-03 |
| E | 5400.212 | 5396.212 | 158.6638672 | 3.50E-35 |
| Latent Humor Ability Score | ACE | 1518.719 | 1510.719 | - | - |
| AE | 1539.363 | 1533.363 | 22.644465 | 1.90E-06 |
| **CE** | **1517.806** | **1511.806** | **1.087219** | **3.00E-01** |
| E | 1793.089 | 1789.089 | 278.370595 | 3.60E-61 |
| CRT Score | ACE | 3339.059 | 3327.059 | - | - |
| **AE** | **3338.067** | **3328.067** | **1.007515** | **3.20E-01** |
| CE | 3357.476 | 3347.476 | 20.416796 | 6.20E-06 |
| E | 3474.348 | 3466.348 | 139.289128 | 5.70E-31 |

Note: Best fitting model is bolded.