**Supporting information**

**Statistical model**

For twin in twin-pair the model for the observed responses can be written as

And the model for the common factors can be written as

Here the responses to the items at 1.5 years , 3 years and 5 years are stacked on top of each other in a (4 + 6 + 6) x 1 vector. is a 16 x 1 vector of item intercepts. is a 16 x 3 matrix of factor loadings relating the responses to the 3 x 1 vector of common factors . In the path diagram in the text, genetic and environmental contributions to the item-specific residuals was depicted as correlated factors for clarity. For computational reasons, these were estimated using a Cholesky parametrization. , ,and therefore refers to 16 x 1 vectors of independent standard normal variables, with 16 x 16 coefficient matrices ,,and (lower diagonal with most off-diagonal elements set to zero).

The common factors were further specified to have a 3 x 1 vector of means . Similar to the observed responses, the latent genetic and environmental contribution to the common factors was specified as 3 x 1 vectors of independent standard normal variables ,,and with 3 x 3 coefficient matrices ,,and (lower diagonal with all elements free).

The most general model (M1) was specified with separate parameters for males and females so that each parameter matrix was estimated separately for males and females. In the constrained model (M2), ,,and were forced to be equal across gender. In the table of parameter estimates in the section below, parameters are referenced with respect to their position in the matrices described above.

The model was specified as a multi-group structural equation model with 14 separate groups depending on the type of sibling relationship (MZ, DZ, FS, MH and PH) and gender (male-male, female-female and opposite sex). Parameters differed across gender, but were forced to be equal across sibling relationships. The sibling relationship groups only differed in the within-pair covariance structure as described in the main paper.

**Parameter estimates**

Table A1. Estimated parameters and standard errors for the longitudinal models for ADHD symptoms. M1 is the most general model, whereas M2 constrains the effects of the biometrical latent variables associated with the ADHD factors to equality for males and females.

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  |  | **M1** | | | |  | **M2** | | | |
|  |  | Male | | Female | |  | Male | | Female | |
| Par | Pos | Estimate | SE | Estimate | SE |  | Estimate | SE | Estimate | SE |
|  |  |  |  |  |  |  |  |  |  |  |
|  | 1 | 0.00 |  | 0.00 |  |  | 0.00 |  | 0.00 |  |
|  | 2 | -0.17 | 0.04 | -0.18 | 0.04 |  | -0.25 | 0.04 | -0.10 | 0.03 |
|  | 3 | 0.38 | 0.04 | 0.23 | 0.05 |  | 0.30 | 0.04 | 0.31 | 0.04 |
|  | 4 | 0.52 | 0.04 | 0.43 | 0.05 |  | 0.44 | 0.04 | 0.52 | 0.04 |
|  | 5 | 0.00 |  | 0.00 |  |  | 0.00 |  | 0.00 |  |
|  | 6 | -0.11 | 0.03 | -0.02 | 0.04 |  | -0.15 | 0.03 | 0.01 | 0.03 |
|  | 7 | -0.19 | 0.06 | -0.45 | 0.07 |  | -0.31 | 0.05 | -0.37 | 0.05 |
|  | 8 | 0.12 | 0.06 | -0.07 | 0.06 |  | 0.01 | 0.05 | 0.00 | 0.05 |
|  | 9 | 0.35 | 0.04 | 0.25 | 0.04 |  | 0.31 | 0.03 | 0.28 | 0.04 |
|  | 10 | 0.35 | 0.04 | 0.24 | 0.05 |  | 0.30 | 0.04 | 0.28 | 0.04 |
|  | 11 | 0.00 |  | 0.00 |  |  | 0.00 |  | 0.00 |  |
|  | 12 | -0.08 | 0.04 | 0.03 | 0.04 |  | -0.24 | 0.04 | 0.15 | 0.03 |
|  | 13 | -0.42 | 0.07 | -1.01 | 0.09 |  | -0.82 | 0.07 | -0.65 | 0.06 |
|  | 14 | -0.12 | 0.06 | -0.77 | 0.09 |  | -0.46 | 0.06 | -0.44 | 0.06 |
|  | 15 | 0.35 | 0.04 | 0.10 | 0.06 |  | 0.20 | 0.04 | 0.26 | 0.04 |
|  | 16 | 0.07 | 0.04 | -0.02 | 0.06 |  | -0.12 | 0.05 | 0.14 | 0.04 |
|  |  |  |  |  |  |  |  |  |  |  |
|  | 1 | 1.41 | 0.01 | 1.35 | 0.00 |  | 1.40 | 0.00 | 1.35 | 0.00 |
|  | 2 | 1.38 | 0.01 | 1.33 | 0.01 |  | 1.38 | 0.01 | 1.33 | 0.01 |
|  | 3 | 1.33 | 0.01 | 1.22 | 0.01 |  | 1.33 | 0.01 | 1.22 | 0.01 |
|  |  |  |  |  |  |  |  |  |  |  |
|  | 1,1 | 1.00 |  | 1.00 |  |  | 1.00 |  | 1.00 |  |
|  | 2,1 | 1.09 | 0.03 | 1.10 | 0.03 |  | 1.15 | 0.03 | 1.04 | 0.02 |
|  | 3,1 | 0.98 | 0.03 | 1.10 | 0.04 |  | 1.03 | 0.03 | 1.04 | 0.03 |
|  | 4,1 | 1.12 | 0.03 | 1.22 | 0.04 |  | 1.18 | 0.03 | 1.15 | 0.03 |
|  | 5,2 | 1.00 |  | 1.00 |  |  | 1.00 |  | 1.00 |  |
|  | 6,2 | 1.03 | 0.02 | 0.95 | 0.03 |  | 1.06 | 0.02 | 0.93 | 0.02 |
|  | 7,2 | 1.40 | 0.04 | 1.61 | 0.05 |  | 1.49 | 0.04 | 1.55 | 0.04 |
|  | 8,2 | 1.21 | 0.04 | 1.40 | 0.05 |  | 1.29 | 0.04 | 1.35 | 0.04 |
|  | 9,2 | 0.72 | 0.03 | 0.88 | 0.03 |  | 0.75 | 0.02 | 0.85 | 0.03 |
|  | 10,2 | 1.05 | 0.03 | 1.17 | 0.04 |  | 1.09 | 0.03 | 1.14 | 0.03 |
|  | 11,3 | 1.00 |  | 1.00 |  |  | 1.00 |  | 1.00 |  |
|  | 12,3 | 1.01 | 0.03 | 0.95 | 0.03 |  | 1.14 | 0.03 | 0.85 | 0.03 |
|  | 13,3 | 1.52 | 0.05 | 2.08 | 0.08 |  | 1.82 | 0.05 | 1.78 | 0.05 |
|  | 14,3 | 1.27 | 0.05 | 1.90 | 0.07 |  | 1.53 | 0.05 | 1.63 | 0.05 |
|  | 15,3 | 0.70 | 0.03 | 1.04 | 0.05 |  | 0.81 | 0.03 | 0.91 | 0.03 |
|  | 16,3 | 1.05 | 0.03 | 1.20 | 0.05 |  | 1.19 | 0.03 | 1.06 | 0.03 |
|  |  |  |  |  |  |  |  |  |  |  |
|  | 1,1 | 0.27 | 0.02 | 0.21 | 0.02 |  | 0.24 | 0.01 | 0.24 | 0.01 |
|  | 2,1 | 0.19 | 0.02 | 0.17 | 0.02 |  | 0.17 | 0.01 | 0.17 | 0.01 |
|  | 3,1 | 0.12 | 0.02 | 0.09 | 0.02 |  | 0.10 | 0.02 | 0.10 | 0.02 |
|  | 2,2 | 0.16 | 0.01 | 0.13 | 0.01 |  | -0.14 | 0.01 | -0.14 | 0.01 |
|  | 3,2 | 0.16 | 0.02 | 0.10 | 0.01 |  | -0.12 | 0.01 | -0.12 | 0.01 |
|  | 3,3 | -0.10 | 0.03 | -0.06 | 0.02 |  | -0.08 | 0.02 | -0.08 | 0.02 |
|  |  |  |  |  |  |  |  |  |  |  |
|  | 1,1 | -0.08 | 0.02 | -0.08 | 0.02 |  | 0.08 | 0.02 | 0.08 | 0.02 |
|  | 2,1 | -0.08 | 0.02 | -0.08 | 0.02 |  | 0.08 | 0.02 | 0.08 | 0.02 |
|  | 3,1 | -0.08 | 0.03 | -0.06 | 0.02 |  | 0.07 | 0.02 | 0.07 | 0.02 |
|  | 2,2 | 0.00 | 0.05 | 0.00 | 0.07 |  | 0.00 | 0.04 | 0.00 | 0.04 |
|  | 3,2 | 0.00 | 0.10 | 0.00 | 0.05 |  | 0.00 | 0.04 | 0.00 | 0.04 |
|  | 3,3 | 0.00 | 0.06 | 0.00 | 0.04 |  | 0.00 | 0.04 | 0.00 | 0.04 |
|  |  |  |  |  |  |  |  |  |  |  |
|  | 1,1 | 0.08 | 0.02 | 0.12 | 0.01 |  | -0.10 | 0.01 | -0.10 | 0.01 |
|  | 2,1 | -0.04 | 0.03 | 0.01 | 0.02 |  | 0.01 | 0.02 | 0.01 | 0.02 |
|  | 3,1 | -0.01 | 0.03 | 0.01 | 0.02 |  | 0.00 | 0.02 | 0.00 | 0.02 |
|  | 2,2 | 0.08 | 0.02 | -0.13 | 0.01 |  | 0.12 | 0.01 | 0.12 | 0.01 |
|  | 3,2 | 0.01 | 0.04 | -0.03 | 0.01 |  | 0.02 | 0.02 | 0.02 | 0.02 |
|  | 3,3 | 0.13 | 0.02 | 0.13 | 0.01 |  | -0.14 | 0.01 | -0.14 | 0.01 |
|  |  |  |  |  |  |  |  |  |  |  |
|  | 1,1 | 0.10 | 0.03 | 0.08 | 0.03 |  | 0.09 | 0.02 | 0.09 | 0.02 |
|  | 2,1 | -0.02 | 0.03 | -0.02 | 0.04 |  | -0.01 | 0.03 | -0.01 | 0.03 |
|  | 3,1 | -0.01 | 0.04 | 0.01 | 0.03 |  | 0.01 | 0.03 | 0.01 | 0.03 |
|  | 2,2 | 0.08 | 0.03 | -0.01 | 0.05 |  | 0.05 | 0.03 | 0.05 | 0.03 |
|  | 3,2 | -0.04 | 0.05 | 0.02 | 0.03 |  | -0.01 | 0.05 | -0.01 | 0.05 |
|  | 3,3 | 0.08 | 0.05 | 0.02 | 0.03 |  | 0.05 | 0.03 | 0.05 | 0.03 |
|  |  |  |  |  |  |  |  |  |  |  |
|  | 1,1 | 0.20 | 0.02 | 0.25 | 0.02 |  | 0.21 | 0.02 | 0.25 | 0.02 |
|  | 5,1 | 0.20 | 0.02 | 0.20 | 0.04 |  | 0.20 | 0.02 | 0.20 | 0.03 |
|  | 11,1 | 0.11 | 0.03 | 0.09 | 0.03 |  | 0.10 | 0.03 | 0.08 | 0.03 |
|  | 2,2 | 0.24 | 0.02 | 0.19 | 0.03 |  | 0.24 | 0.02 | 0.19 | 0.02 |
|  | 6,2 | 0.19 | 0.03 | 0.18 | 0.02 |  | 0.20 | 0.03 | 0.18 | 0.02 |
|  | 12,2 | 0.10 | 0.04 | 0.11 | 0.02 |  | 0.11 | 0.04 | 0.11 | 0.02 |
|  | 3,3 | 0.43 | 0.02 | 0.28 | 0.04 |  | 0.43 | 0.02 | 0.28 | 0.04 |
|  | 9,3 | 0.14 | 0.03 | 0.17 | 0.04 |  | 0.15 | 0.03 | 0.17 | 0.04 |
|  | 15,3 | 0.08 | 0.03 | 0.13 | 0.04 |  | 0.08 | 0.03 | 0.14 | 0.04 |
|  | 4,4 | 0.24 | 0.03 | 0.28 | 0.03 |  | -0.25 | 0.03 | -0.28 | 0.03 |
|  | 10,4 | 0.30 | 0.04 | 0.18 | 0.07 |  | -0.30 | 0.04 | -0.18 | 0.06 |
|  | 16,4 | 0.13 | 0.05 | 0.16 | 0.08 |  | -0.12 | 0.04 | -0.15 | 0.06 |
|  | 5,5 | 0.16 | 0.04 | 0.09 | 0.07 |  | 0.16 | 0.04 | 0.12 | 0.05 |
|  | 11,5 | 0.16 | 0.05 | 0.11 | 0.05 |  | 0.14 | 0.05 | 0.09 | 0.05 |
|  | 6,6 | 0.16 | 0.04 | 0.06 | 0.05 |  | 0.16 | 0.04 | 0.06 | 0.05 |
|  | 12,6 | -0.01 | 0.08 | -0.06 | 0.05 |  | -0.01 | 0.08 | -0.06 | 0.05 |
|  | 7,7 | 0.20 | 0.02 | 0.22 | 0.04 |  | -0.20 | 0.02 | -0.22 | 0.04 |
|  | 13,7 | 0.15 | 0.04 | 0.17 | 0.04 |  | -0.14 | 0.04 | -0.18 | 0.04 |
|  | 8,8 | 0.26 | 0.02 | 0.30 | 0.03 |  | 0.26 | 0.02 | 0.30 | 0.04 |
|  | 14,8 | 0.26 | 0.02 | 0.20 | 0.03 |  | 0.25 | 0.02 | 0.21 | 0.03 |
|  | 9,9 | 0.20 | 0.03 | 0.26 | 0.03 |  | 0.20 | 0.03 | 0.26 | 0.03 |
|  | 15,9 | 0.11 | 0.03 | 0.20 | 0.04 |  | 0.11 | 0.03 | 0.20 | 0.04 |
|  | 10,10 | 0.26 | 0.04 | 0.23 | 0.06 |  | 0.26 | 0.04 | 0.23 | 0.05 |
|  | 16,10 | 0.25 | 0.04 | 0.21 | 0.07 |  | 0.25 | 0.04 | 0.21 | 0.06 |
|  | 11,11 | 0.08 | 0.10 | 0.06 | 0.09 |  | 0.13 | 0.05 | 0.08 | 0.06 |
|  | 12,12 | 0.16 | 0.06 | 0.01 | 0.08 |  | 0.16 | 0.06 | 0.01 | 0.07 |
|  | 13,13 | 0.19 | 0.05 | -0.03 | 0.08 |  | -0.19 | 0.04 | 0.03 | 0.07 |
|  | 14,14 | -0.06 | 0.06 | 0.17 | 0.04 |  | 0.06 | 0.06 | -0.17 | 0.04 |
|  | 15,15 | 0.17 | 0.04 | 0.14 | 0.05 |  | 0.17 | 0.04 | 0.14 | 0.05 |
|  | 16,16 | 0.05 | 0.12 | 0.20 | 0.08 |  | 0.05 | 0.10 | 0.20 | 0.07 |
|  |  |  |  |  |  |  |  |  |  |  |
|  | 1,1 | -0.03 | 0.04 | 0.03 | 0.05 |  | -0.03 | 0.04 | 0.03 | 0.04 |
|  | 5,1 | 0.00 | 0.05 | -0.08 | 0.04 |  | 0.00 | 0.05 | -0.05 | 0.05 |
|  | 11,1 | -0.03 | 0.05 | 0.04 | 0.04 |  | -0.04 | 0.05 | 0.05 | 0.04 |
|  | 2,2 | -0.01 | 0.05 | 0.05 | 0.05 |  | -0.02 | 0.05 | 0.05 | 0.05 |
|  | 6,2 | 0.03 | 0.05 | 0.04 | 0.04 |  | 0.02 | 0.05 | 0.04 | 0.04 |
|  | 12,2 | 0.08 | 0.05 | 0.03 | 0.04 |  | 0.08 | 0.05 | 0.03 | 0.04 |
|  | 3,3 | 0.16 | 0.02 | 0.25 | 0.03 |  | -0.16 | 0.02 | -0.25 | 0.03 |
|  | 9,3 | 0.14 | 0.03 | 0.15 | 0.03 |  | -0.13 | 0.03 | -0.14 | 0.03 |
|  | 15,3 | 0.08 | 0.02 | 0.07 | 0.03 |  | -0.08 | 0.02 | -0.07 | 0.03 |
|  | 4,4 | 0.13 | 0.03 | 0.13 | 0.03 |  | 0.13 | 0.03 | 0.14 | 0.03 |
|  | 10,4 | 0.06 | 0.03 | 0.21 | 0.07 |  | 0.06 | 0.03 | 0.20 | 0.06 |
|  | 16,4 | 0.12 | 0.04 | 0.07 | 0.07 |  | 0.13 | 0.04 | 0.08 | 0.06 |
|  | 5,5 | 0.00 | 0.06 | 0.00 | 0.13 |  | 0.00 | 0.06 | 0.00 | 0.09 |
|  | 11,5 | 0.00 | 0.07 | 0.00 | 0.09 |  | 0.00 | 0.06 | 0.00 | 0.08 |
|  | 6,6 | 0.00 | 0.06 | 0.00 | 0.06 |  | 0.00 | 0.06 | 0.00 | 0.06 |
|  | 12,6 | 0.00 | 0.08 | 0.00 | 0.05 |  | 0.00 | 0.08 | 0.00 | 0.05 |
|  | 7,7 | 0.02 | 0.04 | -0.09 | 0.05 |  | 0.02 | 0.04 | -0.09 | 0.05 |
|  | 13,7 | 0.02 | 0.04 | 0.07 | 0.04 |  | 0.01 | 0.04 | 0.07 | 0.04 |
|  | 8,8 | -0.04 | 0.05 | 0.10 | 0.06 |  | -0.04 | 0.05 | 0.10 | 0.06 |
|  | 14,8 | -0.03 | 0.05 | 0.02 | 0.04 |  | -0.02 | 0.05 | 0.02 | 0.04 |
|  | 9,9 | -0.03 | 0.06 | 0.02 | 0.07 |  | 0.03 | 0.06 | -0.02 | 0.06 |
|  | 15,9 | 0.02 | 0.05 | 0.00 | 0.05 |  | -0.02 | 0.05 | 0.00 | 0.05 |
|  | 10,10 | 0.00 | 0.05 | 0.05 | 0.22 |  | 0.01 | 0.05 | -0.07 | 0.14 |
|  | 16,10 | 0.00 | 0.07 | -0.03 | 0.12 |  | 0.00 | 0.07 | 0.03 | 0.09 |
|  | 11,11 | 0.00 | 0.06 | 0.00 | 0.06 |  | 0.00 | 0.06 | 0.00 | 0.06 |
|  | 12,12 | 0.00 | 0.06 | 0.00 | 0.04 |  | 0.00 | 0.06 | 0.00 | 0.04 |
|  | 13,13 | 0.00 | 0.06 | 0.00 | 0.07 |  | 0.00 | 0.06 | 0.00 | 0.07 |
|  | 14,14 | 0.00 | 0.06 | 0.00 | 0.06 |  | 0.00 | 0.06 | 0.00 | 0.06 |
|  | 15,15 | 0.00 | 0.06 | 0.00 | 0.06 |  | 0.00 | 0.06 | 0.00 | 0.06 |
|  | 16,16 | 0.00 | 0.07 | 0.00 | 0.12 |  | 0.00 | 0.07 | 0.00 | 0.11 |
|  |  |  |  |  |  |  |  |  |  |  |
|  | 1,1 | 0.30 | 0.01 | 0.29 | 0.02 |  | -0.30 | 0.01 | 0.30 | 0.02 |
|  | 5,1 | 0.04 | 0.03 | -0.05 | 0.03 |  | -0.05 | 0.03 | -0.02 | 0.02 |
|  | 11,1 | -0.02 | 0.03 | 0.01 | 0.02 |  | 0.04 | 0.03 | 0.00 | 0.02 |
|  | 2,2 | 0.24 | 0.02 | 0.28 | 0.01 |  | -0.24 | 0.02 | 0.28 | 0.01 |
|  | 6,2 | -0.01 | 0.03 | 0.03 | 0.03 |  | 0.02 | 0.03 | 0.03 | 0.02 |
|  | 12,2 | 0.04 | 0.03 | 0.04 | 0.02 |  | -0.04 | 0.03 | 0.04 | 0.02 |
|  | 3,3 | 0.15 | 0.01 | 0.24 | 0.01 |  | 0.15 | 0.01 | -0.24 | 0.01 |
|  | 9,3 | -0.04 | 0.04 | -0.04 | 0.03 |  | -0.06 | 0.04 | 0.05 | 0.03 |
|  | 15,3 | -0.10 | 0.04 | 0.00 | 0.04 |  | -0.12 | 0.04 | 0.00 | 0.04 |
|  | 4,4 | 0.28 | 0.02 | 0.26 | 0.02 |  | 0.27 | 0.02 | 0.26 | 0.02 |
|  | 10,4 | -0.05 | 0.03 | -0.08 | 0.03 |  | -0.05 | 0.03 | -0.08 | 0.03 |
|  | 16,4 | -0.02 | 0.03 | -0.06 | 0.04 |  | -0.02 | 0.03 | -0.06 | 0.04 |
|  | 5,5 | 0.31 | 0.03 | 0.37 | 0.02 |  | 0.31 | 0.02 | -0.36 | 0.02 |
|  | 11,5 | 0.03 | 0.03 | 0.07 | 0.02 |  | -0.02 | 0.03 | -0.06 | 0.02 |
|  | 6,6 | 0.32 | 0.02 | 0.30 | 0.02 |  | 0.31 | 0.02 | 0.30 | 0.02 |
|  | 12,6 | 0.02 | 0.03 | 0.07 | 0.03 |  | 0.02 | 0.03 | 0.07 | 0.03 |
|  | 7,7 | 0.32 | 0.02 | 0.35 | 0.02 |  | 0.31 | 0.02 | -0.35 | 0.02 |
|  | 13,7 | -0.06 | 0.03 | -0.02 | 0.02 |  | -0.06 | 0.03 | 0.01 | 0.02 |
|  | 8,8 | 0.33 | 0.02 | 0.31 | 0.02 |  | 0.33 | 0.02 | -0.31 | 0.02 |
|  | 14,8 | -0.06 | 0.03 | -0.04 | 0.04 |  | -0.06 | 0.03 | 0.04 | 0.03 |
|  | 9,9 | 0.42 | 0.01 | 0.36 | 0.02 |  | 0.42 | 0.01 | -0.36 | 0.02 |
|  | 15,9 | 0.03 | 0.03 | -0.01 | 0.05 |  | 0.02 | 0.03 | 0.02 | 0.05 |
|  | 10,10 | 0.31 | 0.02 | 0.37 | 0.02 |  | -0.32 | 0.02 | -0.37 | 0.02 |
|  | 16,10 | -0.02 | 0.03 | 0.00 | 0.03 |  | 0.01 | 0.03 | 0.00 | 0.03 |
|  | 11,11 | 0.34 | 0.02 | 0.31 | 0.01 |  | 0.34 | 0.02 | 0.31 | 0.02 |
|  | 12,12 | 0.31 | 0.02 | 0.29 | 0.02 |  | 0.31 | 0.02 | 0.29 | 0.02 |
|  | 13,13 | 0.20 | 0.03 | 0.28 | 0.02 |  | 0.19 | 0.03 | -0.29 | 0.02 |
|  | 14,14 | 0.31 | 0.03 | 0.27 | 0.03 |  | -0.31 | 0.02 | -0.28 | 0.03 |
|  | 15,15 | 0.33 | 0.02 | 0.38 | 0.03 |  | 0.32 | 0.02 | 0.38 | 0.03 |
|  | 16,16 | 0.29 | 0.02 | 0.34 | 0.03 |  | 0.29 | 0.02 | -0.34 | 0.02 |
|  |  |  |  |  |  |  |  |  |  |  |
|  | 1,1 | 0.29 | 0.02 | 0.25 | 0.02 |  | 0.29 | 0.02 | 0.24 | 0.02 |
|  | 5,1 | -0.07 | 0.04 | 0.01 | 0.03 |  | -0.08 | 0.03 | -0.03 | 0.03 |
|  | 11,1 | 0.02 | 0.03 | -0.02 | 0.03 |  | 0.05 | 0.03 | 0.00 | 0.03 |
|  | 2,2 | 0.27 | 0.02 | 0.22 | 0.02 |  | 0.27 | 0.02 | 0.22 | 0.02 |
|  | 6,2 | -0.01 | 0.03 | -0.03 | 0.03 |  | -0.01 | 0.03 | -0.03 | 0.03 |
|  | 12,2 | -0.04 | 0.03 | -0.05 | 0.03 |  | -0.04 | 0.03 | -0.05 | 0.03 |
|  | 3,3 | 0.37 | 0.02 | 0.39 | 0.02 |  | -0.37 | 0.02 | -0.39 | 0.02 |
|  | 9,3 | -0.04 | 0.02 | -0.01 | 0.02 |  | 0.04 | 0.02 | 0.01 | 0.02 |
|  | 15,3 | 0.01 | 0.02 | -0.03 | 0.03 |  | -0.01 | 0.02 | 0.03 | 0.03 |
|  | 4,4 | 0.28 | 0.02 | 0.27 | 0.02 |  | 0.28 | 0.02 | 0.27 | 0.02 |
|  | 10,4 | -0.03 | 0.03 | 0.01 | 0.04 |  | -0.03 | 0.03 | 0.01 | 0.03 |
|  | 16,4 | 0.00 | 0.03 | -0.01 | 0.04 |  | 0.00 | 0.03 | -0.01 | 0.04 |
|  | 5,5 | 0.18 | 0.07 | 0.11 | 0.07 |  | 0.19 | 0.05 | -0.12 | 0.05 |
|  | 11,5 | -0.07 | 0.06 | -0.07 | 0.05 |  | 0.07 | 0.06 | 0.06 | 0.05 |
|  | 6,6 | -0.12 | 0.04 | 0.21 | 0.03 |  | 0.14 | 0.04 | -0.21 | 0.03 |
|  | 12,6 | -0.11 | 0.04 | 0.00 | 0.04 |  | 0.12 | 0.04 | 0.01 | 0.04 |
|  | 7,7 | 0.27 | 0.02 | 0.12 | 0.04 |  | 0.27 | 0.02 | 0.12 | 0.04 |
|  | 13,7 | 0.03 | 0.04 | -0.13 | 0.05 |  | 0.02 | 0.04 | -0.13 | 0.05 |
|  | 8,8 | 0.28 | 0.03 | 0.21 | 0.03 |  | 0.28 | 0.03 | 0.21 | 0.03 |
|  | 14,8 | 0.00 | 0.04 | -0.08 | 0.05 |  | 0.00 | 0.04 | -0.08 | 0.05 |
|  | 9,9 | 0.01 | 0.06 | 0.19 | 0.05 |  | -0.01 | 0.07 | -0.19 | 0.04 |
|  | 15,9 | -0.15 | 0.06 | 0.03 | 0.09 |  | 0.15 | 0.06 | -0.04 | 0.09 |
|  | 10,10 | 0.24 | 0.03 | 0.23 | 0.03 |  | -0.23 | 0.03 | -0.23 | 0.03 |
|  | 16,10 | -0.12 | 0.05 | -0.06 | 0.05 |  | 0.12 | 0.06 | 0.06 | 0.06 |
|  | 11,11 | -0.09 | 0.06 | 0.13 | 0.05 |  | -0.11 | 0.06 | 0.14 | 0.05 |
|  | 12,12 | 0.06 | 0.08 | -0.14 | 0.04 |  | -0.07 | 0.08 | 0.13 | 0.04 |
|  | 13,13 | 0.28 | 0.02 | 0.14 | 0.05 |  | -0.27 | 0.02 | -0.13 | 0.05 |
|  | 14,14 | 0.23 | 0.04 | 0.19 | 0.04 |  | -0.22 | 0.04 | -0.18 | 0.05 |
|  | 15,15 | 0.12 | 0.08 | 0.20 | 0.05 |  | -0.12 | 0.08 | -0.20 | 0.05 |
|  | 16,16 | 0.22 | 0.05 | 0.10 | 0.07 |  | 0.23 | 0.05 | 0.10 | 0.07 |

Par = parameter matrix; Position = parameter position in the parameter matrices described above; Estimate = parameter estimate; SE = standard error.