

Comparison of Versions of Kinship Links

Joe Rodger's BG Team

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Outcome: Afi;

RelationshipPath: Gen1Housemates [ID:1]; **Newer Links Version:** 49; **Older Links Version:** 48;

Newer Links: RExplicit2004 no longer contributes to R

Older Links: Implements MzManual for Gen1

R Groups specifically excluded: { }

Drop pair if housemates are not confirmed in the same generation: TRUE

1 Ace - Comparison of R Variants

(See the final table for an explanation of the different R variants.)

| R Variant | a_{new}^2 | c_{new}^2 | e_{new}^2 | N_{new} | a_{old}^2 | c_{old}^2 | e_{old}^2 | N_{old} |
|---------------|-------------|-------------|-------------|-----------|-------------|-------------|-------------|-----------|
| R | .07 | .21 | .72 | 3526 | .07 | .21 | .73 | 3787 |
| RExplicit | .00 | .24 | .76 | 3205 | .00 | .24 | .76 | 3205 |
| RImplicit2004 | .00 | .23 | .77 | 1876 | .00 | .23 | .77 | 1876 |

Table 1: Comparison of R Variants (by rows) and of Links Versions (left vs right side).

2 Subgroups – R

| R | Included in SEM | N_{Pairs} | s_1^2 | s_2^2 | $s_{1,2}$ | r | Determinant | PosDefinite |
|-------|-----------------|-------------|---------|---------|-----------|-------|-------------|-------------|
| 0.000 | TRUE | 270 | 6.04 | 4.87 | 0.72 | 0.13 | 28.9 | TRUE |
| 0.125 | TRUE | 56 | 3.45 | 4.86 | 0.77 | 0.19 | 16.2 | TRUE |
| 0.250 | TRUE | 231 | 8.13 | 6.74 | 1.37 | 0.18 | 52.9 | TRUE |
| 0.375 | TRUE | 41 | 5.46 | 4.35 | -0.59 | -0.12 | 23.4 | TRUE |
| 0.500 | TRUE | 2906 | 7.23 | 6.17 | 1.64 | 0.25 | 41.9 | TRUE |
| 0.750 | TRUE | 14 | 4.75 | 2.29 | 1.44 | 0.44 | 8.8 | TRUE |
| 1.000 | TRUE | 8 | 14.98 | 6.79 | 8.61 | 0.85 | 27.6 | TRUE |

Table 2: R – Newer Version of Links

| R | Included in SEM | N_{Pairs} | s_1^2 | s_2^2 | $s_{1,2}$ | r | Determinant | PosDefinite |
|-------|-----------------|-------------|---------|---------|-----------|------|-------------|-------------|
| 0.000 | TRUE | 270 | 6.04 | 4.87 | 0.72 | 0.13 | 28.9 | TRUE |
| 0.125 | TRUE | 63 | 3.18 | 4.52 | 0.79 | 0.21 | 13.8 | TRUE |
| 0.250 | TRUE | 240 | 7.92 | 6.81 | 1.24 | 0.17 | 52.4 | TRUE |
| 0.375 | TRUE | 87 | 6.40 | 6.02 | 0.70 | 0.11 | 38.1 | TRUE |
| 0.500 | TRUE | 3105 | 7.19 | 6.05 | 1.61 | 0.24 | 40.9 | TRUE |
| 0.750 | TRUE | 14 | 4.75 | 2.29 | 1.44 | 0.44 | 8.8 | TRUE |
| 1.000 | TRUE | 8 | 14.98 | 6.79 | 8.61 | 0.85 | 27.6 | TRUE |

Table 3: R – Older Version of Links

3 Subgroups – RExplicit

| RExplicit | Included in SEM | N_{Pairs} | s_1^2 | s_2^2 | $s_{1,2}$ | r | Determinant | PosDefinite |
|-----------|-----------------|-------------|---------|---------|-----------|-------|-------------|-------------|
| 0.250 | TRUE | 236 | 8.07 | 6.95 | 1.26 | 0.17 | 54.5 | TRUE |
| 0.375 | TRUE | 41 | 5.46 | 4.35 | -0.59 | -0.12 | 23.4 | TRUE |
| 0.500 | TRUE | 2928 | 7.24 | 6.17 | 1.66 | 0.25 | 41.9 | TRUE |

Table 4: RExplicit – Newer Version of Links

| RExplicit | Included in SEM | N_{Pairs} | s_1^2 | s_2^2 | $s_{1,2}$ | r | Determinant | PosDefinite |
|-----------|-----------------|-------------|---------|---------|-----------|-------|-------------|-------------|
| 0.250 | TRUE | 236 | 8.07 | 6.95 | 1.26 | 0.17 | 54.5 | TRUE |
| 0.375 | TRUE | 41 | 5.46 | 4.35 | -0.59 | -0.12 | 23.4 | TRUE |
| 0.500 | TRUE | 2928 | 7.24 | 6.17 | 1.66 | 0.25 | 41.9 | TRUE |

Table 5: RExplicit – Older Version of Links

4 Subgroups – RImplicit2004

| RImplicit2004 | Included in SEM | N_{Pairs} | s_1^2 | s_2^2 | $s_{1,2}$ | r | Determinant | PosDefinite |
|---------------|-----------------|-------------|---------|---------|-----------|------|-------------|-------------|
| 0.125 | TRUE | 63 | 3.24 | 3.76 | 0.83 | 0.24 | 11.5 | TRUE |
| 0.250 | TRUE | 38 | 2.81 | 3.05 | 0.33 | 0.11 | 8.5 | TRUE |
| 0.375 | TRUE | 270 | 4.95 | 6.15 | 1.33 | 0.24 | 28.6 | TRUE |
| 0.500 | TRUE | 1482 | 7.30 | 5.75 | 1.42 | 0.22 | 40.0 | TRUE |
| 0.750 | TRUE | 23 | 5.97 | 8.21 | 3.61 | 0.52 | 35.9 | TRUE |

Table 6: RImplicit2004 – Newer Version of Links

| RImplicit2004 | Included in SEM | N_{Pairs} | s_1^2 | s_2^2 | $s_{1,2}$ | r | Determinant | PosDefinite |
|---------------|-----------------|-------------|---------|---------|-----------|------|-------------|-------------|
| 0.125 | TRUE | 63 | 3.24 | 3.76 | 0.83 | 0.24 | 11.5 | TRUE |
| 0.250 | TRUE | 38 | 2.81 | 3.05 | 0.33 | 0.11 | 8.5 | TRUE |
| 0.375 | TRUE | 270 | 4.95 | 6.15 | 1.33 | 0.24 | 28.6 | TRUE |
| 0.500 | TRUE | 1482 | 7.30 | 5.75 | 1.42 | 0.22 | 40.0 | TRUE |
| 0.750 | TRUE | 23 | 5.97 | 8.21 | 3.61 | 0.52 | 35.9 | TRUE |

Table 7: RImplicit2004 – Older Version of Links

5 Explanation of R Variants

| Variant | Explanation |
|--------------------------|---|
| R | We recommend researchers typical use this version. |
| R_{Pass1} | Supposed to be fooled only by errors in the subject’s/mother’s knowledge |
| $R_{Implicit}$ | Uses only implicit items |
| $R_{Implicit_{Pass1}}$ | Uses only implicit items & supposed to be fooled only by knowledge errors |
| $R_{Implicit_{Mother}}$ | Uses only mother’s implicit items (exists only for Gen2) |
| $R_{Implicit_{Subject}}$ | Uses only subject’s implicit items |
| $R_{Implicit_{2004}}$ | The state of the links in 2004. Rodgers & Rowe for Gen1; Rodgers, Johnson & Bard for Gen2 |
| $R_{Explicit}$ | Uses only explicit items |
| $R_{Explicit_{Pass1}}$ | Uses only explicit items & supposed to be fooled only by knowledge errors |