

Comparison of Versions of Kinship Links

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Outcome: Afm;

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: { 0 }

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 | .53 | .00 | .47 | 885 | .57 | .00 | .43 | 967 |
| RExplicit | .51 | .00 | .49 | 864 | .51 | .00 | .49 | 864 |
| RImplicit2004 | .54 | .04 | .42 | 541 | .54 | .04 | .42 | 541 |

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 | FALSE | 20 | 1.82 | 2.13 | -0.26 | -0.13 | 3.8 | TRUE |
| 0.125 | TRUE | 18 | 2.64 | 2.94 | 0.51 | 0.18 | 7.5 | TRUE |
| 0.250 | TRUE | 56 | 2.14 | 2.58 | 0.29 | 0.13 | 5.4 | TRUE |
| 0.375 | TRUE | 7 | 23.29 | 3.57 | -0.02 | -0.00 | 83.2 | TRUE |
| 0.500 | TRUE | 792 | 2.69 | 2.32 | 0.64 | 0.26 | 5.8 | TRUE |
| 0.750 | TRUE | 7 | 0.95 | 2.48 | 0.76 | 0.50 | 1.8 | TRUE |
| 1.000 | TRUE | 5 | 1.30 | 1.70 | 1.15 | 0.77 | 0.9 | 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 | FALSE | 20 | 1.82 | 2.13 | -0.26 | -0.13 | 3.8 | TRUE |
| 0.125 | TRUE | 21 | 2.53 | 2.61 | 0.44 | 0.17 | 6.4 | TRUE |
| 0.250 | TRUE | 57 | 2.11 | 2.65 | 0.26 | 0.11 | 5.5 | TRUE |
| 0.375 | TRUE | 24 | 7.74 | 3.07 | 0.77 | 0.16 | 23.1 | TRUE |
| 0.500 | TRUE | 853 | 2.63 | 2.27 | 0.66 | 0.27 | 5.5 | TRUE |
| 0.750 | TRUE | 7 | 0.95 | 2.48 | 0.76 | 0.50 | 1.8 | TRUE |
| 1.000 | TRUE | 5 | 1.30 | 1.70 | 1.15 | 0.77 | 0.9 | 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 | 56 | 2.14 | 2.58 | 0.29 | 0.13 | 5.4 | TRUE |
| 0.375 | TRUE | 7 | 23.29 | 3.57 | -0.02 | -0.00 | 83.2 | TRUE |
| 0.500 | TRUE | 801 | 2.68 | 2.31 | 0.64 | 0.26 | 5.8 | 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 | 56 | 2.14 | 2.58 | 0.29 | 0.13 | 5.4 | TRUE |
| 0.375 | TRUE | 7 | 23.29 | 3.57 | -0.02 | -0.00 | 83.2 | TRUE |
| 0.500 | TRUE | 801 | 2.68 | 2.31 | 0.64 | 0.26 | 5.8 | 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 | 22 | 1.64 | 3.71 | 0.55 | 0.22 | 5.8 | TRUE |
| 0.250 | TRUE | 9 | 0.50 | 3.78 | -0.12 | -0.09 | 1.9 | TRUE |
| 0.375 | TRUE | 70 | 3.53 | 2.75 | 1.02 | 0.33 | 8.7 | TRUE |
| 0.500 | TRUE | 427 | 2.28 | 2.13 | 0.65 | 0.29 | 4.5 | TRUE |
| 0.750 | TRUE | 13 | 2.19 | 3.10 | 1.05 | 0.40 | 5.7 | 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 | 22 | 1.64 | 3.71 | 0.55 | 0.22 | 5.8 | TRUE |
| 0.250 | TRUE | 9 | 0.50 | 3.78 | -0.12 | -0.09 | 1.9 | TRUE |
| 0.375 | TRUE | 70 | 3.53 | 2.75 | 1.02 | 0.33 | 8.7 | TRUE |
| 0.500 | TRUE | 427 | 2.28 | 2.13 | 0.65 | 0.29 | 4.5 | TRUE |
| 0.750 | TRUE | 13 | 2.19 | 3.10 | 1.05 | 0.40 | 5.7 | 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 |