Comparison of Versions of Kinship Links Joe Rodger's BG Team

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Outcome: WeightZGenderYob;

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

Newer Links: RExplicit2004 no longer contributes to $\ensuremath{\mathtt{R}}$

Older Links: Implements MzManual for Gen1 R Groups specifically excluded: { 0 }

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

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 | .64 | .0 | .36 | 3780 | .64 | .0 | .36 | 4098 |
| RExplicit | .64 | .0 | .36 | 3696 | .64 | .0 | .36 | 3696 |
| RImplicit2004 | .45 | .1 | .44 | 2257 | .45 | .1 | .44 | 2257 |

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 | 439 | 0.80 | 0.90 | 0.22 | 0.26 | 0.7 | TRUE |
| 0.125 | TRUE | 89 | 0.61 | 0.98 | 0.13 | 0.16 | 0.6 | TRUE |
| 0.250 | TRUE | 237 | 0.96 | 1.23 | 0.01 | 0.01 | 1.2 | TRUE |
| 0.375 | TRUE | 44 | 0.84 | 0.91 | 0.36 | 0.41 | 0.6 | TRUE |
| 0.500 | TRUE | 3386 | 1.11 | 1.00 | 0.34 | 0.32 | 1.0 | TRUE |
| 0.750 | TRUE | 13 | 0.64 | 0.49 | 0.31 | 0.55 | 0.2 | TRUE |
| 1.000 | TRUE | 11 | 0.88 | 1.69 | 0.97 | 0.80 | 0.5 | TRUE |

Table 2: R - Newer Version of Links

| \overline{R} | Included in SEM | N_{Pairs} | s_{1}^{2} | s_{2}^{2} | $s_{1,2}$ | r | Determinant | PosDefinite |
|----------------|-----------------|-------------|-------------|-------------|-----------|------|-------------|-------------|
| 0.000 | FALSE | 439 | 0.80 | 0.90 | 0.22 | 0.26 | 0.7 | TRUE |
| 0.125 | TRUE | 96 | 0.61 | 1.01 | 0.16 | 0.20 | 0.6 | TRUE |
| 0.250 | TRUE | 248 | 0.95 | 1.23 | 0.02 | 0.02 | 1.2 | TRUE |
| 0.375 | TRUE | 90 | 1.03 | 1.03 | 0.50 | 0.48 | 0.8 | TRUE |
| 0.500 | TRUE | 3639 | 1.11 | 0.99 | 0.33 | 0.32 | 1.0 | TRUE |
| 0.750 | TRUE | 14 | 0.59 | 0.46 | 0.28 | 0.54 | 0.2 | TRUE |
| 1.000 | TRUE | 11 | 0.88 | 1.69 | 0.97 | 0.80 | 0.5 | 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 | 244 | 0.97 | 1.22 | 0.02 | 0.02 | 1.2 | TRUE |
| 0.375 | TRUE | 44 | 0.84 | 0.91 | 0.36 | 0.41 | 0.6 | TRUE |
| 0.500 | TRUE | 3408 | 1.11 | 1.00 | 0.34 | 0.32 | 1.0 | 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 | 244 | 0.97 | 1.22 | 0.02 | 0.02 | 1.2 | TRUE |
| 0.375 | TRUE | 44 | 0.84 | 0.91 | 0.36 | 0.41 | 0.6 | TRUE |
| 0.500 | TRUE | 3408 | 1.11 | 1.00 | 0.34 | 0.32 | 1.0 | TRUE |

Table 5: R
Explicit – Older Version of Links $\,$

${\bf 4}\quad Subgroups-RImplicit 2004\\$

| RImplicit2004 | Included in SEM | N_{Pairs} | s_{1}^{2} | s_{2}^{2} | $s_{1,2}$ | r | Determinant | PosDefinite |
|---------------|-----------------|-------------|-------------|-------------|-----------|------|-------------|-------------|
| 0.125 | TRUE | 70 | 0.68 | 0.99 | 0.15 | 0.19 | 0.7 | TRUE |
| 0.250 | TRUE | 42 | 0.85 | 0.69 | 0.19 | 0.25 | 0.6 | TRUE |
| 0.375 | TRUE | 297 | 1.01 | 1.09 | 0.32 | 0.30 | 1.0 | TRUE |
| 0.500 | TRUE | 1818 | 1.03 | 0.93 | 0.32 | 0.32 | 0.9 | TRUE |
| 0.750 | TRUE | 30 | 0.76 | 1.31 | 0.66 | 0.66 | 0.6 | TRUE |

Table 6: R
Implicit
2004 – 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 | 70 | 0.68 | 0.99 | 0.15 | 0.19 | 0.7 | TRUE |
| 0.250 | TRUE | 42 | 0.85 | 0.69 | 0.19 | 0.25 | 0.6 | TRUE |
| 0.375 | TRUE | 297 | 1.01 | 1.09 | 0.32 | 0.30 | 1.0 | TRUE |
| 0.500 | TRUE | 1818 | 1.03 | 0.93 | 0.32 | 0.32 | 0.9 | TRUE |
| 0.750 | TRUE | 30 | 0.76 | 1.31 | 0.66 | 0.66 | 0.6 | 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 |
| RImplicit | Uses only implicit items |
| $RImplicit_{Pass1}$ | Uses only implicit items & supposed to be fooled only by knowledge errors |
| $RImplicit_{Mother}$ | Uses only mother's implicit items (exists only for Gen2) |
| $RImplicit_{Subject}$ | Uses only subject's implicit items |
| $RImplicit_{2004}$ | The state of the links in 2004. Rodgers & Rowe for Gen1; Rodgers, Johnson & Bard for Gen2 |
| RExplicit | Uses only explicit items |
| $RExplicit_{Pass1}$ | Uses only explicit items & supposed to be fooled only by knowledge errors |