

Comparison of Versions of Kinship Links

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Outcome: HeightZGenderAge;

Relationship Paths: (Gen2Siblings) [IDs:(2)];

R Groups specifically excluded: { 0.375 }

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

1 Subgroups – R

| R | Included in SEM | N_{Pairs} | \bar{x}_1 | \bar{x}_2 | s_1^2 | s_2^2 | $s_{1,2}$ | r | Determinant | PosDefinite |
|-------|-----------------|-------------|-------------|-------------|---------|---------|-----------|------|-------------|-------------|
| 0.250 | TRUE | 385 | -0.42 | -0.43 | 0.96 | 0.89 | 0.31 | 0.33 | 0.8 | TRUE |
| 0.375 | FALSE | 11 | 0.14 | -0.14 | 0.59 | 1.37 | 0.49 | 0.54 | 0.6 | TRUE |
| 0.500 | TRUE | 1123 | -0.36 | -0.35 | 0.87 | 0.84 | 0.33 | 0.38 | 0.6 | TRUE |
| 1.000 | FALSE | 0 | | | | | | | | FALSE |

Table 1: R

2 Subgroups – RFull

| RFull | Included in SEM | N_{Pairs} | \bar{x}_1 | \bar{x}_2 | s_1^2 | s_2^2 | $s_{1,2}$ | r | Determinant | PosDefinite |
|-------|-----------------|-------------|-------------|-------------|---------|---------|-----------|------|-------------|-------------|
| 0.250 | TRUE | 385 | -0.42 | -0.43 | 0.96 | 0.89 | 0.31 | 0.33 | 0.8 | TRUE |
| 0.375 | FALSE | 11 | 0.14 | -0.14 | 0.59 | 1.37 | 0.49 | 0.54 | 0.6 | TRUE |
| 0.500 | TRUE | 1123 | -0.36 | -0.35 | 0.87 | 0.84 | 0.33 | 0.38 | 0.6 | TRUE |
| 1.000 | FALSE | 0 | | | | | | | | FALSE |

Table 2: RFull

3 Subgroups – RExplicit

| RExplicit | Included in SEM | N_{Pairs} | \bar{x}_1 | \bar{x}_2 | s_1^2 | s_2^2 | $s_{1,2}$ | r | Determinant | PosDefinite |
|-----------|-----------------|-------------|-------------|-------------|---------|---------|-----------|------|-------------|-------------|
| 0.250 | TRUE | 348 | -0.43 | -0.46 | 0.97 | 0.87 | 0.32 | 0.35 | 0.7 | TRUE |
| 0.375 | FALSE | 54 | -0.21 | -0.23 | 0.83 | 0.98 | 0.22 | 0.25 | 0.8 | TRUE |
| 0.500 | TRUE | 1109 | -0.36 | -0.35 | 0.87 | 0.84 | 0.33 | 0.38 | 0.6 | TRUE |
| 1.000 | FALSE | 0 | | | | | | | | FALSE |

Table 3: RExplicit

4 Subgroups – RImplicit

| RImplicit | Included in SEM | N_{Pairs} | \bar{x}_1 | \bar{x}_2 | s_1^2 | s_2^2 | $s_{1,2}$ | r | Determinant | PosDefinite |
|-----------|-----------------|-------------|-------------|-------------|---------|---------|-----------|------|-------------|-------------|
| 0.250 | TRUE | 378 | -0.41 | -0.44 | 0.93 | 0.89 | 0.31 | 0.34 | 0.7 | TRUE |
| 0.500 | TRUE | 1110 | -0.36 | -0.35 | 0.89 | 0.85 | 0.34 | 0.39 | 0.6 | TRUE |
| 1.000 | FALSE | 0 | | | | | | | | FALSE |

Table 4: RImplicit

5 Subgroups – RImplicit2004

| RImplicit2004 | Included in SEM | N_{Pairs} | \bar{x}_1 | \bar{x}_2 | s_1^2 | s_2^2 | $s_{1,2}$ | r | Determinant | PosDefinite |
|---------------|-----------------|-------------|-------------|-------------|---------|---------|-----------|------|-------------|-------------|
| 0.250 | TRUE | 296 | -0.36 | -0.43 | 0.90 | 0.87 | 0.30 | 0.34 | 0.7 | TRUE |
| 0.375 | FALSE | 232 | -0.33 | -0.43 | 0.89 | 0.88 | 0.36 | 0.41 | 0.7 | TRUE |
| 0.500 | TRUE | 976 | -0.38 | -0.33 | 0.89 | 0.85 | 0.32 | 0.37 | 0.7 | TRUE |
| 1.000 | FALSE | 0 | | | | | | | | FALSE |

Table 5: RImplicit2004

6 Ace - Comparison of R Variants

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

| dAcePretty[, 1] | a^2 | c^2 | e^2 | se_{a^2} | se_{c^2} | se_{e^2} | N |
|-----------------|-------|-------|-------|------------|------------|------------|-------|
| R | .28 | .25 | .47 | .17 | .08 | .10 | 1,508 |
| RFull | .28 | .25 | .47 | .17 | .08 | .10 | 1,508 |
| RExplicit | .21 | .28 | .50 | .17 | .08 | .10 | 1,457 |
| RImplicit | .24 | .27 | .49 | .17 | .08 | .10 | 1,488 |
| RImplicit2004 | .13 | .31 | .56 | .19 | .09 | .11 | 1,272 |

Table 6: Comparison of R Variants (by rows) and of Links Versions (left vs right side).

7 Explanation of R Variants

| Variant | Explanation |
|-----------------------|---|
| R | We recommend researchers typical use this version. |
| R_{Full} | The most complete version we have; doesn't exclude groups like $R=0$. |
| 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 |