### Comparison of Versions of Kinship Links

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Outcome: WeightZGenderYob;

RelationshipPath: Gen1Housemates [ID:1]; Newer Links Version: 48; Older Links Version: 47;

Newer: Implements MzManual for Gen1 Older: Moved DZ assignment after MZ R Groups specifically excluded: { 0 }

#### 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	.67	.00	.33	4098	.66	.00	.34	4146
RExplicit	.67	.00	.33	3696	.67	.00	.33	3696
RImplicit2004	.55	.07	.38	2257	.55	.07	.38	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	0.78	0.84	0.21	0.26	0.6	TRUE
0.125	TRUE	96	0.61	0.92	0.16	0.22	0.5	TRUE
0.250	TRUE	248	0.86	0.92	0.02	0.03	0.8	TRUE
0.375	TRUE	90	0.99	1.01	0.48	0.48	0.8	TRUE
0.500	TRUE	3639	0.96	0.92	0.31	0.33	0.8	TRUE
0.750	TRUE	14	0.59	0.46	0.28	0.54	0.2	TRUE
1.000	TRUE	11	0.88	1.39	0.86	0.78	0.5	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	398	0.82	0.84	0.24	0.29	0.6	TRUE
0.125	TRUE	89	0.62	0.98	0.17	0.23	0.6	TRUE
0.250	TRUE	255	0.87	0.92	0.03	0.04	0.8	TRUE
0.375	TRUE	89	1.00	1.02	0.49	0.48	0.8	TRUE
0.500	TRUE	3650	0.95	0.92	0.31	0.33	0.8	TRUE
0.750	TRUE	41	0.67	0.72	0.29	0.42	0.4	TRUE
1.000	TRUE	22	0.78	1.09	0.69	0.74	0.4	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	0.87	0.91	0.02	0.02	0.8	TRUE
0.375	TRUE	44	0.76	0.90	0.34	0.41	0.6	TRUE
0.500	TRUE	3408	0.95	0.93	0.32	0.34	0.8	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	244	0.87	0.91	0.02	0.02	0.8	TRUE
0.375	TRUE	44	0.76	0.90	0.34	0.41	0.6	TRUE
0.500	TRUE	3408	0.95	0.93	0.32	0.34	0.8	TRUE

Table 5: R<br/>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	0.96	0.16	0.19	0.6	TRUE
0.250	TRUE	42	0.85	0.69	0.19	0.25	0.6	TRUE
0.375	TRUE	297	0.95	0.98	0.27	0.28	0.9	TRUE
0.500	TRUE	1818	0.93	0.87	0.30	0.34	0.7	TRUE
0.750	TRUE	30	0.76	1.21	0.62	0.65	0.5	TRUE

Table 6: R<br/>Implicit<br/>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	0.96	0.16	0.19	0.6	TRUE
0.250	TRUE	42	0.85	0.69	0.19	0.25	0.6	TRUE
0.375	TRUE	297	0.95	0.98	0.27	0.28	0.9	TRUE
0.500	TRUE	1818	0.93	0.87	0.30	0.34	0.7	TRUE
0.750	TRUE	30	0.76	1.21	0.62	0.65	0.5	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