

# Comparison of Versions of Kinship Links

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**Outcome:** Afi;

**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: { }

## 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	0	.25	.75	3993	0	.25	.75	3998
RExplicit	0	.24	.76	3213	0	.24	.76	3213
RImplicit2004	0	.24	.76	1956	0	.24	.76	1956

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	423	7.43	6.35	2.21	0.32	42.3	TRUE
0.125	TRUE	89	4.14	5.18	0.60	0.13	21.1	TRUE
0.250	TRUE	241	7.90	6.79	1.24	0.17	52.1	TRUE
0.375	TRUE	88	6.33	6.00	0.68	0.11	37.5	TRUE
0.500	TRUE	3129	7.22	6.07	1.64	0.25	41.1	TRUE
0.750	TRUE	15	5.55	2.12	1.38	0.40	9.9	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	386	7.45	6.20	2.23	0.33	41.2	TRUE
0.125	TRUE	83	4.10	5.04	0.68	0.15	20.2	TRUE
0.250	TRUE	246	7.85	6.99	1.14	0.15	53.6	TRUE
0.375	TRUE	87	6.41	6.02	0.68	0.11	38.1	TRUE
0.500	TRUE	3143	7.20	6.02	1.62	0.25	40.7	TRUE
0.750	TRUE	35	7.02	10.61	2.75	0.32	66.9	TRUE
1.000	TRUE	18	10.21	5.58	5.72	0.76	24.3	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	2936	7.25	6.17	1.67	0.25	42.0	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	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	2936	7.25	6.17	1.67	0.25	42.0	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	41	2.74	3.40	0.58	0.19	9.0	TRUE
0.375	TRUE	278	4.86	6.01	1.30	0.24	27.5	TRUE
0.500	TRUE	1547	7.27	5.87	1.50	0.23	40.4	TRUE
0.750	TRUE	27	5.92	7.38	3.27	0.49	33.1	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	41	2.74	3.40	0.58	0.19	9.0	TRUE
0.375	TRUE	278	4.86	6.01	1.30	0.24	27.5	TRUE
0.500	TRUE	1547	7.27	5.87	1.50	0.23	40.4	TRUE
0.750	TRUE	27	5.92	7.38	3.27	0.49	33.1	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