

# 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, 0.375 }

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	878	.56	.00	.44	943
RExplicit	.34	.09	.57	857	.34	.09	.57	857
RImplicit2004	.56	.01	.43	471	.56	.01	.43	471

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	FALSE	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	FALSE	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	FALSE	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	FALSE	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	FALSE	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	FALSE	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