

# Comparison of Versions of Kinship Links

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**Outcome:** HeightZGenderYob;

**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	.90	.00	.10	4104	.59	.15	.26	4152
RExplicit	.78	.06	.17	3702	.78	.06	.17	3702
RImplicit2004	.77	.08	.15	2262	.77	.08	.15	2262

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	0.94	0.82	0.23	0.26	0.7	TRUE
0.125	TRUE	95	0.87	0.91	0.16	0.18	0.8	TRUE
0.250	TRUE	249	1.02	1.14	0.27	0.25	1.1	TRUE
0.375	TRUE	91	1.22	1.34	0.64	0.50	1.2	TRUE
0.500	TRUE	3644	0.97	1.02	0.44	0.44	0.8	TRUE
0.750	TRUE	14	0.79	0.56	0.38	0.56	0.3	TRUE
1.000	TRUE	11	0.27	0.59	0.36	0.89	0.0	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	0.95	0.79	0.21	0.24	0.7	TRUE
0.125	TRUE	88	0.85	0.93	0.14	0.16	0.8	TRUE
0.250	TRUE	256	1.04	1.18	0.30	0.27	1.1	TRUE
0.375	TRUE	90	1.23	1.36	0.65	0.51	1.2	TRUE
0.500	TRUE	3655	0.97	1.01	0.44	0.44	0.8	TRUE
0.750	TRUE	41	0.71	0.74	0.23	0.32	0.5	TRUE
1.000	TRUE	22	0.81	0.84	0.55	0.66	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	245	1.03	1.18	0.29	0.26	1.1	TRUE
0.375	TRUE	45	1.01	1.19	0.49	0.45	1.0	TRUE
0.500	TRUE	3412	0.97	1.01	0.44	0.44	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	245	1.03	1.18	0.29	0.26	1.1	TRUE
0.375	TRUE	45	1.01	1.19	0.49	0.45	1.0	TRUE
0.500	TRUE	3412	0.97	1.01	0.44	0.44	0.8	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	70	0.77	0.91	0.02	0.03	0.7	TRUE
0.250	TRUE	42	0.78	0.99	0.20	0.23	0.7	TRUE
0.375	TRUE	297	0.97	1.21	0.51	0.47	0.9	TRUE
0.500	TRUE	1823	0.95	0.96	0.44	0.46	0.7	TRUE
0.750	TRUE	30	0.62	0.88	0.44	0.59	0.4	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	70	0.77	0.91	0.02	0.03	0.7	TRUE
0.250	TRUE	42	0.78	0.99	0.20	0.23	0.7	TRUE
0.375	TRUE	297	0.97	1.21	0.51	0.47	0.9	TRUE
0.500	TRUE	1823	0.95	0.96	0.44	0.46	0.7	TRUE
0.750	TRUE	30	0.62	0.88	0.44	0.59	0.4	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