

# Comparison of Versions of Kinship Links

Joe Rodger's BG Team

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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	469	-0.05	-0.07	0.90	1.07	0.28	0.29	0.9	TRUE
0.375	FALSE	12	0.03	-0.42	0.82	0.61	-0.02	-0.03	0.5	TRUE
0.500	TRUE	954	-0.03	-0.06	1.06	0.95	0.47	0.47	0.8	TRUE
0.750	FALSE	0								FALSE
1.000	TRUE	5	-0.28	-0.18	1.22	0.91	1.02	0.97	0.1	TRUE

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	469	-0.05	-0.07	0.90	1.07	0.28	0.29	0.9	TRUE
0.375	FALSE	12	0.03	-0.42	0.82	0.61	-0.02	-0.03	0.5	TRUE
0.500	TRUE	954	-0.03	-0.06	1.06	0.95	0.47	0.47	0.8	TRUE
0.750	FALSE	0								FALSE
1.000	TRUE	5	-0.28	-0.18	1.22	0.91	1.02	0.97	0.1	TRUE

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	440	-0.06	-0.04	0.91	1.04	0.31	0.32	0.9	TRUE
0.375	FALSE	46	0.15	-0.23	0.82	1.25	0.02	0.02	1.0	TRUE
0.500	TRUE	943	-0.03	-0.08	1.05	0.94	0.47	0.47	0.8	TRUE
1.000	TRUE	5	-0.28	-0.18	1.22	0.91	1.02	0.97	0.1	TRUE

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	427	-0.06	-0.10	0.92	1.08	0.28	0.28	0.9	TRUE
0.500	TRUE	934	-0.02	-0.05	1.05	0.97	0.49	0.48	0.8	TRUE
0.750	FALSE	0								FALSE
1.000	TRUE	5	-0.28	-0.18	1.22	0.91	1.02	0.97	0.1	TRUE

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	362	-0.09	-0.13	0.88	1.00	0.19	0.21	0.8	TRUE
0.375	FALSE	253	-0.07	0.03	0.93	0.93	0.35	0.37	0.7	TRUE
0.500	TRUE	807	0.01	-0.06	1.06	0.99	0.51	0.50	0.8	TRUE
1.000	TRUE	4	-0.11	-0.10	1.45	1.17	1.27	0.98	0.1	TRUE

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	.92	.03	.05	.08	.05	.04	1,428
RFull	.92	.03	.05	.08	.05	.04	1,428
RExplicit	.88	.05	.07	.13	.07	.07	1,388
RImplicit	.92	.03	.05	.07	.05	.03	1,366
RImplicit2004	.97	.00	.03	.04	.00	.02	1,173

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