

Comparison of Versions of Kinship Links

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Outcome: HeightZAgeGender;

RelationshipPath: Gen2Siblings [ID:2]; **Newer Links Version:** 51; **Older Links Version:** 50;

Newer Links:

Older Links: Resumed inclusion of Gen2

R Groups specifically excluded: { 0, 0.375 }

Drop pair if housemates are not confirmed in the same generation: FALSE

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	.79	.03	.18	5838	.79	.03	.18	5838
RPass1	.79	.03	.18	5830	.79	.03	.18	5830
RImplicit	.79	.03	.18	5618	.79	.03	.18	5618
RImplicitPass1	.86	.00	.14	4912	.86	.00	.14	4912
RExplicit	.70	.07	.22	5665	.70	.07	.22	5665
RExplicitPass1	.69	.08	.23	5640	.69	.08	.23	5640
RImplicit2004	.81	.02	.17	4882	.81	.02	.17	4882

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
0.250	TRUE	1862	1.04	1.04	0.27	0.26	1.0	TRUE
0.375	FALSE	46	1.07	0.96	0.43	0.42	0.8	TRUE
0.500	TRUE	3960	0.97	0.96	0.39	0.41	0.8	TRUE
0.750	FALSE	0						FALSE
1.000	TRUE	16	0.99	1.06	0.95	0.92	0.2	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
0.250	TRUE	1862	1.04	1.04	0.27	0.26	1.0	TRUE
0.375	FALSE	46	1.07	0.96	0.43	0.42	0.8	TRUE
0.500	TRUE	3960	0.97	0.96	0.39	0.41	0.8	TRUE
0.750	FALSE	0						FALSE
1.000	TRUE	16	0.99	1.06	0.95	0.92	0.2	TRUE

Table 3: R – Older Version of Links

3 Subgroups – RPass1

RPass1	Included in SEM	N_{Pairs}	s_1^2	s_2^2	$s_{1,2}$	r	Determinant	PosDefinite
0.250	TRUE	1858	1.04	1.04	0.27	0.26	1.0	TRUE
0.375	FALSE	45	1.09	0.98	0.44	0.43	0.9	TRUE
0.500	TRUE	3956	0.97	0.96	0.39	0.40	0.8	TRUE
0.750	FALSE	0						FALSE
1.000	TRUE	16	0.99	1.06	0.95	0.92	0.2	TRUE

Table 4: RPass1 – Newer Version of Links

RPass1	Included in SEM	N_{Pairs}	s_1^2	s_2^2	$s_{1,2}$	r	Determinant	PosDefinite
0.250	TRUE	1858	1.04	1.04	0.27	0.26	1.0	TRUE
0.375	FALSE	45	1.09	0.98	0.44	0.43	0.9	TRUE
0.500	TRUE	3956	0.97	0.96	0.39	0.40	0.8	TRUE
0.750	FALSE	0						FALSE
1.000	TRUE	16	0.99	1.06	0.95	0.92	0.2	TRUE

Table 5: RPass1 – Older Version of Links

4 Subgroups – RImplicit

RImplicit	Included in SEM	N_{Pairs}	s_1^2	s_2^2	$s_{1,2}$	r	Determinant	PosDefinite
0.250	TRUE	1743	1.05	1.04	0.27	0.26	1.0	TRUE
0.500	TRUE	3859	0.98	0.97	0.40	0.41	0.8	TRUE
0.750	FALSE	0						FALSE
1.000	TRUE	16	0.99	1.06	0.95	0.92	0.2	TRUE

Table 6: RImplicit – Newer Version of Links

RImplicit	Included in SEM	N_{Pairs}	s_1^2	s_2^2	$s_{1,2}$	r	Determinant	PosDefinite
0.250	TRUE	1743	1.05	1.04	0.27	0.26	1.0	TRUE
0.500	TRUE	3859	0.98	0.97	0.40	0.41	0.8	TRUE
0.750	FALSE	0						FALSE
1.000	TRUE	16	0.99	1.06	0.95	0.92	0.2	TRUE

Table 7: RImplicit – Older Version of Links

5 Subgroups – RImplicitPass1

RImplicitPass1	Included in SEM	N_{Pairs}	s_1^2	s_2^2	$s_{1,2}$	r	Determinant	PosDefinite
0.250	TRUE	1383	1.04	1.04	0.25	0.24	1.0	TRUE
0.500	TRUE	3513	0.98	0.97	0.40	0.41	0.8	TRUE
0.750	FALSE	0						FALSE
1.000	TRUE	16	0.99	1.06	0.95	0.92	0.2	TRUE

Table 8: RImplicitPass1 – Newer Version of Links

RImplicitPass1	Included in SEM	N_{Pairs}	s_1^2	s_2^2	$s_{1,2}$	r	Determinant	PosDefinite
0.250	TRUE	1383	1.04	1.04	0.25	0.24	1.0	TRUE
0.500	TRUE	3513	0.98	0.97	0.40	0.41	0.8	TRUE
0.750	FALSE	0						FALSE
1.000	TRUE	16	0.99	1.06	0.95	0.92	0.2	TRUE

Table 9: RImplicitPass1 – Older Version of Links

6 Subgroups – RExplicit

RExplicit	Included in SEM	N_{Pairs}	s_1^2	s_2^2	$s_{1,2}$	r	Determinant	PosDefinite
0.250	TRUE	1767	1.05	1.03	0.29	0.28	1.0	TRUE
0.375	FALSE	180	0.90	1.16	0.14	0.14	1.0	TRUE
0.500	TRUE	3882	0.98	0.96	0.39	0.41	0.8	TRUE
1.000	TRUE	16	0.99	1.06	0.95	0.92	0.2	TRUE

Table 10: 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	1767	1.05	1.03	0.29	0.28	1.0	TRUE
0.375	FALSE	180	0.90	1.16	0.14	0.14	1.0	TRUE
0.500	TRUE	3882	0.98	0.96	0.39	0.41	0.8	TRUE
1.000	TRUE	16	0.99	1.06	0.95	0.92	0.2	TRUE

Table 11: RExplicit – Older Version of Links

7 Subgroups – RExplicitPass1

RExplicitPass1	Included in SEM	N_{Pairs}	s_1^2	s_2^2	$s_{1,2}$	r	Determinant	PosDefinite
0.250	TRUE	1765	1.05	1.03	0.29	0.28	1.0	TRUE
0.375	FALSE	180	0.90	1.16	0.14	0.14	1.0	TRUE
0.500	TRUE	3860	0.98	0.95	0.39	0.40	0.8	TRUE
1.000	TRUE	15	1.05	1.13	1.01	0.92	0.2	TRUE

Table 12: RExplicitPass1 – Newer Version of Links

RExplicitPass1	Included in SEM	N_{Pairs}	s_1^2	s_2^2	$s_{1,2}$	r	Determinant	PosDefinite
0.250	TRUE	1765	1.05	1.03	0.29	0.28	1.0	TRUE
0.375	FALSE	180	0.90	1.16	0.14	0.14	1.0	TRUE
0.500	TRUE	3860	0.98	0.95	0.39	0.40	0.8	TRUE
1.000	TRUE	15	1.05	1.13	1.01	0.92	0.2	TRUE

Table 13: RExplicitPass1 – Older Version of Links

8 Subgroups – RImplicit2004

RImplicit2004	Included in SEM	N_{Pairs}	s_1^2	s_2^2	$s_{1,2}$	r	Determinant	PosDefinite
0.250	TRUE	1466	1.01	1.03	0.26	0.26	1.0	TRUE
0.375	FALSE	962	1.00	0.92	0.30	0.32	0.8	TRUE
0.500	TRUE	3401	0.98	0.98	0.40	0.41	0.8	TRUE
1.000	TRUE	15	1.01	1.13	1.00	0.93	0.2	TRUE

Table 14: RImplicit2004 – Newer Version of Links

RImplicit2004	Included in SEM	N_{Pairs}	s_1^2	s_2^2	$s_{1,2}$	r	Determinant	PosDefinite
0.250	TRUE	1466	1.01	1.03	0.26	0.26	1.0	TRUE
0.375	FALSE	962	1.00	0.92	0.30	0.32	0.8	TRUE
0.500	TRUE	3401	0.98	0.98	0.40	0.41	0.8	TRUE
1.000	TRUE	15	1.01	1.13	1.00	0.93	0.2	TRUE

Table 15: RImplicit2004 – Older Version of Links

9 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