Comparison of Versions of Kinship Links
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Outcome: HeightZGenderAge;
Relationship Paths: (Gen1Housemates, Gen2Siblings, Gen2Cousins, ParentChild, AuntNiece) [IDs:(1,2,3,4,5)];
Newer Links Version: 84; **Older Links Version**: 83;

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Newer Links: Adds Gen1 back
Older Links: Reverts to V82
R Groups specifically excluded: {  }
Drop pair if housemates are not confirmed in the same generation: FALSE
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1 Ace - Comparison of R Variants

(See the final table for an explanation of the different R variants.)

R Variant	a^2_{new}	c^2_{new}	e^2_{new}	N_{new}	a^2_{old}	c^2_{old}	e^2_{old}	N_{old}
R	.74	.06	.19	25,006	.69	.12	.19	4,288
RFull	.67	.09	.23	26,472	.55	.19	.27	4,928
RExplicit	.74	.07	.20	24,338	.85	.05	.10	3,878
RImplicit	.67	.09	.24	22,857	.52	.18	.30	3,818
RImplicit2004	.66	.10	.24	19,231	.69	.13	.18	2,317

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}	$\bar{x}_1$	$\bar{x}_2$	s^2_1	s^2_2	$s_{1,2}$	r	Determinant	PosDefinite
0.016	FALSE	0								FALSE
0.031	TRUE	75	-0.16	-0.25	1.46	0.64	-0.16	-0.16	0.9	TRUE
0.062	TRUE	372	-0.00	-0.21	1.06	0.89	0.13	0.13	0.9	TRUE
0.125	TRUE	2486	-0.03	0.00	1.03	0.99	0.15	0.15	1.0	TRUE
0.250	TRUE	7135	-0.05	-0.04	1.02	1.03	0.27	0.27	1.0	TRUE
0.375	TRUE	46	0.22	-0.11	1.07	0.96	0.43	0.42	0.8	TRUE
0.500	TRUE	14865	-0.06	-0.02	0.96	0.98	0.41	0.43	0.8	TRUE
0.750	FALSE	0								FALSE
1.000	TRUE	27	-0.11	-0.13	0.69	0.99	0.69	0.83	0.2	TRUE

Table 2: R – Newer Version of Links

R	Included in SEM	N_{Pairs}	$\bar{x}_1$	$\bar{x}_2$	s^2_1	s^2_2	$s_{1,2}$	r	Determinant	PosDefinite
0.062	TRUE	39	-0.41	-0.12	0.84	0.83	0.24	0.29	0.6	TRUE
0.125	TRUE	64	-0.18	-0.56	0.81	0.94	0.10	0.12	0.8	TRUE
0.250	TRUE	280	0.05	0.06	1.02	1.18	0.27	0.24	1.1	TRUE
0.500	TRUE	3894	-0.05	-0.03	0.97	1.02	0.47	0.47	0.8	TRUE
1.000	TRUE	11	-0.09	-0.01	0.32	0.95	0.36	0.65	0.2	TRUE

Table 3: R – Older Version of Links

3 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
0.000	TRUE	1160	-0.06	-0.02	0.96	0.88	0.23	0.25	0.8	TRUE
0.016	TRUE	12	-0.85	0.07	0.34	0.09	0.02	0.12	0.0	TRUE
0.031	TRUE	132	-0.06	-0.18	1.52	0.52	-0.18	-0.20	0.8	TRUE
0.062	TRUE	437	0.08	-0.19	1.11	0.88	0.10	0.10	1.0	TRUE
0.094	TRUE	12	0.23	-0.21	0.85	0.01	0.00	0.05	0.0	TRUE
0.125	TRUE	2523	-0.02	-0.00	1.03	0.99	0.15	0.15	1.0	TRUE
0.188	TRUE	22	0.37	0.09	2.27	0.69	-0.12	-0.10	1.5	TRUE
0.250	TRUE	7169	-0.05	-0.04	1.02	1.03	0.27	0.27	1.0	TRUE
0.375	TRUE	68	0.31	0.08	1.15	0.94	0.41	0.39	0.9	TRUE
0.500	TRUE	14899	-0.06	-0.02	0.96	0.98	0.41	0.43	0.8	TRUE
0.750	TRUE	11	-0.14	0.10	0.87	0.81	0.66	0.79	0.3	TRUE
1.000	TRUE	27	-0.11	-0.13	0.69	0.99	0.69	0.83	0.2	TRUE

Table 4: RFull – Newer Version of Links

RFull	Included in SEM	N_{Pairs}	$\bar{x}_1$	$\bar{x}_2$	s_1^2	s_2^2	$s_{1,2}$	r	Determinant	PosDefinite
0.000	TRUE	537	0.02	-0.02	0.95	0.81	0.21	0.24	0.7	TRUE
0.062	TRUE	43	-0.45	-0.14	0.81	0.81	0.19	0.24	0.6	TRUE
0.125	TRUE	92	-0.02	-0.47	0.95	0.99	0.16	0.17	0.9	TRUE
0.250	TRUE	292	0.04	0.07	1.00	1.16	0.25	0.23	1.1	TRUE
0.375	TRUE	14	0.24	0.44	1.61	0.86	0.31	0.26	1.3	TRUE
0.500	TRUE	3928	-0.05	-0.03	0.97	1.02	0.46	0.47	0.8	TRUE
0.750	TRUE	11	-0.14	0.10	0.87	0.81	0.66	0.79	0.3	TRUE
1.000	TRUE	11	-0.09	-0.01	0.32	0.95	0.36	0.65	0.2	TRUE

Table 5: RFull – Older Version of Links

4 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
0.000	TRUE	94	-0.08	0.09	0.86	0.91	0.17	0.19	0.7	TRUE
0.031	TRUE	3	0.10	-0.14	0.15	2.78	-0.59	-0.92	0.1	TRUE
0.062	TRUE	203	0.23	-0.08	1.05	0.83	0.11	0.12	0.9	TRUE
0.094	TRUE	14	0.30	-0.00	0.87	0.27	0.09	0.19	0.2	TRUE
0.125	TRUE	2403	-0.02	0.01	1.04	0.99	0.16	0.15	1.0	TRUE
0.188	TRUE	48	-0.05	0.02	1.46	1.07	0.01	0.01	1.6	TRUE
0.250	TRUE	6927	-0.05	-0.04	1.03	1.03	0.28	0.27	1.0	TRUE
0.375	TRUE	216	0.04	0.01	0.92	1.14	0.17	0.17	1.0	TRUE
0.500	TRUE	14414	-0.06	-0.02	0.96	0.98	0.41	0.43	0.8	TRUE
1.000	TRUE	16	-0.13	-0.21	0.99	1.06	0.95	0.92	0.2	TRUE

Table 6: RExplicit – Newer Version of Links

RExplicit	Included in SEM	N_{Pairs}	$\bar{x}_1$	$\bar{x}_2$	s_1^2	s_2^2	$s_{1,2}$	r	Determinant	PosDefinite
0.000	TRUE	41	-0.06	0.34	0.82	1.05	0.22	0.24	0.8	TRUE
0.062	FALSE	2	-0.01	-1.21	0.22	0.26	0.24	1.00	0.0	FALSE
0.250	TRUE	268	0.06	0.07	1.07	1.21	0.29	0.26	1.2	TRUE
0.375	TRUE	36	-0.07	0.04	1.03	1.08	0.33	0.32	1.0	TRUE
0.500	TRUE	3533	-0.05	-0.02	0.96	1.02	0.47	0.47	0.8	TRUE

Table 7: RExplicit – Older Version of Links

5 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
0.000	TRUE	524	0.09	0.06	0.96	0.71	0.07	0.08	0.7	TRUE
0.062	TRUE	94	-0.36	-0.23	1.20	0.85	0.29	0.28	0.9	TRUE
0.125	TRUE	1835	-0.01	0.04	1.03	1.00	0.16	0.16	1.0	TRUE
0.250	TRUE	6058	-0.05	-0.06	1.03	1.03	0.28	0.27	1.0	TRUE
0.500	TRUE	14330	-0.05	-0.01	0.96	0.99	0.41	0.42	0.8	TRUE
0.750	FALSE	0								FALSE
1.000	TRUE	16	-0.13	-0.21	0.99	1.06	0.95	0.92	0.2	TRUE

Table 8: RImplicit – Newer Version of Links

RImplicit	Included in SEM	N_{Pairs}	$\bar{x}_1$	$\bar{x}_2$	s_1^2	s_2^2	$s_{1,2}$	r	Determinant	PosDefinite
0.000	TRUE	183	0.07	-0.04	0.90	0.72	0.14	0.17	0.6	TRUE
0.250	TRUE	163	-0.02	0.01	0.83	0.87	0.19	0.22	0.7	TRUE
0.500	TRUE	3472	-0.03	-0.02	0.98	1.02	0.44	0.45	0.8	TRUE

Table 9: RImplicit – Older Version of Links

6 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
0.031	TRUE	80	0.29	-0.03	1.36	0.60	0.19	0.21	0.8	TRUE
0.062	TRUE	161	-0.17	-0.30	0.96	0.80	0.04	0.05	0.8	TRUE
0.094	TRUE	184	0.12	0.13	0.95	0.94	0.14	0.14	0.9	TRUE
0.125	TRUE	985	-0.13	0.03	0.90	1.03	0.19	0.20	0.9	TRUE
0.188	TRUE	442	0.02	-0.02	0.94	0.98	0.19	0.20	0.9	TRUE
0.250	TRUE	3774	-0.05	-0.04	1.01	1.02	0.28	0.28	0.9	TRUE
0.375	TRUE	1295	-0.06	-0.05	0.98	0.96	0.34	0.35	0.8	TRUE
0.500	TRUE	12265	-0.05	-0.01	0.96	0.98	0.41	0.42	0.8	TRUE
0.750	TRUE	30	0.02	0.03	0.60	0.91	0.42	0.57	0.4	TRUE
1.000	TRUE	15	-0.07	-0.19	1.01	1.13	1.00	0.93	0.2	TRUE

Table 10: RImplicit2004 – Newer Version of Links

RImplicit2004	Included in SEM	N_{Pairs}	$\bar{x}_1$	$\bar{x}_2$	s_1^2	s_2^2	$s_{1,2}$	r	Determinant	PosDefinite
0.125	TRUE	73	-0.07	-0.25	0.79	1.01	0.12	0.13	0.8	TRUE
0.250	TRUE	43	-0.13	-0.07	0.75	1.04	0.22	0.25	0.7	TRUE
0.375	TRUE	306	-0.02	0.02	0.94	1.14	0.46	0.44	0.9	TRUE
0.500	TRUE	1865	-0.00	-0.00	0.95	0.98	0.45	0.47	0.7	TRUE
0.750	TRUE	30	0.02	0.03	0.60	0.91	0.42	0.57	0.4	TRUE

Table 11: RImplicit2004 – Older Version of Links

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