Comparison of Versions of Kinship Links

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November 19, 2013

Outcome: HeightZGenderAge;
Relationship Paths: (Gen1Housemates, Gen2Siblings) [IDs:(1,2)];
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: { 0, 0.125, 0.0625 }
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	.79	.05	.16	10069	.70	.11	.18	4185
RFull	.80	.04	.16	10140	.73	.10	.17	4256
RExplicit	.85	.02	.13	9682	.95	.00	.05	3837
RImplicit	.82	.02	.16	9253	.73	.08	.19	3635
RImplicit2004	.84	.02	.14	8088	.57	.19	.24	2244

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
0.062	FALSE	39	-0.41	-0.12	0.84	0.83	0.24	0.29	0.6	TRUE
0.125	FALSE	64	-0.18	-0.56	0.81	0.94	0.10	0.12	0.8	TRUE
0.250	TRUE	2142	-0.05	-0.06	1.04	1.06	0.27	0.26	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	7854	-0.03	-0.03	0.97	0.99	0.43	0.44	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	FALSE	39	-0.41	-0.12	0.84	0.83	0.24	0.29	0.6	TRUE
0.125	FALSE	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	FALSE	537	0.02	-0.02	0.95	0.81	0.21	0.24	0.7	TRUE
0.062	FALSE	43	-0.45	-0.14	0.81	0.81	0.19	0.24	0.6	TRUE
0.125	FALSE	92	-0.02	-0.47	0.95	0.99	0.16	0.17	0.9	TRUE
0.250	TRUE	2154	-0.05	-0.06	1.04	1.06	0.27	0.26	1.0	TRUE
0.375	TRUE	60	0.23	0.02	1.17	0.98	0.40	0.37	1.0	TRUE
0.500	TRUE	7888	-0.03	-0.03	0.97	0.99	0.43	0.44	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	FALSE	537	0.02	-0.02	0.95	0.81	0.21	0.24	0.7	TRUE
0.062	FALSE	43	-0.45	-0.14	0.81	0.81	0.19	0.24	0.6	TRUE
0.125	FALSE	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	FALSE	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	2035	-0.06	-0.07	1.05	1.06	0.29	0.28	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	7415	-0.03	-0.03	0.97	0.99	0.43	0.44	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	FALSE	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	FALSE	183	0.07	-0.04	0.90	0.72	0.14	0.17	0.6	TRUE
0.250	TRUE	1906	-0.06	-0.09	1.03	1.02	0.26	0.26	1.0	TRUE
0.500	TRUE	7331	-0.02	-0.02	0.98	0.99	0.42	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	FALSE	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
0.125	FALSE	73	-0.07	-0.25	0.79	1.01	0.12	0.13	0.8	TRUE
0.250	TRUE	1509	-0.08	-0.10	1.00	1.02	0.26	0.26	1.0	TRUE
0.375	TRUE	1268	-0.06	-0.05	0.99	0.97	0.34	0.35	0.8	TRUE
0.500	TRUE	5266	0.01	-0.02	0.97	0.98	0.42	0.43	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	FALSE	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