

Comparison of Versions of Kinship Links

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Outcome: RandomFakeOutcome;

Relationship Paths: (Gen1Housemates, Gen2Siblings, Gen2Cousins, ParentChild, AuntNiece) [IDs:(1,2,3,4,5)];

Newer Links Version: 84; **Older Links Version:** 83;

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

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	.00	.01	.99	39,636	.0	.00	1.00	4,373
RFull	.00	.01	.99	42,025	.0	.00	1.00	5,038
RExplicit	.01	.00	.98	35,926	.0	.00	1.00	3,949
RImplicit	.01	.00	.99	35,975	.0	.01	.99	3,886
RImplicit2004	.03	.00	.97	31,230	.1	.00	.90	2,338

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_1^2	s_2^2	$s_{1,2}$	r	Determinant	PosDefinite
0.016	TRUE	46	0.18	-0.02	0.63	0.61	-0.04	-0.06	0.4	TRUE
0.031	TRUE	210	-0.15	0.02	1.06	0.79	0.07	0.08	0.8	TRUE
0.062	TRUE	523	0.10	-0.06	0.95	0.85	-0.01	-0.01	0.8	TRUE
0.125	TRUE	4532	0.06	0.01	0.95	1.00	0.02	0.02	1.0	TRUE
0.250	TRUE	11183	0.01	0.01	1.00	0.99	-0.00	-0.00	1.0	TRUE
0.375	TRUE	610	-0.04	0.04	1.09	1.12	0.02	0.02	1.2	TRUE
0.500	TRUE	22482	0.01	0.02	1.01	1.01	0.01	0.01	1.0	TRUE
0.750	TRUE	12	0.10	-0.04	0.92	1.43	0.11	0.10	1.3	TRUE
1.000	TRUE	38	0.24	0.16	1.09	1.23	-0.06	-0.05	1.3	TRUE

Table 2: R – Newer Version of Links

R	Included in SEM	N_{Pairs}	\bar{x}_1	\bar{x}_2	s_1^2	s_2^2	$s_{1,2}$	r	Determinant	PosDefinite
0.062	TRUE	43	-0.19	0.19	0.71	0.83	-0.20	-0.27	0.5	TRUE
0.125	TRUE	67	-0.00	-0.08	1.01	0.89	0.03	0.03	0.9	TRUE
0.250	TRUE	285	-0.09	-0.06	1.02	1.07	-0.03	-0.02	1.1	TRUE
0.500	TRUE	3967	0.00	0.02	1.02	0.99	-0.00	-0.00	1.0	TRUE
1.000	TRUE	11	0.28	0.08	0.70	1.84	-0.19	-0.17	1.2	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	1907	0.09	0.00	1.09	0.96	0.00	0.00	1.1	TRUE
0.016	TRUE	61	0.13	-0.06	0.65	0.68	-0.02	-0.03	0.4	TRUE
0.031	TRUE	297	-0.02	-0.00	0.96	0.96	0.03	0.03	0.9	TRUE
0.062	TRUE	606	0.10	-0.06	0.96	0.85	0.01	0.02	0.8	TRUE
0.094	TRUE	12	0.56	-0.38	2.73	0.29	-0.06	-0.07	0.8	TRUE
0.125	TRUE	4626	0.06	0.01	0.95	1.00	0.02	0.02	0.9	TRUE
0.188	TRUE	24	0.89	-0.35	2.85	1.06	0.14	0.08	3.0	TRUE
0.250	TRUE	11275	0.02	0.01	1.00	0.99	-0.00	-0.00	1.0	TRUE
0.375	TRUE	635	-0.03	0.04	1.11	1.10	0.03	0.02	1.2	TRUE
0.500	TRUE	22521	0.01	0.02	1.01	1.01	0.01	0.01	1.0	TRUE
0.750	TRUE	23	0.30	0.07	1.10	0.95	0.31	0.30	1.0	TRUE
1.000	TRUE	38	0.24	0.16	1.09	1.23	-0.06	-0.05	1.3	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	555	0.07	-0.05	1.08	0.95	0.05	0.05	1.0	TRUE
0.062	TRUE	47	-0.15	0.21	0.72	0.80	-0.14	-0.18	0.6	TRUE
0.125	TRUE	96	-0.05	-0.02	1.05	0.85	-0.02	-0.02	0.9	TRUE
0.250	TRUE	297	-0.09	-0.06	1.01	1.07	-0.01	-0.01	1.1	TRUE
0.375	TRUE	15	-0.05	-0.20	1.47	0.63	0.02	0.02	0.9	TRUE
0.500	TRUE	4006	0.00	0.02	1.02	0.98	-0.00	-0.00	1.0	TRUE
0.750	TRUE	11	0.53	0.19	1.31	0.50	0.49	0.61	0.4	TRUE
1.000	TRUE	11	0.28	0.08	0.70	1.84	-0.19	-0.17	1.2	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	125	-0.10	-0.03	1.19	0.61	0.05	0.06	0.7	TRUE
0.031	TRUE	3	0.22	-0.89	0.90	0.66	-0.65	-0.84	0.2	TRUE
0.062	TRUE	289	0.16	-0.13	0.95	0.92	-0.01	-0.01	0.9	TRUE
0.094	TRUE	16	0.29	-0.03	2.27	0.65	-0.35	-0.29	1.4	TRUE
0.125	TRUE	4255	0.08	0.01	0.95	1.00	0.02	0.02	1.0	TRUE
0.188	TRUE	59	0.45	-0.07	1.52	0.98	-0.16	-0.13	1.5	TRUE
0.250	TRUE	10175	0.02	0.01	0.99	0.98	-0.00	-0.00	1.0	TRUE
0.375	TRUE	281	0.02	-0.01	0.97	1.06	0.01	0.01	1.0	TRUE
0.500	TRUE	20701	0.01	0.02	1.01	1.00	0.01	0.01	1.0	TRUE
1.000	TRUE	22	0.29	0.21	1.33	1.11	0.02	0.02	1.5	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	-0.30	-0.24	1.49	0.82	-0.12	-0.11	1.2	TRUE
0.062	FALSE	2	-0.05	0.28	1.35	3.84	-2.28	-1.00	-0.0	FALSE
0.250	TRUE	273	-0.10	-0.04	1.05	1.04	-0.02	-0.02	1.1	TRUE
0.375	TRUE	37	0.17	0.01	0.97	1.00	0.10	0.10	1.0	TRUE
0.500	TRUE	3598	-0.00	0.02	1.01	0.97	-0.00	-0.00	1.0	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	754	0.10	0.05	1.08	0.95	0.00	0.00	1.0	TRUE
0.062	TRUE	167	0.02	-0.10	0.88	0.71	0.04	0.05	0.6	TRUE
0.125	TRUE	3567	0.08	0.03	1.00	1.04	0.01	0.01	1.0	TRUE
0.250	TRUE	9683	0.02	-0.00	1.00	0.98	0.00	0.00	1.0	TRUE
0.500	TRUE	21765	0.01	0.02	1.02	1.01	0.01	0.01	1.0	TRUE
0.750	TRUE	12	0.10	-0.04	0.92	1.43	0.11	0.10	1.3	TRUE
1.000	TRUE	27	0.23	0.19	1.28	1.04	-0.01	-0.01	1.3	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	190	0.17	0.06	1.12	1.00	0.08	0.07	1.1	TRUE
0.250	TRUE	166	0.02	-0.18	0.93	0.90	0.01	0.01	0.8	TRUE
0.500	TRUE	3530	-0.01	0.01	1.03	0.98	0.01	0.01	1.0	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	148	-0.05	0.07	1.07	0.90	0.12	0.12	1.0	TRUE
0.062	TRUE	235	0.04	-0.01	0.93	0.81	-0.02	-0.03	0.7	TRUE
0.094	TRUE	323	0.11	0.11	0.79	0.90	-0.06	-0.07	0.7	TRUE
0.125	TRUE	1901	0.07	-0.01	1.01	1.08	-0.00	-0.00	1.1	TRUE
0.188	TRUE	639	0.07	0.11	0.87	1.11	0.01	0.01	1.0	TRUE
0.250	TRUE	5736	0.02	0.01	0.98	0.98	0.00	0.00	1.0	TRUE
0.375	TRUE	3021	-0.01	0.04	0.98	0.98	-0.00	-0.00	1.0	TRUE
0.500	TRUE	19159	0.01	0.01	1.02	1.01	0.02	0.02	1.0	TRUE
0.750	TRUE	32	0.14	0.10	0.62	0.90	0.09	0.12	0.6	TRUE
1.000	TRUE	36	0.17	0.11	1.13	1.21	0.01	0.01	1.4	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	76	-0.06	-0.01	0.93	1.01	0.08	0.09	0.9	TRUE
0.250	TRUE	43	0.18	0.09	0.85	1.06	-0.01	-0.01	0.9	TRUE
0.375	TRUE	310	-0.02	0.05	0.98	1.03	-0.01	-0.01	1.0	TRUE
0.500	TRUE	1877	-0.02	0.01	1.02	0.98	0.06	0.06	1.0	TRUE
0.750	TRUE	32	0.14	0.10	0.62	0.90	0.09	0.12	0.6	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