Comparison of Versions of Kinship Links
Joe Rodger's BG Team

September 20, 2012

Outcome: Afi;
RelationshipPath: Gen1Housemates [ID:1]; **Newer Links Version**: 49; **Older Links Version**: 48;

```
Newer Links: RExplicit2004 no longer contributes to R
Older Links: Implements MzManual for Gen1
R Groups specifically excluded: { 0 }
Drop pair if housemates are not confirmed in the same generation: TRUE
```

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	.05	.22	.73	3256	.06	.21	.73	3517
RExplicit	.00	.24	.76	3205	.00	.24	.76	3205
RImplicit2004	.00	.23	.77	1876	.00	.23	.77	1876

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^2_1	s^2_2	$s_{1,2}$	r	Determinant	PosDefinite
0.000	FALSE	270	6.04	4.87	0.72	0.13	28.9	TRUE
0.125	TRUE	56	3.45	4.86	0.77	0.19	16.2	TRUE
0.250	TRUE	231	8.13	6.74	1.37	0.18	52.9	TRUE
0.375	TRUE	41	5.46	4.35	-0.59	-0.12	23.4	TRUE
0.500	TRUE	2906	7.23	6.17	1.64	0.25	41.9	TRUE
0.750	TRUE	14	4.75	2.29	1.44	0.44	8.8	TRUE
1.000	TRUE	8	14.98	6.79	8.61	0.85	27.6	TRUE

Table 2: R – Newer Version of Links

R	Included in SEM	N_{Pairs}	s^2_1	s^2_2	$s_{1,2}$	r	Determinant	PosDefinite
0.000	FALSE	270	6.04	4.87	0.72	0.13	28.9	TRUE
0.125	TRUE	63	3.18	4.52	0.79	0.21	13.8	TRUE
0.250	TRUE	240	7.92	6.81	1.24	0.17	52.4	TRUE
0.375	TRUE	87	6.40	6.02	0.70	0.11	38.1	TRUE
0.500	TRUE	3105	7.19	6.05	1.61	0.24	40.9	TRUE
0.750	TRUE	14	4.75	2.29	1.44	0.44	8.8	TRUE
1.000	TRUE	8	14.98	6.79	8.61	0.85	27.6	TRUE

Table 3: R – Older Version of Links

3 Subgroups – RExplicit

RExplicit	Included in SEM	N_{Pairs}	s_1^2	s_2^2	$s_{1,2}$	r	Determinant	PosDefinite
0.250	TRUE	236	8.07	6.95	1.26	0.17	54.5	TRUE
0.375	TRUE	41	5.46	4.35	-0.59	-0.12	23.4	TRUE
0.500	TRUE	2928	7.24	6.17	1.66	0.25	41.9	TRUE

Table 4: 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	236	8.07	6.95	1.26	0.17	54.5	TRUE
0.375	TRUE	41	5.46	4.35	-0.59	-0.12	23.4	TRUE
0.500	TRUE	2928	7.24	6.17	1.66	0.25	41.9	TRUE

Table 5: RExplicit – Older Version of Links

4 Subgroups – RImplicit2004

RImplicit2004	Included in SEM	N_{Pairs}	s_1^2	s_2^2	$s_{1,2}$	r	Determinant	PosDefinite
0.125	TRUE	63	3.24	3.76	0.83	0.24	11.5	TRUE
0.250	TRUE	38	2.81	3.05	0.33	0.11	8.5	TRUE
0.375	TRUE	270	4.95	6.15	1.33	0.24	28.6	TRUE
0.500	TRUE	1482	7.30	5.75	1.42	0.22	40.0	TRUE
0.750	TRUE	23	5.97	8.21	3.61	0.52	35.9	TRUE

Table 6: RImplicit2004 – Newer Version of Links

RImplicit2004	Included in SEM	N_{Pairs}	s_1^2	s_2^2	$s_{1,2}$	r	Determinant	PosDefinite
0.125	TRUE	63	3.24	3.76	0.83	0.24	11.5	TRUE
0.250	TRUE	38	2.81	3.05	0.33	0.11	8.5	TRUE
0.375	TRUE	270	4.95	6.15	1.33	0.24	28.6	TRUE
0.500	TRUE	1482	7.30	5.75	1.42	0.22	40.0	TRUE
0.750	TRUE	23	5.97	8.21	3.61	0.52	35.9	TRUE

Table 7: RImplicit2004 – Older Version of Links

5 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
$RImplicit$	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