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## **The Influence of Family Structure on Child Outcomes: Evidence for Ireland**

CARMEL HANNAN  
*University of Limerick*

BRENDAN HALPIN  
*University of Limerick*

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### APPENDIX

Table A1: Distribution of Selection Variables in Unmatched and Matched Samples (Covariate Balance Check and Absolute Bias Reduction)

Dependent Variable:	Unmatched		Matched		Sig.	Married	Sig.	Reduction Bias %
	Cohabiting Treatment Group	Married Control Group	Cohabiting	Married				
<i>Mothers' Characteristics</i>								
Age	36.59	40.66	36.75	36.84	*	36.84	NS	97.7
Age-squared	176.18	267.33	179.19	182.32	*	182.32	NS	96.6
Height	163.33	163.85	163.2	163.3	NS	163.3	NS	90.8
Height-squared	26,720	26,889	26,700	26,716	NS	26,716	NS	90.7
Religion: Ref No religious affiliation								
Christian	0.009	0.017	0.009	0.012	NS	0.012	NS	66.4
Catholic	0.79	0.88	0.80	0.79	*	0.79	NS	83.8
Anglican/Co/Episcop	0.09	0.02	0.01	0.01	NS	0.01	NS	52.2
Other protestant	0.02	0.01	0.02	0.03	NS	0.03	NS	45.5
Other	0.01	0.01	0.01	0.01	NS	0.01	NS	-
Religious: scale	2.41	2.76	2.42	2.46	*	2.46	NS	87.3
Education: Ref none or primary								
Lower Secondary	0.30	0.12	0.29	0.33	*	0.33	NS	82.8
Higher secondary	0.28	0.32	0.28	0.29	NS	0.29	NS	71.8
Non-degree	0.21	0.25	0.21	0.19	NS	0.19	NS	57.7
Primary degree	0.09	0.17	0.10	0.09	*	0.09	NS	93.9
Postgraduate	0.03	0.11	0.03	0.03	*	0.03	NS	97.2
Native language English	0.05	0.05	0.05	0.07	NS	0.07	NS	-12,796
Irish Citizen	0.08	0.06	0.08	0.08	NS	0.08	NS	37.1
Born Ireland	0.16	0.15	0.16	0.17	NS	0.17	NS	-204
<i>Risk Factors</i>								
Smoked during pregnancy	0.57	0.22	0.57	0.61	*	0.61	NS	90.3
Drank alcohol during pregnancy	1.44	1.41	1.42	1.42	NS	1.42	NS	89.3

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Table A1: Distribution of Selection Variables in Unmatched and Matched Samples (Covariate Balance Check and Absolute Bias Reduction) (Contd.)

Dependent Variable: Maths Score	Unmatched		Matched		Sig.	Married	Sig.	Reduction Bias %
	Cohabiting Treatment Group	Married Control Group	Cohabiting					
History Chronic ill	0.08	0.05	0.08	0.10	**	0.10	NS	54
As Teen deprived (scale)	3.10	3.45	3.11	3.13	*	3.13	NS	94.5
Partner in prison: Ref No	0.006	0.001	0.006	0.002	**	0.002	NS	19.7
<i>Study Child Characteristics</i>								
Male	0.58	0.51	0.58	0.59	**	0.59	NS	77.3
Age: Ref 8								
Aged 9	0.99	0.98	0.99	0.99	NS	0.99	NS	51.3
Aged 10	0.01	0.01	0.01	0.01	NS	0.01	NS	26.8
birth weight	3.42	3.53	3.43	3.41	*	3.41	NS	80.8
Birth Time: Ref late birth								
On time	0.59	0.64	0.59	0.60	NS	0.60	NS	98.4
Somewhat early	0.09	0.11	0.10	0.11	NS	0.11	NS	16.3
Very early	0.01	0.01	0.01	0.01	NS	0.01	NS	-108
Birth mode: Ref Normal								
Suction assisted	0.07	0.07	0.08	0.08	NS	0.08	NS	54.3
Forceps assisted	0.05	0.06	0.04	0.04	NS	0.04	NS	95
Elective caesarean	0.05	0.10	0.05	0.05	*	0.05	NS	95.7
Emergency caesarean	0.08	0.09	0.08	0.08	NS	0.08	NS	94.1
Other	0.002	0.002	0.003	0.001	NS	0.001	NS	-78.4
In NICU	0.86	0.86	0.87	0.87	NS	0.87	NS	19.8
Breastfed	0.64	0.46	0.63	0.63	*	0.63	NS	98.8
Born Ireland	0.07	0.10	0.07	0.08	NS	0.08	NS	64
Birth order	1.75	2.00	1.76	1.76	*	1.76	NS	99.6

Note: \*\*\*  $p < 0.001$ , \*\*  $p < 0.01$  and \*  $p < 0.05$ . NS =  $p > 0.05$  not significant.

Table A2: *Distribution of Selection Variables in Unmatched and Matched Samples (Covariate Balance Check and Absolute Bias Reduction)*

<i>Dependent Variable:</i> <i>Maths Score</i>	<i>Unmatched</i>		<i>Sig.</i>	<i>Matched</i>		<i>Sig.</i>	<i>Reduction Bias %</i>
	<i>Previously Married Treatment Group</i>	<i>Unmarried Control Group</i>		<i>Previously Married</i>	<i>Married</i>		
<i>Mothers' Characteristics</i>							
Age	40.18	40.67	**	40.19	40.11	NS	85.2
Age-squared	258	267	NS	258	257	NS	82
Height	163.76	163.85	NS	163.8	163.9	NS	-53.7
Height-squared	26,865	26,890	NS	26,882	26,929	NS	-83.3
Religion: Ref No religious affiliation							
Christian	0.04	0.02	**	0.04	0.04	NS	84.9
Catholic	0.79	0.88	***	0.80	0.81	NS	88.9
Anglican/CoI/Episcop	0.02	0.02	NS	0.02	0.02	NS	-
Other protestant	0.02	0.01	NS	0.02	0.01	NS	81.8
Religious: scale	2.68	2.76	NS	2.69	2.69	NS	94.7
Education: Ref none or primary							
Lower Secondary	0.18	0.12	***	0.18	0.17	NS	84.2
Higher secondary	0.28	0.32	NS	0.28	0.28	NS	91.8
Non-degree	0.24	0.25	NS	0.24	0.25	NS	3.2
Primary degree	0.14	0.17	NS	0.14	0.14	NS	84.1
Postgraduate	0.09	0.11	NS	0.09	0.09	NS	87.6
Native language English	0.07	0.05	**	0.07	0.07	NS	83.5
Irish Citizen	0.11	0.06	***	0.11	0.11	NS	94.7
Born Ireland	0.22	0.15	***	0.22	0.23	NS	86
<i>Risk Factors</i>							
Smoked during pregnancy	0.50	0.23	***	0.50	0.48	NS	92.5
Drank alcohol during pregnancy	1.38	1.41	NS	1.37	1.38	NS	80.7

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Table A2: Distribution of Selection Variables in Unmatched and Matched Samples  
(Covariate Balance Check and Absolute Bias Reduction) (Contd.)

Dependent Variable: Maths Score	Unmatched		Matched		Sig.	Previously Married	Sig.	Reduction Bias %
	Previously Married Treatment Group	Married Control Group	Previously Married	Married				
History Chronic ill	0.05	0.05	0.05	0.04	NS	0.05	NS	-292
As Teen deprived (scale)	3.46	3.45	3.46	3.47	NS	3.46	NS	-209
Partner in prison: Ref No	0.01	0.001	0.004	0.004	***	0.004	NS	100
<i>Study Child Characteristics</i>								
Male	0.54	0.51	0.54	0.54	NS	0.54	NS	91.5
Age: Ref 8								
Aged 9	0.97	0.98	0.97	0.97	NS	0.97	NS	71
Aged 10	0.02	0.008	0.02	0.02	***	0.02	NS	67.9
birth weight	3.46	3.53	3.47	3.48	**	3.47	NS	77.2
Birth Time: Ref late birth								
On time	0.62	0.64	0.62	0.62	NS	0.62	NS	85.1
Somewhat early	0.11	0.11	0.11	0.11	NS	0.11	NS	87.4
Very early	0.02	0.01	0.02	0.02	NS	0.02	NS	61.2
Birth mode: Ref Normal								
Suction assisted	0.04	0.07	0.04	0.04	**	0.04	NS	75.5
Forceps assisted	0.05	0.06	0.05	0.05	NS	0.05	NS	91.1
Elective caesarean	0.08	0.10	0.08	0.08	NS	0.08	NS	49.8
Emergency caesarean	0.11	0.09	0.11	0.10	NS	0.11	NS	1
In NICU	0.87	0.86	0.87	0.89	NS	0.87	NS	-54.6
Breastfed	0.49	0.47	0.49	0.51	NS	0.49	NS	45
Born Ireland	0.16	0.10	0.16	0.17	***	0.16	NS	77.2
Birth order	2.07	2.00	2.06	2.03	NS	2.06	NS	53.6

Note: \*\*\*  $p < 0.001$ , \*\*  $p < 0.01$  and \*  $p < 0.05$ . NS =  $p > 0.05$  not significant.

Table A3: Distribution of Selection Variables in Unmatched and Matched Samples  
(Covariate Balance Check and Absolute Bias Reduction)

Dependent Variable: Maths Score	Unmatched		Sig.	Matched		Sig.	Reduction Bias %
	Never Married One-parent Treatment Group	Married Control Group		Never Married One-parent Group	Married Group		
<i>Mothers' Characteristics</i>							
Age	33.88	40.68	***	34.05	33.94	NS	98.4
Age-squared	110	267	***	113	109	NS	97.2
Height	163.38	163.87	NS	163.4	163.3	NS	75.4
Height-squared	26,741	26,896	NS	26,755	26,715	NS	74.2
Religion: Ref No religious affiliation							
Christian	0.02	0.02	NS	0.02	0.04	NS	-97
Catholic	0.80	0.88	***	0.80	0.78	NS	64.9
Anglican/Col/Episcop	0.01	0.02	NS	0.01	0.01	NS	69.3
Other protestant	0.009	0.01	NS	0.009	0.01	NS	-30
Muslim	0.002	0.001	NS	0.002	0.002	NS	-177
Other	0.006	0.002	*	0.007	0.09	NS	53
Religious: scale	2.45	2.75	***	2.45	2.49	NS	88
Education: Ref none or primary							
Lower Secondary	0.21	0.12	***	0.21	0.25	NS	60
Higher secondary	0.30	0.32	NS	0.30	0.28	NS	-41.1
Non-degree	0.25	0.25	NS	0.25	0.25	NS	-
Primary degree	0.09	0.17	***	0.09	0.08	NS	99.2
Postgraduate	0.06	0.11	**	0.06	0.05	NS	65.1
Native language English	0.04	0.05	NS	0.04	0.07	NS	-401
Irish Citizen	0.05	0.06	NS	0.05	0.08	NS	-244
Born Ireland	0.14	0.15	NS	0.14	0.17	NS	-410.6
<i>Risk Factors</i>							
Smoked during pregnancy	0.63	0.23	***	0.61	0.69	NS	81.4

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Table A3: Distribution of Selection Variables in Unmatched and Matched Samples  
(Covariate Balance Check and Absolute Bias Reduction) (Contd.)

Dependent Variable: Maths Score	Unmatched		Sig.	Matched		Sig.	Reduction Bias %
	Never Married One-parent Treatment Group	Married Control Group		Never Married One-parent Group	Married Group		
Drank alcohol during pregnancy	1.38	1.41	NS	1.38	1.39	NS	77.0
History Chronic ill	0.09	0.05	**	0.08	0.08	NS	73.2
As Teen deprived (scale)	3.31	3.45	**	3.31	3.16	NS	-5.8
Partner in prison: Ref No	0.04	0.001	***	0.02	0.01	NS	64.1
<i>Study Child Characteristics</i>							
Male	0.55	0.51	NS	0.55	0.57	NS	53.5
Age: Ref 8							
Aged 9	0.98	0.98	NS	0.98	0.98	NS	-
Aged 10	0.004	0.008	NS	0.004	0.007	NS	29.6
birth weight	3.34	3.53	***	3.34	3.32	NS	91.6
Birth Time: Ref late birth							
On time	0.54	0.64	***	0.54	0.54	NS	92.4
Somewhat early	0.16	0.11	**	0.15	0.15	NS	88.1
Very early	0.02	0.01	NS	0.02	0.02	NS	93.3
Birth mode: Ref Normal							
Suction assisted	0.06	0.07	NS	0.06	0.06	NS	91.8
Forceps assisted	0.07	0.06	NS	0.07	0.07	NS	55.1
Elective caesarean	0.04	0.10	***	0.04	0.04	NS	92.8
Emergency caesarean	0.08	0.09	NS	0.09	0.11	NS	-191
Other	0.002	0.002	NS	0.002	0.003	NS	-1.4
In NICU	0.82	0.86	**	0.83	0.82	NS	91.9
Breastfed	0.64	0.47	***	0.64	0.63	NS	89.9
Born Ireland	0.08	0.10	NS	0.07	0.09	NS	22.9
Birth order	1.37	2.00	***	1.37	1.34	NS	94.6

Note: \*\*\*  $p < 0.001$ , \*\*  $p < 0.01$  and \*  $p < 0.05$ . NS =  $p > 0.05$  not significant.