

Supplementary material

Title

Alloparental support and infant psychomotor developmental delay.

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Table S1. Logistic regression results for kin-based allocare is main weekday care arrangement, excluding the five other family and social support variables.

Table S2. Logistic regression results for frequency mother sees her mother, excluding the five other family and social support variables.

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Table S9. Logistic regression results for cases missing paternal information.

Table S1. Model Coefficients - Developmental delay at least 2SD below mean

Predictor	Estimate	SE	Z	p	Odds ratio	95% Confidence Interval	
						Lower	Upper
Intercept	-4.11	0.35	-11.76	< .001	0.02	0.01	0.03
1/Birthweight (z-scores)	0.55	0.03	19.92	< .001	1.74	1.65	1.84
Infant sex, 1=M, 2=F	-0.56	0.08	-6.72	< .001	0.57	0.49	0.67
Infant number of health problems	0.05	0.01	3.25	0.001	1.05	1.02	1.08
Infant's number of siblings	0.10	0.04	2.75	0.006	1.11	1.03	1.20
Maternal age	0.03	0.01	3.63	< .001	1.03	1.01	1.04
South Asia	-0.14	0.13	-1.03	0.305	0.87	0.67	1.13
Caribbean	-0.89	0.44	-2.01	0.044	0.41	0.17	0.98
Africa	-0.67	0.35	-1.94	0.053	0.51	0.26	1.01
Income (z-scores)	-0.02	0.05	-0.41	0.684	0.98	0.89	1.08
Daycare facility is main weekday care arrangement	-0.42	0.15	-2.75	0.006	0.66	0.49	0.89
Kin-based allocare is main weekday care arrangement	-0.60	0.13	-4.49	< .001	0.55	0.42	0.71

Note. Estimates represent the log odds of "Developmental delay at least 2SD below mean = 1" vs. "Developmental delay at least 2SD below mean = 0"

Table S2. Model Coefficients - Developmental delay at least 2SD below mean

Predictor	Estimate	SE	Z	p	Odds ratio	95% Confidence Interval	
						Lower	Upper
Intercept	-4.97	0.30	-16.40	< .001	0.01	0.00	0.01
1/Birthweight (z-scores)	0.55	0.03	20.21	< .001	1.74	1.65	1.83
Infant sex, 1=M, 2=F	-0.56	0.08	-6.74	< .001	0.57	0.49	0.67
Infant number of health problems	0.05	0.01	3.33	< .001	1.05	1.02	1.08
Infant's number of siblings	0.12	0.04	3.17	0.002	1.13	1.05	1.21
Maternal age	0.02	0.01	2.75	0.006	1.02	1.01	1.04
South Asia	-0.22	0.14	-1.60	0.109	0.80	0.61	1.05
Caribbean	-0.94	0.44	-2.12	0.034	0.39	0.17	0.93
Africa	-0.85	0.35	-2.41	0.016	0.43	0.22	0.85
Income (z-scores)	-0.05	0.05	-1.06	0.288	0.95	0.86	1.04
Daycare facility is main weekday care arrangement	-0.30	0.15	-2.02	0.043	0.74	0.55	0.99
Freq. mother sees her mother, 0=daily to 8=never	0.07	0.02	3.94	< .001	1.07	1.03	1.11

Note. Estimates represent the log odds of "Developmental delay at least 2SD below mean = 1" vs. "Developmental delay at least 2SD below mean = 0"

Table S3. Model Coefficients - Developmental delay at least 2SD below mean

Predictor	Estimate	SE	Z	p	Odds ratio	95% Confidence Interval	
						Lower	Upper
Intercept	-5.20	0.31	-16.57	< .001	0.01	0.00	0.01
1/Birthweight (z-scores)	0.55	0.03	19.75	< .001	1.73	1.64	1.82
Infant sex, 1=M, 2=F	-0.56	0.08	-6.63	< .001	0.57	0.48	0.67
Infant number of health problems	0.05	0.02	3.58	< .001	1.06	1.02	1.09
Infant's number of siblings	0.10	0.04	2.66	0.008	1.11	1.03	1.20
Maternal age	0.03	0.01	3.55	< .001	1.03	1.01	1.04
South Asia	-0.17	0.15	-1.14	0.254	0.85	0.63	1.13
Caribbean	-0.84	0.44	-1.91	0.056	0.43	0.18	1.02
Africa	-0.69	0.37	-1.85	0.064	0.50	0.24	1.04
Income (z-scores)	-0.04	0.05	-0.76	0.446	0.96	0.87	1.06
Daycare facility is main weekday care arrangement	-0.27	0.15	-1.83	0.067	0.76	0.57	1.02
Family would help if money problems, agree=1, to 5	0.14	0.04	3.64	< .001	1.15	1.07	1.24

Note. Estimates represent the log odds of "Developmental delay at least 2SD below mean = 1" vs. "Developmental delay at least 2SD below mean = 0"

Table S4. Model Coefficients - Developmental delay at least 2SD below mean

Predictor	Estimate	SE	Z	p	Odds ratio	95% Confidence Interval	
						Lower	Upper
Intercept	-5.21	0.32	-16.22	< .001	0.01	0.00	0.01
1/Birthweight (z-scores)	0.54	0.03	19.63	< .001	1.72	1.63	1.82
Infant sex, 1=M, 2=F	-0.56	0.08	-6.63	< .001	0.57	0.48	0.67
Infant number of health problems	0.05	0.02	3.51	< .001	1.06	1.02	1.09
Infant's number of siblings	0.11	0.04	2.88	0.004	1.12	1.04	1.21
Maternal age	0.03	0.01	3.83	< .001	1.03	1.02	1.05
South Asia	-0.14	0.15	-0.98	0.329	0.87	0.65	1.16
Caribbean	-0.84	0.44	-1.90	0.058	0.43	0.18	1.03
Africa	-0.63	0.37	-1.68	0.092	0.54	0.26	1.11
Income (z-scores)	-0.04	0.05	-0.78	0.437	0.96	0.87	1.06
Daycare facility is main weekday care arrangement	-0.27	0.15	-1.83	0.067	0.76	0.57	1.02
Other parents to talk to, 1=daily to 5=never	0.10	0.04	2.49	0.013	1.10	1.02	1.19

Note. Estimates represent the log odds of "Developmental delay at least 2SD below mean = 1" vs. "Developmental delay at least 2SD below mean = 0"

Table S5. Model Coefficients - Developmental delay at least 2SD below mean

Predictor	Estimate	SE	Z	p	Odds ratio	95% Confidence Interval	
						Lower	Upper
Intercept	-5.35	0.33	-16.40	< .001	0.00	0.00	0.01
1/Birthweight (z-scores)	0.55	0.03	19.97	< .001	1.73	1.64	1.82
Infant sex, 1=M, 2=F	-0.55	0.08	-6.60	< .001	0.58	0.49	0.68
Infant number of health problems	0.05	0.01	3.44	< .001	1.05	1.02	1.08
Infant's number of siblings	0.13	0.04	3.55	< .001	1.14	1.06	1.23
Maternal age	0.03	0.01	3.32	< .001	1.03	1.01	1.04
South Asia	-0.18	0.14	-1.33	0.183	0.84	0.64	1.09
Caribbean	-0.92	0.44	-2.10	0.036	0.40	0.17	0.94
Africa	-0.71	0.35	-2.03	0.042	0.49	0.25	0.97
Income (z-scores)	-0.04	0.05	-0.89	0.374	0.96	0.87	1.05
Daycare facility is main weekday care arrangement	-0.29	0.15	-1.96	0.050	0.75	0.56	1.00
Freq. mother has time with friends, 1=often to 5=never	0.15	0.04	3.59	< .001	1.16	1.07	1.26

Note. Estimates represent the log odds of "Developmental delay at least 2SD below mean = 1" vs. "Developmental delay at least 2SD below mean = 0"

Table S6. Model Coefficients - Developmental delay at least 2SD below mean

Predictor	Estimate	SE	Z	p	Odds ratio	95% Confidence Interval	
						Lower	Upper
Intercept	-4.43	0.33	-13.45	< .001	0.01	0.01	0.02
1/Birthweight (z-scores)	0.54	0.03	19.96	< .001	1.72	1.63	1.82
Infant sex, 1=M, 2=F	-0.56	0.08	-6.72	< .001	0.57	0.49	0.67
Infant number of health problems	0.05	0.01	3.33	< .001	1.05	1.02	1.08
Infant's number of siblings	0.12	0.04	3.11	0.002	1.12	1.04	1.21
Maternal age	0.02	0.01	2.94	0.003	1.02	1.01	1.04
South Asia	-0.13	0.13	-0.99	0.324	0.88	0.67	1.14
Caribbean	-0.86	0.44	-1.97	0.048	0.42	0.18	0.99
Africa	-0.72	0.35	-2.04	0.041	0.49	0.25	0.97
Income (z-scores)	-0.05	0.05	-0.99	0.323	0.95	0.87	1.05
Daycare facility is main weekday care arrangement	-0.28	0.15	-1.90	0.058	0.75	0.56	1.01
Number of people at birth	-0.33	0.09	-3.78	< .001	0.72	0.61	0.85

Note. Estimates represent the log odds of "Developmental delay at least 2SD below mean = 1" vs. "Developmental delay at least 2SD below mean = 0"

Table S7. Father present in household cases only

Model Coefficients - Developmental delay at least 2SD below mean

Predictor	Estimate	SE	Z	p	Odds ratio	95% Confidence Interval	
						Lower	Upper
Intercept	-4.25	0.43	-9.76	< .001	0.01	0.01	0.03
1/Birthweight (z-scores)	0.55	0.03	17.37	< .001	1.73	1.63	1.84
Infant sex, 1=M, 2=F	-0.57	0.09	-6.08	< .001	0.57	0.47	0.68
Infant number of health problems	0.06	0.02	4.00	< .001	1.06	1.03	1.10
Infant's number of siblings	0.08	0.04	1.84	0.066	1.08	0.99	1.18
Maternal age	0.03	0.01	2.81	0.005	1.03	1.01	1.04
South Asia	-0.28	0.17	-1.63	0.103	0.75	0.54	1.06
Caribbean	-1.16	0.57	-2.05	0.041	0.31	0.10	0.95
Africa	-0.70	0.43	-1.62	0.105	0.50	0.21	1.16
Income (z-scores)	-0.00	0.05	-0.08	0.936	1.00	0.90	1.10
Paternal care score, 1=none, to 21=highest	-0.02	0.01	-1.93	0.054	0.98	0.97	1.00
Daycare facility is main weekday care arrangement	-0.35	0.16	-2.21	0.027	0.70	0.52	0.96
Kin-based allocare is main weekday care arrangement	-0.46	0.15	-3.12	0.002	0.63	0.47	0.84
Freq. mother sees her mother, 0=daily to 8=never	0.04	0.02	1.87	0.061	1.04	1.00	1.08
Family would help if money problems, agree=1, to disagree=5	0.11	0.05	2.38	0.017	1.11	1.02	1.22
Other parents to talk to, 1=daily to 5=never	0.06	0.04	1.44	0.150	1.07	0.98	1.16
Number of people at birth	-0.25	0.10	-2.52	0.012	0.78	0.64	0.95

Note. Estimates represent the log odds of "Developmental delay at least 2SD below mean = 1" vs. "Developmental delay at least 2SD below mean = 0"

Table S8. Father sometimes present or absent in household cases only (1215 individuals) Note: African families excluded due to too few father absent households.

Model Coefficients - Developmental delay at least 2SD below mean

Predictor	Estimate	SE	Z	p	Odds ratio	95% Confidence Interval	
						Lower	Upper
Intercept	-4.11	2.01	-2.05	0.041	0.02	0.00	0.84
1/Birthweight (z-scores)	0.70	0.11	6.24	< .001	2.01	1.61	2.50
Infant sex, 1=M, 2=F	-0.71	0.37	-1.90	0.058	0.49	0.24	1.02
Infant number of health problems	-0.02	0.09	-0.19	0.848	0.98	0.83	1.17
Infant's number of siblings	0.24	0.16	1.49	0.136	1.27	0.93	1.72
Maternal age	-0.00	0.04	-0.05	0.963	1.00	0.93	1.07
South Asia	0.25	0.64	0.39	0.694	1.28	0.37	4.46
Caribbean	-0.02	0.84	-0.03	0.978	0.98	0.19	5.12
Income (z-scores)	0.51	0.43	1.17	0.243	1.66	0.71	3.88
Daycare facility is main weekday care arrangement	-0.99	1.11	-0.90	0.369	0.37	0.04	3.23
Kin-based allocare is main weekday care arrangement	-0.14	0.65	-0.21	0.832	0.87	0.24	3.14
Freq. mother sees her mother, 0=daily to 8=never	-0.11	0.08	-1.28	0.200	0.90	0.76	1.06
Family would help if money problems, agree=1, to 5	0.09	0.16	0.58	0.565	1.10	0.80	1.52
Other parents to talk to, 1=daily to 5=never	0.23	0.16	1.45	0.148	1.26	0.92	1.74
Number of people at birth	0.09	0.29	0.31	0.754	1.10	0.62	1.95

Note. Estimates represent the log odds of "Developmental delay at least 2SD below mean = 1" vs. "Developmental delay at least 2SD below mean = 0"

Table S9. Cases missing paternal care information (n=2257)

Model Coefficients - Developmental delay at least 2SD below mean

Predictor	Estimate	SE	Z	p	Odds ratio	95% Confidence Interval	
						Lower	Upper
Intercept	-2.15	1.24	-1.73	0.084	0.12	0.01	1.33
1/Birthweight (z-scores)	0.46	0.07	6.16	< .001	1.58	1.37	1.83
Infant sex, 1=M, 2=F	-0.56	0.25	-2.20	0.028	0.57	0.35	0.94
Infant number of health problems	-0.02	0.06	-0.35	0.724	0.98	0.87	1.10
Infant's number of siblings	-0.05	0.12	-0.39	0.698	0.95	0.75	1.21
Maternal age	0.02	0.02	0.99	0.322	1.02	0.98	1.07
South Asia	-0.40	0.35	-1.16	0.245	0.67	0.34	1.32
Caribbean	-1.03	1.24	-0.83	0.408	0.36	0.03	4.09
Income (z-scores)	-0.08	0.16	-0.52	0.606	0.92	0.67	1.27
Daycare facility is main weekday care arrangement	-0.86	0.62	-1.39	0.166	0.42	0.13	1.43
Kin-based allocare is main weekday care arrangement	-0.77	0.44	-1.76	0.078	0.46	0.20	1.09
Freq. mother sees her mother, 0=daily to 8=never	0.12	0.05	2.37	0.018	1.13	1.02	1.25
Family would help if money problems, agree=1, to 5	-0.11	0.14	-0.79	0.429	0.90	0.68	1.18
Other parents to talk to, 1=daily to 5=never	0.01	0.12	0.08	0.936	1.01	0.79	1.29
Number of people at birth	-0.84	0.28	-3.03	0.002	0.43	0.25	0.74

Note. Estimates represent the log odds of "Developmental delay at least 2SD below mean = 1" vs. "Developmental delay at least 2SD below mean = 0"