

Supplemental Table 1 Comparison between the current study population and those who excluded from the current study due to no data of pet ownership

		Mean $\pm$ SD or n (%)		p-value
Parents		Current study (n=78,868)	Excluded (n=860)	
Maternal age at delivery (years)		30.7 $\pm$ 5.1	30.8 $\pm$ 5.2	0.645
Parity	nulliparous	31,078 (39.4)	336 (39.1)	0.844
	multipara	32,986 (41.8)	503 (74.0)	
	missing	1,908 (2.4)	21 (2.4)	
Maternal smoking at 2 <sup>nd</sup> trimester	yes	2,874 (3.6)	93 (10.8)	< 0.001
	no	75,051 (95.2)	711 (82.7)	
	missing	943 (1.2)	56 (6.5)	
Maternal drinking at 2 <sup>nd</sup> trimester	yes	2,134 (2.7)	29 (3.4)	0.139
	no	75,789 (96.1)	778 (90.5)	
	missing	945 (1.2)	53 (6.2)	
Maternal education	< 13	26,859 (34.1)	413 (48.0)	< 0.001
	$\geq$ 13	51,249 (65.0)	400 (45.5)	
	missing	760 (1.0)	47 (5.5)	
Paternal education	< 13	33,115 (42.0)	467 (54.3)	< 0.001
	$\geq$ 13	44,570 (56.5)	342 (39.8)	
	missing	1,183 (1.5)	51 (5.9)	
Annual household income at 2 <sup>nd</sup> trimester	< 4	28,699 (36.4)	386 (44.9)	< 0.001
	$\geq$ 4	44,361 (56.2)	351 (40.8)	
	missing	5,808 (7.4)	123 (14.3)	
<b>Infant</b>				
Sex	male	40,274 (51.1)	442 (51.4)	0.854
	female	38,572 (48.9)	418 (48.6)	
	missing	22 (0.0)	0 (0.0)	
Birth weight (g)		3041 $\pm$ 384	3021 $\pm$ 426	0.169
Gestational age (weeks)		39.4 $\pm$ 1.2	39.2 $\pm$ 1.5	< 0.001
Delivery mode	vaginal	64,007 (81.2)	680 (79.1)	0.133
	cesarean	14,665 (18.6)	177 (20.6)	
	missing	196 (0.2)	3 (0.3)	
Duration of breast feeding (months)	0	1,978 (2.5)	50 (5.8)	< 0.001
	1-6	16,582 (21.0)	304 (35.3)	

	7-12	60,308 (76.5)	506 (58.8)
Chi-square test or t-test.			

Supplemental Table 2 Comparison of ASQ-3 scores between the current study population and those who excluded from the current study due to no data of pet ownership

ASQ subscale	Cutoff	Mean $\pm$ SD		p-value
		Current study (n=78,868)	Excluded (n=860)	
Communication	15.64	Mean $\pm$ SD 37.68 $\pm$ 13.43	40.9 $\pm$ 13.2	< 0.001
Gross motor	21.49	Mean $\pm$ SD 42.78 $\pm$ 17.55	44.5 $\pm$ 16.9	0.004
Fine motor	34.50	Mean $\pm$ SD 48.21 $\pm$ 11.63	48.9 $\pm$ 11.6	0.091
Problem-solving	27.32	Mean $\pm$ SD 42.35 $\pm$ 13.61	44.3 $\pm$ 13.5	< 0.001
Personal-social	21.73	Mean $\pm$ SD 37.03 $\pm$ 14.57	39.9 $\pm$ 14.4	< 0.001

t-test.

Supplemental Table 3 Infant development delays at 12 months of age in association with cat and dog ownership at 6 months of age

	OR (95% CI)		
	Only cat ownership	Only dog ownership	Both cat and dog ownership
Communication	1.14 (1.02, 1.28)*	0.75 (0.68, 0.83)**	0.65 (0.51, 0.83)*
Gross motor	0.93 (0.85, 1.02)	0.85 (0.79, 0.91)**	0.91 (0.78, 1.06)
Fine motor	0.93 (0.84, 1.03)	0.83 (0.77, 0.90)**	0.86 (0.72, 1.03) <sup>+</sup>
Problem solving	1.02 (0.94, 1.11)	0.92 (0.86, 0.98)*	0.83 (0.71, 0.96)*
Personal-social	0.96 (0.88, 1.04) <sup>+</sup>	0.84 (0.79, 0.89)**	0.79 (0.69, 0.92)*

Adjusted for maternal and paternal education, maternal smoke during pregnancy, annual household income during pregnancy, maternal mental illness (K6), duration of breast feeding.

<sup>+</sup> p < 0.10, \* p < 0.05, \*\* p < 0.001